

KONGU ARTS AND SCIENCE COLLEGE (AUTONOMOUS)

Nanjanapuram, Erode – 107.

2017-2018 BATCH AND ONWARDS

Programme Outcomes (POs): Programme outcomes are the knowledge, skills and ethical values that the students would possess at the end of course completion of their respective Programmes.

Programme Specific Outcomes (PSOs): Programme specific outcomes refer to the students' realization of the fact that the knowledge and techniques learnt through various courses have direct effect on their lives and the implementation of the acquired knowledge as an impact on the society.

Course Outcomes (COs): Course outcomes vary according to the courses which encompass variegated benefits like knowledge and language enrichment, skill enhancement, and acquisition of moral and ethical values.

Programme Outcomes (PO), Programme Specific Outcomes (PSOs) and Course Outcomes (COs) for all Programmes and Courses offered by the Institution are stated and displayed in website of the Institution (weblink: <https://www.kasc.ac.in>). Our college teachers and students are clearly instructed that a copy of the outcomes is available in the college website and department records. Outcomes of the Programmes and Courses are highlighted and made aware to the students during Induction Programmes. The importance of the learning outcomes has been discussed and communicated to the teachers in the staff meeting.

PROGRAMME OUTCOMES, PROGRAMME SPECIFIC OUTCOMES & COURSE OUTCOMES

(For the candidates admitted during the academic year 2017 -2018 and onwards)

Programme Outcomes: (பாடத்திட்ட விளைவுகள்)

Towards the end of the programme, the students will be able to:

PO Number	PO Statement
PO1	நுட்பமான சிந்தனை: நமது சிந்தனையையும், செயல்களையும் வடிவமைக்கும் கருத்தாக்கங்களை அடையாளம் கண்டபின் அதற்கான நடவடிக்கைகளை மேற்கொள்ளுதல். இக்கருத்தாக்கங்கள் எந்த அளவிற்குத் துல்லியமானவை என்பதைச் சரிபார்த்து, தங்களது யோசனைகளையும் முடிவுகளையும் (அறிவுசார், நிறுவன மற்றும் தனிப்பட்ட) வெவ்வேறு கோணங்களிலிருந்து பார்த்து அறிவர்.
PO2	பயனள்ள தகவல் தொடர்பு: தனி நபராக தெளிவாகப் பேசவும் படிக்கவும் எழுதவும் மற்றும் கேட்கவும் அறிந்துகொள்வர். மின்னணு ஊடகங்கள் வாயிலாக ஆங்கிலம் மற்றும் இதர இந்திய மொழியை அறிவதால் பல நூல்கள், கருத்துகள், ஊடகம் மற்றும் தொழில்நுட்பத்தைப் புரிந்துகொள்வதோடு உலகியலைத் தொடர்புகொள்ளவும் அறிவர்.
PO3	சமூகத்தொடர்பு: பிறருடைய கருத்துகளையும் எண்ணங்களையும் வெளிக்கொண்டு வருவதோடு கருத்து வேறுபாடுகளை பொது முடிவுக்குக் கொண்டு வருதல் மற்றும் குழு அமைப்புகள் மூலம் கருத்துகளை முடிவுக்குக் கொண்டு வருதல்.
PO4	பயனள்ள குடியறிமை: சமூக நலத்தில் அக்கறை கொண்டு பரவலான சமத்துவ தேசிய வளர்ச்சி மற்றும் தேசியப் பிரச்சினைகளில் பங்கு பெறும் திறனைப்பெறுதல். பொதுத்தொண்டு நிறுவனங்களுடன் இணைந்து நாட்டு நலனுக்காக செயல்படுதல்.
PO5	நெறிமுறைகள்: பல்வேறு சமூக நெறிமுறைகளை உணர்ந்து அவற்றின் வழி நடப்பதற்கும் பொறுப்புகளை ஏற்றுக்கொள்வதற்குமான திறன் பெறுவர்.
PO6	சுற்றுச்சூழல் மற்றும் நிலைத்தன்மை: சுற்றுச்சூழல் மற்றும் அதன் நிலையான வளர்ச்சியின் சிக்கல்களைப் புரிதல்.
PO7	சுயமாக வாழ்நாள் முழுவதும் கற்றல்: பரந்த சூழலில் ஏற்றப்பட்டுள்ள சமூக தொழில் நுட்ப மாற்றங்களை சுதந்திரமாக வாழ்நாள் முழுவதும் கற்கும் திறன் பெறுதல்.

Programme Specific Outcomes: At the end of the Programme, Students will be able to

(குறிப்பிடத்தக்க பாடத்திட்டத்தின் முடிவில் மாணவர்கள் பெறுவது)

PSO Number	PSO Statement
PSO1	படைப்பிலக்கியங்களில் வகைமை மற்றும் கருத்து ஆளுமையை அறிதல்
PSO2	வாழ்வியல் விழுமியங்களை அறிதல்
PSO3	சங்ககால மக்களின் வாழ்வியல் நெறிகளை அறிதல்
PSO4	சமயங்கள் உணர்த்தும் மனித நேயம் சிந்தனையை அறிதல்
PSO5	மொழியியல் புலமையும் வாசிப்புத் திறனையும் பெறுதல்.

SEMESTER I

Course Name : PART I :TAMIL – I

Course Code : 17T01

CO1	மரபுக்கவிதை குறித்த சிந்தனைகளை வளர்த்துக்கொள்ள உதவும்.
CO2	புதுக்கவிதை குறித்து அறிந்துகொள்ள உதவும்.
CO3	சிறுகதை குறித்த கருத்தாக்கத்தை அறிந்துகொள்ள உதவும்.
CO4	இலக்கிய வரலாற்றினை அறிந்துகொள்ள உதவும்.
CO5	மொழித்திறனை மேம்படுத்திக்கொள்ள உதவும்.

Course Name : PART I : TAMIL - II

Course Code : 17T02

CO1	அறச்சிந்தனைகளை வளர்த்துக்கொள்ள உதவும்.
CO2	இலக்கியச் சிந்தனையை மேம்படுத்த உதவும்.
CO3	உரைநடை நுட்பங்களை அறிய உதவும்.
CO4	இலக்கணப் பிழையின்றி மொழியைப் பயன்படுத்த உதவும்.
CO5	இலக்கிய வரலாற்றினை அறிந்துகொள்ள உதவும்.

Course Name : PART I : TAMIL - III

Course Code : 17T03

CO1	காப்பியக் கருத்துக்கள் அறச்சிந்தனையை வளர்த்துக்கொள்ள உதவும்
CO2	பழங்கால சமயக் கோட்பாடுகளை அறிந்து கொள்ள பயன்படும்
CO3	சமூக மரபு மாற்றங்களை அறிந்து கொள்ள உதவும்
CO4	பாடப்பகுதியை ஒட்டிய இலக்கியங்களின் வரலாற்றினை அறிந்து கொள்ள உதவும்.
CO5	அணி நயத்தை உணர பயன்படும் வாசிக்கும் பழக்கத்தை ஏற்படுத்தும்

Course Name : PART I : TAMIL – IV

Course Code : 17T04

CO1	பழந்தமிழ் இலக்கியத்தின் மேன்மைகளை அறியப் பயன்படும்
CO2	பழந்தமிழ் மக்களின் வாழ்வியல் நெறிகளை அறிய உதவும்
CO3	தமிழர் மரபுசார் மேன்மை பண்புகளை நடைமுறை வாழ்வியலோடு ஒப்பிட உதவும்
CO4	பாடப்பகுதியை ஒட்டிய இலக்கியங்களின் வரலாற்றினை அறிந்து கொள்ள உதவும்
CO5	சங்க கால அகம் மற்றும் புறம் சார்ந்த ஒழுக்க நெறிகளை அறிந்துகொள்ள உதவும், மாணவர்களின் சிந்தனைத்திறனை வளர்த்து கட்டுரை எழுதும் பழக்கத்தைத் தூண்டும்

Programme Title: B.A Tamil Literature

Course Name : CORE I - இக்கால இலக்கியம்

Course Code : 19UAUCT101

CO1	மனிதநேயச் சிந்தனையை வளர்த்துக்கொள்ள உதவும்.
CO2	பொதுவுடைமைச் சிந்தனையை மேம்படுத்த உதவும்.
CO3	பழங்கால வரலாற்றினை அறிந்துகொள்ள உதவும்.
CO4	சமூகச்சிந்தனையை உருவாக்கிக் கொள்ள உதவும்.
CO5	பெண்ணியம் மற்றும் வாழ்வியல் கூறுகளின் சிறப்புகளை அறிய உதவும்.

Course Name : CORE II – உரைநடை இலக்கியம்

Course Code : 19UAUCT102

CO1	பெண் முன்னேற்றச் சிந்தனையை மேம்படுத்த உதவும்.
CO2	அறிவியல் அணுகுமுறையை அறிந்துகொள்ள உதவும்.
CO3	சுற்றுச்சூழல் பாதுகாப்பு குறித்த சிந்தனைகளை வளர்த்துக்கொள்ள உதவும்.
CO4	நடப்பியல் வாழ்வியலை அறிந்துகொள்ள உதவும்.
CO5	வரலாற்றுச் செய்திகளை அறிந்துகொள்ள உதவும்.

Course Name : ALLIED I - தமிழ் இலக்கிய வரலாறு - I

Course Code : 19UAUAT103

CO1	தமிழ் இலக்கிய இலக்கணங்களை அறிந்துகொள்ள உதவும்.
CO2	இசைத்தமிழ், உரைநடை குறித்த சிந்தனைகளை வளர்த்துக்கொள்ள உதவும்.
CO3	கவிதையின் பரிணாம வளர்ச்சியை அறிந்துகொள்ள உதவும்.
CO4	இக்கால இலக்கியங்களின் கருத்தாக்கங்களை அறிந்துகொள்ள உதவும்.
CO5	நாட்டுப்புற, ஈழத்து இலக்கியங்கள் குறித்து அறிய உதவும்.

Course Name : Foundation Course – I சுற்றுச்சூழல் கல்வி

Course Code : 17ES01

C01	சுற்றுச்சூழல் அமைப்பு குறித்து அறிந்துகொள்ள உதவும்.
C02	இயற்கைப் பாதுகாப்பு குறித்த சிந்தனைகளை வளர்த்துக்கொள்ள உதவும்.
C03	மாசுபாடு குறித்தும் அதிலிருந்து மீள்வது குறித்தும் அறிந்துகொள்ள உதவும்.
C04	நீர் மற்றும் ஒலி மாசுபாட்டினை அறிந்துகொள்ள உதவும்.
C05	பாதுகாப்புச் சட்டங்கள் குறித்து அறிந்துகொள்ள உதவும்

SEMESTER:II

Course Name : நன்னூல் - எழுத்ததிசாரம்

Course Code : 19UAUCT201

C01	பாயிரம் பற்றி அறிய உதவும்.
C02	எழுத்துக்களையும் அதன் வகைகளையும் அறிந்துகொள்ள முடியும்.
C03	எழுத்துக்கள் தனித்தும் சேர்ந்தும் வந்து பொருள்தருவது குறித்து அறிய உதவும்.
C04	உயிரீற்றுப் புணர்ச்சியை அறிய உதவும்.
C05	மெய்யீற்றுப் புணர்ச்சியையும், சொல்லின் உருபு புணர்ச்சிகளையும் அறிந்துகொள்ள உதவு

Course Name : கணிப்பொறியும் இணையமும்

Course Code : 19UAUCT202

C01	கணிப்பொறியின் அடிப்படைத் தகவல்களை அறிந்துகொள்ள உதவும்.
C02	கணிப்பொறி இயங்கும் முறையைத் தெரிந்துகொள்ள உதவும்.
C03	கணினியில் மொழிப்பயன்பாட்டினை அறிந்துகொள்ள உதவும்.
C04	இணையத்தின் இன்றியமையாமையை அறிந்துகொள்ள உதவும்.
C05	மின்னஞ்சல் மற்றும் வலைதளத்தில் பதிவிடுதலை மேம்படுத்த

Course Name : தமிழ் இலக்கிய வரலாறு – II

Course Code : 19UAUCT203

C01	கணிப்பொறியின் அடிப்படைத் தகவல்களை அறிந்துகொள்ள உதவும்.
C02	கணிப்பொறி இயங்கும் முறையைத் தெரிந்துகொள்ள உதவும்.
C03	கணினியில் மொழிப்பயன்பாட்டினை அறிந்துகொள்ள உதவும்.
C04	இணையத்தின் இன்றியமையாமையை அறிந்துகொள்ள உதவும்.
C05	மின்னஞ்சல் மற்றும் வலைதளத்தில் பதிவிடுதலை மேம்படுத்த

Course Name : மனித உரிமைகள்

Course Code : 17VE01

CO1	மனித உரிமைகள், வளர்ச்சிக் களங்களை அறிய உதவும்.
CO2	அரசியல் சட்டத்தின் மூலம் அடிப்படை உரிமைகளை அறிந்துகொள்ள உதவும்.
CO3	தேசிய மனித உரிமை ஆணையத்தின் அமைப்புச் செயல்பாடுகளை அறிய உதவும்.
CO4	மனித உரிமைகளின் சாசனங்களை அறிந்துகொள்ள உதவும்.
CO5	உலக மனித உரிமைகளை அறிய உதவும்.

SEMESTER:III

Course Name : CORE V - காப்பியங்கள்

Course Code : 19UAUCT301

CO1	காப்பியங்களின் கொள்கைகளை அறிந்து கொள்ள உதவும்.
CO2	வாழ்வியல் நெறிகளை அறிந்துகொள்ள உதவும்.
CO3	ஐஞ்சிறுங்காப்பியங்களின் இலக்கணம் மற்றும் கருத்தாக்கத்தினை அறிய உதவும்.
CO4	ஒழுக்க நெறிகளை அறிய உதவும்.
CO5	பக்திச் சிறப்பை அறிந்துகொள்ள முடியும்.

Course Name : CORE VI - நன்னூல் - சொல்லதிகாரம்

Course Code : 19UAUCT302

CO1	பெயர்ச் சொற்களின் இலக்கணத்தை அறிய உதவும்.
CO2	வினைச் சொற்களின் வகைகளோடு காலமுறை வேறுபாட்டையும் அறிய உதவும்.
CO3	இடைச்சொற்களின் பயன்பாட்டுத் தன்மையை அறிய உதவும்.
CO4	உரிச்சொல் மற்றும் அதன் வகைப்பாட்டுத்தன்மையை அறிய உதவும்.
CO5	சொற்களின் இலக்கண அமைதியை அறிய உதவும்.

Course Name : ALLIED III - தமிழக வரலாறும் பண்பாடும் - I

Course Code : 19UAUAT303

CO1	தமிழகத்தின் வரலாற்றையும் அமைப்பையும் அறிய உதவும்.
CO2	சிந்து சமவெளி நாகரிகத்தையும் தமிழர்களின் பழமையையும் அறிந்து கொள்ள உதவும்.
CO3	அறநெறிகளை அறிந்து கொள்ள உதவும்.
CO4	களப்பிரர் மற்றும் பல்லவர் கால ஆட்சிச் சிறப்பை அறிய உதவும்.
CO5	சமயங்கள் தமிழுக்கு ஆற்றிய தொண்டினை அறிய உதவும்.

Course Name : Skill Based Subject – I தமிழ் பயிற்று முறை
Course Code : 19UAUST304

CO1	இலக்கிய உருவாக்கத்தையும், வடிவத்தையும் அறிந்துகொள்ள உதவும்.
CO2	படைப்பாற்றலை வளர்த்துக்கொள்ள முடியும்.
CO3	வாசிக்கும் திறனை வளர்த்துக்கொள்ள உதவும்.
CO4	இலக்கண அமைதியோடு இலக்கியத்தைக் கற்க உதவும்.
CO5	படைப்பாற்றலை வளர்த்துக்கொள்ள உதவும்.

Course Name : Non Major Elective – I தமிழர் ஆடைகள்
Course Code : 19UAUNT305

CO1	இலக்கிய உருவாக்கத்தையும், வடிவத்தையும் அறிந்துகொள்ள உதவும்.
CO2	படைப்பாற்றலை வளர்த்துக்கொள்ள முடியும்.
CO3	வாசிக்கும் திறனை வளர்த்துக்கொள்ள உதவும்.
CO4	இலக்கண அமைதியோடு இலக்கியத்தைக் கற்க உதவும்.
CO5	படைப்பாற்றலை வளர்த்துக்கொள்ள உதவும்.

SEMESTER:IV

Course Name : Core VII – அற இலக்கியங்கள்
Course Code : 19UAUCT401

CO1	முன்னோர்களின் நெறிகளைப் பின்பற்றி நடக்க உதவும்.
CO2	வாழ்வில் பின்பற்ற வேண்டிய ஒழுக்கங்களை உணர்த்த உதவும்.
CO3	அற வாழ்வின் இன்றியமையாமையை அறிந்து அதன் வழி நடக்கப் பயன்படும்.
CO4	அறநெறி தவறுதலால் விளையும் தீமைகளை அறிய உதவும்.
CO5	அற வழியின் முக்கியத்துவத்தை அறிய உதவும்.

Course Name : Core VIII யாப்பருங்கலக்காரிகை (ஒழிபியல் நீங்கலாக) தண்டியலங்காரம்
Course Code : 19UAUCT402

CO1	அசைக்கு உறுப்பாகும் எழுத்துக்களையும் வகைப்பாட்டினையும் அறிய முடியும்.
CO2	பாவகைகளை அறிந்து பா புனையும் திறன் பெறுதல்.
CO3	சீர் பிரித்து எழுதும் திறனை அறிய உதவும்.
CO4	அணி இலக்கணத்தை அறிந்து கொள்ள உதவும்.
CO5	அணிநயங்களை அறிந்து கொள்ள உதவும்.

Course Name : ALLIED IV தமிழக வரலாறும் பண்பாடும் - II
Course Code : 19UAUCT403

CO1	சோழப் பேரரசின் வரலாற்றை அறிய உதவும்.
CO2	சோழர்கால சமுதாயத்தை அறிய உதவும்.
CO3	பாண்டியர் ஆட்சிமுறையின் மாண்பை அறிய உதவும்.
CO4	சிற்றிலக்கியம் குறித்த செய்திகளை அறிய உதவும்.
CO5	ஐரோப்பியர் கால இலக்கிய வரலாற்றினை அறிய உதவும்.

Course Name : Skill Based Subject – II படைப்பிலக்கியமும் மொழிபெயர்ப்பும்
Course Code : 19UAUST404

CO1	கவிதை எழுதும் ஆற்றலை வளர்க்க உதவும்.
CO2	ஹைக்கூ கவிதை எழுதும் திறன் பெற உதவும்.
CO3	சிறுகதை எழுதும் ஆற்றலைப் பெற உதவும்.
CO4	நாடகம் எழுதும் ஆற்றலைப் பெற உதவும்.
CO5	மொழிபெயர்க்கும் திறன் பெற உதவும்.

Course Name : Non – Major Elective – II காப்பிங்கள் உணர்த்தும் அறம் (இரட்டைக் காப்பியங்கள்)
Course Code : 19UAUNT405

CO1	தனிமனித ஒழுக்க நெறியினை அறிய உதவும்.
CO2	குடும்ப உறவுகளின் அவசியத்தை அறிய உதவும்.
CO3	சமூக வழக்காறுகளை அறிய உதவும்.
CO4	நீதி வழுவாத அரசியல் கருத்துக்களை அறிய உதவும்.
CO5	காப்பிய காலச் சூழலில் நிகழ்ந்த வாணிப முறையை அறிய உதவும்

Course Name : Advanced Learners Course - கவிதை
Course Code : 19UAUAL406

CO1	கவிதையின் மெய்ம்மையை அறிதல்
CO2	உவமை, உருவகங்களைப் புரிந்துகொண்டு கவிதை எழுதுதல்
CO3	கவிதைக்கான பல்வேறு தளங்களைப் பயன்படுத்திக் கவிதைப் பிறப்பினை மேம்படுத்துதல்
CO4	கவிதையின் சொல்லையும் பொருளையும் பகுத்தாய்தல்
CO5	கவிதை வாயிலாக கவிதை இலக்கியத்தினை மதிப்பிடல்

Course Name : Advanced Learners Course - சிறுகதை

Course Code : 19UAUAL407

C01	சிறுகதையின் உத்திகளை அறிதல்.
C02	சிறுகதை ஆசிரியர்களின் நடைப்பாங்கினைப் புரிதல்.
C03	சிறுகதை படைக்கும் திறனைப்பெற்றுப் பயனடைதல்.
C04	சிறுகதையின் கதாபாத்திரங்களைப் பகுத்தாராய்தல்.
C05	சிறுகதையின் வகைகளை மதிப்பிடல்

SEMESTER:V

Course Name : Core IX – சங்க இலக்கியம் - அகம் மற்றும் புறம்

Course Code : 19UAUCT501

C01	சங்க நூல்களின் பாடுபொருள் குறித்து அறிதல்
C02	சங்க நூல்களின் வகைப்பாடுகள் மூலம் அக்காலச் சமூகத்தின் ஒழுக்கலாறுகளைப் புரிந்துகொள்ளல்
C03	சங்ககால மக்களின் வாழ்வியல் சிந்தனைகளின் பயன்பாட்டை அறிதல்
C04	சங்ககால மக்களின் வீரத்தையும் நாட்டுப்பற்றையும் பகுத்துணர்தல்
C05	சங்ககால நாகரீகத்தையும் பண்பாட்டையும் அறிந்து வாழ்வில் பின்பற்றல்

Course Name : Core X – நம்பியகப்பொருள்

Course Code : 19UAUCT502

C01	அகப்பொருள் மரபுகளை அறிதல்
C02	களவு - கற்பு இலக்கண மரபுகளைப் புரிந்துகொள்ளல்
C03	பண்டைத்தமிழரின் வாழ்வியல் நெறிகளை இன்றைய வாழ்வியலோடு கடைப்பிடித்தல்
C04	ஐந்திணைகளுக்குரிய முதல், கரு, உரிப்பொருள்களைப் பகுத்து அறிதல்
C05	களவு, கற்பு - இலக்கண மரபில் வாயில்களின் பங்கை உணர்தல்

Course Name : Core XI – புறப்பொருள் வெண்பாமாலை

Course Code : 19UAUCT503

C01	புறப்பொருள் இலக்கணத்தை வெண்பா யாப்பினால் அறிதல்
C02	போர் அறம் குறித்த சிந்தனைகளைப் புரிதல்
C03	போர் மேற்கொள்ளும் இடம், பொருள், காலத்திற்கேற்ப திணை, துறைகளை வகைப்படுத்துதல்
C04	சங்ககாலப் போர்த்திறம் மற்றும் வெற்றிக்கான வியூகங்களின் பயன்பாடு குறித்து அறிதல்
C05	வெற்றி பெற்ற ஆண் மகனது சிறப்புகளைப் பகுத்தல்

Course Name : Core - XII நாட்டுப்புறவியல்

Course Code : 19UAUCT504

CO1	நாட்டார் வழக்காற்றினை அறிதல்
CO2	நாட்டுப்புறக் கலை வடிவத்தை வகைப்படுத்துதல்
CO3	வாய்மொழி இலக்கியத்தின் மேன்மையினை உணர்தல்
CO4	கிராம மக்களின் வாழ்வியல் நம்பிக்கைகளைப் புரிந்துகொள்ளல்
CO5	நாட்டுப்புறவியலை பிற துறைகளோடு ஒப்பிட்டுக் கற்கும் ஆற்றலைப் பெறுதல்

Course Name : Elective I A இதழியல்

Course Code : 19UAUET505

CO1	இதழ்களின் வளர்ச்சி குறித்து அறிதல்
CO2	மாணவர்கள் சிறந்த செய்தியாளர்களாக வருவதற்கான வழிவகைகளை அறிந்து பயன்பெறல்
CO3	மாணவர்கள் பல்வேறு படைப்புகளைப் பகுத்து வெளியிடுதல்
CO4	ஊடகங்களில் வேலைவாய்ப்புப் பெறுதல்
CO5	இதழ்களின் கட்டமைப்பைப் புரிந்துகொள்ளல்

Course Name : Elective I B கோயிற்கலை

Course Code : 19UAUET506

CO1	கலைகளின் தோற்றம் வளர்ச்சி குறித்த அறிதல்
CO2	தமிழ்நாட்டுக் கோயில்களின் அமைப்பு இலக்கணத்தைப் புரிந்து கொள்ளல்
CO3	மன்னர் கால கோயில் வரலாற்றினை அறிதல்
CO4	கோயில் சிற்பங்களின் அமைப்பை அறிதல்
CO5	ஓவியக் கலையின் நுணுக்கத்தைப் பகுத்தறிதல்

Course Name : Elective I C கல்வெட்டியல்

Course Code : 19UAUET507

CO1	கல்வெட்டுகள் வாயிலாகத் தமிழகத்தின் பழமையைச் சான்றுடன் அறிதல்
CO2	தமிழர்களின் வாழ்வியல் செய்திகளை உணர்தல்.
CO3	தமிழரின் பழங்கால எழுத்து முறைகளை அறிந்து கொள்ளுதல்
CO4	பல்லவர் காலக் கல்வெட்டுகளை அறிதல்
CO5	சோழர் காலக் கல்வெட்டுகளை அறிந்துகொள்ளுதல்

Course Name : Skill Based Subject – III - நூலகப் பயன்பாடு

Course Code : 19UAUST508

CO1	நூலகம் குறித்த வரலாற்றினை அறிதல்
CO2	நூலைப் பாதுகாத்தலின் அவசியத்தைப் புரிதல்
CO3	மின்னு நூலகப் பயன்பாடு குறித்து அறிதல்
CO4	இதழ்களின் வகைப்பாட்டை பகுத்தல்
CO5	நூலைத் திறனாய்வு செய்யும் சிந்தனையைப் பெறுதல்

Course Name : Advanced Learners Course - புதினம்
Course Code : 19UAUAL509

CO1	புதின வரலாற்றினை அறிதல்
CO2	புதினம் வாழ்வியலோடு தொடர்புடையது என்பதை உணர்தல்
CO3	புதினம் படைக்கும் ஆற்றலைப் பெறுதல்
CO4	புதின வகைப்பாடுகளைப் பகுத்தறிதல்
CO5	புதினத்தை மதிப்பீடு செய்யும் திறன் பெறுதல்

Course Name : Advanced Learners Course - நாடகம்
Course Code : 19UAUAL510

CO1	நாடகம் பற்றிய முன்னறிவினைப் பெறுதல்
CO2	பண்டைய நாடக அரங்க அமைப்பினை அறிதல்
CO3	நாடக வகைகளைப் பகுத்தாராய்தல்
CO4	நாடகக் கலைஞர்களின் திறனை உணர்தல்
CO5	பிசிராந்தையார் நாடகத்தின் வாயிலாக நட்பின் தன்மையை மதிப்பிடல்

SEMESTER:VI

Course Name : Core - XIII இலக்கியத் திறனாய்வு
Course Code : 19UAUCT601

CO1	திறனாய்வாளருக்குரிய தகுதி குறித்தும், திறனாய்வு குறித்தும் அறிதல்
CO2	கவிதையின் வடிவமைப்பு மற்றும் வகைகளைப் புரிந்து பயிற்சி பெறுதல்
CO3	புதினம் மற்றும் சிறுகதையின் வரலாறுகளைக் கற்று பயனடைதல்
CO4	நாடகக்கூறுகளைப் பகுத்தல்
CO5	திறனாய்விற்கான அணுகுமுறைகளை அறிந்து படைப்பிலக்கியங்களை மதிப்பிடுதல்

Course Name : Core - XIV பொது மொழியியல்
Course Code : 19UAUCT602

CO1	மொழியின் ஒலிப்பு மற்றும் ஒலியுறுப்புகள் குறித்து அறிதல்
CO2	உருபங்கள் மூலம் சொற்கட்டமைப்பைப் புரிதல்
CO3	வினைச்சொற்களை இடம் அறிந்து பயன்படுத்தல்
CO4	மாற்றிலக்கணக் கோட்பாட்டைப் பகுத்து அறிதல்
CO5	தாய்மொழியின் சிறப்புகளைப் பிற மொழிகளோடு ஒப்பிட்டு மதிப்பிடல்

Course Name : Core – XV ஆய்வியல்

Course Code : 19UAUCT603

CO1	தமிழ் இலக்கிய நூல்களைத் திறனாய்வு செய்யும் முறையினை அறிதல்
CO2	ஆய்வியல் அணுகுமுறைகளை உணர்ந்துகொள்ளுதல்
CO3	ஆய்வுச் சிந்தனைகளைப் பயன்படுத்தி ஆய்வேட்டினை வடிவமைக்கும் திறன் பெறுதல்
CO4	ஆய்வு நுட்ப வகைகளைப் பகுத்தாய்தல்
CO5	ஆய்வுக்களங்களைத் தெரிவு செய்யும் ஆற்றல் பெறுதல்

Course Name : Elective II A கொங்கு நாட்டு வரலாறு

Course Code : 19UAUET604

CO1	கொங்குநாட்டின் வரலாற்றினை அறிதல்
CO2	மன்னர்களின் ஆட்சித் திறத்தைப் புரிந்துகொள்ளல்
CO3	சோழர்கள் மற்றும் கொங்குச் சோழர்களின் ஆட்சிச் சிறப்பைப் பகுத்துணர்தல்
CO4	கொங்குநாட்டுக் கோயில்களின் வகைப்பாட்டைப் பகுத்தறிதல்
CO5	கொங்குநாட்டுப் புலவர்களின் படைப்பிலக்கியங்களை மதிப்பிடுதல்

Course Name : Elective II B மைய அரசுப் பணித்தேர்வு

Course Code : 19UAUET605

CO1	மைய அரசுப் பணித்தேர்வை எதிர்கொள்ளும் திறன் பெறுதல்
CO2	மொழிகளின் வகைகளையும், மொழிக்கலப்பின் இயல்புகளையும் அறிதல்
CO3	இந்திய மொழிக்குடும்பங்களின் வரலாற்றை அறிதல்
CO4	தமிழ் இலக்கிய வரலாற்றை அறிதல்
CO5	பக்தி இலக்கியம் மற்றும் சிற்றிலக்கியங்களின் கருத்தாக்கத்தை அறிதல்

Course Name : Elective II C திரைப்படக்கலை

Course Code : 19UAUET606

CO1	ஊடகங்களில் ஒன்றான திரைப்படத்தின் வரலாற்றை அறிதல்
CO2	உலகத் திரைப்பட வரலாற்றை அறிந்துகொள்ளுதல்
CO3	ஆவணப்படங்களையும் குறும்படங்களையும் எடுக்கும் திறன் பெறுதல்
CO4	திரைப்படங்கள், ஆவணப்படங்கள், குறும்படங்கள் குறித்து அறிவு பெறுதல்
CO5	இன்றைய திரைப்படத்தின் போக்கை அறிந்துகொள்ளுதல்

Course Name : Elective III A திரைப்படக்கலை

Course Code : 19UAUET607

CO1	மொழிபெயர்ப்பின் வரலாற்றினை அறிதல்
CO2	மொழிபெயர்ப்பு நெறிகளைப் புரிந்துகொள்ளல்
CO3	மொழிபெயர்ப்பில் கலைச் சொல்லாக்கத்தைப் பயன்படுத்துதல்
CO4	மொழிபெயர்ப்பு சிக்கல்களைப் பகுத்தறிதல்
CO5	மொழிபெயர்ப்புக் காரணிகளை மதிப்பிடுதல்

Course Name : Elective III B விளம்பரக்கலை
Course Code : 19UAUET608

CO1	விளம்பரம் எழுதும் திறன் பெறுதல்
CO2	விளம்பரத்துறையில் உள்ள வேலைவாய்ப்பினை அறிதல்
CO3	விளம்பரச் சட்ட நுணுக்கங்களைப் புரிதல்
CO4	விளம்பர வகைகளை பகுத்தறிதல்
CO5	விளம்பரம் தயாரிக்கும் பயிற்சி பெறுதல்

Course Name : Elective III C பயணவியல்
Course Code : 19UAUET609

CO1	சுற்றுலா குறித்த அடிப்படைச்செய்திகளை அறிதல்
CO2	சுற்றுலா வாயிலாகப் பல்வேறு மக்களின் பண்பாட்டை உணர்தல்
CO3	சுற்றுலாத் தலங்களைப் பாதுகாக்கும் உணர்வு பெறுதல்
CO4	பண்டைத் தமிழகத்தின் பண்பாட்டுச் சுற்றுலாவை அறிதல்
CO5	இலக்கியங்களில் காணப்படும் சுற்றுலாச் செய்திகளை மாணவர்களுக்குத் தெரிவித்தல்

Course Name : Skill Based Subject – IV - மேடைப் பேச்சுக்கலை
Course Code : 19UAUST610

CO1	மேடைப் பேச்சு குறித்த வரலாற்றை அறிதல்
CO2	மொழியைக் கையாளும் திறனைப் புரிந்துகொள்ளல்
CO3	பேச்சுக்கலைப் பயிற்சிகள் மூலம் பேச்சாற்றலை வெளிப்படுத்தும் திறன் பெறுதல்
CO4	பேச்சாளருக்குரிய நெறிமுறைகளைப் பகுத்தறிதல்
CO5	சொற்பொழிவாற்றும் முறையினை அறிதல்

SEMESTER:I

Course Name : Hindi, Paper I
Course Code: 17H01

CO1	Possess sound knowledge in life ethics
CO2	Acquire knowledge about different literature and their environment
CO3	Develop basic knowledge in communication skill
CO4	Assess the technical terms
CO5	Able to do small translations

Course Name: Sanskrit, Paper I

Course Code: 17S01

CO1	Gain knowledge about Sanskrit Writers in Kavya stream
CO2	Able to understand Mythological literature
CO3	Acquisition of socio, ethical, cultural values
CO4	Acquire knowledge in Sanskrit kavyas
CO5	Possess basic knowledge in Sanskrit grammar

Course Name: French, Paper I

Course Code: 17F01

CO1	Able to develop basic vocabulary
CO2	Acquire basic knowledge in grammar
CO3	Learn numbers in French
CO4	Develop basic knowledge in grammar
CO5	Acquire conversation skill

Course Name: French(CSHM), Paper I

Course Code: 17CSF01

CO1	Ability to greet and introduce oneself
CO2	Acquire Knowledge to construct the dialogue
CO3	Able to use conditional tense of can and want
CO4	Learn Numbers in French and conjugation of verbs
CO5	Learn interrogative adjective and construct the expressions

SEMESTER:I

Course Name: Malayalam, Paper I

Course Code: 17M01

CO1	Enrich knowledge in different form of Malayalam literature
CO2	Develop critical thinking with social ethics
CO3	Learn about short stories of Malayalam literature
CO4	Acquire life lessons through short stories
CO5	Acquisition of skill in creative writing

SEMESTER:II**Course Name: Hindi, Paper II****Course Code: 17H02**

CO1	Develop critical thinking through poetry and also about nature
CO2	Acquire life skills and Social ethics through Drama
CO3	Enhance the communication skill in Hindi
CO4	Able to write official letters in Hindi
CO5	Acquire practical knowledge of translation skill

Course Name: Sanskrit, Paper II**Course Code: 17S02**

CO1	Possess sound knowledge of Sanskrit prose with social concepts
CO2	Gain knowledge about Sanskrit story literature
CO3	Acquisition of life skills and values
CO4	Ability to develop critical thinking
CO5	Develop skill in translation

Course Name: French, Paper II**Course Code: 17F02**

CO1	Gain knowledge in day to day life conversation
CO2	Develop knowledge related to travel
CO3	Able to write message and letters in French
CO4	Acquire skill in creative writing
CO5	Possess sound knowledge in understanding the language

Course Name: French(CSHM), Paper II**Course Code: 17CSF02**

CO1	Acquire Knowledge about cultural information
CO2	Learn to order, describe and suggest about dishes
CO3	Ability to understand the future tense and climate
CO4	Develop knowledge in describing about wines
CO5	Learn about the restaurant activities, payments and rules

Course Name: Malayalam, Paper II

Course Code: 17M02

CO1	Possess knowledge in new aspects of literature
CO2	Obtain socio- economic patterns of life through biography
CO3	Gain knowledge about memoirs
CO4	Develop creative thinking skill
CO5	Acquire Translation skill

SEMESTER:III

Course Name: Hindi, Paper III

Course Code: 17H03

CO1	Obtain a general knowledge of the different trends of History of Hindi Literature
CO2	Possess a sound knowledge of the values of Hindi Language and cultural ethics
CO3	Able to understand the beauty and importance of Kavya Sastra
CO4	Able to use appropriate grammar forms in communication
CO5	Able to write expository essays in Hindi on various topics

Course Name: Sanskrit, Paper III

Course Code: 17S03

CO1	Gain introductory knowledge about the main concepts of Sanskrit Literature
CO2	Gain basic knowledge about the important Sanskrit authors
CO3	Acquire knowledge about ancient Sanskrit Language
CO4	Acquire knowledge about ancient Indian kingdoms
CO5	Gain a better understanding of Sanskrit grammar

Course Name : French, Paper III

Course Code: 17F03

CO1	Possess a sound knowledge of some of the tenses
CO2	Able to comprehend various texts like poem, letter, songs etc
CO3	Able to describe a person/thing and give a synopsis of a movie they have seen.
CO4	Demonstrate a clear understanding of the cultural aspects of France
CO5	Able to express their point of view and justify it

Course Name : Malayalam, Paper III

Course Code: 17M03

CO1	Possess a sound knowledge about the classical poets of Malayalam Language
CO2	Able to develop creative skills
CO3	Acquire basic knowledge about Khandakavyas
CO4	Develop a habit of rational thinking
CO5	Develop a habit of general writing

SEMESTER:IV

Course Name: Hindi, Paper IV

Course Code: 17H04

CO1	Acquire a knowledge of Novel Literature in Hindi
CO2	Understand the human values inherent in Hindi Novels
CO3	Learn to write official letters
CO4	Acquire the knowledge to enrich their Communication skills in the language
CO5	Acquire the knowledge needed to meet the requirements in media

Course Name: Sanskrit, Paper IV

Course Code: 17S04

CO1	Develop their familiarity with Sanskrit language and literature
CO2	Acquire knowledge about the great Sanskrit poets
CO3	Build upon their previous knowledge of the culture of ancient India.
CO4	Aware of the values of humanity needed for the society
CO5	Gain better understanding in grammar

Course Name: French, Paper IV

Course Code: 17F04

CO1	Acquire knowledge of French grammar – Degrees of Comparison
CO2	Able to give the nominal and adverbial forms
CO3	Able to share their point of view on various topics with justification
CO4	Able to express their emotions using various French expressions.
CO5	Ability to write a short narrative text using articulators

Course Name: Malayalam, Paper IV
Course Code: 17M04

CO1	Acquire knowledge on new aspects of Modern Literature
CO2	Gain knowledge about Drama Literature
CO3	Acquire sound knowledge of screenplay
CO4	Able to write a screenplay
CO5	Develop the creative skill required for media

Programme Title: B. A. English Literature

Programme Outcomes: At the end of the programme, the students will be able to

PO Number	PO Statement
PO1	Critical Thinking: Take informed actions after identifying the assumptions that frame thinking and actions, checking out the degree to which these assumptions are accurate and valid and looking at ideas and decisions (intellectual, organizational and personal) from different perspectives.
PO2	Effective Communication: Speak, read, write and listen clearly in person and through electronic media in English and in one Indian language and make meaning of the world by connecting people, ideas, books, media and technology.
PO3	Social Interaction: Elicit view of others, mediate disagreements and help reach conclusions in group settings.
PO4	Effective Citizenship: Demonstrate empathetic social concern and equity centered national development, and the ability to act with an informed awareness of issues and participate in civic life through volunteering.
PO5	Ethics: Recognize different value systems including your own, understand the moral dimensions of your decisions and accept responsibility for them.
PO6	Environment and Sustainability: Understand the issues of environmental contexts and sustainable development.
PO7	Self-directed and Life-long Learning: Acquire the ability to strengthen independent and life-long learning in the broadest context socio-technological changes.

Programme Specific Outcomes:

At the end of the programme, students will be equipped with the Knowledge in:

PSO Number	PSO Statement
PSO1	The students will equip themselves with the basic knowledge and skill related to English literature and language.
PSO2	The students will gain the confidence and the skill to teach, to face academic, Career oriented challenges with the acquired language skills.
PSO3	The students can develop the soft skill which will enable them to undertake suitable jobs.

SEMESTER: I

Course Name: Core 1: Prose I

Course Code: 17UAACT101

CO1	To know the significance of proper use of vocabulary in everyday life thereby getting spearheaded for soft skill development
CO2	To comprehend the values of life
CO3	To understand the simple and easy way of expressing great ideas
CO4	To imbibe in their minds, the activities of the societal influences on common people so that they can start preparing themselves mentally to keep pace with the happenings in the society
CO5	To get a realisation of the different connotations that the things and actions associated with it, reflect in real life

Course Name: Core 2 – Fiction I

Course Code: 17UAACT102

CO1	Learn to use the clever note of expression and adopt to humourous way of expressing their ideas'
CO2	Get a clear idea of the significance of cultivating an aesthetic sense
CO3	Understand how to narrate an important incident in a comprehensible and interesting way
CO4	Learn to use the language through variety of styles
CO5	Realise the depth of human expression in literature

Course Name: Allied I: Social History of England

Course Code: 17UAAAT103

CO1	Understand the two important factors that affect people of any country
CO2	Get a clear understanding of the specific happenings which had played an important part in the creation of social history
CO3	Comprehend the reasons behind the wars and the after effect of them in the formation of history
CO4	Understand the cause and effect of Revolutions which caused an important change in the history of language
CO5	Learn about the Reformations that happened in various strata of the society

Course Name: Foundation Course I: Environmental Studies

Course Code: 17ES01

CO1	Creating the awareness about environmental ecosystem among people.
CO2	Acquire knowledge about to the striving to attain harmony with nature.
CO3	Gain to knowledge students with biodiversity and conservation.
CO4	Learn to the attention of the students about to imparting basic knowledge about the environment and its allied problems.
CO5	Develop their knowledge to motivating public to participate in environment protection and environment improvement

SEMESTER: II

Course Name: Core 3 – Poetry I

Course Code: 17UAACT201

CO1	get an idea of how great poets employ the diction in simple style to disseminate qualitative concepts
CO2	understand that beauty and happiness lies also in artistic creations and adventures
CO3	get a clear idea of the poets' intention of revealing the philosophy of life behind the words
CO4	comprehend the values of nature through literature
CO5	get the confidence in acquiring the essential knowledge about the invaluable gift Nature through any literary genre

Course Name: Core 4 – Drama I

Course Code: 17UAACT202

CO1	get an awareness about the effect of evil qualities through this interesting genre
CO2	understand how morality plays an important role in everyone's life
CO3	comprehend the subversion of national identity of people by colonialism
CO4	realise the sufferings of poor village people across the world
CO5	come to understand the value of mother's love

Course Name: Allied Paper II – History of English Literature

Course Code: 17UAAAT203

CO1	get knowledge about the status of literary proceedings during the period of pioneers among English writers
CO2	understand the happenings in the society through great writers
CO3	get an idea about the various genres in English literature which explicate the genius of different writers
CO4	understand which genre prevailed at the top as per the skill of the writers and according to the taste of the people
CO5	get an idea about the changes that occurred in English writings during modern era

Course Name: Foundation Course II: Value Education

Course Code: 17VE01

CO1	Inculcate human values.
CO2	Realize the importance of soft skills.
CO3	Understand the family morals.
CO4	Realize the role of youth in society.
CO5	Know the social values.

SEMESTER: III**Course Name: Core 5 – Prose II****Course Code: 17UAACT301**

CO1	get imbibed with the Ethical Values and also develop Social Responsibility
CO2	get the knowledge to interact with the people in the Society
CO3	be facilitated with Self-directed and Lifelong Learning
CO4	be induced to think Critically
CO5	comprehend the Value of Nature and Human Life

Course Name: Core 6 - Fiction II**Course Code: 17UAACT302**

CO1	identify the distinct Literary genre of Fiction
CO2	learn to critically appreciate a Novel from various perspectives
CO3	gain an insight for Self direct and Lifelong Learning
CO4	gain the knowledge on the Ethics of Life
CO5	emerge as Responsible Citizens

Course Name: Allied Paper III – Literary Forms**Course Code: 17UAAAT303**

CO1	equipped with the knowledge of the basics of Poetry and the Poetical Types
CO2	exposed to the Poets of various periods
CO3	understand the significance of the Dramatic Art
CO4	gain knowledge to critically employ the Devices while writing Plays or Essays
CO5	understand the values of life and learn how to achieve greatness to become Social Responsible

Course Name: Skill based Course I – Conversational English I**Course Code: 17UAAST304**

CO1	gain Situational Competency
CO2	be enabled to think Critically
CO3	enrich their Communication Skills
CO4	enhance the effectiveness of their Communication
CO5	be equipped with the knowledge of Self-directed Learning

Course Name: Non Major Elective - I -Soft Skills I**Course Code: 17UAANT305**

CO1	adapt themselves with the Society
CO2	become Dynamic Citizens
CO3	implement Critical Thinking
CO4	emerge as Effective Citizens
CO5	enhance their interaction with the Society

SEMESTER: IV**Course Name: Core 7- Poetry II****Course Code: 17UAACT401**

CO1	understand the Basic Terminology of Poetry
CO2	comprehend the Techniques underlying the traditional forms of poetry
CO3	gain knowledge of various poets who interact with the society through their writings
CO4	get a glimpse of Multiple Themes related to Contemporary Poets in Society
CO5	figure out and indentify Distinct Literary Characteristics of Poetic Forms

Course Name: Core 8 – Drama II**Course Code: 17UAACT402**

CO1	understand the principles of the playwright’s craft in constructing the plays and also various technical elements of the Drama
CO2	develop Self Interest and get directed to Lifelong Learning
CO3	extend their levels of concentration and Creativity by imagining varied Dramatic situations
CO4	examine the plays by discovering the specific characteristic features of the plot and character
CO5	be exposed to Critical Thinking

Course Name: Allied Paper IV: Literary Criticism**Course Code: 17UAAAT403**

CO1	gain thorough knowledge about Criticism
CO2	be equipped to think critically about various forms of writings through the notion of great poets, dramatists and critics
CO3	start realizing the values of Nature and the coinage of simple words to interact with the society effectively
CO4	learn to elicit the Ethical Values from a piece of writing
CO5	comprehend to associate Ethical Values through Literary works

Course Name: Skill based Course 2 – Conversational English II**Course Code: 17UAAST404**

CO1	gain situational competency
CO2	be enabled to think critically
CO3	enrich their communication skills
CO4	enhance the effectiveness of their communication
CO5	be equipped with the knowledge of self direction

Course Name: Non Major Elective - II – Soft Skills II**Course Code: 17UAANT405**

CO1	emerge as Effective Communicators
CO2	enhance their notions with positive thoughts
CO3	uplift themselves as Effective Citizens
CO4	acquire the skill of Self-directedness
CO5	motivate themselves for Lifelong Learning

Course Name: ALC – Recent Literature I

Course Code: 17UAAAL406

CO1	confront difficulties boldly in the course of life
CO2	solve problems through critical thinking
CO3	understand the value of perseverance
CO4	get imbued with the social and human values
CO5	be directed to lifelong learning

Course Name: ALC – Recent Literature II

Course Code: 17UAAAL407

CO1	get the knowledge to preserve and sustain Natural Phenomenon
CO2	learn to think Critically
CO3	learn to promote Social and Ethical Values
CO4	imbibe good qualities to become an Effective Citizen
CO5	be directed towards Lifelong Learning

SEMESTER : V

Course Outcomes (CO): On completion of the course, students should be able to

Course Name: Core 9 - Shakespeare I

Course Code: 17UAACT501

CO1	evaluate the themes and motives of Shakespearean comedies
CO2	examine the characterization and pathos in Shakespearean Tragedies
CO3	perceive the psychological and cultural context of Shakespeare's time
CO4	interpret the historical framework of England during the Elizabethan age
CO5	critically analyze the diction and style of Shakespeare's writing

Course Name: Core 10 – Indian Writing in English

Course Code: 17UAACT502

CO1	gain an understanding of the Indianness in Indian Writing in English
CO2	analyze the strengths and constraints of Indian English as a literary genre
CO3	critically trace the unfolding of the Plot of the Indian Short Stories
CO4	interpret novels in Indian English in a skillful, knowledgeable and ethical manner
CO5	accentuate the expression of thoughts and views for critical appreciation

Course Name: Core 11 – English Phonetics

Course Code: 17UAACT503

CO1	acquire clear knowledge of basic sound systems
CO2	get an idea of the classification of sounds and sound patterns
CO3	gain knowledge about the components of sound system
CO4	get exposed to the concepts connected with Indian English Pronunciation
CO5	obtain confidence to use the language correctly through practice

Course Name: Core 12 – Mass Communication and Journalism

Course Code: 17UAACT504

CO1	understand the basics of press and journalism
CO2	get imbibed with the roles and responsibility of an editor and reporter
CO3	get to know the usage of the Information Technology in press
CO4	comprehend the page design and editing
CO5	identify the functions of media

Course Name: Elective - I: A – Studying Novels

Course Code: 17UAAET505

CO1	learn novel as a separate literary genre
CO2	comprehend and appreciate the effectiveness of characterization in the novels
CO3	obtain the knowledge about other elements of novel
CO4	comprehend the narrative style and ideas about novels
CO5	get the interest to write their own novels

Course Name: Elective - I: B – Creative Writing

Course Code: 17UAAET506

CO1	imbibe the skills of Creative Writing
CO2	think creatively
CO3	learn Creative Writing techniques
CO4	emerge as Creative Writers
CO5	gain confidence to become a freelancer

Course Name: Elective - I: C – Public Speaking

Course Code: 17UAAET507

CO1	understand the fundamentals of communication process and public speaking
CO2	choose the appropriate topic and analyze the audience for public speaking
CO3	create the speech writing with proper beginning and ending of the speech
CO4	select correct language and make the befitting deliverance
CO5	use the Information and Communication Technology (ICT) tools for the speech

Course Name: Skill based Subject 3: Multi Vocational English I

Course Code: 17UAAST508

CO1	identify, understand and manage emotions in an effective and positive way
CO2	interact with people through effective listening and communication
CO3	improvise their talents, potential for employability
CO4	communicate effectively avoiding the barriers of communication
CO5	acquire confidence to effectively present their notions formally

Course Name: ALC – Indian Classics

Course Code: 17UAAAL509

CO1	get imbibed with the knowledge of ancient epic
CO2	learns the various aspects of Classical characters
CO3	comprehend the narrative style and ideas about Indian Classics
CO4	accentuate the expression of thoughts and views for critical appreciation
CO5	Appreciates the richness of our Culture

Course Name: ALC – Autobiography

Course Code: 17UAAAL510

CO1	understand the richness of writing an Autobiography
CO2	enjoy the affluence attached in the life of Great Leaders
CO3	facilitate autobiography as a literary genre
CO4	to know about the historical and social background of that period
CO5	access the quality of Human Values and its importance in the society.

SEMESTER : VI

Course Name: Core 13 – Shakespeare II

Course Code: 17UAACT601

CO1	evaluate the themes and motives of Shakespearean comedies
CO2	examine the characterization and pathos in Shakespearean Tragedies
CO3	perceive the psychological and cultural context of Shakespeare’s time
CO4	interpret the historical framework of England during the Elizabethan age
CO5	critically analyze the diction and style of Shakespeare’s writing

Course Name: Core 14 – Intensive Study of an Author - Tagore

Course Code: 17UAACT602

CO1	examine the poetic language of Tagore.
CO2	understand Tagore’s fascination and absorption of heritage.
CO3	interpret the psychological, cultural and mystical style of Tagore.
CO4	perceive the discontentment and dilemmas in the Indian society.
CO5	critically analyze the philosophy, creativity and artistic style in the writings of Tagore

Course Name: Core 15 – American Literature

Course Code: 17UAACT603

CO1	gain the knowledge about various poets of American Literature through their poems
CO2	understand the social history and the values of morality of the United States
CO3	examine the American literary plays by analyzing the various themes
CO4	critically appreciate the American literary novels from various perspectives
CO5	comprehend the critical perspectives of American Literature

Course Name: Elective – II A Travel Literature

Course Code: 17UAAET604

CO1	understand the travel writing as a distinct literary genre
CO2	recognize the various styles, strategies and problems of representation in Travel Literature
CO3	learn the aspects of survival in travel
CO4	critically appreciate the cultural assumptions through writings about travel
CO5	develop the initiative of travelling to the national and international destination and generate creative works from that experience

Course Name: Elective – II B Communicative English

Course Code: 17UAAET605

CO1	understand the basics of communication
CO2	recognize the diverse aspects of communication
CO3	comprehend the skills and aids needed for communication
CO4	get an exposure to use the language for technical purpose
CO5	gain confidence to communicate effectively through writing mode

Course Name: Elective – II C The Techniques of Writing Composition

Course Code: 17UAAET606

CO1	learn the basics about sentence structure for clear expression
CO2	to learn the importance of punctuation to avoid errors in writing
CO3	understand syntax order
CO4	organize clearly the set of ideas in a logical, consistent pattern
CO5	understand the background information about events, settings, character or other elements while

Course Name: Elective – III – A – Introduction to Linguistics

Course Code: 17UAAET607

CO1	imbibe the history of linguistics
CO2	acquire the knowledge of theory of linguistics
CO3	gain an insight of generative grammar
CO4	learn the various branches of linguistics
CO5	know the different language forms

Course Name: Elective – III – B – English Language Teaching

Course Code: 17UAAET608

CO1	know the History of Language and the various Approaches of Teaching English
CO2	comprehend the different kinds of methods related to teaching
CO3	know the objectives and the language learning concepts and processes
CO4	develop tools and methods of evaluation used in the teaching process in terms of usefulness, validity and reliability
CO5	use the language learning strategies effectively

Course Name: Elective – III – C – English for Competitive Exams

Course Code: 17UAAET609

CO1	write with accuracy and can inspect errors in content
CO2	reframe a passage in a meaningful way
CO3	enhance their comprehensive skills and art of letter writing
CO4	improvise their language skills by learning correct spellings and techniques of writing report
CO5	incorporate idiomatic and formal expressions in their language

Course Name: Skill based Course – 4 – Multi Vocational English II

Course Code: 17UAAST610

CO1	strengthen their telephone skills by learning the Telephone etiquette and techniques
CO2	enhance their employability by learning and practicing the Interview techniques
CO3	acquire the effectiveness of Group Discussion by learning the essential skills
CO4	comprehend the various traits of a Leader and to build effective Leadership
CO5	cope up with stress and to neutralize the impact of stress on physical, emotional and mental

Programme Title: M.A. English Literature

Programme Outcomes: At the end of the programme, the students will be able to

PO Number	PO Statement
PO1	Critical Thinking: Apply the strategies and techniques in order to solve real world problems.
PO2	Effective Communication: Communicate the concepts in oral and written form.
PO3	Social Interaction: Identify the accurate solutions for the society-oriented problems using Domain knowledge.
PO4	Effective Citizenship: Attain the ability to identify, formulate and solve challenging problems the society and nation.
PO5	Knowledge Formulation: Demonstrate and apply various specialized areas of advanced topics its applications using modern tools.
PO6	Environment and Sustainability: Instill a sense of attitude in tackling social and environmental issues.
PO7	Self-directed and Life-long Learning: Identify their own educational and career needs from global challenges.

Programme Specific Outcomes: At the end of the programme, students will be equipped with the Knowledge in

PSO Number	PSO Statement
PSO1	The students will be equipped with the knowledge and skills related to English language and literature.
PSO2	The students will gain the confidence and the skill to teach with the acquired language skills and face academic, Career oriented challenges.
PSO3	The students will enhance their soft skills which will enable them to achieve success in their career.

SEMESTER: I**Course Name: CORE 1: BRITISH LITERATURE I****(FROM CHAUCER TO Dr. JOHNSON)****Course Code: 17PBACT101**

CO1	Get a clear idea about life and the concepts of human beings
CO2	Gain an insight about the values of life for a peaceful survival
CO3	Gain a symbolic vision of leading life in a good way
CO4	Understand good vs bad in the life of every human being
CO5	Comprehend the necessity of aesthetic value and effects in life

Course Name: CORE 2: NEW LITERATURE**Course Code: 17PBACT102**

CO1	Understand the significance gratitude in life
CO2	Realize the importance of nature
CO3	Gain knowledge about social responsibility
CO4	Understand the values of culture and social setup
CO5	Gain an insight on the moral and ethical values of human life

Course Name: CORE 3: WORLD DRAMA**Course Code: 17PBACT103**

CO1	To come to understand the real life situation of people across the world
CO2	Gain an insight to acquire spiritual and intellectual freedom
CO3	Understand how deception creates a negative impact upon the life of people and will learn the methods to avoid it
CO4	gain the knowledge about true power and wisdom and ways to be follow to attain it
CO5	Comprehend the difficulties in fulfilling the personal and societal responsibilities

Course Name: CORE 4: PRACTICAL CRITICISM**Course Code: 17PBACT104**

CO1	Get knowledge about the concept of practical criticism
CO2	Gain an understanding about the strategies to be adopted for critical reading
CO3	Comprehend the methodologies to analyse Poetry
CO4	Understand the techniques to critically understand poetry and drama while reading them
CO5	Comprehend the ways to critically understand fiction and prose

Course Name: CORE 5: PRACTICAL CRITICISM**Course Code: 17PBACT105**

CO1	Get knowledge about the concept of practical criticism
CO2	Gain an understanding about the strategies to be adopted for critical reading
CO3	Comprehend the methodologies to analyse Poetry
CO4	Understand the techniques to critically understand poetry and drama while reading them
CO5	Comprehend the ways to critically understand fiction and prose

Course Name: ELECTIVE I (A) - BUILDING WRITING SKILLS**Course Code: 17PBAET106**

CO1	Get knowledge about the concept of practical criticism
CO2	Gain an understanding about the strategies to be adopted for critical reading
CO3	Comprehend the methodologies to analyse Poetry
CO4	Understand the techniques to critically understand poetry and drama while reading them
CO5	Comprehend the ways to critically understand fiction and prose

Course Name: ELECTIVE I (B) - TRANSLATION STUDIES**Course Code: 17PBAET107**

CO1	Get the basic idea about translation and its types
CO2	Get a clear perception about the history of translation and the problems behind it
CO3	Understand the need for translation in their future career
CO4	Understand the importance of translation for productive job opportunities
CO5	Get exposure to hands-on training in translation in order to match their skills in the domain area

Course Name: ELECTIVE I (C) - AN INTRODUCTION TO MODERN LINGUISTICS**Course Code: 17PBAET108**

CO1	Learn how to make use of the language methodologically
CO2	Understand the basic components in language usage in a specialized way
CO3	Comprehend the significance of phonology in the use of language
CO4	Get a clear idea about the basic units of the language
CO5	Gain the basic knowledge about transformational generative grammar

SEMESTER: II**Course Name: Core 6 - BRITISH LITERATURE II (FROM WILLIAM WORDSWORTH TO THE PRESENT AGE)****Course Code: 17PBACT201**

CO1	Get an awareness the link between man and nature
CO2	Understand the basic difference between conservatism and modernism
CO3	Comprehend the connection between individualism , faith, and the importance of gender equality
CO4	Gain an insight into the depth of meaningful life comprising of several ethical values
CO5	Come to understand the relation between literature and life in all aspects

Course Name: Core 7 - REGIONAL LITERATURES IN ENGLISH**Course Code: 17PBACT202**

CO1	Gain the knowledge to view the world from the satirist point of view
CO2	Understand the traditional and culture of India
CO3	Realize the true value of education in turn with situational competence of human beings
CO4	Get a vivid idea about the sufferings of women and the measures to be taken to avoid it
CO5	Understand the value of utilizing their fancy and imagination for their peaceful and happy life

Course Name: Core 8 - CULTURAL STUDIES IN POST – COLONIAL LITERATURE**Course Code: 17PBACT203**

CO1	Come to understand that sufferings of the people in different era
CO2	Understand the reason behind the mode of English education in India
CO3	Realize the destructive impact of war
CO4	Comprehend the causes and effect of racism during colonization
CO5	Imbibe patriotic feelings

Course Name: Core 9 - RESEARCH METHODOLOGY**Course Code: 17PBACT204**

CO1	Gain the basic knowledge about research writing
CO2	Understand the details about plagiarism and the ways to avoid it
CO3	Get an idea about the mechanics of writing research articles
CO4	Understand how to format a research paper
CO5	Get the basic idea in sighting sources for the documentation

Course Name: Core 10 - METHODS OF TEACHING ENGLISH

Course Code: 17PBACT205

CO1	get the knowledge about the action of English language in post independent India.
CO2	understand the significance of vocabulary enrichment for speaking English
CO3	gain knowledge about various components of teaching English
CO4	comprehend the value of study aids, testing and evaluation
CO5	realize the importance of professionalism as the future English teachers.

Course Name: ELECTIVE II (A) - ENGLISH LITERATURE FOR COMPETITIVE EXAMS

Course Code: 17PBAET206

CO1	gain the basic knowledge about modern poetry
CO2	understand the concepts of twentieth century drama
CO3	get an idea to make a comparative study of the pre and post - world war novels.
CO4	comprehend the contribution of writers of 20 th century through different genres.
CO5	get a clear idea about the new modes of modern writing.

Course Name: ELECTIVE II (B) - PRESENTATION SKILLS

Course Code: 17PBAET207

CO1	gain knowledge about the rhetoric art of speaking.
CO2	understand ways to imbibe self – confidence through mental mastery.
CO3	comprehend the ways to master meetings with presentations to small groups.
CO4	get a clear idea about the techniques to be developed to become master speakers.
CO5	get a theoretical knowledge about public speaking.

Course Name: ELECTIVE II (C) - JOURNALISM

Course Code: 17PBAET208

CO1	gain the basic knowledge about journalism
CO2	understand the responsibility of the reporters and the significance of journalism.
CO3	get an idea about the choice and manner of collecting news.
CO4	comprehend the construction and evaluation process of news sources.
CO5	be equipped with the basic knowledge of working with words on editing news.

SEMESTER: III

Course Name: Core 11 - MYTHOLOGICAL LITERATURE

Course Code: 17PBACT301

CO1	understand the significance of social values through Myth
CO2	think critically about Myth
CO3	get an insight of ethical values through Mythical characters
CO4	promote cultural values
CO5	comprehend the strategies used in Myth

Course Name: Core 12 - EUROPEAN LITERATURE

Course Code: 17PBACT302

CO1	gain an insight of Human Values
CO2	acquire the knowledge of Social Ethics to become an effective citizen
CO3	understand the Values of Ethics
CO4	recognize the Values for Lifelong Learning
CO5	think Critically

Course Name: Core 13 - EDUCATIONAL PSYCHOLOGY

Course Code: 17PBACT303

CO1	gain an insight of the techniques for social interaction
CO2	groom their personality
CO3	understand the techniques of self – directedness and lifelong learning
CO4	enhance their critical thinking
CO5	gain the confidence to become effective citizens through their service as care takers

Course Name: Core 14 : CRITICAL THEORIES

Course Code: 17PBACT304

CO1	get a clear idea of Ethical Values through the ideas of Ancient Philosophers
CO2	direct themselves to lifelong learning process
CO3	develop the power of their Critical Thinking
CO4	comprehend the significance of the personalities who interact to the society through their writings
CO5	critically think and analyze varied perceptions through reading

Course Name: Elective III A - CREATIVE WRITING

Course Code: 17PBAET305

CO1	develop their love for Environment
CO2	be directed towards lifelong learning to fulfill their goals
CO3	develop the effectiveness of their Communication through their Creative Writing
CO4	groom themselves to become effective Social Interactors
CO5	enhance their Critical Thinking for Social Interaction

Course Name: Elective III B - STYLISTICS

Course Code: 17PBAET306

CO1	acquire a fundamental knowledge about Linguistic Aspects
CO2	understand the rules and codes of the resources of a language
CO3	associate linguistic structures through social interaction
CO4	comprehend the treatment of human communication during specific conditions
CO5	critically analyze the technical aspects of the language

Course Name: Elective III C – CHILDREN’S LITERATURE

Course Code: 17PBAET307

CO1	understand the real value of Nature
CO2	perceive the importance of self – directed learning
CO3	comprehend the values of Effective Citizenship
CO4	think critically about the Ethical Values presented in a Metaphysical Sense
CO5	learn to survive in the society

Course Name: ALC : THEORIES IN LITERATURE

Course Code: 17PBAAL308

CO1	analyze the Ethnic attributes of a group related to their Environment
CO2	understand the marginalization of Women and their sustainability in the Society
CO3	comprehend the Feminine Perspectives and gain Social Responsibility
CO4	critically analyze literature through Psychological Aspects
CO5	interlink and integrate Indian Ethics through Literary Works

Course Name: ALC : LANGUAGE THEORIES

Course Code: 17PBAAL309

CO1	analyze the acquired behavior based on Environmental Circumstances
CO2	imbibe the underlying grammatical theories to use language flawlessly
CO3	speak accurately by screening their utterance in a Self – directed way
CO4	analyze the thought process Critically and promote Lifelong Learning
CO5	communicate efficiently without the impact of the Mother Tongue

SEMESTER: IV

Course Name: Core 15 - FEMINIST LITERATURE

Course Code: 17PBACT401

CO1	gain an insight on Critical Thinking
CO2	improve their knowledge on Social Interaction
CO3	realize the value of Effective Citizenship
CO4	acquire the skill to sustain Environmental Values
CO5	develop the attitude of Self –directedness and Lifelong Learning

Course Name: Core 16 - SUBALTERN STUDIES

Course Code: 17PBACT402

CO1	gain knowledge about human values through Subalternity
CO2	learn to combat the problems and become effective citizens in the society
CO3	gain a sound knowledge about sustenance
CO4	self - directed and lifelong learning
CO5	think critically

Course Name: Core 17 - ECOLOGICAL STUDIES IN LITERATURE

Course Code: 17PBACT403

CO1	realize the significance of Values of Nature
CO2	get along with the Natural Environment to promote Sustainability
CO3	develop a healthy bonding with the environment
CO4	cherish and protect Nature
CO5	promote a natural liking for the Environment and Society

Course Name: Elective IV – A - RETOLD CLASSICS

Course Code: 17PBAET404

CO1	imbibe good qualities through Epic Characters
CO2	understand the significance of Human Values through the Life of Legends
CO3	explore the values of Self – directed learning
CO4	promote Moral and Cultural Values
CO5	comprehend the Traditional Values of Ancient India

Course Name: Elective IV – B - SCIENCE FICTION

Course Code: 17PBAET405

CO1	Employ critical thinking
CO2	Capable for Effective Social Interaction
CO3	Learn to nurture the ethical values
CO4	Engulfed with the idea to sustain the Environment
CO5	Emerge as Self- directed learners

Course Name: Elective IV – C - PARTITION LITERATURE

Course Code: 17PBAET406

CO1	gain an outline of Indian history aftermath Independence
CO2	get an idea of different perspectives of Social and Political changes
CO3	get a clear idea about the core process involved in shaping a new country
CO4	get to understand the diverse culture of India
CO5	realize the importance of human values

Programme Title: B.Sc. Mathematics

Programme Outcomes: At the end of the programme, the students will be able to

PO Number	PO Statement
PO1	Critical Thinking: Take informed actions after identifying the assumptions that frame our think and actions, checking out the degree to which these assumptions are accurate and valid, and looking at our ideas and decisions (intellectual, organizational and personal) from different perspectives.
PO2	Effective Communications: Speak, read, write and listen clearly in person and through electronic media in English and in one Indian language, and make meaning of the world by connecting people, ideas, books, media and technology.
PO3	Social Interaction: Elicit views of others, mediate disagreements and help to reach conclusion in group settings.
PO4	Effective Citizenship: Demonstrate empathetic social concern and equity centered national development, and the ability to act with an informed awareness of issue and participate in civic life through volunteering.
PO5	Ethics: Recognize different value systems including your own, understand the moral dimension of your decisions, and accept responsibility for them.
PO6	Environment and Sustainability: Understand the issues of environmental contexts and sustainable development.
PO7	Self - directed and Life-long Learning: Acquire the ability to engage in independent and life-long learning in the broadest context socio-technological changes.

Programme Specific Outcomes: At the end of the programme, students will be equipped with the Knowledge in

PSO Number	PSO Statement
PSO1	Developing analytical skills, attitude, critical thinking and searching for conclusions to the problems arising from complicated structures.
PSO2	Attaining a rigorous and intellectual pursuit which helps to find patterns and structure.
PSO3	Strengthening the high level of Employability and higher education.

SEMESTER: I**Course Name: Core 1: Algebra and Trigonometry****Course Code: 17UANCT101**

CO1	Solve infinite series using Binomial theorems.
CO2	Solve infinite series by using Exponential and Logarithmic series theorem.
CO3	Know about the basics of convergency.
CO4	Apply different tests for convergency.
CO5	Expand trigonometric and hyperbolic functions.

Course Name: Core 2:Differential and Integral Calculus**Course Code: 17UANCT102**

CO1	Know about the curvature and radius of curvature.
CO2	Evaluate different types of integrals.
CO3	Apply reduction formulae.
CO4	Evaluate double and triple integral.
CO5	Solve improper and multiple integrals.

Course Name: Environmental Studies**Course Code: 17ES01**

CO1	Understand the different types of eco systems(Understand).
CO2	Identify the different types of land and energy resources(Remember).
CO3	Acquire the concept of biodiversity and its conservation(Apply).
CO4	Develop awareness against disaster management(Create).
CO5	Attain exposure to environmental policies(Apply).

Course Name: Allied Physics - I**Course Code: 17UANAT103**

CO1	Recollect the basic concepts of Gravitation and Elasticity
CO2	Understand the laws of Thermodynamics
CO3	Gain insight over the classification of Sound and understand the applications of Ultrasonics
CO4	Analyse the behaviour of electric charge, field and potential
CO5	Acquire knowledge over the types of magnetic materials

SEMESTER: II**Course Name: Core 3: Theory of Equations, Vector calculus and Fourier Series****Course Code: 17UANCT201**

CO1	Understand the basic concepts of limits and analytic functions in complex numbers.
CO2	Analyze the concept of analyticity.
CO3	Attain knowledge in singularities.
CO4	Analyze Cauchy theorems.
CO5	Discuss about harmonic functions and their properties .

Course Name: Core 4: Analytical Geometry

Course Code: 17UANCT202

CO1	Find roots of an algebraic equation .
CO2	Understand concepts regarding roots.
CO3	Know the basics of vectors.
CO4	Do vector integration using standard theorems .
CO5	Solve problems using Fourier series .

Course Name: Foundation Course II: Value Education

Course Code: 17VE01

CO1	Define the Dimensions of Value System [Remember]
CO2	Build their personality in physical, mental, emotional and spiritual aspects [Apply]
CO3	Outline the benefits of sharing ideas and concern for the family members [Understand]
CO4	Identify the Vocational Problems and the solutions [Apply]
CO5	Examine the pull factors of social evils and identify the ways to eradicate them [Analyze]

SEMESTER: III

Course Name: Core 5: Differential Equations and Laplace Transforms

Course Code: 17UANCT301

CO1	Solve the first degree equation of the Bernoulli and Clairaut's equation
CO2	Solve homogenous and non-homogenous differential equations
CO3	Find the complete solution of a PDE with constant coefficients
CO4	Explain the concepts of Laplace Transform and its properties
CO5	Solve the differential equations using Inverse Laplace Transform.

Course Name: Core 6: Discrete Mathematics

Course Code: 17UANCT302

CO1	Understand the concepts of Mathematical Logic and Normal Forms
CO2	Explain the Predicate Calculus and Theory of Inference
CO3	Construct the Grammar and its Language.
CO4	Design the Finite State Machine
CO5	Identify Lattices and Boolean functions.

Course Name: Allied: Statistics for Mathematics - I

Course Code: 17UANAT303

CO1	Understand the basic concepts of probability and axioms
CO2	Distinguish the various distributions
CO3	Illustrate the expectation and variance of various distributions
CO4	Analyse Moments and Characteristic functions
CO5	Discuss various theoretical distributions

Course Name: Skill Based:R-The Statistical Programming Language

Course Code: 17UANSP304

CO1	Find measures of central tendency and measures of dispersion
CO2	Determine various parameters of theoretical distributions
CO3	Solve the statistic 't' by constructing hypothesis
CO4	Determine the Correlation and Regression Coefficients
CO5	Solve the statistical hypothesis by Chi -Square Test.

SEMESTER: IV

Course Name: Core 7: Mechanics

Course Code: 17UANCT401

CO1	Tell the basic principles of forces and its resultant
CO2	Outline the difference between like and unlike parallel forces
CO3	Describe the basic principles of friction and centre of gravity
CO4	Determine the velocity of the projectiles in magnitude , direction and range
CO5	Analyse the basic of laws of impact of spheres

Course Name: Core 8: Operations Research

Course Code: 17UANCT402

CO1	Write the canonical and standard forms of Linear Programming Problem
CO2	Solve the Linear Programming Problem by various methods
CO3	Distinguish between transportation and assignment problems
CO4	Discuss various types of costs involved in inventory management and finding EOQ
CO5	Construct a network diagram and find the critical path and PERT

Course Name: Allied: Statistics for Mathematics - II

Course Code: 17UANAT403

CO1	Explain the concept of Correlation
CO2	Solve the Regression lines and know about curve Fitting
CO3	Describe various Estimators and their properties.
CO4	understand Maximum Likelihood Estimators , Minimum Chi Square Estimators and Confidence Intervals
CO5	Able to understand some concepts of large and small sample

Course Name: Skill Based :Introduction to Scientific Computing-OCTAVE

Course Code: 17UANSP404

CO1	Solve various matrix manipulations and system of linear equations
CO2	Plot 2D and 3D graphs
CO3	Examine the palindrome string
CO4	Solve algebraic equations by using bisection and iterative method
CO5	Solve the first and second order ordinary differential equations

SEMESTER: V**Course Name: Core 9: Real Analysis - I****Course Code: 17UANCT501**

CO1	Explain the concepts of real numbers
CO2	Discuss the notation and terminology of set theory
CO3	Explain about the sets of points in higher dimensional space
CO4	Explain the concept of a covering of a set
CO5	Discuss the limits and continuity

Course Name: Core 10: Complex Analysis - I**Course Code: 17UANCT502**

CO1	Develop the basic algebraic and geometric properties of the complex number system
CO2	Explain the concepts of limit and continuity for functions of a complex variable
CO3	Find the derivative for functions of complex variable and the geometric consequences of the existence of the derivatives
CO4	Explain the concepts of various bilinear transformations
CO5	Explain the concept of power series

Course Name: Core 11: Abstract Algebra**Course Code: 17UANCT503**

CO1	Know about the properties of a Group
CO2	Distinguish various types of groups
CO3	Construct the mappings and define the properties of rings
CO4	Discuss the concept of morphisms in rings
CO5	Analyze Ideals and homomorphisms of rings.

Course Name: Core 12: Programming in C**Course Code: 17UANCT504**

CO1	Know about the basic structure of C programming
CO2	Distinguish various types of operators and expressions in C
CO3	Discuss about various I/O operators and decision making statements
CO4	Discuss the concept of looping statements and arrays
CO5	Apply character arrays, strings and structures

Course Name: Elective I: RDBMS and ORACLE Practical**Course Code: 17UANEP505**

CO1	Create tables and writing simple queries
CO2	Update and alter tables using SQL
CO3	Create report and data base trigger
CO4	Write PL/SQL blocks, split and join tables
CO5	Find the total, average marks and results

Course Name: Elective II: Programming in C Practical**Course Code: 17UANEP506**

CO1	Find mean, median, mode and fibonacci numbers and solve quadratic equations
CO2	Sort a set of numbers and names and prepare pay list
CO3	Find factorial value of number and product of two matrices
CO4	Illustrate the comparison of structure variables
CO5	copy one string into another and count the number of characters copied

Course Name: Elective II: Visual Basic Practical**Course Code: 17UANEP507**

CO1	Sort list of numbers, find smallest of n numbers and select any one from a list
CO2	Create a project that displays the current date and time and timer control
CO3	Convert temperature scale
CO4	Find factorial value of number and illustrate the usage of scroll bars
CO5	Illustrate the usage of input boxes and find the sine of an angle

Course Name: Skill Based III: Mathematics for Competitive Examinations**Course Code: 17UANSP508**

CO1	Understand the concepts of Problems on Number and Ages
CO2	Know and solve problems on the Surds, Indices and Percentage
CO3	Find the Profit, Loss, Ratio and Proportion
CO4	Understand and solve the Partnership and Chain Rule problems
CO5	Solve the Time and Work, Pipes and Cistern problems

SEMESTER: V**Course Name: Core 13: Real Analysis - II****Course Code: 17UANCT601**

CO1	Discuss about continuous functions.
CO2	Explain the concept of connectedness and its relation to continuity
CO3	Discuss briefly the concept of differential calculus.
CO4	Discuss derivatives of complex valued functions.
CO5	Study the process of integration in different way.

Course Name: Core 14: Complex Analysis - II**Course Code: 17UANCT602**

CO1	Explain the properties of bilinear transformations.
CO2	Develop the theory of integration for complex functions.
CO3	Find the functions using Taylor's series and Laurent's series.
CO4	Explain the concept of singular points of a function.
CO5	Evaluate definite integral using Cauchy's residue theorem.

Course Name: Core 15:Linear Algebra**Course Code: 17UANCT603**

CO1	Know about the concept of a vector space.
CO2	Analyze basis, dimension and matrix of a linear transformation.
CO3	Construct an inner product space.
CO4	Discuss the types of matrices and their transformations.
CO5	Calculate the rank of a matrix, characteristic equation, eigen values and eigen vectors.

Course Name: Elective II:Numerical Methods**Course Code: 17UANET604**

CO1	Know and solve numerical algebraic and transcendental equations.
CO2	Solve solution of simultaneous linear algebraic equations.
CO3	Find the Interpolation for equal intervals.
CO4	Understand the concept of Numerical Differentiation and Integration.
CO5	Solve single and multi -step methods.

Course Name: Elective II:Formal Languages and Automata Theory**Course Code: 17UANEP605**

CO1	Un Understand the concepts of Finite State Machine.
CO2	Apply the Finite Automaton with output.
CO3	Understand the Rules for Regular Expression.
CO4	Construct the regular grammars.
CO5	Understand the concept of Pushdown Automata.

Course Name: Elective II:Fuzzy Sets and Fuzzy Logic**Course Code: 17UANEP606**

CO1	Understand the concept of Fuzzy Sets and Classical Sets.
CO2	Discuss Fuzzy Relations and Classical Relations.
CO3	Know the Membership Functions.
CO4	C Classify Classical Logic and Fuzzy Logic.
CO5	Tell the Fuzzy to Crisp Conversions.

Course Name: Elective III:Elementary Number Theory**Course Code: 17UANEP607**

CO1	Understand the concepts of natural numbers, axioms and laws.
CO2	Find the addition and multiplication of integers.
CO3	List the divisibility concepts in detail.
CO4	Determine prime and composite numbers.
CO5	Know the Euler function.

Course Name: Elective III: Neural Networks and Genetic Algorithm

Course Code: 17UANEP608

CO1	Discuss neuron model and network architectures.
CO2	Explain Perceptron learning and Back Propagation Networks rules.
CO3	Understand Associative Memory.
CO4	Know about the Adaptive Resonance Theory.
CO5	Understand the fundamental concepts of Genetic Algorithm.

Course Name: Elective III: Elementary Graph Theory

Course Code: 17UANEP609

CO1	Know about graphs and its operations.
CO2	Discuss the concept of connectivity.
CO3	Know about Trees.
CO4	Construction of Eulerian and Hamiltonian graphs.
CO5	Difference between directed and undirected graphs.

Programme Title: MSC. Mathematics

Programme Outcomes: At the end of the programme, the students will be able to

PO Number	PO Statement
PO1	Critical Thinking: Take informed actions after identifying the assumptions that frame our thinking and actions, checking out the degree to which these assumptions are accurate and valid, and looking at our ideas and decisions (intellectual, organizational and personal) from different perspectives.
PO2	Effective Communications: Speak, read, write and listen clearly in person and through electronic media in English and in one Indian language, and make meaning of the world by connecting people, ideas, books, media and technology.
PO3	Social Interaction: Elicit views of others, mediate disagreements and help to reach conclusions in group settings.
PO4	Effective Citizenship: Demonstrate empathetic social concern and equity centered national development, and the ability to act with an informed awareness of issue and participate in community life through volunteering.
PO5	Ethics: Recognize different value systems including your own, understand the moral dimensions of your decisions, and accept responsibility for them.
PO6	Environment and Sustainability: Understand the issues of environmental contexts and sustainable development.
PO7	Self - directed and Life-long Learning: Acquire the ability to engage in independent and life-long learning in the broadest context socio-technological changes.

Programme Specific Outcomes: At the end of the programme, students will be equipped with the Knowledge in

PSO Number	PSO Statement
PSO1	Developing analytical skills, attitude, critical thinking and searching for conclusions to problems arising from complicated structures.
PSO2	Attaining a rigorous and intellectual pursuit which helps to find patterns and structure.
PSO3	Strengthening the high level of Employability and Research.

SEMESTER: I**Course Name: Core 1: Algebra****Course Code: 17PBECT101**

CO1	Know about the properties of group theory
CO2	Define the properties of ring theory
CO3	Analyze field and extension fields
CO4	Construction the galois theory
CO5	Discuss about the transformations

Course Name: Core 2: Real Analysis**Course Code: 17PBECT102**

CO1	Understand the basic concepts of Topology , Numerical Sequences and series.
CO2	Analyze the continuity and differentiation.
CO3	Attain knowledge in Riemann-Stieltjes integral.
CO4	Analyze sequences and series of functions.
CO5	Discuss about functions of several variables.

Course Name: Core 3: Advanced Differential Equations**Course Code: 17PBECT103**

CO1	Understand the basic concepts of Picard's theorem.
CO2	Solve the Simultaneous differential equations of the form $((dx))/P=((dy))/Q=((dz))/R$.
CO3	Attain knowledge in Legendre equation and Legendre polynomials.
CO4	Solve the Bessel equation and Existence and Uniqueness problems.
CO5	Discuss about Linear systems with periodic coefficients.

Course Name: Core 4: Applied Numerical Analysis**Course Code: 17PBECT104**

CO1	Find the solution for transcendal equations and Numerical integrations.
CO2	Solve the numerical interpolation problems.
CO3	Solve the first order differential equations.
CO4	Understand the basic concepts of boundary value problems.
CO5	Understand and solve the partial differential equations.

Course Name: Elective I: Latex and Matlab**Course Code: 17PBEEET105**

CO1	Understand LaTeX commends and environment
CO2	Display text, tables and footnotes
CO3	Type Mathematical formulas and symbols
CO4	Understand matrix and array operations and also plotting graphs
CO5	Know scripts and functions in Matlab

SEMESTER: II**Course Name: Core 6: Complex Analysis****Course Code: 17PBECT201**

CO1	Understand the basic concepts of limits and analytic functions in complex numbers.
CO2	Analyze the concept of analyticity.
CO3	Attain knowledge in singularities.
CO4	Analyze Cauchy theorems.
CO5	Discuss about harmonic functions and their properties .

Course Name: Core 7: Measure Theory and Integration**Course Code: 17PBECT202**

CO1	Understand the concept of Lebesgue measure
CO2	Understand the concept of Lebesgue integral
CO3	Analyze differentiation and integration
CO4	Know about general measure and integration
CO5	Understand measure and outer measure

Course Name: Core 8: Partial Differential Equations**Course Code: 17PBECT203**

CO1	Understand the basic concepts of Mechanical system and Generalized coordinates.
CO2	Know the Lagrangian and Integral equation.
CO3	Solve the Hamiltonian equation.
CO4	Solve the Hamilton - Jacobi Equations.
CO5	Understand the Poisson and Lagrange brackets.

Course Name: Core 9: Classical Dynamics**Course Code: 17PBECT204**

CO1	Understand the basic concepts of Mechanical system and Generalized coordinates.
CO2	Know the Lagrangian and Integral equation.
CO3	Solve the Hamiltonian equation.
CO4	Solve the Hamilton - Jacobi Equations.
CO5	Understand the Poisson and Lagrange brackets.

Course Name: Elective II: Latex and Matlab Practical**Course Code: 17PBEEET205**

CO1	Do matrix operations
CO2	Create tables and question paper
CO3	Draw graphs using Latex
CO4	Compute statistical data and sorting numbers
CO5	Draw 2D and 3D graphs

SEMESTER: III**Course Name: Core 10: Topology****Course Code: 17PBECT301**

CO1	Explain the basic concepts of Topological Spaces.
CO2	Analyze Product and Metric Topologies, Connected Spaces and its properties in the real line
CO3	Attain knowledge in Compact Spaces and its properties.
CO4	Distinguish the Countability and Separation Axioms by various theorems
CO5	Discuss the Compactness and Completeness of Topological Spaces with its properties.

Course Name: Core 11: Advanced Fluid Dynamics**Course Code: 17PBECT302**

CO1	Understand the basic concepts of fluid and its properties
CO2	Know the Euler and Kelvins circulation.
CO3	Solve the Blasius equations.
CO4	Solve the Navier Stokes equation.
CO5	Understand the basic concepts of boundary layer equations.

Course Name: Core 12: Mathematical Statistics**Course Code: 17PBECT303**

CO1	Discuss the concept of probability and distribution functions.
CO2	Analyse the parameters and characteristic functions
CO3	Categories types of probability distribution functions and limit theorems
CO4	Classify types of parametric tests for large samples
CO5	Describe the concepts of theory of estimation.

Course Name: Core 13: Graph Theory**Course Code: 17PBECT304**

CO1	Explain the concepts of graphs and trees
CO2	Illustrate connectivity and tours through euler graphs and hamiltonian cycles
CO3	Investigate perfect matching
CO4	Discuss edge colourings independence sets and cliques
CO5	Distinguish girth and chromatic number

Course Name: Elective III: Fuzzy Mathematics**Course Code: 17PBEEET30**

CO1	Differentiate the concepts of crisp and fuzzy sets
CO2	Understand fuzzy relations and distinguish crisp and fuzzy relations
CO3	Describe some crisp and fuzzy relations and solve fuzzy relation equations
CO4	Interprete various measures of fuzziness.
CO5	Construct fuzzy set and apply fuzzy logic control to real time systems

SEMESTER: IV**Course Name: Core 14: Functional Analysis****Course Code: 17PBECT401**

CO1	Explain the concepts of Banach Space through linear transformation.
CO2	Describe the operators in Banach space.
CO3	Relate some properties of Hilbert space
CO4	Distinguish the operators on Hilbert space.
CO5	Discuss about spectral theory.

Course Name: Core 15: Mathematical Methods**Course Code: 17PBECT402**

CO1	Discuss about Fourier transforms, their properties and applications
CO2	State and use hankel transforms to solve partial differential equations
CO3	Analyze, identify and apply the methods of integral equations.
CO4	Construct integral equations from ODE and apply singular integral equations.
CO5	Classify the problems in calculus of variations and hence solve some physical problems.

Course Name: Core 16: Maths with Python Programming**Course Code: 17PBECT403**

CO1	Write different kinds of numbers by getting user input.
CO2	Visualize data with graphs.
CO3	Describe data with statistical tools.
CO4	Define algebra symbolic math with SYMPY.
CO5	Interpret results from sets and probability.

Course Name: Core 17: Maths with Python Programming Practical**Course Code: 17PBECT404**

CO1	Write programs to distinguish the kinds of numbers.
CO2	Visualize Statistics with Graphs.
CO3	List the first N Fibonacci numbers.
CO4	Find correlation coefficient.
CO5	Show the pictorial results from Sets and Probability.

Course Name: Core 18: Algebraic Number Theory**Course Code: 17PBECT405**

CO1	Understand the basic concepts of divisibility and primes
CO2	Know the congruences relation and euler function.
CO3	Solve the higher order congruences.
CO4	Know the algebraic form of number theory.
CO5	Understand the basic concepts of quadratic and Mobius function.

Course Name: Elective IV:Control Theory

Course Code: 17PBEEET407

CO1	Explain the concepts of observability of linear and nonlinear system.
CO2	Discribe the controllability of linear and nonlinear system.
CO3	Investigate stability of linear and nonlinear system .
CO4	Verify stability with restricted feed back.
CO5	Discuss the optimal control of linear and nonlinear system.

Programme Title: B.Com

Programme Outcomes: At the end of the programme, the students will be able to

PO Number	PO Statement
PO1	Critical Thinking: Take informed actions after identifying the assumptions that frame our think and actions, checking out the degree the degree to which these assumptions are accurate and va and looking at our ideas and decisions (intellectual, organizational, and personal) from differ perspectives.
PO2	Effective Communications: Speak, read, write and listen clearly in person and through electronic media in English and in one Indian language and make meaning of the world by connecting peop ideas, books, media and technology.
PO3	Social Interaction: Elicit views of others, mediate disagreements and help reach conclusions group settings.
PO4	Effective Citizenship: Demonstrate empathetic social concern and equity centered national development, and the ability to act with an informed awareness of issues and participate in civic through volunteering.
PO5	Ethics: Recognize different value systems including your own, understand the moral dimensions your decisions, and accept responsibility for them.
PO6	Environment and Sustainability: Understand the issues of environmental contexts and sustainable development.
PO7	Self - directed and Life-long Learning: Acquire the ability to engage in independent and life-long learning in the broadest context socio-technological changes.

Programme Specific Outcomes: At the end of the programme, students will be equipped with the Knowledge in

PSO Number	PSO Statement
PSO1	Familiarize with methods of preparing financial statements of corporate sectors.
PSO2	Pursuing professional courses like CA, CS CMA and Master courses like M.Com., MSW., and MBA.,
PSO3	Lucrative career choices in the areas of Marketing, Banking, Insurance sectors and to emerge as a Successful entrepreneur

SEMESTER: I**Course Name: Core I - Financial Accounting - I****Course Code: 17UADCT101**

CO1	Remember the accounting concepts and procedures.
CO2	Understand the book keeping and rectification of errors
CO3	Apply the principles of Financial Statements and BRS
CO4	Analyse the transactions of Bill of exchange and Account Current
CO5	Evaluate the finance statements and purpose of non trading concerns.

Course Name: Core 2 – Business Organisation**Course Code: 17UADCT102**

CO1	Remember the concepts of trade and evaluation of business
CO2	Understand the various forms in business organization
CO3	Apply the features of public enterprises
CO4	Analyze the steps for starting a new business
CO5	Evaluate the functions of stock exchange.

Course Name: Allied I: Indian Economy**Course Code: 17UADAT103**

CO1	Remember the issues for growth and development of Indian Economy
CO2	Understand the causes of Poverty and identify the measures to solve unemployment
CO3	Apply the system for improving agricultural productivity and green revolution
CO4	Analyse the growth and the impact of LPG in Industrial sector
CO5	Evaluate the outlook and prospects of Private investment in Infrastructure

Course Name: Foundation Course I: Environmental Studies**Course Code: 17ES01**

CO1	Understand the different types of ecosystems (Understand).
CO2	Identify the different types of land and energy resources (Remember).
CO3	Acquire the concepts of biodiversity and its conservation (Apply).
CO4	Develop awareness against disaster management (Create).
CO5	Attain exposure to environmental policies (Apply).

SEMESTER: II**Course Name: Core 3 – Financial Accounting II****Course Code: 17UADCT201**

CO1	Remember the accounting treatment of Consignment
CO2	Understand the methods and applications of depreciation
CO3	Apply the system of accounting followed in Hire Purchase system
CO4	Analyse accounting treatment required for admission and retirement in partnership firms
CO5	Evaluate the accounting procedures involved in dissolution of partnership.

Course Name: Core 4 –Marketing Management**Course Code: 17UADCT202**

CO1	Remember the principles and practices of marketing.
CO2	Understand pricing mechanism of marketing
CO3	Apply the evaluation concepts of physical distribution
CO4	Analyze the sales promotional techniques used in modern marketing.
CO5	Evaluate the importance of branding decisions.

Course Name: Allied II- Managerial Economics**Course Code: 17UADATP203**

CO1	Remember the nature and scope of economics
CO2	Understand the determination of the demand and supply for a good in a competitive market
CO3	Apply the different production and the implications of the producers' equilibrium in a market on firms output decisions
CO4	Analyse the pricing strategy under perfect competition
CO5	Evaluate the cause and effects of inflation

Course Name: Foundation Course II: Value Education**Course Code: 17VE01**

CO1	Define the Dimensions of Value System [Remember]
CO2	Build their personality in physical, mental, emotional and spiritual aspects [Apply]
CO3	Outline the benefits of sharing ideas and concern for the family members [Understand]
CO4	Identify the Vocational Problems and the solutions [Apply]
CO5	Examine the pull factors of social evils and identify the ways to eradicate them [Analyze]

SEMESTER: III**Course Name: Core 5: Corporate Accounting - I****Course Code: 17UACCT301**

CO1	Remember the accounting procedures for Issues of shares.
CO2	Understand the application of redemption of Preference Shares and Debentures
CO3	Apply the underwriting procedures for Shares and debentures
CO4	Analyse the financial statements of the corporate as per Accounting Standards.
CO5	Evaluate the Value of Goodwill and Shares of company.

Course Name: Core 6 – Principles of Management**Course Code: 17UADCT302**

CO1	Remember the functions and strategy of managing business.
CO2	Understand the nature and importance of planning and decision making .
CO3	Apply the Skills necessary for carrying out the sound organizational structure
CO4	Analyze the techniques adopted to improve the organizational ability
CO5	Evaluate the importance of effective teamwork and techniques of controlling

Course Name: Core 7 – Office Management and Business Communication**Course Code: 17UADCT303**

CO1	Remember the principles and functions of office management
CO2	Understand the mechanism of filling and indexing of office documents
CO3	Apply the modern communication methods in drafting business letters
CO4	Analyse the mechanism of business correspondence and its implications
CO 5	Evaluate agenda and minutes of the company meetings

Course Name: Core 8 – Business Law**Course Code: 17UADCT304**

CO1	Remember the laws relating to contract
CO2	Understand the various legal contracts that a business entity can take and their relative advantages and disadvantages
CO3	Apply the legal aspects relating to performance and discharge of contract.
CO4	Analyse the suitable strategies relating to contract of indemnity and guarantee
CO5	Evaluate the essentials of hire purchase agreement and its implications to develop a suitable operational framework

Course Name: Allied III – Business Mathematics**Course Code: 17UADAT305**

CO1	List various types of sets by using Venn diagram
CO2	Solve the problems based on commercial Mathematics
CO3	Solve the problems by various Matrix operations
CO4	Understand the basic concepts of differentiation and its application to Business.
CO5	Solve the Linear Programming Problem by graphical method

Course Name: Non Major Elective I – Basics of Commerce

Course Code: 17UACNT306

CO1	Remember the basic concepts of Business Organization
CO2	Understand the Management techniques and gain exposure on functions of management
CO3	Apply the planning, Organizing and controlling techniques of Management
CO4	Analyze the various marketing functions, process and its applications for decision making
CO5	Evaluate and apply the mechanism of e-marketing technologies in business

Course Name: Non Major Elective I – Business Organisation

Course Code: 17UACNT307

CO1	Remember the qualities of successful businessman and able to built good organization structure.
CO2	Understand the various forms of business organization and its implications.
CO3	Apply the theories of form of organization in non corporate enterprises
CO4	Analyze and determine the reasons for long survival of SSI
CO5	Evaluate the size of firms and reason for survival of small scale undertakings

Course Name: Skill Based – I Business Application Software I

Course Code: 17UADST308

CO1	Remember the word processing terminology and concepts
CO2	Understand the document formatting and alignments
CO3	Apply the mechanism of mail merge by creating a suitable data
CO4	Analyze the several functions of MS-Excel and able to inbuilt appropriate function suitable for evaluating data
CO5	Evaluate sharing data between applications and create complex worksheets and templates

SEMESTER: IV

Course Name: Core 9 – Corporate Accounting - II

Course Code: 17UADCT401

CO1	Remember the accounting procedures for amalgamation and absorption methods
CO2	Understand the external and internal reconstruction framework of companies
CO3	Apply the norms and regulations of banking companies as per Banking Regulation Act
CO4	Analyze the financial statements of Insurance companies as per IRDA regulations
CO5	Evaluate the legal requirements and preparation of consolidated balance sheet of holding Company

Course Name: Core 10 –Company Law**Course Code: 17UADCT402**

CO1	Remember the basic provisions of law in formation of companies and preparation of MOA and Prospectus
CO2	Understand the legal provisions relating to transfer and transmission of shares and debentures
CO3	Apply the procedures in appointment and removal of directors as per Companies Act 2013
CO4	Analyze the various kinds of meetings and its procedures
CO5	Evaluate the process of winding up and its consequences to companies

Course Name: Core 11 –Human Resource Management**Course Code: 17UADCT403**

CO1	Remember the basic concepts of Human Resource Management and its essential role Contemporary organization's internal and external environment
CO2	Understand the role and factors influence the Human Resource planning
CO3	Apply the current theory and practice of recruitment and selection in relation to the Organization
CO4	Analyze the appropriate implementation, monitoring and assessment procedures for training and Development
CO5	Evaluate the different techniques and challenges involved in the performance appraisal.

Course Name: Core 12 – International Business**Course Code: 17UADCT404**

CO1	Remember the concepts of international business and its importance in corporate world
CO2	Understand the procedures of foreign exchange currency and international monetary system
CO3	Apply the theories of international frame and monetary issues and apply them to real world situations
CO4	Analyze the reasons of FDI and payment terms in foreign trade
CO5	Evaluate the implications of international marketing and its promotional strategies

Course Name: Allied IV– Business Statistics**Course Code: 17UADAT405**

CO1	Describe different types , collection and presentation of data.
CO2	Determine Measures of Central Tendency and Dispersion.
CO3	Understand and distinguish between Correlation and Regression.
CO4	Construct Index Numbers and test of Index Numbers.
CO5	Analyze and apply Time Series methods.

Course Name: Non Major Elective I - Banking

Course Code: 17UADNT406

CO1	Keep in mind the relationship between banker and customer.
CO2	Understand the deposit schemes provided to the customers
CO3	Apply the regulatory issues that arises in banking sector
CO4	Analyze the banking instrument and its features
CO5	Evaluate the various products and services offered by the bank

Course Name: Non Major Elective I – Service Marketing

Course Code: 17UADNT407

CO1	Remember the growth and key services business in India
CO2	Understand the consumer behaviour considerations and its guidelines for developing service sectors
CO3	Apply hospitality and tourism service mechanism and develop the sectors accordingly
CO4	Analyze various service industries and their growth opportunities in Indian Economy
CO5	Evaluate the customer satisfaction by rating and assess the service quality of industries

Course Name: Skill Based – II Business Application Software I

Course Code: 17UADSP408

CO1	Remember the mechanism of editing multiple documents
CO2	Understand the bulletin work and replacing the misspelled word easily
CO3	Apply the mechanism of mail merge easily to creating a letter document format and merging to multiple people
CO4	Analyze the appropriate design of cheque book and resume wizard
CO5	Evaluate the multiple data by using Excel formulas.

SEMESTER : V

Course Name: Core 13 – Cost Accounting

Course Code: 17UADCT501

Course Outcomes (CO): On completion of the course, students should be able to

CO1	Remember the cost concepts and able to prepare cost sheets
CO2	Understand various levels and able to find out value of closing stock after material issued
CO3	Apply the methods of labour turnover and system of wage payment
CO4	Analyse the allocation, apportionment and absorption methods
CO5	Evaluate the contract and process accounts

Course Name: Core 14 – Direct Taxes**Course Code: 17UADCT502**

CO1	Remember the scope of income of residents
CO2	Understand the provisions relating to salary income and house property income
CO3	Apply the provisions to evaluate business and professional income.
CO4	Analyze the deductions under gross total income.
CO5	Evaluate the aggregate income and tax liability of individual.

Course Name: Core 15 - Entrepreneurship**Course Code: 17UADCT503**

CO1	Remember the importance and traits of entrepreneurship
CO2	Understand the opportunities of a successful business
CO3	Apply the various techniques for market analysis
CO4	Analyze the business planning process for starting a new business venture
CO5	Evaluate the sources of finance and Government support schemes for entrepreneurs.

Course Name: Core 16 – Banking Law and Practice**Course Code: 17UADCT504**

CO1	Remember the functions and regulations of Banking Act
CO2	Understand the procedures in banking services
CO3	Apply the procedures in crossing and endorsement of cheques
CO4	Analyze the lending policies and security alerts of banks
CO5	Evaluate the core banking and e- banking technologies

Course Name: Elective - I: A. Business Finance**Course Code: 17UADET505**

CO1	Remember the concepts and functions of finance
CO2	Apply the financial planning steps for the effective business
CO3	Understand the capitalization theories and its implications
CO4	Analyze the capital structure of the company
CO5	Evaluate the sources and Forms of Finance

Course Name: Elective - I: B. Service Marketing**Course Code: 17UADET506**

CO1	Remember the nature and types of services
CO2	Understand the concepts including the marketing mix
CO3	Apply marketing services into various service sectors.
CO4	Analyze the services offered by various service sectors.
CO5	Evaluate the perspective of various service sectors.

Course Name: Elective - I: C. Fundamentals of Insurance

Course Code: 17UADET507

CO1	Remember the basic concepts of Insurance
CO2	Understand the procedures for becoming an insurance agent
CO3	Apply the basic insurance knowledge related to Life insurance
CO4	Analyse the types of fire insurance policies
CO5	Evaluate the different clauses involved in marine insurance policy

Course Name: Skill Based II – Business Application Software II

Course Code: 17UADST508

CO1	Remember the basics of power point terminology and concepts
CO2	Understand the formatting and alignments in MS Power point
CO3	Apply the mechanism of database by creating a suitable data
CO4	Analyze the several functions of MS-Access and able to inbuilt appropriate function suitable for evaluating the data
CO5	Evaluate the sharing data between applications and create complex Reports and Forms.

SEMESTER : VI

Course Name: Core 17 – Management Accounting

Course Code: 17UADCT601

CO1	Understand the Management accounting concepts and its purpose
CO2	Analyse the various types of ratios
CO3	Evaluate the Concept of working capital
CO4	Remember the marginal costing techniques
CO5	Apply the knowledge acquired for preparation of Budgets

Course Name: Core 18 - Auditing

Course Code: 17UADCT602

CO1	Remember the nature and importance of auditing
CO2	Understand the need for an internal audit and different types of audit evidence
CO3	Apply the various techniques for valuation of assets and liabilities
CO4	Analyze the audit report and the duties, liabilities of an auditor
CO5	Evaluate the various sources of EDP Systems in auditing

Course Name: Core 19 – Indirect Taxes

Course Code: 17UADCP603

CO1	Remember the nature of taxation system in India
CO2	Understand the strength, threats, opportunities and challenges of GST
CO3	Apply the GST law comprehensively in a concise manner.
CO4	Analyze the liabilities and input tax credit adjustments in filing GST returns
CO5	Evaluate the e-way bills in a clear and lucid manner

Course Name: Elective - II: A. Financial Institutions and Markets

Course Code: 17UADET604

CO1	Remember the concept of financial Institutions and its characteristics.
CO2	Understand different functions and regulatory framework of institutions.
CO3	Apply the mechanism of money market and capital market.
CO4	Analyze the evaluation and growth of primary and secondary market.
CO5	Evaluate the mechanics of stock trading.

Course Name: Elective - II: B Supply Chain Management

Course Code: 17UADET605

CO1	Remember the key issues of supply chain management.
CO2	Understand the need for demand driven and distribution strategies.
CO3	Apply the various techniques of strategic alliances.
CO4	Analyze the general framework of supply chain partnership.
CO5	Evaluate the smart pricing strategies.

Course Name: Elective - II: C Principles of Web Designing

Course Code: 17UADET606

CO1	Remember the basic of HTML and Graphics concepts.
CO2	Understand the Document formatting of XML.
CO3	Apply the mechanism of JAVA Scripting to create smart forms.
CO4	Analyze the several scripting and working of CGI, JAVA Servlets.
CO5	Evaluate the web database tools for active server pages.

Course Name: Elective - III: A. Principles and Practice of Bank Management

Course Code: 17UACEV607

CO1	Remember the role and functions of commercial banks
CO2	Understand the functions of bank management
CO3	Understand the lending practices and credit appraisal of banks
CO4	Analyze the importance of Human resource management in banks
CO5	Evaluate the balance sheet of banks

Course Name: Elective - III: B. Portfolio and Investment Management

Course Code: 17UACEV608

CO1	Remember the classifications and essential features of investment programme.
CO2	Understand the various alternatives available for investment
CO3	Apply to measure for identifying risk and return on investment
CO4	Analyze the factors determining to investment mix and business policy decisions
CO5	Evaluate the ideas and practices to maximizes one's returns and minimizes risks.

Course Name: Elective - III: C. PROJECT WORK

Course Code: 17UACEV609

CO1	Enable the students to think beyond boundaries of the classroom.
CO2	Understand the techniques of identifying and defining the problems.
CO3	Analyze the various area of research and able to select the appropriate one.
CO4	Apply the knowledge and skills throughout project building process.
CO5	Evaluate the project for actual economic and social benefit.

Course Name: Skill Based – IV : Business Application Software II

Course Code: 17UADSP610

CO1	Remember the basics of power point terminology and concepts.
CO2	Understand the formatting and alignments in MS Power point.
CO3	Apply the mechanism of database by creating a suitable data.
CO4	Analyze the several functions of MS-Access and able to inbuilt appropriate function suitable for evaluating the data.
CO5	Using tally create the ledger and show the result.

Programme Title: B.Com(Banking & Insurance)

Programme Outcomes: At the end of the programme, the students will be able to

PO Number	PO Statement
PO1	Critical Thinking: Take informed actions after identifying the assumptions that frame thinking and actions, checking out the degree to which these assumptions are accurate and valid, and looking at our ideas and decisions (intellectual, organizational, and personal) from different perspectives.
PO2	Effective Communications: Speak, read, write and listen clearly in person and through electronic media in English and in one Indian language and make meaning of the world by connecting people, ideas, books, media and technology.
PO3	Social Interaction: Elicit views of others, mediate disagreements and help reach conclusions in group settings.
PO4	Effective Citizenship: Demonstrate empathetic social concern and equity centered national development, and the ability to act with an informed awareness of issues and participate in civil life through volunteering.
PO5	Ethics: Recognize different value systems including your own, understand the moral dimensions of your decisions, and accept responsibility for them.
PO6	Environment and Sustainability: Understand the issues of environmental contexts and sustainable development.
PO7	Self - directed and Life-long Learning: Acquire the ability to engage in independent and life-long learning in the broadest context socio-technological changes.

Programme Specific Outcomes: At the end of the programme, students will be equipped with the Knowledge in

PSO Number	PSO Statement
PSO1	Functional areas like accounting, taxation, Banking and Insurance and also acquire skills to work as tax consultant, Audit assistant and other financial supporting services.
PSO2	Pursuing professional course like CA, CS – CMA and Master courses like M.Com, MSW and MBA.
PSO3	Lucrative Career choices in the areas of marketing, Banking, Insurance sectors and to emerge as a successful entrepreneur.

SEMESTER: I**Course Name: Core I - Financial Accounting - I****Course Code: 17UAICT101**

CO1	Remember the accounting concepts and procedures.
CO2	Understand the book keeping and rectification of errors
CO3	Apply the principles of Financial Statements and BRS
CO4	Analyze the transactions of Bill of exchange and Account Current
CO5	Evaluate the finance statements and purpose of non trading concerns.

Course Name: Core II- INDIAN BANKING SYSTEM**Course Code: 17UAICT102**

CO1	Remember the organization structure of banks.
CO2	Understand the role of central banks and its policy framework
CO3	Apply the methods of charging secure and unsecured advances
CO4	Analyze the features of Indian Financial Network and its factors.
CO5	Evaluate the role of Non Banking Financial Companies .

Course Name: Allied I: Business Mathematics**Course Code: 17UAIAT103**

CO1	Recall the set theory concepts and understand the concepts of Arithmetic and geometric series
CO2	Know the basic concepts of financial mathematics.
CO3	Understand and apply the matrix concepts and operations.
CO4	To gain knowledge on differential and integral calculus.
CO5	Analyze the LPP using graphical and simplex methods.

Course Name: Foundation Course I: Environmental Studies**Course Code: 17ES01**

CO1	Understand the different types of ecosystems (Understand).
CO2	Identify the different types of land and energy resources (Remember).
CO3	Acquire the concepts of biodiversity and its conservation (Apply).
CO4	Develop awareness against disaster management (Create).
CO5	Attain exposure to environmental policies (Apply).

SEMESTER: II**Course Name: Core III – Financial Accounting II****Course Code: 17UAICT201**

CO1	Remember the accounting treatment of Consignment
CO2	Understand the book keeping and rectification of errors.
CO3	Apply the principles of financial statements and BRS.
CO4	Analyze the transactions of bill of exchange and account current.
CO5	Evaluate the financial statements and purposes of Non trading Concerns.

Course Name: Core IV – Fundamentals of Insurance**Course Code: 17UAICT202**

CO1	Remember the nature and principles of insurance
CO2	Understand the insurance laws and regulations and contract act.
CO3	Apply the procedures, code of conduct and unfair practices.
CO4	Analyze the fundamental principles of insurance
CO5	Evaluate the applications of life insurance products

Course Name: Allied II- Business Statistics**Course Code: 17UAIAT203**

CO1	Understand and interpret different types of data.
CO2	Know about the measures of central tendency and dispersion.
CO3	Gain the knowledge on correlation and regression analysis.
CO4	Analyze the test of index numbers.
CO5	Understand and apply the different methods in time series.

Course Name: Foundation Course II: Value Education**Course Code: 17VE01**

CO1	Define the Dimensions of Value System [Remember]
CO2	Build their personality in physical, mental, emotional and spiritual aspects [Apply]
CO3	Outline the benefits of sharing ideas and concern for the family members [Understand]
CO4	Identify the Vocational Problems and the solutions [Apply]
CO5	Examine the pull factors of social evils and identify the ways to eradicate them [Analyze]

SEMESTER: III**Course Name: Core V: Corporate Accounting - I****Course Code: 17UAICT301**

CO1	Remember the accounting procedures for Issue of shares.
CO2	Understand the application of redemption of Preference Shares and Debentures.
CO3	Apply the underwriting procedures for Shares and Debentures.
CO4	Analyze the financial statements of the corporate as per accounting standards.
CO5	Evaluate the value of goodwill and shares of company.

Course Name: Core VI: Banking Law and Practice**Course Code: 17UAICT302**

CO1	Remember the regulations and importance of banking regulation Act.
CO2	Understand the general and special bank and customer relationship service.
CO3	Apply the regulations relating to negotiable instruments and truncated instrument.
CO4	Analyze the duties and privileges of paying and collecting banker.
CO5	Evaluate the principles of advances and non performing assets.

Course Name: Core VII: Merchant Banking**Course Code: 17UAICT303**

CO1	Remember the concepts and functions of Merchant Banking.
CO2	Understand the application of merchant banking services as per SEBI Guidelines.
CO3	Apply the concept and functions of capital market and money market instruments.
CO4	Analyze the capital structure procedures and its pattern applicable for decision making
CO5	Evaluate the working mechanism of GDR , ADR and IDR

Course Name: Core VIII: Business Law**Course Code: 17UAICT304**

CO1	Remember the laws relating to contract
CO2	Understand the various legal contracts that a business entity can take and their relative advantages and disadvantages.
CO3	Apply the legal aspects relating to performance and discharge of contract.
CO4	Analyse the suitable strategies relating to contract of indemnity and guarantee
CO5	Evaluate the essentials of hire purchase agreement and its implications to develop a suitable operational framework

Course Name: Allied III: Office Management and Business Communication
Course Code: 17UAIAT305

CO1	Remember the principles and functions of office management.
CO2	Understand the mechanism of filling and indexing of office documents.
CO3	Apply the modern communication methods in drafting business letters
CO4	Analyze the mechanism of business correspondence and its implications.
CO5	Create Agenda and minutes of the company meetings.

Course Name: NME I: E-commerce
Course Code: 17UAIAT306

CO1	Remember the concepts of e-commerce technology and its perspectives.
CO2	Understand the growth and evolution of e-commerce adoption in India.
CO3	Apply the e-commerce framework in business
CO4	Analyze the applications of e business and e learning.
CO5	Evaluate the usage of e payment and e money system.

Course Name: Skill Based – I: Business Application Software I
Course Code: 17UAIAT307

CO1	Remember the word processing terminology and concepts
CO2	Understand the document formatting and alignments in Ms Word
CO3	Apply the mechanism of mail merge by creating a suitable data
CO4	Analyze the several functions of MS –Excel and able to inbuilt appropriate function suitable evaluating the data.
CO5	Evaluate the sharing data between applications and create complex worksheets and templates

SEMESTER: IV

Course Name: Core IX: Corporate Accounting - II
Course Code: 17UAIAT401

CO1	Remember the accounting procedures for amalgamation and absorption methods
CO2	Understand the external and internal reconstruction framework of companies
CO3	Apply the norms and regulations of banking companies as per Banking Regulation Act
CO4	Analyze the financial statements of Insurance companies as per IRDA regulations
CO5	Evaluate the legal requirements and preparation of consolidated balance sheet of holding Company

Course Name: Core X: Financial Services**Course Code: 17UAICT402**

CO1	Remember the functions of financial service market in India.
CO2	Understand the contemporary financial measures of performance and risk.
CO3	Apply the Various financial products, services, and strategies offered by the variety of financial services institutions.
CO4	Analyze the Credit rating mechanism and factors influencing rating profile of corporate.
CO5	Evaluate the venture capital methods as per SEBI Regulations.

Course Name: Core XI: Principles and Practice of E-Banking and Insurance**Course Code: 17UAICT403**

CO1	Remember the electronic banking procedures and implications
CO2	Understand the online banking technology and its updation procedures.
CO3	Apply the concepts of Insurance and Re- insurance policies and procedures as per IRDA Guidelines.
CO4	Analyze the macro and micro insurance policies with IRDA Guidelines.
CO5	Evaluate the concept of privatization, self regulation and installation of Corporate Governan

Course Name: Core XII: Entrepreneurial Development**Course Code: 17UAICT404**

CO1	Remember the concepts of entrepreneurship and role of entrepreneur for economic development.
CO2	Understand the features of project formation and assessment of project feasibility.
CO3	Apply the phases of entrepreneurial development programme and its problems.
CO4	Analyse the idea for financial assistance from various financial institutions.
CO5	Evaluate the government schemes with regard to incentives and subsidies

Course Name: Allied IV: Business Economics**Course Code: 17UAIAT405**

CO1	Remember the basic theories of business economic definition and economic system
CO2	Understand the determination of the demand and supply for a good in a competitive market and explain how that demand and supply together determine equilibrium price..
CO3	Apply the different market structures and the implications of the degrees of competition in a market on firms pricing and output decision.
CO4	Analyse the different costs in the production and study the long run and short run relations of costs as well as of wages, interest and profit in day to day running of business.
CO5	Evaluate the managerial productivity theory of distribution and its profitability.

Course Name: Non Major Elective II – Business Communication

Course Code: 17UAIN406

CO1	Remember basic communication skills to enhance business
CO2	Understand the drafting of various business letters.
CO3	Apply of mechanism of preparing quotations for supply orders.
CO4	Analyze collection letters and circulars to enhance business models.
CO5	Evaluate the credit sources and inform the customers about their status of credit

Course Name: Skill Based – II Business Application Software I

Course Code: 17UAISP407

CO1	Remember the mechanism of editing multiple documents
CO2	Understand the bulletin work and replacing the misspelled word easily
CO3	Apply the mechanism of mail merge easily to creating a letter document format and merging to multiple people
CO4	Analyze the appropriate design of cheque book and resume wizard
CO5	Evaluate the multiple data by using Excel formulas.

SEMESTER : V

Course Outcomes (CO): On completion of the course, students should be able to

Course Name: Core XIII – Cost Accounting

Course Code: 17UAICT501

CO1	Remember the cost concepts and able to prepare cost sheets
CO2	Understand various levels and able to find out value of closing stock after material issued
CO3	Apply the methods of labour turnover and system of wage payment
CO4	Analyse the allocation, apportionment and absorption methods
CO5	Evaluate the contract and process accounts

Course Name: Core XIV – Direct Taxes

Course Code: 17UAICT502

CO1	Remember the scope of income of residents
CO2	Understand the provisions relating to salary income and house property income
CO3	Apply the provisions to evaluate business and professional income.
CO4	Analyze the deductions under gross total income.
CO5	Evaluate the aggregate income and tax liability of individual.

Course Name: Core XV - Modern Marketing

Course Code: 17UAICT503

CO1	Remember the nature and functions of marketing.
CO2	Understand the concept of consumer behaviour and market segmentation.
CO3	Apply the policies, standardization and branding in product development.
CO4	Analyze the pricing decisions and problems in pricing.
CO5	Evaluate the distribution channels in marketing.

Course Name: Core XVI – Insurance and Risk Management

Course Code: 17UAICT504

CO1	Remember the process of financial risk management
CO2	Understand the role of insurance sector in coverage of risk in due course of time.
CO3	Apply the principles and identify the cost and benefits of insurance services.
CO4	Analyse and compute the claim settlement of life and general insurance policies.
CO5	Evaluate the role of global reinsurance market and market reinsurance trading

Course Name: Elective - I: A. Principles and Practice of Bank Management

Course Code: 17UAIET505

CO1	Remember the role and functions of commercial banks
CO2	Understand the functions of bank management
CO3	understand the lending practices and credit appraisal of banks
CO4	Analyze the importance of Human resource management in banks
CO5	Evaluate the balance sheet of banks

Course Name: Elective - I: B. Business Finance

Course Code: 17UAIET506

CO1	Remember the concepts and functions of finance.
CO2	Apply the financial planning steps for the effective business
CO3	Understand the capitalization theories and its implications.
CO4	Analyze the capital structure of the company.
CO5	Evaluate the sources and Forms of Finance

Course Name: Elective - I: C. Principles of Web Designing

Course Code: 17UAIET507

CO1	Remember the basics of HTML and Graphics concepts.
CO2	Understand the Document formatting of XML
CO3	Apply the mechanism of JAVA Scripting to create smart forms
CO4	Analyze the several scripting and working of CGI, JAVA Servlets
CO5	Evaluate the web database tools for active server pages

Course Name: Skill Based III – Business Application Software II

Course Code: 17UAIST508

CO1	Remember the basics of power point terminology and concepts
CO2	Understand the formatting and alignments in MS Power point
CO3	Apply the mechanism of database by creating a suitable data
CO4	Analyze the several functions of MS-Access and able to inbuilt appropriate function suitable for evaluating the data
CO5	Evaluate the sharing data between applications and create complex Reports and Forms.

SEMESTER : VI

Course Name: Core XVII – Management Accounting

Course Code: 17UAICT601

CO1	Understand the Management accounting concepts and its purpose
CO2	Analyse the various types of ratios
CO3	Evaluate the Concept of working capital
CO4	Remember the marginal costing techniques
CO5	Apply the knowledge acquired for preparation of Budgets

Course Name: Core XVIII - Auditing

Course Code: 17UAICT602

CO1	Remember the nature and importance of auditing
CO2	Understand the need for an internal audit and different types of audit evidence
CO3	Apply the various techniques for valuation of assets and liabilities
CO4	Analyze the audit report and the duties, liabilities of an auditor
CO5	Evaluate the Investigation and sources of EDP Systems.

Course Name: Core XIX – Indirect Taxes

Course Code: 17UAICP603

CO1	Remember the nature of taxation system in India
CO2	Understand the strength, threats, opportunities and challenges of GST
CO3	Apply the GST law comprehensively in a concise manner.
CO4	Analyze the liabilities and input tax credit adjustments in filing GST returns
CO5	Evaluate the e-way bills in a clear and lucid manner

Course Name: Elective - II: A. Micro Finance

Course Code: 17UAIET604

CO1	Remember the basic concepts of micro finance
CO2	Understand the income generation activities of micro enterprises
CO3	Apply credit delivery methods and credit lending models
CO4	Analyse the pricing strategies of micro finance products
CO5	Evaluating the growth of micro finance industry

Course Name: Elective - II: B. Supply Chain Management

Course Code: 17UAIET605

CO1	Remember the key issues of supply chain management.
CO2	Understand the need for demand driven and distribution strategies.
CO3	Apply the various techniques of strategic alliances.
CO4	Analyze the general framework of supply chain partnership.
CO5	Evaluate the smart pricing strategies

Course Name: Elective - II: C. International Business

Course Code: 17UAIET606

CO1	Remember the concepts of international business and its importance in corporate world.
CO2	Understand the procedures of foreign exchange currency and international monetary system.
CO3	Understand the objectives of GATT and WTO.
CO4	Analyze the implications of international marketing and its promotional strategies.
CO5	Evaluate the financial management system in international Business.

Course Name: Elective - III: A. Insurance Legislative Framework
Course Code: 17UAIET607

CO1	Remember the basic concepts of Insurance legislation in India.
CO2	Understand the procedures for conduct of insurance business.
CO3	Apply the basic insurance knowledge related to General insurance.
CO4	Analyse the features of marine insurance Act.
CO5	Evaluate the IRDA Provisions and regulations.

Course Name: Elective - III: B. Advertising And Sales Promotion
Course Code: 17UAIET608

CO1	Remember the objectives and functions of advertising.
CO2	Understand the advantages of advertising.
CO3	Apply advertisement copy for the product.
CO4	Analyze the reasons for growth of Sales Promotion.
CO5	Evaluate the different kinds sales promotion.

Course Name: Elective - III: C. PROJECT WORK AND VIVA-VOCE
Course Code: 17UAIEV609

CO1	Enable the students to think beyond the boundaries of the class room.
CO2	Understand the techniques of identifying and defining the problem.
CO3	Analyze the various areas of research and able to select the appropriate one.
CO4	Apply the knowledge and skills throughout the project building process.
CO5	Evaluate the project for actual economic and social benefit.

Course Name: Skill Based – IV: Business Application Software II
Course Code: 17UADSP610

CO1	Remember the basics of power point terminology and concepts.
CO2	Understand the formatting and alignments in MS Power point.
CO3	Apply the mechanism of database by creating a suitable data.
CO4	Analyze the several functions of MS-Access and able to inbuilt appropriate function suitable for evaluating the data.
CO5	Using tally create the ledger and show the result.

Programme Title: B.Com. (Computer Applications)

Programme Outcomes (PO): At the end of the programme, students will be able to

PO Number	PO Statement
PO1	Critical Thinking: Take informed actions after identifying the assumptions that frame our thinking and actions, checking out the degree to which these assumptions are accurate and valid, and looking at our ideas and decisions (intellectual, organizational and personal) from different perspectives.
PO2	Effective Communication: Speak, read, write and listen clearly in person and through electronic media in English and in one Indian language, and make meaning of the world by connecting people, ideas, books, media and technology.
PO3	Social Interaction: Elicit views of others, mediate disagreements and help reach conclusions in group settings.
PO4	Effective Citizenship: Demonstrate empathetic social concern and equity centered national development, and the ability to act with an informed awareness of issues and participate in civic life through volunteering.
PO5	Ethics: Recognize different value systems including your own, understand the moral dimensions of your decisions, and accept responsibility for them.
PO6	Environment and Sustainability: Understand the issues of environmental conservation and sustainable development.
PO7	Self-directed and Life-long Learning: Acquire the ability to engage in independent and life-long learning in the broadest context of socio-technological changes.

Programme Specific Outcome (PSO): At the end of the programme, students will be equipped with the Knowledge in

PSO Number	PSO Statement
PSO1	The field of Business and Commerce.
PSO2	Mathematical, analytical and statistical tools for Financial and Account analysis.
PSO3	Process information by effective use of IT tools.

SEMESTER: I**Course Name : Core I: Financial Accounting I****Course Code : 17UAECT101**

CO	Remember the basic concepts of accounting.
CO	Understand the preparation of Subsidiary Books.
CO	Apply the format of Final Accounts.
CO	Analyse the features of Bill of Exchange.
CO	Evaluate the preparation of Final Accounts of Non Trading Concerns.

Course Name : Core II: Introduction to Information Technology**Course Code : 17UAECT102**

CO	Remember the basics of computer systems.
CO	Understand about data and information.
CO	Apply the techniques in problem solving and programming.
CO	Analyze the functions and types of operating system.
CO	Evaluate the concepts of networking.

Course Name : Core IV: Computer Applications in Business: Practical-I (MS Office)**Course Code : 17UAACP202**

CO	Remember the basic MS-Office tools.
CO	Understand the various operations in Ms-Word.
CO	Apply various formulas using Ms-Excel.
CO	Analyse the different types of charts in Ms-Excel.
CO	Evaluate the various presentation slides using MS - Power point.

Course Name : Allied Paper I: Business Mathematics**Course Code : 17UAEAT103**

CO	List various types of sets by using Venn diagram
CO	Solve the problems based on commercial Mathematics
CO	Solve the problems by various Matrix operations
CO	Understand the basic concepts of differentiation and its application to Business.
CO	Solve the Linear Programming Problem by graphical method

Name: Environmental Studies**Course Code: 17ES01**

CO1	Understand the different types of eco systems(Understand).
CO2	Identify the different types of land and energy resources(Remember).
CO3	Acquire the concept of biodiversity and its conservation(Apply).
CO4	Develop awareness against disaster management(Create).
CO5	Attain exposure to environmental policies(Apply).

SEMESTER: II**Course Name : Core III: Financial Accounting II****Course Code : 17UAECT201**

CO1	Remember the concepts of Consignment.
CO2	Understand the various methods of Depreciation.
CO3	Apply the various interest calculations in Hire Purchase and Installment system.
CO4	Analyse the concepts of Partnership Accounts.
CO5	Evaluate the Procedure for Dissolution of Partnership Firm.

Course Name : Core IV: Computer Applications in Business: Practical-I (MS Access & Tally)**Course Code : 17UAECP202**

CO1	Remember the concepts of MS-Access
CO2	Understand the creation of database
CO3	Apply the queries and labels of various databases.
CO4	Analyze the final accounts of companies using Tally.
CO5	Evaluate the Inventory statement using Tally.

Course Name : Allied Paper II: Business Statistics**Course Code : 17UAEAT203**

CO1	Describe different types, collection and presentation of data.
CO2	Determine Measures of Central Tendency and Dispersion
CO3	Understand and distinguish between Correlation and Regression.
CO4	Construct Index Numbers and test of Index Numbers.
CO5	Analyze and apply Time Series methods.

Course Name: Foundation Course II: Value Education**Course Code: 17VE01**

CO1	Define the Dimensions of Value System [Remember]
CO2	Build their personality in physical, mental, emotional and spiritual aspects [Apply]
CO3	Outline the benefits of sharing ideas and concern for the family members [Understand]
CO4	Identify the Vocational Problems and the solutions [Apply]
CO5	Examine the pull factors of social evils and identify the ways to eradicate them [Analyze]

SEMESTER: III**Course Name : Core V – Principles of Marketing****Course Code : 17UAECT301**

CO1	Remember the basic principles of marketing.
CO2	Understanding the modern marketing ethics.
CO3	Apply the product policies for product planning and development.
CO4	Analyze the concepts of sales promotion, personal selling and advertising.
CO5	Evaluate the role of Government in consumer protection.

Course Name : Core VI – Database Application

Course Code : 17UAECT302

CO1	Remember the concepts of databases.
CO2	Understand the fundamentals of database models.
CO3	Apply the various operations in SQL.
CO4	Analyze the various commands in QBE to develop a database.
CO5	Evaluate the file techniques and clustering.

Course Name : Core VII – Cost Accounting

Course Code : 17UAECT303

CO1	Remember the basics of cost accounting
CO2	Understand the techniques of inventory control.
CO3	Apply the various methods in calculation of labour cost.
CO4	Analyze the various distribution of overheads
CO5	Evaluate the principles used in process, contract and operating costing.

Course Name : Core VIII - Financial Markets and Services

Course Code : 17UAECT304

CO1	Remember the various financial products, services and strategies offered by various institutions
CO2	Understand the importance of money market.
CO3	Apply the knowledge of various capital market operations.
CO4	Analyze the innovative financial services and instruments.
CO5	Evaluate the performance of mutual funds and venture capital.

Course Name : Allied III - Managerial Economics

Course Code : 17UAEAT305

CO1	Remember the economic principles for management decisions.
CO2	Understand the elasticity of demand and demand forecasting.
CO3	Apply the concepts of production function and cost analysis.
CO4	Analyze the competition strategies and pricing methods in market.
CO5	Evaluate the concept of national income and implications of the business cycle.

Course Name : Core XII - Computer Applications in Business: Practical-II (Oracle)

Course Code : 17UAECP404

CO1	Remember the various SQL commands in table creation.
CO2	Understand the use of different data constraints.
CO3	Apply the aggregate functions in SQL.
CO4	Analyze the SQL clauses using commands.
CO5	Evaluate the various queries using SQL commands.

Course Name : Skill based Subject-1: Business Law

Course Code : 17UAEST306

CO1	Remember the fundamentals of Contract Act
CO2	Understand the performance of contract.
CO3	Apply the various provisions of sale of goods act.
CO4	Analyze the rules relating to carriage of goods
CO5	Evaluate the nature of LLP.

SEMESTER: IV

Course Name : Core IX – Management Accounting

Course Code : 17UAECT401

CO1	Keep in mind the difference in financial, cost and management accounting.
CO2	Get an idea about the analysis of various ratios.
CO3	Apply the working capital concepts in real business.
CO4	Analyze the applications of marginal costing.
CO5	Figure out the various types of budgets and variance analysis in planning and decision making.

Course Name : Core X – Object Oriented Programme with C++

Course Code : 17UAECT402

CO1	Remember the basic concepts of C++.
CO2	Understand the control structures and arrays in application development.
CO3	Apply the functions and argument using class.
CO4	Analyze the concept of operator overloading and inheritance.
CO5	Evaluate the file commands and streams.

Course Name : Core XI – Business Communication

Course Code : 17UAECT403

CO1	Remember the concepts and principles of effective business communication.
CO2	Understand how to write business letters and improve written communication.
CO3	Apply the letter writing techniques in Banking and Insurance Correspondence.
CO4	Categorize the Company Secretarial Correspondence and E-Communication.
CO5	Construct the application letters and conduct interviews.

Course Name : Core XII - Computer Applications in Business:Practical-II (C++)

Course Code : 17UAECP404

CO1	Remember the basic function definition using class.
CO2	Understand the concept of nesting of functions.
CO3	Apply the control structures to make decision and looping.
CO4	Analyze the types of inheritance and operator overloading.
CO5	Evaluate the file commands.

Course Name : Allied IV: Principles of Management**Course Code : 17UAEAT405**

CO1	Recollect the general framework and understand the key functions of management as applied practice.
CO2	Understand the importance of planning and decision making.
CO3	Apply the principles of sound Organization
CO4	Execute the theories in management.
CO5	Evaluate the techniques of co- ordination and control

Course Name : Skill based Subject-2: Company Law**Course Code : 17UAEST406**

CO1	Remember the concepts about company and its promoters under companies' act 2013.
CO2	Understand the various documents maintained under companies' act 2013.
CO3	Apply the procedures relating to company securities.
CO4	Analyze the duties and powers of directors.
CO5	Evaluate the various types of company meetings.

SEMESTER: V**Course Name : Core XIII: Corporate Accounting****Course Code : 17UAECT501**

CO1	Remember the basic concepts of issue of shares and debentures.
CO2	Understand the accounting treatment of redemption of preference shares.
CO3	Apply the rules in the preparation of final accounts of companies as per Companies Act 2013.
CO4	Analyze the methods in the valuation of shares and goodwill.
CO5	Evaluate the various methods of amalgamation.

Course Name : Core XIV: E-Commerce**Course Code : 17UAECT502**

CO1	Remember the Framework, goals and Objectives of E-Commerce.
CO2	Understand the concepts of E-Commerce.
CO3	Implement the various technologies for E-Business.
CO4	Analyze the Types of E-Payment systems.
CO5	Evaluate the various E-Security methods.

Course Name : Core XV: Visual Basic.Net Programming**Course Code : 17UAECT503**

CO1	Remember the Basic Concepts of .NET Programming.
CO2	Understand the various Controls and Control Statements.
CO3	Apply the array, procedures and functions.
CO4	Analyze the OOPS concepts in VB.NET.
CO5	Evaluate the Databases and Reports.

Course Name : Core XVI: Principles of Auditing

Course Code : 17UAECT504

CO1	Keep in mind the Principles of Auditing.
CO2	Understand the importance of Vouching.
CO3	Apply the methods of Valuation.
CO4	Analyze the modes of Appointment of Company Auditor
CO5	Evaluate the basic considerations of Audit in EDP Environment.

Course Name : Core XIX: Computer Applications in Business: Practical-III (Visual Basic.NET)

Course Code : 17UAECP603

CO1	Remember the basic tools of VB.NET.
CO2	Understand the Built-in-functions of VB.NET.
CO3	Apply the Properties of Chart Control.
CO4	Analyze the VB.NET controls and its uses.
CO5	Evaluate the Database connectivity and report generation.

Course Name : Elective – I :(A) Income Tax Law and Practice

Course Code : 17UAEET505

CO1	Remember the various components of Income Tax Law.
CO2	Understand the Fundamental Concepts of Salary Income Computation.
CO3	Apply the Calculations of correct amount of Income Tax.
CO4	Analyze the simple fact situation and recognize the income tax notifications.
CO5	Evaluate critical thinking and problem solving skills.

Course Name : Elective – I :(B) Entrepreneurial Development

Course Code : 17UAEET506

CO1	Remember the role and functions of Entrepreneur.
CO2	Understand the growth of Entrepreneurship Development.
CO3	Apply the Various Entrepreneurship Development Programmes.
CO4	Analyze the Financial Lending Institutions.
CO5	Evaluate the Incentives and Subsidies provided for the Entrepreneur.

Course Name : Elective – I :(C) Human Resource Management

Course Code : 17UAEET507

CO1	Remember the functions performed by HR Manager.
CO2	Understand the concepts of HR Planning.
CO3	Apply the techniques of Recruitment.
CO4	Analyze the steps involved in Training and Development.
CO5	Evaluate the Employees Performance Appraisal.

Course Name : Skill based Subject-3: Banking and Insurance

Course Code : 17UAEST508

CO1	Remember the Rights and Duties of Banker.
CO2	Understand the Procedure of issuance of cheque.
CO3	Apply the Concepts of Banking Technologies.
CO4	Analyze the importance of Insurance.
CO5	Evaluate the performance of various Insurance.

SEMESTER: VI**Course Name : Core XVII: MIS and Multimedia Applications****Course Code : 17UAECT601**

CO1	Remember the concepts of MIS.
CO2	Understand the Fundamentals of Information.
CO3	Apply the various operations in Business.
CO4	Remember the Outline of Multimedia.
CO5	Apply the various presentation Tools.

Course Name : Core XVIII: Internet and Web Designing**Course Code : 17UAECT602**

CO1	Remember the Basic concepts of Internet.
CO2	Understand the current trends and the Emailing system.
CO3	Apply the HTML basics in Web Designing.
CO4	Analyze the additional techniques in designing a webpage.
CO5	Evaluate the different types of Forms and style sheets.

Course Name : Core XIX: Computer Applications in Business: Practical – III (HTML)**Course Code : 17UAECP603**

CO1	Remember the basic formatting, alignment and list tags.
CO2	Understand the table concepts in HTML
CO3	Apply the HTML tags to create a website.
CO4	Analyze the HTML forms.
CO5	Evaluate the various techniques in using CSS.

Course Name : Elective – II :(A) Financial Management**Course Code : 17UAEET604**

CO1	Remember the objectives and goals of financial management.
CO2	Understand the capital structure theories.
CO3	Apply the theories of cost of capital.
CO4	Analyze the capital budgeting process and techniques.
CO5	Evaluate the factors influencing the working capital management.

Course Name : Elective – II :(B) Business Environment**Course Code : 17UAEET605**

CO1	Remember the concept of business and Environment.
CO2	Apply the economic policies and conditions.
CO3	Understand the legal environment of business.
CO4	Analyze the social Responsibility of business towards stakeholders.
CO5	Evaluate the role of Globalization

Course Name : Elective – II :(C) Brand Management

Course Code : 17UAEET606

CO1	Remember the significance of Brands.
CO2	Understand the Brand Associations.
CO3	Apply the Brand Loyalty.
CO4	Analyze the Brand Performance over product lifecycle.
CO5	Evaluate the Branding strategies.

Course Name : Elective – III :(A) Indirect Taxes

Course Code : 17UAEET607

CO1	Remember the basics of Indirect Tax.
CO2	Understand the Tax impacts of economic operations.
CO3	Apply the methodology of calculation of Indirect Tax.
CO4	Evaluate the knowledge to handle various Indirect Taxes.
CO5	Analyze different duties and regulations under Indirect Tax.

Course Name : Elective – III :(B) International Trade

Course Code : 17UAEET608

CO1	Remember the concepts of Global Trade.
CO2	Understand the terms and conditions of the International Trade.
CO3	Apply the various Import and Export Tariffs and Taxes.
CO4	Analyze the types of Foreign Investment.
CO5	Evaluate the importance of Globalization.

Course Name : Elective – III : (C) Project Work

Course Code : 17UAEEV609

CO1	Keep in mind the recent trends in computer field.
CO2	Understand the techniques involved in software development for business.
CO3	Analyze the system requirements of the application/software.
CO4	Apply various tools in real time applications/software.
CO5	Verify the developed application with the customer.

Course Name : Skill based Subject-IV: Cyber Security and Law

Course Code : 17UAEST610

CO1	Remember the concepts of cyberspace and threats.
CO2	Understand the techniques of IP address and Hackers tools.
CO3	Apply the values in making safe online Shopping.
CO4	Analyze the Various Laws in cyber crime.
CO5	Evaluate the methods involved in Investigation.

Programme Title: M.Com. (Computer Applications)

Programme Outcomes (PO): At the end of the programme, students will be able to

PO Number	PO Statement
PO1	Critical Thinking: Take informed actions after identifying the assumptions that frame our thinking and actions, checking out the degree to which these assumptions are accurate and valid, and looking at our ideas and decisions (intellectual, organizational and personal) from different perspectives.
PO2	Effective Communication: Speak, read, write and listen clearly in person and through electronic media in English and in one Indian language, and make meaning of the world by connecting people, ideas, books, media and technology.
PO3	Social Interaction: Elicit views of others, mediate disagreements and help reach conclusions in group settings.
PO4	Effective Citizenship: Demonstrate empathetic social concern and equity centered national development, and the ability to act with an informed awareness of issues and participate in civic life through volunteering.
PO5	Ethics: Recognize different value systems including your own, understand the moral dimensions of your decisions, and accept responsibility for them.
PO6	Environment and Sustainability: Understand the issues of environmental context and sustainable development.
PO7	Self-directed and Life-long Learning: Acquire the ability to engage in independent and life-long learning in the broadest context socio-technological changes.

Programme Specific Outcome (PSO): At the end of the programme, students will be equipped with the Knowledge in

PSO Number	PSO Statement
PSO1	Financial and money markets for making investment decisions.
PSO2	Database Management, Software Development and web designing for effective computerization of business.
PSO3	Understand required accounting packages for Financial and Accounting analysis.

SEMESTER: I**Course Name : Core I: Managerial Economics****Course Code : 17PBBCT101**

CO1	Remember the nature and scope of managerial economics.
CO2	Understand the Utility concept.
CO3	Apply the demand and supply function.
CO4	Analyse the production and cost analysis.
CO5	Evaluate the market situation under various competitions.

Course Name : Core II: Marketing Management**Course Code : 17PBBCT102**

CO1	Remember the basic concepts of marketing.
CO2	Understand the key drivers of marketing strategies.
CO3	Apply the marketing mix decisions to satisfy the consumer needs.
CO4	Analyze the need for understanding consumer behaviour.
CO5	Evaluate the concepts and applications of marketing research.

Course Name : Core III: Data Base Management System**Course Code : 17PBBCT103**

CO1	Remember the basic concepts of databases.
CO2	Understand the SQL components and queries
CO3	Apply the various normalization techniques
CO4	Analyze the transactions and protocols
CO5	Evaluate the key elements and distributed query processing

Course Name : Core IV: Computer Applications in Business: Practical I (Oracle)**Course Code : 17PBBCT104**

CO1	Remember the basic concepts of SQL
CO2	Understand the creation of table and values
CO3	Apply the various commands in the database.
CO4	Analyze the table structure.
CO5	Evaluate the various queries

Course Name : Services Marketing**Course Code : 17PBBCT105**

CO1	Remember the economic policies of Indian Service sector
CO2	Understand the concept of Service Marketing
CO3	Apply Marketing mix in service sector
CO4	Analyse the key service areas.
CO5	Evaluate service quality

Course Name : Financial Markets and Institutions

Course Code : 17PBET106

C01	Understand the concept of Indian Financial System and money market instruments.
C02	Remember the various capital market instruments.
C03	Analyse the various Financial Services Institutions.
C04	Recollect the phenomenon of depository services.
C05	Evaluate the functions of development banks.

Course Name : Principles of International Trade

Course Code : 17PBET107

C01	Remember the concepts of International Trade.
C02	Understand the terms and conditions of the International Trade.
C03	Apply the various Import and Export Tariffs and Taxes.
C04	Analyze the types of Foreign Investment.
C05	Evaluate the importance of Globalization.

Course Name : Designing using Corel draw

Course Code : 17PBET108

C01	Remember the basic concepts of CorelDraw.
C02	Understand the various tools in CorelDraw.
C03	Apply the colors and images, manipulating objects.
C04	Analyze the color models and multicolor fill.
C05	Evaluate previewing documents and web designs, image maps.

SEMESTER: II

Course Name : Core V: Advanced Corporate Accounting

Course Code : 17PBCT201

C01	Remember the basic concepts of Insurance company accounts.
C02	Understand the accounting treatment for Non-Performing assets in Banking accounts.
C03	Apply the legal requirement relating to the presentation of accounts of Holding company its subsidiaries.
C04	Analyse the various methods of Amalgamation.
C05	Evaluate the emerging accounting practices.

Course Name : Core VI: Human Resource Management

Course Code : 17PBCT202

C01	Remember the importance of human resources and their effective management organizations.
C02	Understand the requirements of the recruitment and selection process.
C03	Apply the training and development needs for the 21st century.
C04	Analyse the different techniques involved in the performance appraisal process compensations.
C05	Evaluate Employee relations and Industrial disputes.

Course Name : Core VII: Research Methodology

Course Code : 17PBBCT203

C01	Remember the basic concepts of Research.
C02	Understand the various steps in research design.
C03	Apply the sources of data collection in research.
C04	Analyse the different types of statistical packages in Research.
C05	Evaluate the research report.

Course Name : Core VIII: Computer Applications in Accounting

Course Code : 17PBBCT204

C01	Remember the applications of IT in business activities.
C02	Understand the features of Tally.
C03	Apply procedures involved in the company creation.
C04	Analyze the inventory system reports in Tally.
C05	Evaluate the Value Added Tax (VAT) configuration in Tally.

Course Name : Core IX: Computer Applications in Business: Practical-II (Tally)

Course Code : 17PBBCT205

C01	Recollect the basic concepts in Company creation in Tally.
C02	Understand the voucher entry methods in Tally.
C03	Apply the Cash Flow and Fund Flow statements to know the company status.
C04	Analyze the performance of an organization using ratio.
C05	Execute the inventory system and budgets.

Course Name : Financial Services

Course Code : 17PBBET206

C01	Understand the Indian financial system.
C02	Recollect the working of leading stock exchanges in India.
C03	Get the knowledge about bank assurance and various card based services.
C04	Analyse the various insurance services offered.
C05	Evaluate benefit of real estate investment.

Course Name : Indian Stock Exchanges

Course Code : 17PBBET207

C01	Remember the origin and growth of stock exchanges.
C02	Understand the Stock Exchange Regulatory Framework.
C03	Recollect the procedures for listing of securities.
C04	Analyse the objectives, powers and functions of SEBI.
C05	Evaluate the stock index futures.

Course Name : Export and Import Procedure

Course Code : 17PBET208

CO1	Remember the concepts and rules for Export Business.
CO2	Understand the different categories of exporters.
CO3	Apply the exercise procedure and prepare export documents.
CO4	Analyse the various laws of Import trade in India.
CO5	Evaluate the RBI's directives for making payments of Imports.

Course Name : Working with Photoshop

Course Code : 17PBET209

CO1	Remember the shapes and bitmaps in Photoshop.
CO2	Understand the working and channels.
CO3	Apply the various tools and shapes.
CO4	Analyze the composite images and animated gifs.
CO5	Evaluate the elements and print options.

SEMESTER: III

Course Name : Core X: Financial Management

Course Code : 17PBCT301

CO1	Remember the concepts and tools of finance.
CO2	Understand the importance of cost of capital and capital budgeting techniques.
CO3	Apply the capital structure theories to determine capital structure.
CO4	Analyze the relationship between dividend theories and market price.
CO5	Evaluate the determinants of working capital.

Course Name : Core XI: Cost and Management Accounting

Course Code : 17PBCT302

CO1	Keep in mind the difference in financial, cost and management accounting.
CO2	Understand the various types of calculation of labour cost and overheads.
CO3	Get an idea about the analysis of various ratios and to understand the flow of fund and operations.
CO4	Apply the various budgeting techniques in real business.
CO5	Create optimum production plan of a business using marginal costing applications.

Course Name : Core XII: Visual Basic

Course Code : 17PBCT303

CO1	Remember the fundamental concepts of Visual Basic.
CO2	Understand the various objects in Integrated Development Environment.
CO3	Apply the procedures and functions for developing visual basic program.
CO4	Design program using grid controls and interfaces.
CO5	Choose appropriate database programming and data reports.

Course Name : Core XIII: Computer Applications in Business: Practical-III (Visual Basic)

Course Code : 17PBBCP304

CO1	Recollect the fundamental concepts of Visual Basic programming.
CO2	Understand the significance of Visual Basic programming for software development.
CO3	Implement the integration of back end with front end tool using ADO control.
CO4	Analyze flex grid and common controls in database environment.
CO5	Execute the various control structures to create application software.

Course Name : Marketing of Health Services

Course Code : 17PBEBT305

CO1	Remember the marketing plans for service organization.
CO2	Understand the trends in Medicare marketing.
CO3	Apply the marketing mix in a service environment.
CO4	Explain the online health services.
CO5	Evaluate the legal system for marketing of health services.

Course Name : Futures and Options

Course Code : 17PBEBT306

CO1	Remember the fundamentals of derivatives market in India.
CO2	Understand the concept of Index and its significance.
CO3	Apply the rates and nature of contracts.
CO4	Analyse the pay off of futures and options.
CO5	Evaluate the trading methodologies of various exchanges.

Course Name : Institutions Facilitating International Trade

Course Code : 17PBEBT307

CO1	Remember the basic functions and promotions of Export in India.
CO2	Understand the role of RBI and other commercial banks in export.
CO3	Identify the WTO agreements, objectives and procedures.
CO4	Analyze the IMF guidelines for the International trade.
CO5	Evaluate the procedures for availing membership and assistance from financial corporation.

Course Name : Web Designing

Course Code : 17PBEBT308

CO1	Remember the basic terms and concepts used in Internet and Web Designing.
CO2	Understand the internet applications and its features.
CO3	Apply the fundamentals of web designing in website development.
CO4	Analyze the content planning and developing tactics.
CO5	Evaluate the web authoring tools and its features

SEMESTER: IV**Course Name : Core XIV: Investment Management****Course Code : 17PBBCT401**

CO1	Keep in mind the basics of investment.
CO2	Understand the alternative forms of investment.
CO3	Implement the SEBI guidelines in primary and secondary market.
CO4	Analyze the sources of information and economic indicators.
CO5	Review the investor education and protection fund.

Course Name : Core XV: Direct Taxes**Course Code : 17PBBCT402**

CO1	Reminisce the basic terms and concepts used in direct tax.
CO2	Understand the elements relating to income from salary and house property.
CO3	Deploy skills in computation of income from business or profession, capital gains other sources.
CO4	Figure out expertise knowledge in assessment of income and deductions out of total income.
CO5	Selection of ITR forms and filing of returns.

Course Name : Core XVI: Java Programming**Course Code : 17PBBCT403**

CO1	Remember the design and concept of java programming.
CO2	Understand the decision making in java programmes.
CO3	Apply the various dimensional arrays and interfaces in programming.
CO4	Analyze the use of thread concept and its methods.
CO5	Evaluate the applet programming and file handling.

Course Name : Core XVII: Computer Applications in Business: Practical-IV (Java Programming)**Course Code : 17PBBCT404**

CO1	Remember the basic concepts of the Java programming.
CO2	Understand the knowledge of creating own business application packages.
CO3	Implement the programs for generating a solution in real life problems.
CO4	Interpret the concepts to produce output.
CO5	Figure out the results in risky tasks.

Course Name : Travel and Hospitality Services**Course Code : 17PBBCT405**

CO1	Remember the concept of tourism and its nature.
CO2	Understand the concept of tourism in marketing segments.
CO3	Apply the marketing mix in tourism service.
CO4	Analyze the various hospitality services.
CO5	Figure out the marketing information system for product planning and development services industry.

Course Name : Fundamental and Technical Analysis

Course Code : 17PBET406

CO1	Recollect the nature of risk and return.
CO2	Understand the various analyses.
CO3	Apply analysis methods for industry and company.
CO4	Analyse various theories of technical analysis.
CO5	Evaluate the tools for technical analysis.

Course Name : International Trade

Course Code : 17PBET407

CO1	Remember the salient features of foreign trade policy.
CO2	Understand the implications of foreign trade policy.
CO3	Apply the various export services and promotion measures.
CO4	Analyze the Law of protection of Intellectual Property Rights, Patents and Trademarks.
CO5	Evaluate the trade performances and determinants of Export and Import.

Course Name : Cyber Security

Course Code : 17PBET408

CO1	Remember the concepts of cyber crime and IT act 2000.
CO2	Understand the Laws related to Cyber Society.
CO3	Analyze and assess the impact of cybercrime on government, businesses, individuals and society.
CO4	Evaluate the effectiveness of cyber- security and cyber-laws.
CO5	Investigate assumptions about the behaviour and role of offenders and victims in cyberspace, and use basic web-tools to explore behaviour on-line.

Course Name : Core XVIII: Project Work

Course Code : 17PBBCV409

CO1	Formulate the Research Project with aims and goals.
CO2	Interpret the major problems and obstacles to overcome in completing project.
CO3	Identify project methodology and project milestones.
CO4	Conduct a thorough literary survey for research project and write a report presentation.
CO5	Construct the project by implementing the methodology.

Programme Title: B.Com (CSCA)

Programme Outcomes: At the end of the programme the students will be able to

PO Number	PO Statement
PO1	Critical Thinking: Take informed actions after identifying the assumptions that frame our thinking and actions, checking out the degree to which these assumptions are accurate and valid, and looking at our ideas and decisions (intellectual, organizational, and personal) from different perspectives.
PO2	Effective Communication: Speak, read, write and listen clearly in person and through electronic media in English and in one Indian language, and make meaning of the world by connecting people, ideas, books, media and technology.
PO3	Social Interaction: Elicit views of others, mediate disagreements and help reach conclusions in group settings.
PO4	Effective Citizenship: Demonstrate empathetic social concern and equity centered national development, and the ability to act with an informed awareness of issues and participate in civic life through volunteering.
PO5	Ethics: Recognize different value systems including your own, understand the moral dimensions of your decisions, and accept responsibility for them.
PO6	Environment and Sustainability: Understand the issues of environmental contexts and sustainable development.
PO7	Self-directed and Life-long Learning: Acquire the ability to engage in independent and life-long learning in the broadest context socio technological changes

Programme Specific Outcomes: After the successful completion of B.Com (CS CA) programme, students will be equipped with the knowledge in

PSO Number	PSO Statement
PSO1	The area of corporate governance.
PSO2	The field of various Laws and use of digital technology.
PSO3	Accounting system and its applications by use of IT tools.

SEMESTER: I**Course Name: Core I: Financial Accounting -I****Course Code: 17UAFCT101**

CO1	Remember the accounting concepts and conventions.
CO2	Understand about subsidiary books and Errors Rectification.
CO3	Gain knowledge on final accounts and Bank Reconciliation Statement.
CO4	Analyze the bill of exchange and Average due date and Account current.
CO5	Gain exposure in the final accounts of Non Trading Concerns.

Course Name:- Core II: Computer Applications in Corporate Office.**Course Code: 17UAFCT102**

CO1	Remember the basic concepts of Computer
CO2	Understand the knowledge of MS word.
CO3	Apply the formula for entering in worksheet.
CO4	Gain knowledge about creation of power point.
CO5	Enrichment about MS Access.

Course Name:- Allied Course I: Principles of Management**Course Code: 17UAFAT103**

CO1	Understand the basic principles and theories of management.
CO2	Gain knowledge on planning and decision making.
CO3	Acquire knowledge on organization and delegation of authorities
CO4	Familiarize with direction and supervision of management.
CO5	Evaluate the need of co-ordination and controlling techniques.

Name: Environmental Studies**Course Code: 17ES01**

CO1	Understand the different types of eco systems(Understand).
CO2	Identify the different types of land and energy resources(Remember).
CO3	Acquire the concept of biodiversity and its conservation(Apply).
CO4	Develop awareness against disaster management(Create).
CO5	Attain exposure to environmental policies(Apply).

SEMESTER: II**Course Name:- Core III: Financial Accounting-II****Course Code: 17UAFCT201**

CO1	Remember the accounting Procedure for Consignment.
CO2	Understand the accounting methods for Depreciation.
CO3	Acquire knowledge about Hire Purchase and Installment System of Accounting.
CO4	Gain Exposure on Accounting Treatment for Admission, Retirement and Death of a Partner.
CO5	Enrichment about Dissolution and Insolvency of Partnership.

Course Name:- Core IV: Computer practical-I (MS Office)

Course Code: 17UAFCP202

CO1	Acquire knowledge on text alignment and preparation of bio-data.
CO2	Familiarize with the preparation of Financial Statement and charts by using Ms-Excel.
CO3	Gain exposure on presentation of slides.
CO4	Understand the preparation of employee data base and student data base.
CO5	Gain exposure on creating an invoice for the product.

Course Name:- Allied Course II- Banking Law & Practice

Course Code: 17UAFAT203

CO1	Understand the basic concepts of Banking and functions of RBI.
CO2	Gain knowledge about banking system in India.
CO3	Understand the various types of customers.
CO4	Evaluate the various types of bank accounts.
CO5	Gain exposure on various types of crossing of cheques.

Course Name: Foundation Course II: Value Education

Course Code: 17VE01

CO1	Define the Dimensions of Value System [Remember]
CO2	Build their personality in physical, mental, emotional and spiritual aspects [Apply]
CO3	Outline the benefits of sharing ideas and concern for the family members [Understand]
CO4	Identify the Vocational Problems and the solutions [Apply]
CO5	Examine the pull factors of social evils and identify the ways to eradicate them [Analyze]

SEMESTER: III

Course Name: CORE PAPER – V CORPORATE ACCOUNTING - I

Course Code: 17UAFCT301

CO1	Remember the accounting procedures for Issue of shares.
CO2	Understand the application of redemption of Preference Shares and Debentures.
CO3	Apply the underwriting procedures for Shares and Debentures.
CO4	Analyze the financial statements of the corporate as per accounting standards.
CO5	Evaluate the value of goodwill and shares of company.

Course Name:- CORE VI: COMPANY LAW AND SECRETARIAL PRACTICE - I

Course Code: 17UAFCT302

CO1	Understand the characteristics and different types of Companies.
CO2	Understand the provisions regarding incorporation of public limited company.
CO3	Know the contents of Articles of Association and know about the Prospectus.
CO4	Gain knowledge on the concept of share capital.
CO5	Acquire knowledge about the role of Company Secretary.

Course Name: CORE PAPER VII: BUSINESS LAW**Course Code: 17UAFCT303**

CO1	Familiar with various types components of contract.
CO2	Learn the basic principles of law that apply to business and business transactions.
CO3	Procure familiarity in various kinds of agents and their terminations
CO4	Gain exposure on Indian Partnership Act.
CO5	Acquire knowledge on Common Carriers and Sale of Goods Act.

Course Name: Core VIII:DATABASE MANAGEMENT SYSTEM**Course Code: 17UAFCT304**

CO1	Cognizant with the basic concept of DBMS.
CO2	Apprehend the different types of Databases.
CO3	Acquainted with the Knowledge in ER Model.
CO4	Exposure in Database security.
CO5	Comprehend the current topics of DBMS and KBMS.

Course Name: NON MAJOR ELECTIVE – I COMPANY LAW**Course Code: 17UAFNT307**

CO1	Knowledge on the concepts and characteristics of a company and the Company Secretary's ro
CO2	Understand the classifications of companies.
CO3	Apprehend the provisions regarding incorporation of public limited company.
CO4	Exercise cognition on Memorandum and Articles of Association.
CO5	Know the kinds and provisions relating to meeting.

Course Name: SKILL BASED COURSE1: MARKETING MANAGEMENT**Course Code: 17UAFST306**

CO1	Understand the basic concept of Marketing.
CO2	Be familiar with the knowledge of market segmentation.
CO3	Gain exposure on development of new products and product life cycle.
CO4	Acquire knowledge on pricing and promotion strategies.
CO5	Cognizant with various distribution channels of marketing.

SEMESTER: IV**Course Name: CORE PAPER – IX CORPORATE ACCOUNTING - II****Course Code: 17UAFCT401**

CO1	Remember the accounting procedures for amalgamation and absorption methods.
CO2	Understand the external and internal reconstruction framework of companies.
CO3	Apply the norms and regulations of banking companies as per Banking Regulation Act.
CO4	Analyze the financial statements of Insurance companies as per IRDA regulations.
CO5	Evaluate the legal requirements and preparation of consolidated balance sheet of holding company.

Course Name: CORE X: COMPANY LAW AND SECRETARIAL PRACTICE - II**Course Code: 17UAFCT402**

CO1	Familiar with the provisions relating to Company Management.
CO2	Acquire knowledge on borrowing powers of board of directors.
CO3	Know the provisions relating to meeting.
CO4	Understand the provisions relating to resolutions and dividend.
CO5	Identify the provisions relating to winding up.

Course Name: Core XI- Programming in C**Course Code: 17UAFCT403**

CO1	Understand the basic structure of C programming.
CO2	Gain knowledge on the concept of various decision making statements.
CO3	Exposure on create and manipulate arrays.
CO4	Cognizance with structures and pointers.
CO5	Gain Exposure on write programs and perform the file management.

Course Name: Core XII: COMPUTER PRACTICAL –II(TALLY & C PROGRAMMING)**Course Code: 17UAFCP404**

CO1	Gain exposure and to get large employment opportunities.
CO2	Acquire skills in computerized accounting procedures.
CO3	Cognizant with the ability to use a Accounting system, to create the data needed to solve the variety of business problems.
CO4	Possess knowledge in C Programming.
CO5	Gain knowledge of design, develop, and maintain C Programming.

Course Name: NON MAJOR ELECTIVE – II PRACTICAL BANKING**Course Code: 17UAFNT407**

CO1	Understand the basic concepts of banking and functions of RBI.
CO2	Realize the relationship between the banker and the customer.
CO3	Understand the various types of customers.
CO4	Know the different types of accounts.
CO5	Gain exposure on various types of crossing of cheques.

Course Name: Skill based Subject 2 – HUMAN RESOURCE MANAGEMENT**Course Code: 17UAFST406**

CO1	Understand the functions of Human Resource Management.
CO2	Familiar with importance of Human Resource Planning and Techniques.
CO3	Acquire knowledge on Recruitment and Selection process.
CO4	Exposure on placement and Induction Programme.
CO5	Possess knowledge about the incentive plan and welfare of Employees.

Course Name: ALC: General and Economic Laws

Course Code: 17UAFAL408

CO1	Understand the fundamental rights and types of rights.
CO2	Gain knowledge on concept of partnership firm.
CO3	Acquire knowledge about the arbitration and its procedures.
CO4	Understand the Salient features of Micro Small and Medium Enterprises.
CO5	Understand the awareness of Money laundering.

Course Name: ALC: Entrepreneurship and Small Business Management

Course Code: 17UAFAL409

CO1	Understand the Concept of entrepreneur.
CO2	Gain knowledge in theories of motivation and entrepreneurial behavior.
CO3	Understand the vital role of women entrepreneur for rural development.
CO4	Acquire knowledge on the concept of small scale industries.
CO5	Familiar with Project Formulation and Project Feasibility

SEMESTER : V

Course Name: CORE PAPER –XIII COST ACCOUNTING

Course Code: 17UAFCT501

CO1	Remember the cost concepts and able to prepare cost sheets.
CO2	Understand various levels and able to find out value of closing stock after material issued.
CO3	Apply the methods of labour turnover and system of wage payment.
CO4	Analyse the allocation, apportionment and absorption methods.
CO5	Evaluate the contract and process accounts.

Course Name: Core XIV:Direct Taxes

Course Code: 17UAFCT502

CO1	Remember the scope of income of residents.
CO2	Understand the provisions relating to salary income and house property income.
CO3	Apply the provisions to evaluate business and professional income.
CO4	Analyze the deductions under gross total income.
CO5	Evaluate the aggregate income and tax liability of individual.

Course Name: Core XV:- Industrial Law

Course Code: 17UAFCT503

CO1	Familiarize with the provisions relating to Factories Act.
CO2	Understand the Industrial disputes and Authorities for Settlement.
CO3	Acquire knowledge about the provisions for Wages and Bonus.
CO4	Gain Knowledge on Distribution of Compensation.
CO5	Gain exposure on benefits to employees.

Course Name: Core XVI: Corporate Finance

Course Code: 17UAFCT504

CO1	Acquire knowledge in corporate finance.
CO2	Understand the principles of sound financial plan.
CO3	Evaluate the concept of cost of capital.
CO4	Familiarize with leverage and capital structure.
CO5	Gain exposure on management of cash, receivables and inventories.

Course Name: ELECTIVE – I VISUAL BASIC(Theory)

Course Code: 17UAFET505

CO1	Understand the VB applications and create a new application
CO2	Apply various controls in VB forms.
CO3	Gain knowledge on applications with menus
CO4	Analyse VB programs with control structures
CO5	Evaluate using of built –in functions and general functions in VB applications

Course Name: Elective I -MANAGEMENT INFORMATION SYSTEM

Course Code: 17UAFET506

CO1	Gain knowledge about principles and functions of Management Information System.
CO2	Understand the mechanisms of communication methods.
CO3	Familiar with development of client Server system.
CO4	Analyze the mechanism of information system and its implications.
CO5	Evaluate the computation of system management.

Course Name: ELECTIVE-I BUSINESS ENVIRONMENT

Course Code: 17UAFET507

CO1	Remember the nature and scope of Environment.
CO2	Understand different strategy used in Business Environment
CO3	Apply the knowledge acquired on Policy Environment process.
CO4	Analyses the knowledge on placement and Global Environment Programme.
CO5	Evaluate the concept of FDI Environment.

Course Name: Skill Based 3 – Entrepreneurial Development

Course Code: 17UAFST508

CO1	Remember the characteristics and functions of Entrepreneurship.
CO2	Understand the concepts of Project Management.
CO3	Apply the Growth of Entrepreneurship Development Programmes.
CO4	Analyze the Project formulation and preparation of a project Report.
CO5	Evaluate the source of Institutional finance supporting projects.

Course Name: ALC : PERFORMANCE MANAGEMENT

Course Code: 17UAFAL509

CO1	Remember the overview of performance management.
CO2	Understand the theory of performance management.
CO3	Know about the mechanics of performance management planning and documentation.
CO4	Evaluate the methods of performance appraisal.
CO5	Gain Exposure on feedback of appraisal.

Course Name: ALC : BUSINESS ANALYSIS

Course Code: 17UAFAL510

CO1	Remember the concept of business analysis.
CO2	Know about Strategy analysis.
CO3	Acquire knowledge on Investigation techniques.
CO4	Understand the knowledge on Stakeholder analysis and management.
CO5	Gain Exposure on business process and business Architecture.

SEMESTER : VI

Course Name: Core XVII:- Management Accounting

Course Code: 17UAFCT601

CO1	Understand the Management accounting concepts and its purpose
CO2	Analyse the various types of ratios
CO3	Evaluate the Concept of working capital.
CO4	Remember the marginal costing techniques.
CO5	Apply the knowledge acquired for preparation of Budgets.

Course Name: Core XVIII:- Indirect Taxes

Course Code: 17UAFCT602

CO1	Remember the nature of taxation system in India.
CO2	Understand the strength, threats, opportunities and challenges of GST
CO3	Apply the GST law comprehensively in a concise manner.
CO4	Analyze the liabilities and input tax credit adjustments in filing GST returns
CO5	Evaluate the e-way bills in a clear and lucid manner.

Course Name: Core XIX:- Economic and other Legislations

Course Code: 17UAFCT603

CO1	Remember the concepts of prevention of money laundering
CO2	Understand the provisions of Essential commodities Act
CO3	Gain exposure on transfer of property laws
CO4	Familiarize with Stamp Act provisions
CO5	Evaluate and understand the provisions relating to registration of property.

Course Name: Elective - II: Internet and E-Commerce

Course Code: 17UAFET604

CO1	Remember the word processing terminology and concepts.
CO2	Understand the format of Internet addressing.
CO3	Apply the mechanism of Electronic commerce technologies.
CO4	Analyze the several functions of EDI and to build appropriate function suitable for evaluating the data.
CO5	Evaluate the system analysis and design.

Course Name: Elective - II: Corporate Governance

Course Code: 17UAFET605

CO1	Remember the principles of corporate Governance
CO2	Understand annual report preparation.
CO3	Perceive the cost of capital and capital structure.
CO4	Remember the Distribution of decision and control rights in corporate governance.
CO5	Understand the Impact of corporate governance in India.

Course Name: Elective-II Financial Services

Course Code: 17UAFET606

CO1	Understand the Financial market in India.
CO2	Gain knowledge on National Stock Exchange.
CO3	Familiarize with Classifications of mutual funds.
CO4	Understand the credit rating agencies in India and rating methodology.
CO5	Gain exposure on Financial Derivatives and features of Derivative Instrument.

Course Name: ELECTIVE – III VISUAL BASIC (Practical)

Course Code: 17UAFEP607

CO1	Design and develop VB applications with format functions and mathematical logic
CO2	Develop VB program to calculate percentage and simple interest
CO3	Design a VB application to perform arithmetic operations and display advertisement.
CO4	Develop a VB application to generate payroll and average the names in alphabetical order
CO5	Design a VB program that was string functions and menus.

Course Name: Elective-III Drafting and Conveyance

Course Code: 17UAFET608

CO1	Understand the purpose of Drafting and Conveyances.
CO2	Analyse the various types of deeds and documents
CO3	Evaluate the drafting of mortgage deed.
CO4	Remember the deeds related to business.
CO5	Apply the knowledge acquired and preparation of MOA and AOA.

Course Name: Elective - III: Investment Management

Course Code: 17UAFET609

CO1	Gain knowledge of investments.
CO2	Analyze the various kinds of risk and returns of investments.
CO3	Familiarize with various investment alternatives.
CO4	Evaluate the process of portfolio management.
CO5	Gain exposure on portfolio selection and revision.

Course Name: Skill Based Course 4:Practical Auditing

Course Code: 17UAFST610

CO1	Identify the responsibilities of auditor and the purpose of audit.
CO2	Perceive the theoretical knowledge of audit planning.
CO3	Gain Exposure to audit environment and specialized audits.
CO4	Comprehend knowledge of verification and Valuation of Balance sheet items.
CO5	Exposure to Investigation and audit.

Programme Title: B.COM(Professional Accounting)

Programme Outcomes: At the end of the programme, the students will be able to

PO Number	PO Statement
PO1	Critical Thinking: Take informed actions after identifying the assumptions that frame our think and actions, checking out the degree the degree to which these assumptions are accurate and va and looking at our ideas and decisions (intellectual, organizational, and personal) from differe perspectives.
PO2	Effective Communications: Speak, read, write and listen clearly in person and through electron media in English and in one Indian language and make meaning of the world by connecting people, ideas, books, media and technology.
PO3	Social Interaction: Elicit views of others, mediate disagreements and help reach conclusions group settings.
PO4	Effective Citizenship: Demonstrate empathetic social concern and equity centered national development, and the ability to act with an informed awareness of issues and participate in civic life through volunteering.
PO5	Ethics: Recognize different value systems including your own, understand the moral dimension of your decisions, and accept responsibility for them.
PO6	Environment and Sustainability: Understand the issues of environmental contexts and sustainab development.
PO7	Self - directed and Life-long Learning: Acquire the ability to engage in independent and life-lo learning in the broadest context socio-technological changes.

Programme Specific Outcomes: At the end of the programme, students will be equipped with the Knowledge in

PSO Number	PSO Statement
PSO1	The field of accounting, auditing and reporting.
PSO2	Professional ethics and legal compliance.
PSO3	Applying appropriate digital technologies.

SEMESTER: I**Course Name: Core I:Financial Accounting-I****Course Code: 17UAGCT101**

CO1	Remember the accounting concepts and conventions
CO2	Understand about subsidiary books and Errors Rectification.
CO3	Gain knowledge on final accounts and Bank Reconciliation Statement.
CO4	Analyze the bill of exchange, Average due date and Account current.
CO5	Gain exposure the final accounts of Non Trading Concerns.

Course Name: Core II – Mercantile Law**Course Code: 17UAGCT102**

CO1	Remember the Indian Contract Act,1972
CO2	Understand the various modes in Discharge of Contract.
CO3	Gain exposure on Principal and Agent.
CO4	Familiarize with the Indian Partnership Act, 1932.
CO5	Exhibit exposure in Sale of Goods Act, 1930

Name: Environmental Studies**Course Code: 17ES01**

CO1	Understand the different types of eco systems(Understand).
CO2	Identify the different types of land and energy resources(Remember).
CO3	Acquire the concept of biodiversity and its conservation(Apply).
CO4	Develop awareness against disaster management(Create).
CO5	Attain exposure to environmental policies(Apply).

SEMESTER: II**Course Name: Core III: Financial Accounting-II****Course Code: 17UAGCT201**

CO1	Remember the accounting Procedure for Consignment.
CO2	Understand the accounting methods for Depreciation.
CO3	Acquire knowledge about Hire Purchase and Installment System of Accounting.
CO4	Gain Exposure on Accounting Treatment for Admission, Retirement and Death of a Partner.
CO5	Enrichment about Dissolution and Insolvency of Partnership.

Course Name: Core-IV: Computer Applications Practical –I (Ms- Office)

Course Code: 17UAGCP202

CO1	Acquire knowledge on text alignment and preparation of bio-data.
CO2	Familiarize with the preparation of Financial Statement and charts by using Ms-Excel.
CO3	Gain exposure on presentation of slides
CO4	Understand the preparation of employee data base and student data base.
CO5	Gain exposure on creating an invoice for the product.

Course Name: Foundation Course II: Value Education

Course Code: 17VE01

CO1	Define the Dimensions of Value System [Remember]
CO2	Build their personality in physical, mental, emotional and spiritual aspects [Apply]
CO3	Outline the benefits of sharing ideas and concern for the family members [Understand]
CO4	Identify the Vocational Problems and the solutions [Apply]
CO5	Examine the pull factors of social evils and identify the ways to eradicate them [Analyze]

SEMESTER: III

Course Name: Core-V: Corporate Accounting-I

Course Code: 17UAGCT301

CO1	Remember the accounting procedures for Issue of shares.
CO2	Understand the application of redemption of Preference Shares and Debentures.
CO3	Apply the underwriting procedures for Shares and Debentures.
CO4	Analyze the financial statements of the corporate as per accounting standards.
CO5	Evaluate the value of goodwill and shares of company.

Course Name: Core-VI: Principles of Auditing

Course Code: 17UAGCT302

CO1	Gain exposure about auditing and role of auditors in business.
CO2	Exhibit exposure of the steps involved in the audit planning and audit control in the management.
CO3	Demonstrate the knowledge of internal, external audit control and Vouching.
CO4	Exhibit knowledge in Verification and Valuation of Assets and Liabilities.
CO5	Analyze about various concepts of Reserves.

Course Name: Core-VII: Company Law**Course Code: 17UAGCT303**

CO1	Know the Kinds of companies.
CO2	Acquired knowledge on Memorandum & Articles of Association.
CO3	Enrich their knowledge in prospectus.
CO4	Identify key managerial personnel of the company.
CO5	Demonstrate the understanding of kinds of meetings.

Course Name: Core-VIII: Business Law Ethics and Communication**Course Code: 17UAGCT304**

CO1	Procure knowledge on Limited Liability Partnership Act.
CO2	Understand about the computerized environment in Company Law.
CO3	Promote the Ethical Behaviour in Business Environment
CO4	Understand effects of pollution and Resource Depletion in business Environment
CO5	Learn to build an innovation friendly organization.

Course Name: Allied Course III :Managerial Economics**Course Code: 17UAGAT305**

CO1	Understand the basic theories of managerial economics and decision making and forecasting planning.
CO2	Identify the determinants of the utility and demand analysis.
CO3	Understand to calculate the production analysis and cost decisions making.
CO4	Understand the major characteristics of different market structures and the implications of degrees of competition in a market on firms pricing and output decisions.
CO5	Analyze the different costs in the product and study the long run and short run relationship of costs as well as of wages, interest and profit in day to day running of business.

Course Name: Skill Based course-I: Human Resource Management**Course Code: 17UAGST306**

CO1	Demonstrate an understanding of functions of Human Resource Management.
CO2	Understand the different tools used in Forecasting and Planning Human Resource needs.
CO3	Acquire knowledge on Recruitment and Selection process.
CO4	Gain knowledge on employee development programs.
CO5	Understand about incentive plan and welfare of Employees.

Course Name: Non Major Elective –I Fundamentals of Accounting**Course Code: 17UAGNT307**

CO1	Understand the basic concepts and golden rules of accounting.
CO2	Develop the ability to use a basic accounting system.
CO3	Acquire Knowledge about the subsidiary books.
CO4	Understand the preparation of financial statements .
CO5	Acquire knowledge in Bank reconciliation statement.

SEMESTER: IV**Course Name: Core-IX: Corporate Accounting-II****Course Code: 17UAGCT401****Course Outcomes (CO): On completion of the course, students should be able to**

CO1	Remember the accounting procedures for amalgamation and absorption methods.
CO2	Understand the external and internal reconstruction framework of companies.
CO3	Apply the norms and regulations of banking companies as per Banking Regulation Act.
CO4	Analyze the financial statements of Insurance companies as per IRDA regulations.
CO5	Evaluate the legal requirements and preparation of consolidated balance sheet of holding company.

Course Name: Core-X: Advanced Auditing and Professional Ethics**Course Code: 17UAGCT402**

CO1	Acquire knowledge in auditing of various institutions.
CO2	Understanding the usefulness of cost audit and discuss the concepts of management audit.
CO3	Identify knowledge about the rights and duties of company auditor.
CO4	Demonstrate the specialized audit about various companies.
CO5	Understand professional knowledge and ethics in auditing

Course Name: Core-XI: Corporate laws**Course Code: 17UAGCT403**

CO1	Know about Rights of Consumers and Concept of Competition Act
CO2	Understanding the Regulation and Management of Foreign Exchange.
CO3	Acquire knowledge on prevention and control of Pollution.
CO4	Understanding the functions of SEBI.
CO5	Gain knowledge on Trade Mark and Copyright

Course Name: Core-XII: Computer Applications Practical –II(Tally & C++)**Course Code: 17UAGCP404**

CO1	Prepare books of Accounts and balance sheet
CO2	Acquire skills in computerized accounting procedures.
CO3	Enhance the knowledge in C++.
CO4	Apply various Accounting formulas.
CO5	Develop and maintain Objects.

Course Name: Allied Course IV :Strategic Management and Business Policy
Course Code: 17UAGAT405

CO1	Demonstrate the basic concepts about strategic management and strategy tactics and describe the management forces, social responsibility and social audit.
CO2	Demonstrate the formulation that needs the classification points that need approaches makes relation to value chain Analysis.
CO3	Demonstrate the major approaches in BCG Matrix and corporate level generic strategies.
CO4	Demonstrate the role of top management process and explain the key elements of a four routes of competitive advantages.
CO5	Demonstrate the strategic evaluation of quantitative and qualitative factors and process.

Course Name: Skill Based course-II: Principles of Marketing
Course Code: 17UAGST406

CO1	To understand the basic concept of marketing.
CO2	Gain exposure on development of new products and pricing
CO3	Acquire knowledge on promotion strategies.
CO4	Acquire knowledge on Advertising the products.
CO5	Understand the various distribution channels.

Course Name: Non Major Elective –II Practical Auditing
Course Code: 17UAGNT407

CO1	Learn the role of auditing in business.
CO2	Understanding the steps involved in the audit of accounts and practical implementation auditing in business world.
CO3	Possess knowledge on verification and valuation of various assets and liabilities.
CO4	Familiarize with provisions of the companies act relating to the appointment, conduct and liabilities of an auditor.
CO5	Understanding the fundamental audit concepts in Specialised Audit

SEMESTER : V

Course Outcomes (CO): On completion of the course, students should be able to
Course Name: Core-XIII :Cost Accounting
Course Code: 17UAGCT501

CO1	Remember the cost concepts and able to prepare cost sheets.
CO2	Understand various levels and able to find out value of closing stock after Material issued.
CO3	Apply the methods of labour turnover and system of wage payment.
CO4	Analyse the allocation, apportionment and absorption methods.
CO5	Evaluate the contract and process accounts.

Course Name: Core-XIV : Direct Taxes

Course Code: 17UAGCT502

CO1	Remember the scope of income of residents.
CO2	Understand the provisions relating to salary income and house property income.
CO3	Apply the provisions to evaluate business and professional income.
CO4	Analyze the deductions under gross total income.
CO5	Evaluate the aggregate income and tax liability of individual.

Course Name: Core-XV: Information System Control and Audit

Course Code: 17UAGCT503

CO1	Understand the mechanism of management information system.
CO2	Evaluate the process of System Development Life Cycle.
CO3	Gain knowledge about IS Auditor and process.
CO4	Acquire knowledge in IRDA and its function.
CO5	Evaluate the system of Emerging Technologies.

Course Name: Core-XVI: Organisational Behaviour

Course Code: 17UAGCT504

CO1	Remember the theories of Organizational Behaviour.
CO2	Understand the concept of Perception, motivation and morale.
CO3	Gain knowledge about Attitudes and Values.
CO4	Analyze the Group dynamics and Group behaviour.
CO5	Evaluate the Leadership style and types of Counselling

Course Name: Elective-I Cyber Law

Course Code: 17UAGET505

CO1	Remember the basic provisions of law in E Commerce.
CO2	Understand the legal provisions relating to Data Security.
CO3	Apply the procedures of evidence in laws.
CO4	Analyze the various kinds of EDI Mechanism.
CO5	Evaluate the process of e-governance and its authentication.

Course Name: Elective-I – Investment Management

Course Code: 17UAGET506

CO1	Gain knowledge of investments.
CO2	Analyze the various kinds of risk and returns of investments.
CO3	Enrich their knowledge of investment alternatives.
CO4	Acquire knowledge of Investment Company, venture capital and merchant banking.
CO5	Familiarize with financial derivatives.

Course Name: Elective-I Business Management

Course Code: 17UAGET507

CO1	Understand the basic principles and theories of management.
CO2	Gain knowledge on planning and decision making.
CO3	Acquire knowledge on organization and delegation of authorities.
CO4	Familiarize with direction and supervision of management.
CO5	Evaluate the need of co-ordination and controlling techniques.

Course Name: Skill Based course-III: Corporate Communication

Course Code: 17UAGST508

CO1	Comprehend about knowledge of communication.
CO2	Remember the principles of communication.
CO3	Understand the objectives of brand promotion.
CO4	Perceive the different types of reports.
CO5	Gain exposure in presentation.

SEMESTER : VI

Course Outcomes (CO): On completion of the course, students should be able to

Course Name: Core-XVII :Management Accounting

Course Code: 17UAGCT601

CO1	Understand the Management accounting concepts and its purpose.
CO2	Analyse the various types of ratios.
CO3	Evaluate the Concept of working capital.
CO4	Remember the marginal costing techniques.
CO5	Apply the knowledge acquired for preparation of Budgets.

Course Name: Core-XVIII: Indirect Taxes

Course Code: 17UAGCT602

CO1	Remember the nature of taxation system in India.
CO2	Understand the strength, threats, opportunities and challenges of GST.
CO3	Apply the GST law comprehensively in a concise manner.
CO4	Analyze the liabilities and input tax credit adjustments in filing GST returns.
CO5	Evaluate the e-way bills in a clear and lucid manner.

Course Name: Core-XIX: Financial Management**Course Code: 17UAGCT603**

CO1	Acquire knowledge in financial management.
CO2	Understand the principles of sound financial plan.
CO3	Evaluate the concept of cost of capital.
CO4	Familiarize with leverage and capital structure.
CO5	Gain exposure on management of cash, receivables and inventories.

Course Name: Elective-II – Financial Reporting**Course Code: 17UAGET604**

CO1	Understand the Purpose and Importance of Financial Reporting.
CO2	Familiarize with the Compliance of Accounting Standards.
CO3	Acquire knowledge about financial statement.
CO4	Gain exposure on Analysing and Interpreting the Financial Statements
CO5	Understand the Advantages of Adopting IFRS.

Course Name: Elective-II – Security Analysis and Portfolio Management**Course Code: 17UAGET605**

CO1	Understand the basic concept of financial market.
CO2	Gain knowledge of stock exchange regulations.
CO3	Remember the techniques of analysis.
CO4	Evaluate the process of portfolio management.
CO5	Gain exposure on portfolio revision.

Course Name: Elective-II Entrepreneurial Development**Course Code: 17UAGET606**

CO1	Remember the concept and growth of entrepreneurship in India.
CO2	Understands the course content and curriculum of EDPs.
CO3	Apply the characteristics relationship between Micro and Macro enterprises.
CO4	Analyze the Institutional Support to small Entrepreneurs.
CO5	Evaluate the Export Business and processing of an export order.

Course Name: Elective-III - International Business**Course Code: 17UAGET607**

CO1	Remember the concepts of international business.
CO2	Understand the procedures and policies of foreign trade.
CO3	Know about intergovernmental organisation that regulates international trade.
CO4	Evaluate the implications of international marketing and its promotional strategies.
CO5	Gain Exposure on International financial management.

Course Name: Elective-III - Logistics Management

Course Code: 17UAGET608

CO1	Remember the overview and role of logistics.
CO2	Understand the concept of containers and its types.
CO3	Apply Liner Consortium agreements.
CO4	Analyse about air cargo business.
CO5	Evaluate the trends and technology in logistics.

Course Name: Elective-III –Office Management

Course Code: 17UAGET609

CO1	Understand the principles of office management.
CO2	Remember the importance of office Layout.
CO3	Know about filing system and methods.
CO4	Analyze and apply communication system.
CO5	Evaluate the office forms and Reports.

Course Name: Core 3: Banking and Insurance Law

Course Code: 17UAGST610

CO1	Understand the basic concepts of banking and functions of RBI.
CO2	Realize the relationship between banker and customer and understand the various types of accounts.
CO3	Understand the various types of customers
CO4	Gain knowledge on Insurance System
CO5	Evaluate the IRDA and its function.

Course Name: Foundation Course II: ALC :Accounting And Finance

Course Code: 17UAGAL408

CO1	Understand the basic accounting functions and classification of accounts.
CO2	Know the leasing formalities and status of lessor and lessee.
CO3	Understand the knowledge about responsibility accounting and inflation accounting.
CO4	Acquire knowledge about scope and functions of Finance and Financial Managers role
CO5	Gain knowledge about the value of money and present value of Cash Flow.

Course Name: Core 2 – ALC:International Trade

Course Code: 17UAGAL409

CO1	Understand the nature and scope of international trade.
CO2	Gain knowledge on the effect of growth of trade and welfare of small and large country
CO3	Acquire knowledge on Dumping and its effects.
CO4	Gain exposure on foreign exchange market and control measures.
CO5	Understand the International Liquidity and its trend.Remember the Indian Contract Act

Course Name: ALC :Database Management System

Course Code: 17UAGAL509

CO1	Cognize with the basic concepts of DBMS.
CO2	Perceive the different types of ER Models and Files.
CO3	Acquire Knowledge on Normal forms.
CO4	Gain Exposure in Database security
CO5	Comprehend about Knowledge Base Management System

Course Name: ALC :Production And Material Management

Course Code: 17UAGAL510

CO1	Understand the Functions of Production Management.
CO2	Analyse the various Production Planning and Control
CO3	Gain Knowledge about Material Handling.
CO4	Familiarize with Inventory and Tools.
CO5	Acquire Knowledge of Quality Control.

Programme Title: B.Sc Biochemistry

Programme Outcomes : At the end of the programme, students will be able to

PO Number	PO Statement
PO1	Critical Thinking: Take informed actions after identifying the assumptions that frame our thinking and actions, checking out the degree to which these assumptions are accurate and valid, and looking at our ideas and decisions (intellectual, organizational and personal) from different perspectives.
PO2	Effective Communication: Speak, read, write and listen clearly in person and through electronic media in English and in one Indian language and make meaning of the world by connecting people, ideas, books, media and technology.
PO3	Social Interaction: Elicit views of others, mediate disagreements and help reach conclusions in group settings.
PO4	Effective Citizenship: Demonstrate empathetic social concern and equity centered national development, and the ability to act with an informed awareness of issues and participate in civic life through volunteering.
PO5	Ethics: Recognize different value systems including your own, understand the moral dimensions of your decisions, and accept responsibility for them.
PO6	Environment and Sustainability: Understand the issues of environmental contexts and sustainable development.
PO7	Self-directed and Life-long Learning: Acquire the ability to engage in independent and life-long learning in the broadest context socio-technological changes.

Programme Specific Outcomes: At the end of the programme, students will be equipped with the Knowledge in

PSO Number	PSO Statement
PSO 1	Comprehend the fundamental Biochemical principles and multiple important technical areas of Biochemistry.
PSO 2	To apply contextual knowledge and modern tools of Biochemical research for solving problems
PSO 3	Understanding the impact of Biochemistry on Environment, Society and other cultures outside the Scientific community

SEMESTER: I**Course Name: Core I: Biomolecules****Course Code: 17UAPCT101**

CO1	Gain the fundamental knowledge about the importance of sugar molecules.
CO2	Acquire the significance of lipids in our body.
CO3	Get familiarized with the structure of amino acids, formation of peptide bonds and protein architecture.
CO4	Able to understand the structure and properties of DNA and RNA.
CO5	Attain the sources, function and deficiency symptoms of Vitamins and Minerals.

Course Name: Core II: Cell Biology**Course Code: 17UAPCT102**

CO1	Describe the levels of organization and related functions in prokaryotes and eukaryotes.
CO2	Gain knowledge with the structure and transport of molecules across biological membrane.
CO3	Acquire emphasized understanding with the structure and functions of Cell organelles.
CO4	Got a relationship between cellular and genetic organization and biological functions
CO5	Explain the process of cell division and gain an outline idea about the cancer biology.

Course Name: Core Biochemistry Practicals - I**Course Code: 17UAPCP202**

CO1	Exhibit Knowledge on the biochemical calculations.
CO2	Learn the pH measurement techniques for buffer.
CO3	Acquire practical exposure with chromatographic techniques.
CO4	Develop laboratory skills required for a qualitative analysis of Carbohydrates and Lipids.
CO5	Get practical exposure with Amino acids and Lipid analysis qualitatively.

Course Name: Allied I: Chemistry - I**Course Code: 17UAPAT103**

CO1	Predict atomic structure, chemical bonding or molecular geometry based on accepted Models
CO2	Provide broad foundation about the merits and demerits of polymers.
CO3	Acquire an idea about the chemical bonding, polar bond and stereoisomerism.
CO4	Integrate the chemical reactions for fertilizers and usage of insecticides and pesticides
CO5	Understand the principles of kinetics and thermodynamics as applied to rates and equilibrium positions of chemical reactions.

Course Name: Allied Practicals I: Chemistry**Course Code: 17UAPAP204**

CO1	Attain knowledge for the preparing normal solution.
CO2	Develop handling procedure of glass wares and accurate chemical laboratory skill.
CO3	Able to estimate the acid and base solutions volumetrically.
CO4	Learns the methods of organic analysis.
CO5	Get a distinguished idea about organic compounds.

Course Name: Foundation Course I: Environmental Studies**Course Code: 17ES01**

CO1	Understand the different types of ecosystems (Understand).
CO2	Identify the different types of land and energy resources (Remember).
CO3	Acquire the concepts of biodiversity and its conservation (Apply).
CO4	Develop awareness against disaster management (Create).
CO5	Attain exposure to environmental policies (Apply).

SEMESTER: II**Course Name: Core III - Biomedical Instrumentation****Course Code: 17UAPCT201**

CO1	Demonstrate an integrated knowledge of the core concepts of pH meter and buffer.
CO2	Acquired some technical knowledge of chromatography techniques.
CO3	How visualizing a protein or DNA structure is a matter of perspective.
CO4	Attain an experimental knowledge with the spectrophotometers and biomedical instruments
CO5	Recognize potential laboratory safety concerns for radiation techniques.

Course Name: Allied II: Chemistry - II**Course Code: 17UAPAT203**

CO1	Learn the Laboratory principles and methods of metallurgy.
CO2	Get familiarized with the coordination compounds.
CO3	Understand the mechanism of aromatic compounds.
CO4	Know the different processes of thermodynamics.
CO5	Develop basic knowledge with the electrochemistry and Get a theoretical exposure for safety aspects of chemistry laboratory.

Course Name: Foundation Course II: Value Education**Course Code: 17VE01**

CO1	Define the Dimensions of Value System [Remember]
CO2	Build their personality in physical, mental, emotional and spiritual aspects [Apply]
CO3	Outline the benefits of sharing ideas and concern for the family members [Understand]
CO4	Identify the Vocational Problems and the solutions [Apply]
CO5	Examine the pull factors of social evils and identify the ways to eradicate them [Analyze]

SEMESTER: III**Course Name: Core IV - Enzyme and Enzyme Technology****Course Code: 17UAPCT301**

CO1	Describe structure, characteristics and functions of enzymes
CO2	Learn kinetics of enzyme catalyzed reactions and enzyme inhibitory and regulatory process.
CO3	Acquire knowledge on mechanism of action of enzymes
CO4	Understand design of bioreactors and apply principles of bioprocess to the industrial production of enzymes
CO5	Gain exposure to wide applications of enzymes that can benefit human life and their future potential

Course Name: Core V - Microbiology**Course Code: 17UAPCT302**

CO1	Acquire the basic concepts to operate the different varieties of Microscopes
CO2	Develop basic skills necessary to work with microbial cultures in Microbiological Laboratory
CO3	Exhibit mastery of the principal area of the Microbiology like microbial physiology (Bacteria, Fungi & Algae).
CO4	Explain the basic genetic systems of Virus and Bacteriophage.
CO5	Understanding of the normal and common pathogenic organisms associated with human infectious diseases and the role of microbes in fermentation process.

Course Name: Core Biochemistry Practicals - II**Course Code: 17UAPCP402**

CO1	Gain the fundamental knowledge of working with colorimeter and interpretation.
CO2	Able to estimate the substance using titrimetric assays.
CO3	Get familiarized with the assay of enzymes.
CO4	Acquire practical exposure with chromatographic techniques.
CO5	Get practical exposure with electrophoretic techniques

Course Name: Allied III: Biomathematics

Course Code: 17UAPAT303

CO1	Apply the concepts of binomial and exponential theorems in summation of series.
CO2	Solve the problems using Matrices.
CO3	Describe different types, collection and presentation of data.
CO4	Determine the measures of central tendency and dispersion.
CO5	Apply Correlation and Regression in statistical analysis.

Course Name: Skill Based Course I - Nutritional Biochemistry

Course Code: 17UAPST304

CO1	Acquire detailed knowledge regarding the biological basis of nutrition.
CO2	Develop laboratory skills required for a modern biochemical study of nutrition includes the quantitative analysis and interpretation of results.
CO3	Attain the mechanisms by which diet can influence our health.
CO4	Integrate biochemical mechanisms with disease pathology and clinical treatment options.
CO5	Gain the principles, knowledge and application of integrative nutrition in the areas of whole foods & food as a medicine.

Course Name: Non-major Elective - I: Public Health and Hygiene

Course Code: 17UAPNT305

CO1	Develop basic knowledge on health and personal hygiene.
CO2	Understand the role of nutrients for good health.
CO3	Explain the mode of transmission and dietary planning for communicable diseases.
CO4	Understand the food behavioral changes due to modernization and areas of fitness.
CO5	Exhibit knowledge on circadian rhythm and occupational stress.

SEMESTER: IV

Course Name: Core VI - Intermediary Metabolism

Course Code: 17UAPCT401

CO1	Understand the fundamental energetics of biochemical processes
CO2	Integrate knowledge on how the body metabolizes glucose and advanced understanding of how the body produces and stores energy.
CO3	Understand lipid metabolism and the role of lipids in the formation of metabolites.
CO4	Learn the different process of anabolism and catabolism of Proteins
CO5	Comprehend the role of purine and pyrimidine in nucleic acid metabolism.

Course Name: Allied IV: Computer and Information Technology

Course Code: 17UAPAT403

CO1	Describe the features and components of windows XP
CO2	Perform documentation with various formatting in MS-Word 2007
CO3	Compute calculations and generate charts in MS-Excel 2007
CO4	Illustrate the presentation skills in MS-PowerPoint 2007
CO5	Create Database, Table, Query, Forms and Reports

Course Name: Allied Practicals II: Computer and Information Technology Lab**Course Code: 17UAPAP404**

CO1	Create letter heads, resume, timetable and mail merging of letters in MS-Word
CO2	Prepare Student Mark list and generate Charts and Reports in MS-Excel
CO3	Demonstrate presentation with simple and animated effects in MS-Power Point
CO4	Database, Tables and Query in MS-Access
CO5	Query, Forms and Reports in MS-Access

Skill Based Course II: Nanotechnology and Clinical trials**Course Code: 17UAPST405**

CO1	Gain the fundamentals of Nanotechnology and to get knowledge familiarize with the new concepts of Nano science and Technology.
CO2	Ability to manipulate matter at molecular scale and attain the principal classes of biomaterials and their functionalities in modern medical science.
CO3	Impart basic knowledge on various synthesis and characterization techniques involved in Nanotechnology
CO4	Acquire the outline interest of research about health care and study population.
CO5	Attain general basics related to document development used in clinical trials.

Course Name: Non-major Elective - II: Nutrition and Diet Therapy**Course Code: 17UAPNT406**

CO1	Acquire the basic concepts to Diet therapy.
CO2	Develop basic idea of nutritional requirement during infections.
CO3	Gain knowledge about dietary requirements during liver and abdominal diseases.
CO4	Explain the dietary habits for renal and heart patients.
CO5	Understand the impact of diet on pregnancy and geriatric nutrition.

Course Name: Advanced Learners Course - I: Biophysics**Course Code: 17UAPAL407**

CO1	Analyze and explain key concepts in biophysics.
CO2	Prepare them to be competitive in pursuing advanced studies or employment in medical, biotechnical & pharmaceutical fields.
CO3	Provide broad foundation about various sensing and measurement machines in biomedical sciences.
CO4	Learn methods of experimental physics.
CO5	Acquire an idea about artificial organs and its function mimicking natural ones.

Course Name: Advanced Learners Course - II: Phytochemistry and Phytochemical Techniques**Course Code: 17UAPAL408**

CO1	Able to identify plant primary and secondary metabolites.
CO2	Learn methods of experimental techniques of phytochemicals.
CO3	Develop skill to qualitative analysis of plant constituents.
CO4	Acquire knowledge on the skills of methods of separation of natural Plant constituents
CO5	Acquire good knowledge about the uses of different active constituents of medicinal plant

SEMESTER: V**Course Name: Core VII - Human Physiology and Endocrinology****Course Code: 17UAPCT501**

CO1	Develop the basic knowledge of the Digestive tract and Respiratory system.
CO2	Understand the in-depth vision of blood, skeletal muscles and heart.
CO3	Recognize the importance of nervous system and eye.
CO4	Tell the impacts of the endocrine system.
CO5	Exhibit the hormone involvement in reproductive structures.

Course Name: Core VIII - Clinical Biochemistry**Course Code: 17UAPCT502**

CO1	Clearly understand the pathological regulations of carbohydrate metabolism.
CO2	Make the learner aware of lipid metabolic changes.
CO3	Realize the disease state of amino acid, purine and pyrimidine metabolism.
CO4	Know the problems related to the preparation of the patient, the collection and knowledge of the samples.
CO5	Identify the meaning and use of laboratory investigations in connection with diseases of the liver and kidneys.

Course Name: Core IX - Molecular Biology**Course Code: 17UAPCT503**

CO1	Acquire better knowledge about the replication machinery of DNA.
CO2	Learn the basic steps of transcription and processing of RNA
CO3	Integrate knowledge with the translation process of proteins.
CO4	Know the recent advances in the recombination techniques
CO5	Identify the mutations in genes and mechanism of transposons

Course Name: Core Biochemistry Practicals - III**Course Code: 17UAPCP504**

CO1	Analyze the NPN compounds and calcium in urine samples.
CO2	Estimate the substances in blood.
CO3	Get better knowledge with enzyme assay using kit.
CO4	Acquire practical exposure with demo techniques.
CO5	Gain expertise with the biochemical preparations of compounds from natural sources

Course Name: Core Biochemistry Practicals - IV**Course Code: 17UAPCP604**

CO1	Preparing the media for culturing of micro organisms
CO2	Know the techniques involved in Isolating microorganisms.
CO3	Get better knowledge with identification of microorganisms
CO4	Acquire practical exposure with biochemical analysis of plant components.
CO5	Estimate the enzymes from natural samples.

Course Name: Elective I A - Microbial Genetics

Course Code: 17UAPET505

CO1	Essence the characteristics and types of mutant.
CO2	Exhibit knowledge on Bacterial Genetics.
CO3	Develop a skill for transformation of genetic materials into the bacteria.
CO4	Provide guidelines for doing phage genetics.
CO5	Learn practical applications of microbial genetics.

Course Name: Elective I B - Plant and Animal Biotechnology

Course Code: 17UAPET506

CO1	Basic knowledge with Plant Tissue culture and its methods.
CO2	Knows the techniques plant genetic engineering.
CO3	Gain basic information for animal tissue culture techniques
CO4	Provide broad foundation about the cell transformation techniques.
CO5	Learn methods of animal biotechnology

Course Name: Elective I C - Genetic Engineering

Course Code: 17UAPET507

CO1	Focus the light on basic steps in gene cloning.
CO2	Know the fundamental ideas of hybridization techniques.
CO3	Develop a technical skill for working with PCR and DNA sequencing.
CO4	Provide the guidelines for expression of gene into the fusion proteins.
CO5	Understand the current ethical issues of Genetic Engineering.

Course Name: Skill Based Course III- Medical Coding

Course Code: 17UAPST508

CO1	Attain the knowledge of human body systems.
CO2	Understand the medical terms, abbreviations and diagnostic procedures.
CO3	Know the importance of documentation.
CO4	Gain an idea about coding system.
CO5	Learn concepts of reimbursement methodologies, Fraud and abuse.

Course Name: Advanced Learners Course III - Cancer Biology

Course Code: 17UAPAL509

CO1	Understand the basics of cancer.
CO2	Gain knowledge about cellular and molecular mechanisms of cancer cells.
CO3	Clearly understand the mechanism of oncogenesis and apoptosis.
CO4	Get a foundation in the cancer cell signaling molecules.
CO5	Understand the approaches of cancer therapy

Course Name: Advanced Learners Course IV - Entrepreneurship Development in Life Sciences and Healthcare

Course Code: 17UAPAL510

CO1	Acquire sound knowledge about general support of Entrepreneurship.
CO2	Explain the marketing plan and surveys.
CO3	Gain an idea about the mushroom cultivation.
CO4	Understand the significance of vermicompost and Organic Terrace farming
CO5	Get a fundamental knowledge with the methods of aquaculture and sericulture

SEMESTER: VI

Course Name: Core X- Medicinal Biochemistry

Course Code: 17UAPCT601

CO1	Gain knowledge for the concepts of drug and its specified receptors.
CO2	Knows the fundamentals about drug metabolism.
CO3	Identify the drug for chemotherapy.
CO4	Obtain an idea about recurring cardio vascular diseases and Diabetes Mellitus.
CO5	Expose with the extraction methods of bioactive components.

Course Name: Core XI -Plant Biochemistry and Plant Therapeutics

Course Code: 17UAPCT602

CO1	Know basic physiological aspects of transpiration, respiration.
CO2	Gain the fundamentals idea about photosynthesis machinery in plants.
CO3	Recognize and understand the importance of nutrition for plant growth.
CO4	Describe the practical applications of plant growth regulators.
CO5	Learn about the functions of secondary metabolites.

Course Name: Core XII - Immunology and Immunotechniques

Course Code: 17UAPCT603

CO1	Understand the immune response to our body.
CO2	Know about the interactions of antigen and antibody and complement system.
CO3	Understand the concept of Immunotechniques with applications.
CO4	Gain an idea about reactions of hypersensitivity.
CO5	Clearly illustrate the criteria's of transplantation and vaccination.

Course Name: Elective II A - Bioinformatics Practicals

Course Code: 17UAPET605

CO1	Work in MS Office and HTML.
CO2	Understand the way of working in biological databases and data retrieval tools.
CO3	Develops the knowledge in Sequence similarity searching.
CO4	Know to perform different gene prediction.
CO5	Get a fundamental knowledge with the sequence alignment tools.

Course Name: Elective II B - Nanomaterials and Nano medicine

Course Code: 17UAPET606

CO1	Learn the basis of nanotechnology.
CO2	Manipulate matter at molecular scale and attain the principal classes of biomaterials their functionalities in modern medical science.
CO3	Impart basic knowledge on various synthesis and characterization techniques involved Nanotechnology
CO4	Predict the applications of nanoparticles in biopharma field.
CO5	Assess the usage of various nanoparticles in the field of cancer biology.

Course Name: Elective II C - Health and Hygiene

Course Code: 17UAPET607

CO1	Develop basic knowledge on health and personal hygiene.
CO2	Understand the role of nutrients for good health.
CO3	Explain the mode of transmission and dietary planning for communicable diseases.
CO4	Planning how we maintaining the good mental health related to environment.
CO5	Understand about infectious disease and immunity.

Course Name: Elective III A - Diagnostic Biochemistry

Course Code: 17UAPET608

CO1	Expertise with the analysis of blood, urine, motion and semen.
CO2	Gain knowledge in diagnosis of CSF, Hb and Glucose Tolerance.
CO3	Explain the role of hormones and enzymes using assays.
CO4	Obtain an idea for serodiagnostic procedures.
CO5	Interpret the results of blood testing and aminoaciduria test.

Course Name: Elective III B - Sports Biochemistry

Course Code: 17UAPET609

CO1	Understand the importance of exercise and sporting activities
CO2	Gain an idea about Skeletal muscle system and Metabolic systems.
CO3	Know the functioning of cardio respiratory system.
CO4	Know the physical fitness assessment like BMR and BMI.
CO5	Learn the essential nutrition required for sports.

Course Name: Skill Based Course IV- Bioinformatics

Course Code: 17UAPST611

CO1	Know the scope and importance of bioinformatics.
CO2	Understand the importance of different databases.
CO3	Gain the sequence alignment methods.
CO4	Interpret the prediction methods of various Biomolecules.
CO5	Apply knowledge on current commercial bioinformatics.

Programme Title: M.Sc Biochemistry

Programme Outcomes : At the end of the programme, students will be able to

PO Number	PO Statement
PO1	Critical Thinking: Take informed actions after identifying the assumptions that frame our thinking and actions, checking out the degree to which these assumptions are accurate and valid, and looking at our ideas and decisions (intellectual, organizational and personal) from different perspectives.
PO2	Effective Communication: Speak, read, write and listen clearly in person and through electronic media in English and in one Indian language and make meaning of the world by connecting people, ideas, books, media and technology.
PO3	Social Interaction: Elicit views of others, mediate disagreements and help reach conclusions in group settings.
PO4	Effective Citizenship: Demonstrate empathetic social concern and equity centered national development, and the ability to act with an informed awareness of issues and participate in civic life through volunteering.
PO5	Ethics: Recognize different value systems including your own, understand the moral dimensions of your decisions, and accept responsibility for them.
PO6	Environment and Sustainability: Understand the issues of environmental contexts and sustainable development.
PO7	Self-directed and Life-long Learning: Acquire the ability to engage in independent and life-long learning in the broadest context socio-technological changes.

Programme Specific Outcomes : At the end of the programme, students will be equipped with the Knowledge in

PSO Number	PSO Statement
PSO1	Representing the key principles of Biochemistry at an advanced level.
PSO2	Identifying local and global issue that need intervention by a Biochemist and develop Biochemical approaches accordingly to solve the problems.
PSO3	Demonstrating critical thinking skills/ laboratory techniques and be capable of designing, carrying out and interpreting Scientific experiments

SEMESTER: I**Course Name: Core I: Biopolymers****Course Code: 17PBFCT101**

CO1	Recognize the Biomolecules at structural level
CO2	Classify the Biopolymers present in nature.
CO3	Distinguish the properties and importance of various Biopolymers.
CO4	Compare and contrast the structure and function of Biopolymers and where they are found
CO5	current environmental issues with a focus on the material's impact in relation to the sustainable development objectives set by the community.

Course Name: Core II - Biochemical Techniques**Course Code: 17PBFCT102**

CO1	Compile the basic principles of analytical techniques
CO2	Discuss the different methodologies of biochemical techniques
CO3	Illustrate the instrumental set up of various Bioanalytical techniques
CO4	Evaluate the working procedures of instrumentation techniques
CO5	Recall the applications of chromatography, electrophoresis, centrifuge and spectrophotometer

Course Name: Core III: Enzymes and Enzyme Technology**Course Code: 17PBFCT103**

CO1	Recall the fundamentals of concepts of enzymes
CO2	Identify the active site of enzyme, catalytic reactions
CO3	Evaluate the enzyme kinetic mechanisms. Compare the enzyme inhibitors
CO4	Describe the methods for production, purification, characterization and immobilization of enzymes.
CO5	Illustrate the industrial applications of enzymes

Course Name: Core IV: Cellular Biochemistry**Course Code: 17PBFCT104**

CO1	Recall the cell types and their organelles
CO2	Express the physiological role of cellular components in living system
CO3	Illustrate the structure and importance of membrane in a cellular function
CO4	Evaluate the various processes related to cell-cell interaction
CO5	Summarize the events of a cell and cell abnormalities.

Course Name: Core V: Plant Biochemistry and Biotechnology

Course Code: 17PBFCT105

CO1	Correlate the different types of Carbon reactions in plants
CO2	Describe the importance of Biogeo chemical cycles in plants
CO3	Evaluate the metabolic architecture of plants
CO4	Analyze the advances in plant biotechnology
CO5	Plan the applications of plant tissue culture

Course Name: Core Biochemistry Practicals - I

Course Code: 17PBFCT106

CO1	Acquire practical training to handle the instruments like colorimeter, spectrophotometer and to use them for biochemical determinations.
CO2	Obtain hands-on training in basic separation techniques in biochemistry
CO3	Develop competence in handling various chromatographic techniques and apply them in separation of different biological molecules.
CO4	Gain expertise to determine the bioactive contents from various sources
CO5	Learn basic bioinformatics tools such as retrieving structures, sequences, aligning the sequences, structure prediction etc.,

Course Name: Elective IA: Bioinformatics and Nanotechnology

Course Code: 17PBFET107

CO1	Practice the biological databases of Nucleic acids and Proteins.
CO2	Operate various tools in Sequence alignment methods.
CO3	Illustrate the methods of Protein prediction and Drug designing.
CO4	Discriminate the properties and synthesis of Nanomaterials.
CO5	Investigate the characterization and applications of Nanomaterials.

Course Name: Elective IB: Computational Molecular Biology

Course Code: 17PBFET108

CO1	Compute the different Data bases in Molecular biology
CO2	Indicate the importance of Pattern matching and Sequence alignment
CO3	Construct the Phylogenetic tree.
CO4	Connect the functional analysis of regulated genes.
CO5	Compile the Concepts of sequence comparison techniques.

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Course Name: Elective IC: Biophysics and Crystallography**Course Code: 17PBFET109**

CO1	Compare the different techniques of Medical imaging
CO2	Interpret the basics of Electro physiological measurements.
CO3	Compile the concepts in Non electrical devices.
CO4	Explain the basics of Crystallography.
CO5	Illustrate the parameters of X-ray diffraction techniques.

SEMESTER: II**Course Name: Core VI - Microbial Biochemistry****Course Code: 17PBFCT201**

CO1	Relate the stages of Microbial growth and metabolic pathways.
CO2	Summarize the types of fermentation process and its significance.
CO3	List out the sources and applications of microorganisms in industry.
CO4	Illustrate the factors that related to yield of the microbial products
CO5	Assess the technical aspects in Microbial process

Course Name: Core VII - Immunology**Course Code: 17PBFCT202**

CO1	Locate the components of the immune system and how cells and organs play an important r in the immune responses.
CO2	Illustrate the structure and mechanism of action of different immune components and th resultant reaction responses.
CO3	Compare the principle and applications of various immuno techniques ranging fr precipitation and agglutination reactions to ELISA, Radio immunoassay and flow cytometry.
CO4	Complete knowledge of the molecular mechanisms and kinetics of the immune responses, b humoral and cell mediated immunity.
CO5	The course will aid in understanding abnormal manifestations of the immune response in form of Hypersensitive reactions, the mechanisms of transplantation of the various organs principles of Graft rejection, Autoimmunity, Knowledge of pathogenesis of diseases a designing of immunology based interventions for effective treatment like Antibody bas therapy.

Course Name: Core VIII - Endocrinology**Course Code: 17PBFCT203**

CO1	Enumerate the classification of hormones, understand the mechanism of action
CO2	Explain how the secretion of hormones are regulated, including the principles of negative a positive feedback mechanisms
CO3	Categorize the physiological role of hormones such as Pituitary, Thyroid, Pancreas, Adre hormones.
CO4	Illustrate the structure and chemical nature of hormones
CO5	Assess the consequences of under and overproduction of hormones.

Course Name: Core IX - Molecular Biology and Molecular Genetics

Course Code: 17PBFCT204

CO1	Analyze the molecular organization of genes
CO2	Evaluate the mechanism of DNA repair and DNA replication.
CO3	Distinguish the importance of enzymes in transcription process.
CO4	Compute the strategies of synthesis and translocation of proteins.
CO5	Explain the basic principles of transmission genetics.

Course Name: Core Biochemistry Practicals - II

Course Code: 17PBFCT205

CO1	Perform different laboratory procedures in the analysis of active constituents of natural sources
CO2	Acquire expertise in phytochemical screening of plant extract
CO3	Learn the to isolate biomolecules from various sources
CO4	Gain hand on experience in qualitative and quantitative analysis of different biomolecules
CO5	Develop skills to perform various immunoassays such as Ouchterlony double immunodiffusion (DID), RIA

Course Name: Elective II A: Animal Cell Culture Techniques

Course Code: 17PBFCT206

CO1	Outline the basic principles of Animal cell culture.
CO2	Explain the properties and advantages of Animal cell culture media.
CO3	Design the basic characteristics of cultured cells.
CO4	Distinguish the primary and secondary cultures of animal cells
CO5	Investigate the concepts of transgenic animals production

Course Name: Elective II B: Genomics

Course Code: 17PBFCT207

CO1	Memorize the structure and functions of Genomes
CO2	Outline the concepts of Genome sequencing and mapping
CO3	Identify the importance of Genome data bases
CO4	Compute the techniques of Sequence alignment
CO5	Explain the characteristics of Comparative genomics

Course Name: Elective II C: Stem Cell Technology

Course Code: 17PBFET208

CO1	Correlate the different types of Stem cells
CO2	Assess the invitro culturing methods of Embryonic stem cells.
CO3	Summarize the protocols in Adult stem cell culture.
CO4	Sketch out the concepts of Stem cells in Drug discovery and Tissue engineering
CO5	Indicate the therapeutic applications of Stem cells.

SEMESTER: III

Course Name: Core X: Research Methodology and Biostatistics

Course Code: 17PBFCT301

CO1	Propose and distinguish appropriate research designs and methodologies to apply to a specific research project
CO2	Understand Data presentation techniques and research report writing
CO3	Know about averages in detail and interpret Correlation and Regression
CO4	Understand the concept of large samples with applications
CO5	Know and apply test for small samples

Course Name: Core XI - Metabolism and Metabolic Regulation

Course Code: 17PBFCT302

CO1	Understand how carbohydrate metabolism normally responds in the fed state, the fasting state and during exercise
CO2	Recognize and understand the regulatory mechanisms of lipid metabolism
CO3	Understand the metabolic consequences and significance of Protein metabolism
CO4	Analyse the core metabolic pathways of Porphyrins and Nucleic acids
CO5	Learn the role of plant hormones & biosynthesis of secondary metabolites and acquire knowledge on stress adaptations in biological systems

Course Name: Core XII - Advanced Clinical Biochemistry

Course Code: 17PBFCT303

CO1	Understand the methods of collection of Sample in basic analysis of clinical Biochemistry
CO2	Correlate testing to Blood system to assess the abnormal conditions of the blood disorders
CO3	Understand the Enzymes role in Diagnostic disorders of Organs
CO4	Learn about the Functional tests and Clinical conditions of the diseases to understand the significance of Diagnostic
CO5	Assess the Various free radicals and cancer markers in various disease

Course Name: Core XIII - Genetic Engineering**Course Code: 17PBFCT304**

CO1	Able to understand the capacity of different cloning vectors and its role in gene cloning
CO2	Assess the ability of using various nucleic acid probes; selection and identification recombinants
CO3	Had insight into various hybridization techniques
CO4	Acquire sound knowledge about expression of cloned genes in different host systems
CO5	Learn about transgenic plant and animal production and applications

Course Name: Core XIV - Pharmaceutical Biochemistry**Course Code: 17PBFCT305**

CO1	Obtain Pharmacokinetic concepts of chemotherapeutic agents
CO2	Develop an understanding of Adverse Drug Responses
CO3	Obtain the knowledge of various Chemotherapeutic agents
CO4	Gain an idea of Diuretic drugs and its action
CO5	Understand the Neurodegenerative disorders and its drugs

Course Name: Core Biochemistry Practicals - III**Course Code: 17PBFCT306**

CO1	Gain an idea of Lipid components in the given sample
CO2	Know the knowledge of Quantitative analysis of Carbohydrates
CO3	Understand the clinical importance of Vitamins
CO4	Obtain the knowledge of activity of enzymes in the sample
CO5	Understand the abnormal range and diseases

Course Name: Elective IIIA: Biochemical and Environmental Toxicology**Course Code: 17PBFET307**

CO1	Design strategies for study the of dose-response relations
CO2	Critically evaluate different advanced exposure assessment methods
CO3	Analyze the effects of different types of Hazardous pollutants
CO4	Clearly understand the mechanisms and mode of action of different toxic agents
CO5	Gain knowledge about utilizing microbes and natural agents for Bioremediation and Detoxification purposes

Course Name: Elective IIIB: Proteomics**Course Code: 17PBFET308**

CO1	Obtain an idea of quantitative measurement of Protein
CO2	Analyze the phosphoproteins and Glycoproteins
CO3	Know the aspects of protein folding
CO4	Understand the Drug designing process
CO5	Gain knowledge of metabolomics

Course Name: Elective IIIC: Characterization and Application of Nanomaterials

Course Code: 17PBFET309

CO1	Obtain an idea of working of Atomic Force Microscopy and X- Ray diffraction
CO2	Gain an idea of elemental analysis
CO3	Know the Semiconductor system
CO4	Understand the Quantum Dot techniques
CO5	Gain knowledge of bio-macromolecules

Course Name: Advanced Learners Course I: Industrial Biochemistry

Course Code: 17PBFAL310

CO1	Understand the students in the basic principles of processing of bioreactor
CO2	Develop skills on recent Methodologies in Clinical Trials
CO3	Gain the Knowledge in Food Processing
CO4	Learn the applications of Enzymes in Food Industry and Recombinant Technology
CO5	Expose students to relevant and recent advances in microbes in Environment

Course Name: Advanced Learners Course II: Bioethics and Intellectual Property Rights

Course Code: 17PBFAL311

CO1	Understand the concept of Genetic Engineering
CO2	Learn the knowledge of Ethical Issues
CO3	Understand the Biosafety concepts
CO4	Gain the knowledge of Intellectual Property Rights and Regulations
CO5	Understand the importance of Patent and its Types

SEMESTER: IV

Course Name: Elective IVA: Elective Practicals - Cell Culture and Molecular Techniques

Course Code: 17PBFEP402

CO1	Know the sterilization techniques in plant and animal tissue culture
CO2	Gain an idea of preparation of PTC medium
CO3	Know the techniques of Micropropagation
CO4	Understand the method of production of artificial seeds
CO5	Know the procedure of DNA isolation from the animal cell

Course Name: Elective IVB: Elective Practicals - Bioinformatics

Course Code: 17PBFEP403

CO1	Gain the practical knowledge of sequence Alignment
CO2	Visualize the 3D Structures of various Proteins by bioinformatics tools
CO3	Know various wet lab and insilico tools for handling proteomic studies
CO4	Gain an idea of signal transduction pathway
CO5	Understand the gene expression profiling method

Programme Title: B.Sc. Biotechnology

Programme Outcomes: At the end of the programme, the students will be able to

PO Number	PO Statement
PO1	Critical Thinking: Take informed actions after identifying the assumptions that frame thinking and actions, checking out the degree to which these assumptions are accurate and valid and looking at our ideas and decisions (intellectual, organizational, and personal) from different perspectives.
PO2	Effective Communication: Speak, read, write and listen clearly in person and through electronic media in English and in one Indian language and make meaning of the world by connecting people, ideas, books, media and technology.
PO3	Social Interaction: Elicit views of others, mediate disagreements and help reach conclusions in group settings.
PO4	Effective Citizenship: Demonstrate empathetic social concern and equity centered national development, and the ability to act with an informed awareness of issues and participate in civic life through volunteering.
PO5	Ethics: Recognize different value systems including your own, understand the moral dimensions of your decisions, and accept responsibility for them.
PO6	Environment and Sustainability: Understand the issues of environmental contexts and sustainable development.
PO7	Self-directed and Life-long Learning: Acquire the ability to engage in independent and life-long learning in the broadest context socio-technological changes.

Programme Specific Outcomes: At the end of the programme, students will be equipped with the Knowledge in

PSO Number	PSO Statement
PSO1	Comprehend the fundamental Biochemical principles and multiple important technical areas of Biochemistry.
PSO2	To apply contextual knowledge and modern tools of Biochemical research for solving problems
PSO3	Understanding the impact of Biochemistry on Environment, Society and other cultures outside the Scientific community

SEMESTER: I**Course Name: Core Paper I – Cell Biology****Course Code: 19UAQCT101**

CO1	Understand the basic concepts about cell and its classification
CO2	Ability to analyze and interpret the behavior of cells in their microenvironment in multi-cellular organisms
CO3	Elaborate the ideas regarding the function and cellular organization of intracellular organelle
CO4	Explain the structure of chromosome and its organization
CO5	Understand cell cycle and cell division and various techniques used in Cell Biology

Course Name: Core Paper II – Biochemistry**Course Code: 19UAQCT102**

CO1	Elaborate the basic knowledge in structure, classification and function of carbohydrates and lipids
CO2	Strengthen their knowledge with structural and functional biomolecules
CO3	Relate their ideas with respect to enzyme classification, kinetics, regulation and inhibition of enzyme activity
CO4	Create their significance towards the metabolic activity of carbohydrates and lipids
CO5	Outline the ideas in synthesis and break down metabolism of amino acid and nucleotide

Course Name: Allied I – Chemistry Paper I**Course Code: 19UAQAT103**

CO1	Predict atomic structure, chemical bonding or molecular geometry based on accepted models
CO2	Provide broad foundation about the merits and demerits of polymers.
CO3	Acquire an idea about the chemical bonding polar bond and stereoisomerism
CO4	Integrate the chemical reactions for fertilizers and usage of insecticides and pesticides
CO5	Understand the principles of kinetics and thermodynamics as applied to rates and equilibrium positions of chemical reactions

Course Name: Foundation Course I - Environmental Studies**Course Code: 17ES01**

CO1	Understand the different types of ecosystems (Understand)
CO2	Identify the different types of land and energy resources (remember)
CO3	Acquire the concepts of biodiversity and its conservation (Apply)
CO4	Develop awareness against disaster management (Create)
CO5	Attain exposure to environmental policies (Apply)

SEMESTER: II**Course Name: Core Paper III – Bioanalytical Techniques****Course Code: 19UAQCT201**

CO1	Generate the adequate knowledge in basic concepts of buffering system
CO2	Get familiarized with working principles, tools and techniques of spectroscopic analysis
CO3	Strengthen their conceptual understanding in centrifugation and radioactivity
CO4	Have an common insight in chromatographic techniques
CO5	Evaluate and perform electrophoresis and electrophysiological techniques

Course Name: Core Practicals I – Lab in Cell Biology and Biochemistry**Course Code: 19UAQCP202**

CO1	Understand the morphological features of animal, plant and microbial cells
CO2	Differentiate the phases in cell division
CO3	Maximize their knowledge in the quantitative analysis
CO4	Efficiently perform estimation procedures
CO5	Improve their knowledge in separation of biomolecules

Course Name: Allied II – Chemistry Paper II**Course Code: 19UAQAT203**

CO1	Learn the Laboratory principles and methods of metallurgy
CO2	Get familiarized with the co ordination compounds
CO3	Understand the mechanism of aromatic compounds
CO4	Know the different processes of thermodynamics
CO5	Develop basic knowledge with the electrochemistry and Get a theoretical exposure for safety aspects of chemistry laboratory

Course Name: Allied Practicals I – Chemistry Practicals**Course Code: 17UAQAP204**

CO1	Attain knowledge for the preparation of normal solution
CO2	Develop handling of glass wares and accurate chemical laboratory skills .
CO3	Estimate the acid and base solutions volumetrically
CO4	Learn the methods of organic analysis
CO5	Get a distinguished idea about organic compounds

Course Name: Foundation Course II – Value Education**Course Code: 17VE01**

CO1	Define the Dimensions of Value System [Remember]
CO2	Build their personality in physical, mental, emotional and spiritual aspects [Apply]
CO3	Outline the benefits of sharing ideas and concern for the family members [Understand]
CO4	Identify the Vocational Problems and the solutions [Apply]
CO5	Examine the pull factors of social evils and identify the ways to eradicate them [Analyze]

SEMESTER: III**Course Name: Core Paper IV - Microbiology****Course Code: 19UAQCT301**

CO1	Improve the basic knowledge of development of Microbiology and Microscopic techniques
CO2	Describe the fundamental organization of an microbial development and characteristics
CO3	Interpret their ideas related to microbial techniques
CO4	Outline the ideas of microbial role in spoilage and pathogenic effects on living organisms
CO5	Summarize the microbial ecology and its application in various forms

Course Name: Core Paper V - Genetics**Course Code: 19UAQCT302**

CO1	Summarize the Basic concepts of Genetics
CO2	Generate their perception with genetic interactions
CO3	Develop their knowledge in chromosomal linkage and crossing over
CO4	Outline on various chromosomal variations
CO5	Understand the ideas in population genetics

Course Name: Allied III - Biomathematics**Course Code: 17UAQAT303**

CO1	Apply the concepts of binomial and exponential theorems in summation of series
CO2	Solve the problems using Matrices
CO3	Describe different types , collection and presentation of data
CO4	Determine the measures of central tendency and dispersion
CO5	Apply Correlation and Regression in statistical analysis

Course Name: Skill Based Subject I - Lab in Quality Control Techniques**Course Code: 19UAQSP304**

CO1	Improve their knowledge in concepts of pH and microbiological methods effectively
CO2	Illustrate the knowledge in the quantitative estimations
CO3	Develop the skill in qualitative analysis of soil
CO4	Estimate the quality of household products
CO5	Expertise their knowledge in adulteration

Course Name: NME I – Basics of Human Health and Nutrition**Course Code: 17UAQNT305**

CO1	Anticipate their ideas related to human health
CO2	Develop their knowledge in health education
CO3	Memorize the ideas with respect to essential nutrients and their metabolism
CO4	Demonstrate the function of carbohydrates and proteins
CO5	Improve their knowledge about Vitamins

SEMESTER : IV**Course Name: Core Paper VI - Molecular Biology****Course Code: 17UAQCT401**

CO1	Interpret their knowledge about gene and its organization
CO2	Describe the mechanism of transcription
CO3	Develop their knowledge in translation and its related process
CO4	Categorize the different modes of mutation
CO5	Perceive about the DNA repair and Recombination process

Course Name: Core Practicals II - Lab in Microbiology**Course Code: 19UAQCP402**

CO1	Will be able to understand the techniques of media preparation
CO2	Develop their skills oriented to enumeration techniques
CO3	Interpret the difference in staining techniques
CO4	Efficiently perform the biochemical characterization of microbes
CO5	Analyze the sensitive and resistant ability of microorganisms

Course Name: Allied IV - Computer and Information Technology**Course Code: 17UAQAT403**

CO1	Describe the features and components of windows XP
CO2	Perform documentation with various formatting in MS-Word 2007
CO3	Compute calculations and generate charts in MS-Excel 2007
CO4	Illustrate the presentation skills in MS-PowerPoint 2007
CO5	Create Database, Table, Query, Forms and Reports

Course Name: Allied Practicals II - Computer and Information Technology Lab**Course Code: 17UAQAP404**

CO1-CO4	Create letter heads, resume, timetable and mail merging of letters in MS-Word
CO5-CO7	Prepare Student Mark list and generate Charts and Reports in MS-Excel
CO8-CO9	Demonstrate presentation with simple and animated effects in MS-Power Point
CO10-CO11	Create Database, Tables, Query, Forms and Reports in MS-Access

Course Name: Skill Based Subject II - Physiopathology for Medical Transcription**Course Code: 17UAQST405**

CO1	Generate the adequate knowledge in fundamentals of medical transcription
CO2	Develop their knowledge in fundamentals and disorders of circulatory and cardiovascular system
CO3	Build their perception in respiratory and digestive system
CO4	Understand the nervous and excretory system
CO 5	Strengthen their knowledge in muscular and endocrine system

Course Name: NME II – Health Management and Fitness

Course Code: 17UAQNT406

CO1	Build their ideas related to meal planning
CO2	Develop their knowledge in nutritional needs at developmental stage
CO3	Obtain ideas with respect to nutritional needs in varied age groups
CO4	Maximize the importance of health and sports
CO5	Apply their knowledge in ethics of health

Course Name: Advanced Learner Course – Enzyme Technology

Course Code: 17UAQAL407

CO1	Build their deep knowledge in the enzyme classification
CO2	Demonstrate their ideas related mechanism of enzyme activity
CO3	Create the ideas with respect to purification of enzyme
CO4	Generate their knowledge in enzyme application
CO5	Elaborate the ideas with respect to enzyme engineering

Course Name: Advanced Learner Course – Stem Cell Biology

Course Code: 17UAQAL408

CO1	Build their knowledge about stem cells and their classification
CO2	Express their knowledge in stem cell culturing and characterization
CO3	Develop their perception in stem cell types
CO4	Interpret about the stem cell therapeutic application
CO5	Maximize their knowledge in stem cell research

SEMESTER : V

Course Name: Core Paper VII - Immunology

Course Code: 20UAQCT501

CO1	Understand the basics of immunology
CO2	Develop their perception levels in understanding the concepts of antigen and antibody
CO3	Interpret their ideas related to antigen presentation
CO4	Outline the metabolic pathways of immune response
CO5	Describe their understanding in advanced immunological techniques

Course Name: Core Paper VIII - rDNA Technology

Course Code: 20UAQCT502

CO1	Differentiate the role of various enzymes used in recombinant technology
CO2	Describe the fundamental features of plasmids
CO3	Comprehend their knowledge about vectors
CO4	Identify the recombinant clones
CO5	Understand the techniques of recombination

Course Name: Core Paper IX -Plant Biotechnology

Course Code: 20UAQCT503

CO1	Improvise their knowledge regarding tissue culture media and its composition
CO2	Understand the different available explants for tissue culture
CO3	Describe the features of protoplast and its significance
CO4	Outline the techniques of plant transformation
CO5	Summarize the applications of molecular assisted breeding

Course Name: Elective I - Environmental Biotechnology

Course Code: 20UAQET504

CO1	Have a clear idea on biotic and abiotic factors
CO2	Understand the significance of bioremediation and biodegradation
CO3	Generate an interest in field of energy sources
CO4	Identify and involve in waste management
CO5	Develop a basic idea regarding to Environmental Impact Assessment

Course Name: Elective I - Marine Biotechnology

Course Code: 20UAQET505

CO1	Acquire knowledge about the significance of marine organisms
CO2	Understand the methodology of bacterial cell aquaculture
CO3	Predict and discover marine enzymes
CO4	Identify the usage of various bioactive marine products
CO5	Develop a basic knowledge about probiotics

Course Name: Elective I - Virology

Course Code: 20UAQET506

CO1	Relate the modern and historical aspects of virology
CO2	Generalize the classification and types of virus
CO3	Distinguish the replication of virus from other microbes
CO4	Understand the role of viruses in human diseases
CO5	Familiarize with the various approaches employed for the control of virus

Course Name: Skill Based Subject III -Biofarming

Course Code: 20UAQST507

CO1	Get a generalized idea in the basics of farming
CO2	Familiarized with the requirements of organic farming
CO3	Formulate various approaches for developing Mushrooms and <i>Spirulina</i>
CO4	Compute the usage of Vermicompost and Biofertilizers
CO5	Prepare a sericulture and aquaculture farm for economic up gradation

Course Name: Advanced Learner Course - Cancer Biology

Course Code: 20UAQAL508

CO1	Analyze the different types of cancer
CO2	Develop a deep insight about culturing of cells
CO3	Understand the mechanism of oncogenesis and apoptosis
CO4	Relate to the concepts of cellular signaling and cell lines
CO5	Examine the therapies used for cancer diagnosis and therapy

Course Name: Advanced Learner Course - Research Methodology

Course Code: 20UAQAL509

CO1	Infer on the concepts for designing a work of research
CO2	Familiarize with the methods of data collection
CO3	Analyze the methods used for sample collection
CO4	Understand the key facts for writing a thesis
CO5	Correlate the research data's using statistical methods

SEMESTER : VI

Course Name: Core Paper X - Industrial Biotechnology

Course Code: 20UAQCT601

CO1	Identify the requirements for fermentation technology
CO2	Understand the different types of reactors
CO3	Describe the process of down streaming and various techniques for product recovery
CO4	Understand the production and use of industrially important enzymes
CO5	Get a contented knowledge related to industrial chemicals

Course Name: Core Paper XI - Animal Biotechnology, Bioethics and IPR

Course Code: 20UAQCT602

CO1	Describe the significance of growth media and primary culture
CO2	Integrate with the methods used for the development of cell lines
CO3	Apply the cells developed from tissue culture in various fields
CO4	Know the ethics to be followed for transgenic studies
CO5	Get a brief idea related to IPR

Course Name: Core Practicals III - Lab in Immunology and Plant Tissue Culture

Course Code: 20UAQCP603

CO1	Experiment with test animals for immunological purposes
CO2	Analyze and understand the significance of antibodies
CO3	Prepare various culture media for plant tissues
CO4	Compare and contrast the tissue culture techniques using various explants
CO5	Analyze the phytochemical activity of plants

Course Name: Core Practicals IV - Lab in rDNA Technology and Industrial Biotechnology
Course Code: 20UAQCP604

CO1	Develop their skills in isolating DNA from various tissues
CO2	Analyze the DNA and quantify it
CO3	Perform restriction, ligation and transformation experiments
CO4	Produce enzymes for industrial sectors
CO5	Understand the blotting procedures of biomolecules

Course Name: Elective II - Bioinformatics
Course Code: 20UAQET605

CO1	Understand the basic features of Bioinformatics
CO2	Outline the databases used as a Bioinformatics tool
CO3	Get familiarized with the methods used for sequence alignment
CO4	Analyze data for gene prediction and construction of phylogenetic tree
CO5	Predict and Characterize the molecules for the development of drugs

Course Name: Elective II – Developmental Biology
Course Code: 20UAQET606

CO1	Get familiarized with the process of development of gametes
CO2	Understand the concept of fertilization in mammals
CO3	Identify the reasons for evolution and be familiarize with embryology
CO4	Characterize the methods used for experimental embryology
CO5	Summarize the concepts of embryonic development in plants

Course Name: Elective II – Pharmaceutical Biotechnology
Course Code: 20UAQET607

CO1	Validate the development of drugs
CO2	Compile the ideas of targeting a drug and its modification
CO3	Identify the role of drugs in various diagnosis and treatments
CO4	Interpret the novel ideas in developing immunological products
CO5	Get familiarized with molecular tools used and their applications

Course Name: Skill Based Subject IV - Medical Biotechnology
Course Code: 20UAQST609

CO1	Get familiarized with the field of Red Biotechnology
CO2	Integrate their skills in diagnostic techniques
CO3	Acquire knowledge in the steps of stem cell therapies
CO4	Inculcate the ideology of protein therapeutics
CO5	Briefly understand the broad field of vaccinology

Programme Title: B.Sc.Computer Science

Programme Outcomes: At the end of the programme, the students will be able to

PO Number	PO Statement
PO1	Critical Thinking: Take informed actions after identifying the assumptions that frame our thinking and actions, checking out the degree to which these assumptions are accurate and valid, and looking at our ideas and decisions(intellectual, organizational and personal) from different perspectives
PO2	Effective Communication: Speak, read, write and listen clearly in person and through electronic media in English and in one Indian language, and making meaning of the world by connecting people, ideas, books, media and technology
PO3	Social Interaction: Elicit views of others, mediate disagreements and help reach conclusions in group settings
PO4	Effective Citizenship: Demonstrate empathetic social concern and equity centred national development, and the ability to act with an informed awareness of issues and participate in civic life through volunteering
PO5	Ethics: Recognize different value systems including your own, understand the moral dimensions of your decisions, and accept responsibility for them
PO6	Environment and Sustainability: Understand the issues of environmental contexts and sustainable development
PO7	Self-directed and Life-long Learning: Acquire the ability to engage in independent and life-long learning in the broadest context socio-technological changes

Programme Specific Outcomes:At the end of the programme , students will be equipped with the Knowledge in

PSO Number	PSO Statement
PSO1	Prepared for a career in an information technology oriented business or industry, or for graduate study in computer science or other scientific or technical fields
PSO2	Providing effective and efficient real time solutions using acquired knowledge in various domains
PSO3	Applying professional software engineering practices, strategies and tactics for the development, operation and maintenance of software

SEMESTER: I**Course Name: Core 1 : Programming in C****Course Code: 17UAKCT101**

CO1	Recall the fundamentals of computers with the basic programming components of C (Remember)
CO2	Associate the decision making and looping with conditions in C (Understand)
CO3	Attain the knowledge on the application of Arrays, Strings and Functions in C (Apply)
CO4	Determine the usage of Structures, Unions and Pointers concepts in C (Create)
CO5	Attain the knowledge on file concepts in C(Apply)

Course Name: Core 2: Digital Fundamentals and Computer Architecture**Course Code: 17UAKCT102**

CO1	Compute conversions among different number systems, become familiar with basic logic gates. (Apply)
CO2	Understand the design of Sequential Circuits such as Flip-Flops using logical gates. (Understand)
CO3	Design DMA Controller and Transfer data using DMA. (Create)
CO4	Hire the basic knowledge of Instruction Sets and their formats. (Evaluate)
CO5	Demonstrate the ideas by comparing Memory Organization (Apply)

Course Name :Core Lab1:Programming Lab – C**Course Code: 17UAKCP103**

CO1	Acquire the knowledge on generating various mathematical number series in C (Apply)
CO2	Correlate the concept of String functions in C (Analyze)
CO3	Identify the usage of Arrays and Functions in C (Analyze)
CO4	Develop the C programs using pointers (Create)
CO5	Construct the programming block with File concepts in C (Create)

Course Name : Allied 1:Numerical and Statistical Methods**Course Code: 17UAKAT104**

CO1	Solve the Numerical Algebraic and Transcendental Equations and Simultaneous linear Algebraic Equations. (Apply)
CO2	Interpolate the values and solve the Numerical Differentiation, Numerical integration problems. (Apply)
CO3	Find the Mean, Median, Mode, Range, Quartile Deviation and Standard Deviation. (Apply)
CO4	Find the Coefficients of Correlation. (Apply)
CO5	Solve the Regression Equations and find the mean and coefficient of correlation. (Apply)

Course Name: Environmental Studies**Course Code: 17ES01**

CO1	Understand the different types of eco systems(Understand).
CO2	Identify the different types of land and energy resources(Remember).
CO3	Acquire the concept of biodiversity and its conservation(Apply).
CO4	Develop awareness against disaster management(Create).
CO5	Attain exposure to environmental policies(Apply).

SEMESTER: II**Course Name : Core 3:Object Oriented Programming with C++****Course Code: 17UAKCT01**

CO1	Review the basics of Concepts of Object Oriented Programming. (Remember)
CO2	Classify the concepts of Functions and Arrays. (Understand)
CO3	Demonstrate the concepts of Constructors, Operator Overloading and Inheritance. (Apply)
CO4	Characterize the concepts of Pointers, Virtual Functions and Polymorphism. (Analyze)
CO5	Gain the knowledge in Files, Templates and Exception Handling. (Apply)

Course Name: Core 4: Data Structures and Algorithms**Course Code: 17UAKCT202**

CO1	Describe Array, stack, queue and linked list operation.(Understand)
CO2	Handle operations like searching, insertion, deletion, traversing mechanism etc. on various data structures. (Analyzing)
CO3	Derivation of a set of abstract relations within Graphs. (Synthesizing)
CO4	Solve problems using Basic algorithms for sorting and merging. (Apply)
CO5	Acquire knowledge in hash tables and able to handle files. (Apply)

Course Name: Core Lab2: Programming Lab- C++**Course Code: 17UAKCP203**

CO1	Describe the principles and concepts of object oriented programming (Understand)
CO2	Understand concepts of functions with different methods (Understand)
CO3	Apply the concepts of Constructor, destructor and exception handling (Apply)
CO4	Recognize the concept of multiple inheritance (Remember)
CO5	Validate the source code of files with an exception (Evaluate)

Course Name: Allied 2: Discrete Mathematics**Course Code: 17UAKAT204**

CO1	Know about Connectives & Well-formed Formulas. (Remember)
CO2	Attain knowledge about Normal Forms and Predicate Calculus. (Comprehend)
CO3	Solve the real time problems on Relations.(Apply)
CO4	Acquire knowledge on Functions and Grammars. (Remember)
CO5	Compare the characteristics Lattices(Comprehend)

Course Name: Foundation Course II: Value Education
Course Code: 17VE01

CO1	Define the Dimensions of Value System [Remember]
CO2	Build their personality in physical, mental, emotional and spiritual aspects [Apply]
CO3	Outline the benefits of sharing ideas and concern for the family members [Understand]
CO4	Identify the Vocational Problems and the solutions [Apply]
CO5	Examine the pull factors of social evils and identify the ways to eradicate them [Analyze]

Course Name: Core 5: Operating Systems
Course Code: 17UAKCT301

CO1	Understand the basic concepts of Process and its Transitions. (Understand)
CO2	Identify and handles Deadlock in Multiprogramming Systems. (Remember)
CO3	Analyze Virtual Storage Organization and Management Strategies. (Analyze)
CO4	Classify different types of Processor Scheduling. (Understand)
CO5	Acquire knowledge in Disk Performance Optimization and File Systems. (Apply)

SEMESTER: III

Course Name: Core 6: Java Programming
Course Code: 17UAKCT302

CO1	Review the basics of java Environment and java statements. (Remember)
CO2	Elaborate the concepts of Operators and Expressions and branching and looping statements (Understand)
CO3	Demonstrate the concepts of Constructors, Methods Overloading, Inheritance, Interfaces and Packages. (Apply)
CO4	Characterize the concepts of JAVA's Exceptional handling mechanism, threads and Applets (Analyze)
CO5	Gain the knowledge of Graphics Programming and Managing Files. (Apply)

Course Name: Core Lab 3: Programming Lab- Java
Course Code: 17UAKCP303

CO1	Describe the principles of object-oriented programming and write the algorithm in well-written modular code. (Remember)
CO2	Demonstrate the use of object oriented concepts in real world problems. (Apply)
CO3	Apply the concepts of inheritance, constructor and exception handling.(Apply)
CO4	Construct java programs to solve the given problems using basic programming constructs.(Create)
CO5	Develop and debug java programs using Package, multithreading, Exceptions and interface concepts. (Create)

Course Name: Allied 3: Computer Based Optimization Techniques

Course Code: 17UAKAT304

CO1	Solve the Linear Programming Problem by graphical method. (Apply)
CO2	Formulate the Transportation Problems.(Create)
CO3	Optimize the Assignment Problems and Replacement Problems. (Analyze)
CO4	Discuss the types of Queuing Models and various strategies of Game Theory. (Understand)
CO5	Construct a Network Diagram and find the Critical Path and PERT. (Create)

Course Name: Skill based course 1(Lab):Multimedia Lab

Course Code: 17UAKSP30

CO1	Classify the controls of Multimedia software.(Understand)
CO2	Apply the designing skills upon Multimedia.(Apply)
CO3	Demonstrate various effects of Multimedia.(Apply)
CO4	Animate the figures using Multimedia tools.(Create)
CO5	Model the experiments with a Movie making tool. (Create)

Course Name: Non-Major Elective 1: Internet Principles

Course Code: 17UAKNT306

CO1	Understand the basics of Internet. (Understand)
CO2	Discuss Create, sending and Receiving mails etc. (Understand)
CO3	Acquire knowledge in the basics of internet and its function.(Apply)
CO4	Recognize the IP address and Domain name. (Remember)
CO5	Compare the different types of Protocols. (Analyze)

SEMESTER: IV

Course Name: Core 7: Software Engineering

Course Code: 17UAKCT40

CO1	Characterize various software process models.(Analyze)
CO2	List out the elements of analysis model, data model and functional model. (Remember)
CO3	Estimate the software projects and models. (Evaluate)
CO4	Construct modular and interface design.(Apply)
CO5	Test the created software using different testing strategies. (Evaluate)

Course Name: Core 8: Web Programming

Course Code: 17UAKCT402

CO1	Classify the various HTML tags. (Understand)
CO2	Apply the various cascading style sheets for designing the web pages. (Apply)
CO3	Create basic action script coding. (Create)
CO4	Acquire knowledge about open sources languages. (Apply)
CO5	Understand how server-side programming works on the web. (Understand)

Course Name: Core lab 4: Web Programming Lab

Course Code: 17UAKCP403

CO1	Acquire the knowledge of tools used in industry for web application development. (Apply)
CO2	Design web pages using HTML and style sheets.(Create)
CO3	Validate the forms. (Evaluate)
CO4	Create dynamic web pages using server side scripting. (Create)
CO5	Develop web based applications with Perl. (Create)

Course Name: Allied 4: Business Accounting**Course Code: 17UAKAT404**

CO1	To keep in mind the accounting principles in preparing accounting statements. (Analyze)
CO2	Understand the preparation of final accounts and its procedures. (Understand)
CO3	Apply the elements of cost and prepare cost sheet. (Apply)
CO4	Analyze the various methods of stores ledger.(Analyze)
CO5	Evaluate the various techniques in budgetary control. (Evaluate)

Course Name: Skill based course 2: Software Development - CASE Tools Lab**Course Code: 17UAKSP405**

CO1	Identify various objects and the relationship between them in the given projects. (Remember)
CO2	Recognize the actors and use cases in the projects. (Remember)
CO3	Design projects using Object Oriented concepts. (Create)
CO4	Use the UML analysis and design diagrams.(Apply)
CO5	Blueprint appropriate design patterns.(Analyze)

Course Name: Non-Major Elective II: Information Security and Cyber Laws**Course Code: 17UAKNT406**

CO1	Understand the basics of Information Technology. (Understand)
CO2	Classify all types of crimes related to electronic records. (Understand)
CO3	Use authentication technology in case of digital signatures. (Apply)
CO4	Recognize Cyber laws and Security Policies and Cryptography. (Remember)
CO5	Identify the different sections in Information Technology Act, 2000. (Remember)

Course Name: Advanced Learners Course I(A): Software Testing**Course Code: 17UAKAL407**

CO1	Understand the basics of Software Testing. (UNDERSTAND)
CO2	Discuss Challenges in Testing. (UNDERSTAND)
CO3	Acquire knowledge in the Functional and Non Functional Testing (APPLY)
CO4	Apply different types of Testing. (APPLY)
CO5	Study the concepts of Testing Object Oriented Systems, Test Planning, Test Metrics and Measurements. (REMEMBER)

Course Name: Advanced Learners Course I(B) : UNIX Programming**Course Code: 17UAKAL408**

CO1	Understand the basic set of commands and utilities in UNIX systems. [Understand]
CO2	Understand the mechanisms of UNIX Operating System to handle processes and threads and their communication. [Understand]
CO3	Use the systems calls provided in the UNIX environment. [Apply]
CO4	Recognize CPU Scheduling, Synchronization, and Inter process Communication. [Remember]
CO5	Identify the UNIX utilities to create and manage simple file processing operations, organize directory structures with appropriate security. [Remember]

SEMESTER: V**Course Name: Core 9: Computer Networks****Course Code: 17UAKCT501**

CO1	Understand the basic Networking concepts and Reference Models (Understand)
CO2	Identify different types of Transmission Media for Networking (Remember)
CO3	Analyze Data link layer Protocols and Medium Access Control Sub layer (Analyze)
CO4	Compare different types of Routing Algorithms and Congestion Control Algorithms (Analyze)
CO5	Acquire knowledge on Application layer and use of Network Security (Apply)

Course Name: Course: Core 10 : VISUAL PROGRAMMING -VISUAL BASIC**Course Code: 17UAKCT502**

CO1	Understand the concept of data- driven program execution flow control in Visual Basic programming. (Understand)
CO2	Differentiate between various Branching and Looping statements in VB. (Understand)
CO3	Acquire detail knowledge about VB controls. (Apply)
CO4	Create menus and develop procedures. (Create)
CO5	Generate the crystal reports using VB. (Create)

Course Name: Core 11 : Relational Database Management System**Course Code: 17UAKCT503**

CO1	Describe the concepts of the relational database theory, and be able to write relational Algebra expressions for queries (Understand)
CO2	Explain the basics of SQL and construct queries using SQL (Understand)
CO3	Demonstrate Data Management and Retrieval and construct queries using SQL (Apply)
CO4	Use the PL/SQL code constructs of IF-THEN-ELSE and LOOPS type as well as syntax (Apply)
CO5	Validate source code of procedures, functions and triggers (Evaluate)

Course Name: Core Lab 5 : Programming Lab - Visual Basic & ORACLE**Course Code: 17UAKCP504**

CO1	Develop a project for handling strings. (Create)
CO2	Adapt changes in shapes and their colors.(Apply)
CO3	Sketch multiple shapes and fill them with different colors using menus. (Apply)
CO4	Demonstrate by connecting Oracle to VB as backend. (Apply)
CO5	Generate the crystal reports using VB. (Create)

Course Name: 17UAKET505**Course Code: Elective I (A): Computer Graphics**

CO1	Recognize the basic concepts of graphics systems. (Remember)
CO2	Classify the various algorithms for scan conversion and filling of basic objects. (Understand)
CO3	Demonstrate the use of 2D Geometric transformations and 2D viewing. (Apply)
CO4	Explain the different clipping operations and 3D concepts. (Analyze)
CO5	Summarize the concepts of visible surface detection techniques. (Evaluate)

Course Name: Elective - I (B): Cloud Computing**Course Code: 17UAKET506**

CO1	Recall the concepts of other computing technologies and the changes in Cloud. (Remember)
CO2	Differentiate the nature of cloud services and deployment models. (Understand)
CO3	Acquire the cloud use cases, service management and cloud orchestration. (Apply)
CO4	Correlate Cloud Computing and Virtualization. (Analyze)
CO5	Interpret the working nature in various perspectives of cloud service participants. (Evaluate)

Course Name: Elective I (C): Distributed Systems**Course Code: 17UAKET507**

CO1	Interpret the foundation of Distributed Systems. (Understand)
CO2	Acquire the knowledge about Process and Naming in Distributed Systems. (Apply)
CO3	Enumerate about the communication. (Remember)
CO4	Know about the Synchronization, Consistency and Replication. (Understand)
CO5	Audit the Fault Tolerance in Distributed Systems. (Analyze)

Course Name: Skill Based Course 3 (Lab): Networking Lab**Course Code: 17UAKSP508**

CO1	Determine Bit Stuffing method and Cyclic Redundancy Check (CRC) method to detect errors (Apply)
CO2	Validate a Client – Server application for chat and socket programming using java dot net package (Evaluate)
CO3	Illustrate Remote Procedure Call / Remote Method Invocation (Apply)
CO4	Demonstrate Simple FTP using dot net package (Apply)
CO5	Validate UDP Client Server Communication using Bind, Send To, and Recv From System Calls (Evaluate)

Course Name: Advanced Learners Course – II (A) Software Project Management**Course Code: 17UAKAL509**

CO1	Explain the plans, methods, methodologies and the main elements of the role of management (Understand)
CO2	Use a variety of cost-benefit evaluation techniques for choosing among competing project proposals (Apply)
CO3	Estimate projects using a range of estimating methods (Evaluate)
CO4	Identify the factors putting a project at risk (Remember)
CO5	Categorize actions for change control management and staffing in software projects (Create)

Course Name: Advanced Learners Course – II (B) Linux Programming**Course Code: 17UAKAL510**

CO1	Understanding the basic concepts and utilities of Linux (Understanding)
CO2	Use the set of commands and utilities in Linux systems for system administration (Understanding)
CO3	Apply the appropriate Linux commands for various system operations (Apply)
CO4	Design programs and scripts for process management (Create)
CO5	Create Socket Programs for connection management (Create)

SEMESTER: VI**Course Name: Core 12 : DOT NET Programming****Course Code: 17UAKCT601**

CO1	Describe the basics of C# Environment and .NET Technology. (Remember)
CO2	Elaborate the concepts of Methods, Classes & Objects, and Inheritance & Polymorphism. (Understand)
CO3	Acquire knowledge in Interfaces, Operator Overloading, Console I/O Operations, Windows and Web-Based Application Development on .NET (Apply)
CO4	Demonstrate the concepts of the Data Access with ADO.NET and ASP.NET Essentials. (Apply)
CO5	Explain the ideas of Application Structure and State, Validation Controls and ASP.NET Web Services (Analyze)

Course Name: Core Lab 6 : Programming Lab - C# & ASP.Net**Course Code: 17UAKCP602**

CO1	Compare C# Windows Forms Application and C# Console Application. (Understand)
CO2	Acquire knowledge in Toolbox Controls. (Apply)
CO3	Construct C# and ASP.Net programs using Database Connectivity. (Create)
CO4	Demonstrate the use of web controls in ASP.Net. (Apply)
CO5	Create the webpage and website using ASP.Net. (Create)

Course Name: Elective II (A): Web Technology**Course Code: 17UAKET603**

CO1	Recall different Internet protocols and basics of E-Commerce (Remember)
CO2	Develop a website and enhance using plug-in (Create)
CO3	Handle a dynamic webpage by the use of ASP and DHTML (Apply)
CO4	Paraphrase Life cycle and Architecture Active Web Pages (Understand)
CO5	Summarize the Basics of XML and WAP technology (Create)

Course Name: Elective II (B): Mobile Computing**Course Code: 17UAKET604**

CO1	Recognize the basic principles of mobile computing technologies (Remember).
CO2	Classify different types of mobile telecommunication systems (Understand).
CO3	Acquire knowledge about wireless networking concepts and internet protocols (Apply).
CO4	Describe the basic concepts of global System for Mobile Communications, SMS and GPRS (Understand).
CO5	Explain the principles, concepts and operations of satellite systems (Evaluate)

Course Name: Elective II (C): Internet of Things**Course Code: 17UAKET605**

CO1	Interpret the vision of IoT from a global context. (Understand)
CO2	Determine the market perspective of IoT. (Apply)
CO3	Acquire the Architecture and use of Devices in IoT Technology. (Apply)
CO4	Enumerate about the Data management in IoT. (Remember)
CO5	Audit the Knowledge Management in IoT. (Analyze)

Course Name: Elective – III (A): Artificial Intelligence and Expert Systems

Course Code: 17UAKET606

CO1	Recognize the problem domains of Artificial Intelligence (Remember)
CO2	Classify the search techniques for solving AI problems (Understanding)
CO3	Apply the knowledge representation approaches for building knowledge base (Apply)
CO4	Design knowledge base using predicate logic and rules (Create)
CO5	Build Expert System Models for the given AI problem (Create)

Course Name: Elective III (B): Data Mining

Course Code: 17UAKET607

CO1	Identify the Basic Tasks and the Social Implications of Data Mining (Remember)
CO2	Discuss the Data Mining techniques and Genetic Algorithms (Understand)
CO3	Compare the Classification and Rule Based Algorithms (Analyze)
CO4	Observe the concepts and algorithms of Clustering (Understand)
CO5	Identify the concepts of Web Content Mining and Web Usage Mining (Remember)

Course Name: Elective III (C): Cryptography and Network Security

Course Code: 17UAKET608

CO1	Classify the symmetric encryption techniques (Understand)
CO2	Illustrate various Public key cryptographic techniques (Analyze)
CO3	Evaluate and authentication algorithms. (Evaluate)
CO4	Classify and Discuss hash Functions (Apply)
CO5	Summarize the concepts of digital signature algorithms (Create)

Course Name: Skill Based Course 4 (Lab) : Software Testing Lab

Course Code: 17UAKSP610

CO1	Demonstrate functional testing for a software application (Apply)
CO2	Apply white box testing and black box testing using software testing tool (Apply)
CO3	Develop a test plan using open source software testing tool (Create)
CO4	Acquire the knowledge on requirement based test generation (Apply)
CO5	Detect mutation testing using open source software testing tool (Analyze)

Programme Title: B.Sc. Computer Technology

Programme Outcomes: At the end of the programme, the students will be able to

PO Number	PO Statement
PO1	Critical Thinking: Take informed actions after identifying the assumptions that frame our thinking actions, checking out the degree to which these assumptions are accurate and valid, and looking at ideas and decisions (intellectual, organizational, and personal) from different perspectives.
PO2	Effective Communication: Speak, read, write and listen clearly in person and through electronic media in English and in one Indian language, and make meaning of the world by connecting people, ideas, books, media and technology.
PO3	Social Interaction: Elicit views of others, mediate disagreements and help reach conclusions in group settings.
PO4	Effective Citizenship: Demonstrate empathetic social concern and equity centred national development and the ability to act with an informed awareness of issues and participate in civic life through volunteering.
PO5	Ethics: Recognize different value systems including your own, understand the moral dimensions of your decisions, and accept responsibility for them
PO6	Environment and Sustainability: Understand the issues of environmental contexts and sustainable development
PO7	Self-directed and Life-long Learning: Acquire the ability to engage in independent and life-long learning in the broadest context socio-technological changes

Programme Specific Outcomes: At the end of the programme, students will be equipped with the Knowledge in

PSO Number	PSO Statement
PSO1	Understand the principles and working of the hardware, software and network aspects of computer systems.
PSO2	Analyse the IT infrastructures, manage and monitor resources and safeguard data.
PSO3	Design and develop effective and efficient real solutions by integrating diverse technologies.

SEMESTER: I**Course Name: Core 1: Digital Principles****Course Code: 17UALCT101**

CO1	Illustrate the concept of number systems and binary codes.
CO2	Demonstrate the boolean algebra, logic gates and karnaugh map.
CO3	Apply the arithmetic and logic circuit for binary addition.
CO4	Design the circuits using various types of flip-flops.
CO5	Summarize the concept of registers, counters and semiconductor memories.

Course Name: Core 2 : C Programming**Course Code: 17UALCT102**

CO1	Describe the basic concepts of C programs and different types of data types.
CO2	Implement the decision making and looping statements.
CO3	Illustrate the concepts of arrays, character arrays and string.
CO4	Apply user defined functions, structures and unions.
CO5	Explain the pointer and file concept.

Course Name: Core Lab 1 – C Programming Lab**Course Code: 17UALCP103**

CO1	Apply the concepts of operators and expression.
CO2	Implement the branching and looping statements.
CO3	Illustrate character arrays and string.
CO4	Develop a program that uses pointer to access a variable.
CO5	Develop a program that uses file operation.

Course Name: Allied I: Numerical and Statistical Methods**Course Code: 17UALAT104**

CO1	Explain the concepts of Numerical methods.
CO2	Discuss the terminology of Numerical Differentiation and Integration.
CO3	Describe the distinct Methods for Measures of Central Tendency.
CO4	Be aware of the concept of Correlation.
CO5	Evaluate Regression.

Name: Environmental Studies**Course Code: 17ES01**

CO1	Understand the different types of eco systems(Understand).
CO2	Identify the different types of land and energy resources(Remember).
CO3	Acquire the concept of biodiversity and its conservation(Apply).
CO4	Develop awareness against disaster management(Create).
CO5	Attain exposure to environmental policies(Apply).

SEMESTER: II**Course Name: Core 3 – Data Structures****Course Code: 17UALCT201**

CO1	Demonstrate the data structures for storage and retrieval of ordered data.
CO2	Apply the stack and queues structure for problem solving.
CO3	Describe the singly linked list and doubly linked list structures.
CO4	Illustrate the data structures trees and graphs and algorithm to solve a problem.
CO5	Summarize the concepts about searching and sorting techniques.

Course Name: Core 4 – Object Oriented Programming with C++**Course Code: 17UALCT202**

CO1	Explain the basic concepts of object oriented programming and control structures.
CO2	Demonstrate specification of classes with constructors and destructors.
CO3	Illustrate Operator Overloading, type conversion and Inheritance .
CO4	Apply pointers, virtual functions and formatted or unformatted I/O operations.
CO5	Describe the file stream operations, templates, exception handling and string manipulations.

Course Name: Core Lab 2 : C++ Programming Lab**Course Code: 17UALCP203**

CO1	Create programs with a class and member functions for arithmetic operations with constructors, destructors and inline functions.
CO2	Develop a program to overload arithmetic operators, concatenate and compare two strings.
CO3	Implement inheritance and virtual functions.
CO4	Illustrate friend function and function overloading.
CO5	Develop a program that uses pointers and file operations.

Course Name: Allied 2: Discrete Mathematics**Course Code: 17UALAT204**

CO1	Verify the correctness of an argument using propositional and predicate logic and truth tables
CO2	Demonstrate the ability to solve problems using Normal Forms.
CO3	Solve problems involving Relations and Ordering.
CO4	Construct proves using Functions.
CO5	Explain and differentiate Lattices, Boolean algebra.

Course Name: Foundation Course II: Value Education

Course Code: 17VE01

CO1	Understand basis of Value education.
CO2	Acquire the knowledge of soft skills.
CO3	Know the importance of family values.
CO4	Gain an idea about Youth empowerment.
CO5	Learn the significance about Social values.

Course Name: Foundation Course II: Value Education

Course Code: 17VE01

CO1	Define the Dimensions of Value System [Remember]
CO2	Build their personality in physical, mental, emotional and spiritual aspects [Apply]
CO3	Outline the benefits of sharing ideas and concern for the family members [Understand]
CO4	Identify the Vocational Problems and the solutions [Apply]
CO5	Examine the pull factors of social evils and identify the ways to eradicate them [Analyze]

SEMESTER: III

Course Name: Core 5: Operating System

Course Code: 17UALCT301

CO1	Demonstrate the understanding of the basic functionality of operating systems.
CO2	Identify the concepts of processes and threads.
CO3	Apply the deadlock and processor scheduling.
CO4	Describe the memory management and virtual memory.
CO5	Illustrate the concepts of I/O management and disk scheduling.

Course Name: Core 6 : Java Programming

Course Code: 17UALCT302

CO1	Identify the basic concepts of java including class and flow control statements.
CO2	Apply the principles of inheritance, interface, polymorphism, exception handling and thread
CO3	Demonstrate the concepts of packages and I/O operations.
CO4	Describe the concepts of applets and exception handling mechanisms.
CO5	Develop an application using AWT and JDBC.

Course Name: Core Lab 3 : Java Programming Lab

Course Code: 17UALCP303

CO1	Apply java concepts includes class, method and constructor.
CO2	Design the concept of inheritance and exception handling.
CO3	Implement the usage of package and file handling operations.
CO4	Implement the methods of creating applets and mouse events.
CO5	Develop an application using swing and JDBC.

Course Name: Allied 3 : Microprocessor and ALP

Course Code: 17UALAT304

CO1	Demonstrate the understanding of microcomputer systems.
CO2	Describe the 8085 microprocessor architecture and memory interfacing.
CO3	Make use of the instruction set of 8085 microprocessor and develop assembly codes to solve problems.
CO4	Illustrate the use of Counters and Time Delays and Stack and Subroutine.
CO5	Implement the 8085 interrupts and interface the microprocessors with 8259A and DMA.

Course Name: Skill Based Course 1 (Lab) : Linux Programming Lab

Course Code: 17UALSP305

CO1	Apply the knowledge of basic Linux commands.
CO2	Construct Linux commands to create and manage simple file processing operations.
CO3	Design the shell scripts to monitor system performance and network activities.
CO4	Make use of the Linux directory commands.
CO5	Implement the shell scripts for various operations.

Course Name: Non Major Elective - I : Fundamentals of Programming

Course Code: 17UALNT306

CO1	Demonstrate the basic concepts of computer, data representation and boolean algebra.
CO2	Illustrate the elementary concepts of flowchart and make simple computations using flowchart.
CO3	Apply the concepts of subscripted variables in one dimensional array.
CO4	Implement the multidimensional array concepts for developing programs.
CO5	Apply the concepts of file structure and file processing in computers.

SEMESTER: IV

Course Name: Core 7 : Computer Networks

Course Code: 17UALCT401

CO1	Demonstrate the understanding of basic terminology and concepts of the OSI and TCP/IP reference models.
CO2	Explain transmission media, multiplexing and public switched telephone networks.
CO3	Illustrate the concepts of data link layer and MAC sublayer.
CO4	Illustrate the concepts of design issues, routing algorithms and internet protocols of network layer.
CO5	Demonstrate the detailed understanding of various services and protocols of transport layer and applications of DNS and Electronic mail.

Course Name: Core 8 : Web Technology

Course Code: 17UALCT402

CO1	Demonstrate the understanding of web programming and Internet.
CO2	Create web pages using XHTML and Cascading Style Sheet.
CO3	Build the dynamic web pages using JavaScript.
CO4	Implement the advanced concepts such as Servlets and JSP to create dynamic web pages.
CO5	Illustrate XML documents, schemas and build interactive web applications using AJAX.

Course Name: Core Lab 4 : Web Technology Lab**Course Code: 17UALCP403**

CO1	Identify the basic HTML elements and their attributes.
CO2	Build a static website and add dynamic functionality to it by using JavaScript.
CO3	Develop online applications using Servlets and JSP.
CO4	Implement XML documents and schemas.
CO5	Design and launch web services.

Course Name: Allied 4 : PC Hardware**Course Code: 17UALAT404**

CO1	Demonstrate the understanding of the fundamentals of PC technology and microprocessor.
CO2	Identify the components of motherboard.
CO3	Classify the types of memory, magnetic storage devices and optical storage devices.
CO4	Describe keyboards, pointing devices, video subsystems and printers.
CO5	Apply the trouble shooting tools and techniques, basic data recovery and disaster recovery.

Course Name: Skill Based Course 2 (Lab) : Networks Lab**Course Code: 17UALSP405**

CO1	Identify the address, connection number and domain name of the computer system.
CO2	Develop an algorithm to compute parity bit and detect errors.
CO3	Implement the behaviour of stop-and-wait and sliding window protocol.
CO4	Create a shortest path using Dijkstra algorithm and demonstrate the Remote Procedure Call.
CO5	Implement the File Transfer Protocol and chatting in client/server environment.

Course Name: Non Major Elective – II : Web Graphics**Course Code: 17UALNT406**

CO1	Outline the HTML coding and basic web graphics.
CO2	Demonstrate the components of Photoshop, image basics and file formats.
CO3	Apply the concepts of layers and color palette for animation.
CO4	Illustrate the usage of image editing techniques.
CO5	Apply the multimedia concepts of creating clippings and animations with sound effects.

Course Name: Advanced Learners Course 1 – A : Windows Programming**Course Code: 17UALAL407**

CO1	Identify the basic windows programming environment and unicode character set.
CO2	Illustrate the use of windows and messages.
CO3	Apply the basic drawing methods in windows environment.
CO4	Illustrate the concepts of keyboard and its messages.
CO5	Implement the concepts of mouse messages in windows programming.

Course Name: Advanced Learners Course 1 – B : Embedded Systems

Course Code: 17UALAL408

CO1	Demonstrate an understanding of concepts and architecture of embedded systems.
CO2	Develop a program for embedded systems using C, C++ and Java.
CO3	Identify the hardware platforms and communication interface required for developing embedded systems.
CO4	Implement the concepts of real-time operating systems.
CO5	Illustrate the process of creating a target image and development of navigation system.

SEMESTER : V

Course Name: Core 9 : Database Systems

Course Code: 17UALCT501

CO1	Demonstrate the understanding of database systems and their architectures.
CO2	Illustrate the concept of relational algebra, calculus and relational query language.
CO3	Summarize the concepts of Entity Relationship Model and Enhanced Entity Relationship Model.
CO4	Apply the Functional Dependency, Decomposition and Normalization.
CO5	Describe the Database Recovery and Database Security.

Course Name: Core 10 : Software Engineering

Course Code: 17UALCT502

CO1	Define the key aspects in the software engineering and process models.
CO2	Apply the software requirement engineering tasks in the project.
CO3	Develop the different systematic design models for the project.
CO4	Apply the various testing procedures in the project.
CO5	Use the various software quality standards in the project.

Course Name: Core 11 : Visual Basic.NET Programming

Course Code: 17UALCT503

CO1	Demonstrate the understanding of the .NET environment features and the .NET applications.
CO2	Design the forms and reports using the VB.NET features.
CO3	Construct the programs using the database concepts.
CO4	Design the web forms and websites using the ASP .NET features.
CO5	Apply the control features in the web forms.

Course Name: Core Lab 5 : VB .NET and RDBMS Lab**Course Code: 17UALCP504**

CO1	Develop and execute oracle queries.
CO2	Design and develop the forms, menus, tool bars and status bars in the visual basic .NET environment.
CO3	Develop the software applications by connecting the databases.
CO4	Design the web forms by using the ASP .NET controls.
CO5	Design and develop websites.

Course Name: Elective – I – A : Network Security**Course Code: 17UALET505**

CO1	Describe the organizational policy and security infrastructure.
CO2	Explain various cryptographic algorithms and security for hardware, software & databases.
CO3	Categorize intrusion detection systems and various network security concepts.
CO4	Apply various network management protocols and security management systems.
CO5	Describe the electronic mail policy and security of internet banking systems.

Course Name: Elective – I – B : System Software**Course Code: 17UALET506**

CO1	Demonstrate the understanding of the basic functionality of the system software.
CO2	Identify the assemblers, macro processors and their functions.
CO3	Describe the loaders and linkers and their functions.
CO4	Design a simple compiler with code optimized techniques.
CO5	Apply the interpreters and the software tools.

Course Name: Elective – I – C: Client/Server Computing**Course Code: 17UALET507**

CO1	Demonstrate the understanding of the basic concepts and evolution of client/server computing.
CO2	Define the various client/server applications in client/server computing.
CO3	Describe the client hardware, software and client requirements.
CO4	Illustrate the knowledge of server and server environment.
CO5	Implement the concepts of server operating systems and server requirements.

Course Name: Skill Based Course 3 (Lab) : Network Security Lab**Course Code: 17UALSP508**

CO1	Implement data encryption using substitution ciphers and transposition methods.
CO2	Illustrate DES algorithms, encrypt and decrypt data.
CO3	Implement the public key cryptography using various algorithms.
CO4	Create programs to secure the database using authentication and verify signatures.
CO5	Examine the password strength and mandatory access control.

Course Name: Advanced Learners Course 2 – A : Programming in C#

Course Code: 17UALAL509

CO1	Illustrate the basic concepts of C# programming.
CO2	Apply the concept of branching, looping, methods and arrays in C# programming.
CO3	Outline the importance of class, objects and inheritance.
CO4	Define the fundamentals of console I/O operations and exception mechanism.
CO5	Demonstrate the windows and web-based application development.

Course Name: Advanced Learners Course 2 – B : Distributed Computing

Course Code: 17UALAL510

CO1	Demonstrate the understanding of the basic concepts and architectures of distributed system.
CO2	Identify the processes and various types of communications.
CO3	Describe the concepts of naming and synchronization.
CO4	Illustrate the consistency models and replication management.
CO5	Analyze the distributed systems to support fault tolerance.

SEMESTER : VI

Course Name: Core 12 : Android Programming

Course Code: 17UALCT601

CO1	Demonstrate the understanding of the android user interface.
CO2	Describe the user interface, displaying pictures and menus with views.
CO3	Illustrate the use of data providers and content providers.
CO4	Implement the use of messaging and networking.
CO5	Make use of the developing android services and publishing android applications

Course Name: Core Lab 6 : Android Programming Lab

Course Code: 17UALCP602

CO1	Install and configure Android application development tools.
CO2	Apply essential Android Programming concepts.
CO3	Develop an application using basic graphical primitives and databases.
CO4	Design user Interfaces for the Android platform.
CO5	Apply Java programming concepts for Android application development.

Course Name: Elective – II - A : Computer Graphics**Course Code: 17UALET603**

CO1	Apply the various line drawing algorithms to scan and convert the basic geometric figures.
CO2	Demonstrate the importance of two dimensional geometric transformations and viewing.
CO3	Define the fundamentals of 3D concepts, 3D object representation and 3D geometric and modeling transformation.
CO4	Illustrate the concept of visible surface detection methods.
CO5	Define the color models and its applications.

Course Name: Elective – II – B : Multimedia Systems**Course Code: 17UALET604**

CO1	Demonstrate the understanding of the digital representation and visual display systems.
CO2	Illustrate the concept of text and color models.
CO3	Implement the drawing algorithms, transformations and surface texture.
CO4	Explain the fundamental characteristics of sound, audio recording systems and audio processing software.
CO5	Describe the video signal formats, video editing software and compression.

Course Name: Elective – II – C : 3D Animation**Course Code: 17UALET605**

CO1	Define 3D Animation and the production pipeline.
CO2	Develop the Digital imaging, video, animation, story and pre-visualization techniques with cameras.
CO3	Apply the basic principles, terminology and techniques of modeling and texturing behind polygons, NURBS, UVs, shaders.
CO4	Demonstrate the rigging and animation.
CO5	Illustrate the visual effects, lighting and rendering.

Course Name: Elective – III – A : Mobile Computing**Course Code: 17UALET606**

CO1	Demonstrate the understanding of the mobile computing architecture.
CO2	Describe the emerging technologies.
CO3	Illustrate the use of global system for mobile communications.
CO4	Implement the use of general packet radio service and wireless application protocol.
CO5	Make use of the CDMA and 3G technologies.

Course Name: Elective – III – B : Ethical Hacking

Course Code: 17UALET607

CO1	Define the basic concepts of ethical hacking and foot printing.
CO2	Illustrate the scanning, enumeration and system hacking techniques.
CO3	Develop the skills to solve trojans, backdoors, viruses, worms, sniffers and session hijacking
CO4	Implement the concepts of hacking web servers, SQL injection, buffer overflows and wireless hacking.
CO5	Identify the key aspects of physical security, cryptography algorithms and penetration testing methodologies.

Course Name: Elective – III – C : Cyber Law

Course Code: 17UALET608

CO1	Define what the IT Act 2000 offers and its various perspectives.
CO2	Explain the contracts in the Infotech world and jurisdiction in the cyber world.
CO3	Illustrate the importance of copyright protection in the cyber world.
CO4	Compare Indian evidence Act and Information Technology Act.
CO5	Describe the most significant issue of the protection of cyber consumers in India.

Course Name: Project Work

Course Code: 17UALCV609

CO1	Plan, analyze and design a software project and understand the techniques applicable to their own area of professional practice.
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Course Name: Skill based Course 4 (Lab) : Software Engineering and CASE Tools Lab

Course Code: 17UALSP610

CO1	Develop the project planning phase for the software application.
CO2	Develop the software requirement analysis document for the software application.
CO3	Develop the design models for the software application.
CO4	Develop the source code for the software project.
CO5	Construct the test cases for the software project.

Programme Title: B.Sc. Information Technology

Programme Outcomes: At the end of the programme, the students will be able to

PO Number	PO Statement
PO1	Critical Thinking: Take informed actions after identifying the assumptions that frame our thinking actions, checking out the degree to which these assumptions are accurate and valid, and looking at ideas and decisions (intellectual, organizational, and personal) from different perspectives.
PO2	Effective Communication: Speak, read, write and listen clearly in person and through electronic media in English and in one Indian language, and make meaning of the world by connecting people, ideas, books, media and technology.
PO3	Social Interaction: Elicit views of others, mediate disagreements and help reach conclusions in group settings.
PO4	Effective Citizenship: Demonstrate empathetic social concern and equity centred national development, and the ability to act with an informed awareness of issues and participate in civic activities through volunteering
PO5	Ethics: Recognize different value systems including your own, understand the moral dimensions of your decisions, and accept responsibility for them.
PO6	Environment and Sustainability: Understand the issues of environmental contexts and sustainable development.
PO7	Self-directed and Life-long Learning: Acquire the ability to engage in independent and life-long learning in the broadest context socio-technological changes

Programme Specific Outcomes: At the end of the programme, students will be equipped with the Knowledge in

PSO Number	PSO Statement
PSO1	Understand the principles and working of computing and communication systems
PSO2	Analyze the data for scientific and business applications by applying suitable algorithms and statistical techniques.
PSO3	Design and develop cost effective, secure reliable IT solutions for meeting the global needs.

SEMESTER: I**Course Name: Core 1 : Digital Principles****Course Code: 17UAMCT101**

CO1	Illustrate the concept of number systems and binary codes.
CO2	Demonstrate the boolean algebra, logic gates and karnaugh map.
CO3	Apply the arithmetic and logic circuit for binary addition.
CO4	Design the circuits using various types of flip-flops.
CO5	Summarize the concept of registers, counters and semiconductor memories.

Course Name: Core 2 : C Programming**Course Code: 17UAMCT102**

CO1	Describe the basic concepts of C programs and different types of data types.
CO2	Implement the decision making and looping statements.
CO3	Illustrate the concepts of arrays, character arrays and string
CO4	Apply user defined functions, structures and unions.
CO5	Explain the pointer and file concept.

Course Name: Core Lab 1 : C Programming Lab**Course Code: 17UAMCP103**

CO1	Apply the concepts of operators and expression.
CO2	Implement the branching and looping statements.
CO3	Illustrate character arrays and string
CO4	Develop a program that uses pointer to access a variable.
CO5	Develop a program that uses file operation

Course Name: Allied I: Numerical and Statistical Methods**Course Code: 17UAMAT104**

CO1	Explain the concepts of Numerical methods.
CO2	Discuss the terminology of Numerical Differentiation and Integration.
CO3	Describe the distinct Methods for Measures of Central Tendency.
CO4	Be aware of the concept of Correlation.
CO5	Evaluate Regression.

Name: Environmental Studies**Course Code: 17ES01**

CO1	Understand the different types of eco systems(Understand).
CO2	Identify the different types of land and energy resources(Remember).
CO3	Acquire the concept of biodiversity and its conservation(Apply).
CO4	Develop awareness against disaster management(Create).
CO5	Attain exposure to environmental policies(Apply).

SEMESTER: II**Course Name: Core 3 : Data Structures****Course Code: 17UAMCT201**

CO1	Demonstrate the data structures for storage and retrieval of ordered data.
CO2	Apply the stack and queues structure for problem solving.
CO3	Describe the singly linked list and doubly linked list structures .
CO4	Illustrate the data structures trees and graphs and algorithm to solve a problem.
CO5	Summarize the concepts about searching and sorting techniques

Course Name: Core 4 : Object Oriented Programming with C++**Course Code: 17UAMCT202**

CO1	Explain the basic concepts of object oriented programming and control structures
CO2	Demonstrate specification of classes with constructors and destructors
CO3	Illustrate Operator Overloading, type conversion and Inheritance
CO4	Apply pointers, virtual functions and formatted or unformatted I/O operations
CO5	Describe the file stream operations, templates, exception handling and string manipulations

Course Name: Core Lab 2: C++ Programming Lab**Course Code: 17UAMCP203**

CO1	Create programs with a class and member functions for arithmetic operations with constructors, destructors and inline functions
CO2	Develop a program to overload arithmetic operators, concatenate and compare two strings
CO3	Implement inheritance and virtual functions
CO4	Illustrate friend function and function overloading
CO5	Develop a program that uses pointers and file operations

Course Name: Allied 2: Discrete Mathematics**Course Code:17UAMAT204**

CO1	Verify the correctness of an argument using propositional and predicate logic and truth tables
CO2	Demonstrate the ability to solve problems using Normal forms.
CO3	Solve problems involving Relations and Ordering.
CO4	Construct proofs using Functions.
CO5	Explain and differentiate Lattices, Boolean algebra.

Course Name: Foundation Course II: Value Education**Course Code: 17VE01**

CO1	Define the Dimensions of Value System [Remember]
CO2	Build their personality in physical, mental, emotional and spiritual aspects [Apply]
CO3	Outline the benefits of sharing ideas and concern for the family members [Understand]
CO4	Identify the Vocational Problems and the solutions [Apply]
CO5	Examine the pull factors of social evils and identify the ways to eradicate them [Analyze]

SEMESTER: III**Course Name: Core 5: Database Systems****Course Code: 17UAMCT301**

CO1	Demonstrate the understanding of database systems and their architectures.
CO2	Illustrate the concept of relational algebra, calculus and relational query language.
CO3	Summarize the concepts of Entity Relationship Model and Enhanced Entity Relationship Model.
CO4	Apply the Functional Dependency, Decomposition and Normalization.
CO5	Describe the Database Recovery and Database Security.

Course Name: Core 6 :Java Programming**Course Code: 17UAMCT302**

CO1	Identify the basic concepts of java including class and flow control statements.
CO2	Apply the principles of inheritance, interface, polymorphism, exception handling and thread
CO3	Demonstrate the concepts of packages and I/O operations.
CO4	Describe the concepts of applets and exception handling mechanisms.
CO5	Develop an application using AWT and JDBC

Course Name: Core Lab 3:Java Programming Lab**Course Code: 17UAMCP303**

CO1	Apply java concepts includes class, method and constructor.
CO2	Design the concept of inheritance and exception handling.
CO3	Implement the usage of package and file handling operations.
CO4	Implement the methods of creating applets and mouse events.
CO5	Develop an application using swing and JDBC.

Course Name: Allied 3: Microprocessor and ALP**Course Code: 17UAMAT304**

CO1	Demonstrate the understanding of microcomputer systems.
CO2	Describe the 8085 microprocessor architecture and memory interfacing.
CO3	Make use of the instruction set of 8085 microprocessor and develop assembly codes to solve problems
CO4	Illustrate the use of Counters and Time Delays and Stack and Subroutine
CO5	Implement the 8085 interrupts and interface the microprocessors with 8259A and DMA

Course Name: Skill based Course 1(Lab): Database Systems Lab**Course Code: 17UAMSP305**

CO1	Create a table and apply common SQL statement using DML to perform different operation
CO2	Apply common SQL statements including DDL and aggregate functions to perform different operations.
CO3	Implement the concept of String functions, Date functions and Cursors.
CO4	Demonstrate the knowledge of Triggers and DCL statements.
CO5	Develop the concept of PL/SQL Procedure, Functions and Exception.

Course Name: Non Major Elective - I : Introduction to Information Technology**Course Code: 17UAMNT306**

CO1	Illustrate the historical development of computers, size of computers and components of computer system.
CO2	Identify the types of primary and secondary storage devices.
CO3	Explain the role of various input and output devices.
CO4	Analyze the system software, application software and database models.
CO5	Demonstrate the scope of computer networks and types of networks.

SEMESTER: IV**Course Name: Core 7: Operating Systems****Course Code: 17UAMCT401**

CO1	Demonstrate the understanding of the basic functionality of operating systems.
CO2	Identify the concepts of processes and threads.
CO3	Apply the deadlock and processor scheduling.
CO4	Describe the memory management and virtual memory.
CO5	Illustrate the concepts of I/O management and disk scheduling.

Course Name: Core 8: Web Technology**Course Code: 17UAMCT402**

CO1	Demonstrate the understanding of web programming and Internet.
CO2	Create web pages using XHTML and Cascading Style Sheet.
CO3	Build the dynamic web pages using JavaScript.
CO4	Implement the advanced concepts such as Servlets and JSP to create dynamic web pages.
CO5	Illustrate XML documents, schemas and build interactive web applications using AJAX.

Course Name: Core Lab 4: Web Technology Lab**Course Code: 17UAMCP403**

CO1	Identify the basic HTML elements and their attributes.
CO2	Build a static website and add dynamic functionality to it by using JavaScript.
CO3	Develop online applications using Servlets and JSP.
CO4	Implement XML documents and schemas.
CO5	Design and launch web services.

Course Name: Allied 4: Embedded Systems**Course Code: 17UAMAT404**

CO1	Demonstrate an understanding of concepts and architecture of embedded systems.
CO2	Develop a program for embedded systems using C, C++ and Java.
CO3	Identify the hardware platforms and communication interface required for developing embedded systems.
CO4	Implement the concepts of real-time operating systems.
CO5	Illustrate the process of creating a target image and development of navigation system.

Course Name: Skill Based Course 2(Lab): Multimedia Lab**Course Code: 17UAMSP405**

CO1	Design simple logos and banners using photoshop.
CO2	Create plastic surgery and text animation using photoshop.
CO3	Design visiting cards and realistic structures in photoshop.
CO4	Create cover pages for books and brochure about any function or event using photoshop.
CO5	Create color photo from black and white photo and design web pages using photoshop.

Course Name: Non Major Elective II: E- Commerce**Course Code: 17UAMNT406**

CO1	Demonstrate the understanding of the foundations and importance of E-Commerce.
CO2	Illustrate the theoretical frameworks with business strategies.
CO3	Identify the impact of Electronic Markets and Electronic Data Interchange.
CO4	Describe the key features of Internet and explain the elements of E-Commerce.
CO5	Analyze the fundamental principles of Electronic Business.

Course Name: Advanced Learners Course 1 – A: Linux Programming**Course Code: 17UAMAL407**

CO1	Describe the Linux Operating System.
CO2	Demonstrate the understanding of the files and directories.
CO3	Utilize the vi Editor to create files.
CO4	Identify the securing files in Linux and automate tasks using shell scripts.
CO5	Demonstrate the conditional execution in shell scripts and manage repetitive tasks using shell scripts.

Course Name: Advanced Learners Course 1 – B: PC Hardware

Course Code: 17UAMAL408

CO1	Demonstrate the understanding of the fundamentals of PC technology and microprocessor.
CO2	Identify the components of motherboard.
CO3	Classify the types of memory, magnetic storage devices and optical storage devices.
CO4	Describe keyboards, pointing devices, video subsystems and printers.
CO5	Apply the trouble shooting tools and techniques, basic data recovery and disaster recovery.

SEMESTER : V

Course Name: Core 9 : Data Communication and Networks

Course Code: 17UAMCT501

CO1	Demonstrate the understanding of the basic terminology and concepts of the OSI and the Internet model.
CO2	Explain the transmission media, multiplexing and telephone network.
CO3	Illustrate the concepts of data link layer, data link control protocols and multiple access.
CO4	Illustrate the concepts of network layer protocols and routing protocols.
CO5	Demonstrate the detailed understanding of various protocols of the transport layer and applications of DNS and electronic mail.

Course Name: Core 10 : Software Engineering

Course Code: 17UAMCT502

CO1	Define the key aspects in the software engineering and process models.
CO2	Apply the software requirement engineering tasks in the project.
CO3	Develop the different systematic design models for the project.
CO4	Apply the various testing procedures in the project.
CO5	Use the various software quality standards in the project.

Course Name: Core 11 : Visual Basic .NET Programming

Course Code: 17UAMCT503

CO1	Demonstrate the understanding of the .NET environment features and the .NET applications.
CO2	Design the forms and reports using the VB.NET features.
CO3	Construct the programs using the database concepts.
CO4	Design the web forms and websites using the ASP .NET features.
CO5	Apply the control features in the web forms.

Course Name: Core Lab 5 : VB .NET Programming Lab**Course Code: 17UAMCP504**

CO1	Design the forms by using the property features in the visual basic .NET environment.
CO2	Design and develop the forms, menus, tool bars and status bars in the visual basic .NET environment.
CO3	Develop the software applications by connecting the databases.
CO4	Design the web forms by using the ASP .NET controls.
CO5	Design and develop websites.

Course Name: Elective – I – A: Programming in PHP**Course Code: 17UAMET505**

CO1	Demonstrate the usage of variables and operators in PHP script.
CO2	Illustrate the program flow control and arrays.
CO3	Summarize the concepts of functions, classes, files and directories.
CO4	Describe the database and structured query language extension.
CO5	Apply the concepts of cookies, sessions and securing PHP.

Course Name: Elective – I – B: Python Programming**Course Code: 17UAMET506**

CO1	Identify the basic concepts of python including flow control statements.
CO2	Demonstrate the objects, numbers and strings in python programming.
CO3	Illustrate the features of sequences, lists, tuples and the program controls and loops.
CO4	Describe the concepts of files, command line arguments and persistent storage modules.
CO5	Apply the regular expressions and database programming concepts

Course Name: Elective – I – C: Programming in C#**Course Code: 17UAMET507**

CO1	CO1 Illustrate the basic concepts of C# programming.
CO2	Apply the concept of branching, looping, methods and arrays in C# programming.
CO3	Outline the importance of class, objects and inheritance.
CO4	Define the fundamentals of console I/O operations and exception mechanism.
CO5	Demonstrate the windows and web-based application development.

Course Name: Skill Based Course 3(Lab): PHP Programming Lab**Course Code: 17UAMSP508**

CO1	Implement the methods of HTML and message passing mechanism between forms.
CO2	Develop the program using control structures and date and time functions.
CO3	Implement the usage of file handling operations, string and arrays.
CO4	Develop an application using the concepts of MYSQL.
CO5	Install an application using cookie, session and form validation.

Course Name: Advanced Learners Course 2 – A: J2EE

Course Code: 17UAMAL509

CO1	Describe the enterprise applications, building blocks and architecture.
CO2	Create dynamic java pages with servlets and JSP.
CO3	Demonstrate JDBC with SQL Databases and JNDI.
CO4	Implement the RMI mechanism and EJB techniques.
CO5	Illustrate the development of JMS and transactions with JTA/JTS.

Course Name: Advanced Learners Course 2 – B: Middleware Technology

Course Code: 17UAMAL510

CO1	Describe the concepts of client server computing.
CO2	Demonstrate the understanding of the Java Bean component model with EJB.
CO3	Apply the client server applications using heterogeneous programming languages with EJB.
CO4	Describe the object oriented middleware basics through the CORBA.
CO5	Illustrate the development of distributed object fundamentals.

SEMESTER : VI

Course Name: Core 12: Information Security

Course Code: 17UAMCT601

CO1	Demonstrate the understanding of computer security and encryption techniques.
CO2	Explain the concepts of program security and protection in general purpose operating system.
CO3	Illustrate the concepts of security in database.
CO4	Illustrate the concepts of security in network, symmetric encryptions and public key encryption systems.
CO5	Demonstrate the detailed understanding of legal and ethical issues in computer security.

Course Name: Core Lab 6: Information Security Lab

Course Code: 17UAMCP602

CO1	Develop an algorithm to encrypt data using Caesar and Vernam Cipher.
CO2	Develop an algorithm to encrypt data using code-book cipher and transposition cipher.
CO3	Implement DES and AES.
CO4	Develop an algorithm to check authentication and verify password strength.
CO5	Implement Diffie-Hellman and RSA.

Course Name: Elective II – A : Artificial Intelligence

Course Code: 17UAMET603

CO1	Demonstrate the fundamentals of Artificial Intelligence and its foundations.
CO2	Illustrate basic principles of AI in solutions that require problem solving and constraint satisfaction.
CO3	Apply AI techniques for knowledge representation, planning and predicate logic.
CO4	Demonstrate intelligent algorithms for planning and game playing.
CO5	Define the fundamentals of perception, expert systems and its related technologies.

Course Name: Elective – II - Data Mining

Course Code: 17UAMET604

CO1	Illustrate the basic data mining concepts and their importance in business intelligent applications.
CO2	Identify and understand the fundamental technologies used in data mining techniques.
CO3	Demonstrate the understanding of the classification algorithms in the real world data sets.
CO4	Demonstrate the understanding of the clustering algorithms in the real world data sets.
CO5	Construct the association rules from the data sets.

Course Name: Elective – II – C: Cloud Computing

Course Code: 17UAMET605

CO1	Describe the strengths and limitations of cloud computing.
CO2	Illustrate the concepts of centralizing email communication and collaborations.
CO3	Implement the use of word processing, spreadsheets and databases.
CO4	Demonstrate the understanding of storing and sharing files and other online contents.
CO5	Make use of communication tools, blogs and wikis.

Course Name: Elective – III – A: Mobile Computing

Course Code: 17UAMET606

CO1	Demonstrate the understanding of the mobile computing architecture.
CO2	Describe the emerging technologies.
CO3	Illustrate the use of global system for mobile communications.
CO4	Implement the use of general packet radio service and wireless application protocol.
CO5	Make use of the CDMA and 3G technologies.

Course Name: Elective – III – B: Big Data Analytics

Course Code: 17UAMET607

CO1	Define Big Data and its uses.
CO2	Describe the Big Data technologies and Hadoop ecosystem.
CO3	Illustrate the fundamentals of MapReduce and HBase
CO4	Describe the storing of data in database and Hadoop.
CO5	Analyze the data with pig and Hive.

Course Name: Elective – III – C: Internet of Things

Course Code: 17UAMET608

CO1	Illustrate the Internet of Things enabling technologies and IOT levels.
CO2	Demonstrate the understanding of the basic domain specific IOTs.
CO3	Describe the various applications of IOT.
CO4	Apply the IOT design methodology using Python.
CO5	Illustrate the concepts of IOT Physical Devices.

Course Name: Project Work

Course Code: 17UAMCV609

CO1	Plan, analyze and design a software project and understand the techniques applicable to their own area of professional practice.
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Course Name: Skill Based Course 4 (Lab): Software Engineering and CASE Tools Lab

Course Code: 17UAMSP610

CO1	Develop the project planning phase for the software application.
CO2	Develop the software requirement analysis document for the software application.
CO3	Develop the design models for the software application.
CO4	Develop the source code for the software project.
CO5	Construct the test cases for the software project.

Programme Title: BBA

Programme Outcomes: At the end of the programme, the students will be able to

PO Number	PO Statement
PO1	Critical Thinking: Take informed actions after identifying the assumptions that frame our think and actions, checking out the degree to which these assumptions are accurate and valid, and look at our ideas and decisions (intellectual, organizational, and personal) from different perspectives.
PO2	Effective Communication: Speak, read, write and listen clearly in person and through electronic media in English and in one Indian language, and make meaning of the world by connecting people, ideas, books, media and technology.
PO3	Social Interaction: Elicit views of others, mediate disagreements and help reach conclusions in group settings.
PO4	Effective Citizenship: Demonstrate empathetic social concern and equity centred national development, and the ability to act with an informed awareness of issues and participate in civic through volunteering.
PO5	Ethics: Recognize different value systems including your own, understand the moral dimensions your decisions, and accept responsibility for them.
PO6	Environment and Sustainability: Understand the issues of environmental contexts and sustainable development.
PO7	Self-directed and Life-long Learning: Acquire the ability to engage in independent and life-long learning in the broadest context socio technological changes.

Programme Specific Outcomes: At the end of the programme, students will be equipped with the Knowledge in

PSO Number	PSO Statement
PSO1	Equipped with the field of Business Management and Entrepreneurship.
PSO2	Mathematical, analytical and statistical tools for making Business decisions.
PSO3	Process information for effectively performing the Managerial functions.

SEMESTER: I**Course Name: Core 1: MANAGEMENT PROCESS****Course Code: 17UABCT101**

CO1	Identify and explain the importance of the management process and identify some of the skills required for the contemporary management practice.
CO2	Develop business plans that support a company's strategic objectives.
CO3	Select and use appropriate resources to organize various functions of management
CO4	Evaluate leadership styles on analyzing the consequences of each style
CO5	Practice critical and creative thinking to improve the control process.

Course Name: Core 2 – Business Communication**Course Code: 17UABCT102**

CO1	Identify examples of effective communication and its importance in business.
CO2	Able to prepare letters for various business activities.
CO3	Understand the importance of internal and external communication.
CO4	Enable to prepare informal and formal letters.
CO5	Identify the suitable communication method based on the organization structure.

Course Name: Allied I: Mathematics for Managers - I**Course Code: 17UABAT103**

CO1	Understand the concepts of Simple Interest and Compound Interest.
CO2	Discuss the notation and terminology of Matrices.
CO3	Evaluating the Sources of Data.
CO4	Learn the concept of Measures of Central Tendency.
CO5	Understand the importance of Correlation and Index Number.

Name: Environmental Studies**Course Code: 17ES01**

CO1	Understand the different types of eco systems(Understand).
CO2	Identify the different types of land and energy resources(Remember).
CO3	Acquire the concept of biodiversity and its conservation(Apply).
CO4	Develop awareness against disaster management(Create).
CO5	Attain exposure to environmental policies(Apply).

SEMESTER: II**Course Name: Core 3 - Organizational Behaviour****Course Code: 17UABCT201**

CO1	Analyze individual and group behaviour, and understand the implications of Organizational behaviour on the process of management.
CO2	Identify different motivational theories and evaluate motivational strategies used in a variety of organizational settings.
CO3	Discuss attitude measurement and job satisfaction characteristics
CO4	Discuss foundations of group behavior and the dynamics of conflict and supervision.
CO5	To identify the various leadership theories and impact of culture towards organizations.

Course Name: Core 4 - Managerial Economics

Course Code: 17UABCT202

CO1	Analyze the demand and supply conditions and assess the position of a company.
CO2	Understanding and estimating production function.
CO3	Design competition strategies, including costing, pricing and market environment according to the natures of products and the structures of the markets.
CO4	Enable to fix the remuneration for factors of production.
CO5	Understanding basic concepts of macroeconomics.

Course Name: Allied Paper II: Mathematics for Managers - II

Course Code: 17UABAT203

CO1	Explain the concepts of Operations Research.
CO2	Learn the Transportation Problems and Assignment Problems.
CO3	Equip the students to know about Game Theory.
CO4	Acquire knowledge about Critical Path Method.
CO5	Understand the use of Project Evaluation and Review Techniques.

Course Name: Foundation Course II: Value Education

Course Code: 17VE01

CO1	Define the Dimensions of Value System [Remember]
CO2	Build their personality in physical, mental, emotional and spiritual aspects [Apply]
CO3	Outline the benefits of sharing ideas and concern for the family members [Understand]
CO4	Identify the Vocational Problems and the solutions [Apply]
CO5	Examine the pull factors of social evils and identify the ways to eradicate them [Analyze]

SEMESTER: III

Course Name: Core 5 - Operations Management

Course Code: 17UABCT301

CO1	Identify and evaluate the process, tools and principles of operations management with better understanding of the operations environment.
CO2	Identify the process needed to develop a new product from identifying the customer needs to deliver the final product as per customer satisfaction.
CO3	Identify future challenges and directions related to operations management and respond to such market changes effectively and efficiently.
CO4	Explain and evaluate the quality process in manufacturing and service sector to improve the operational performance.
CO5	Apply the modern tools and underlying principles of operations management in the manufacturing and service sectors to improve organizational performance.

Course Name: Core 6 - Marketing Management**Course Code: 17UABCT302**

CO1	Equip the learners with required skills to be a good marketing manager and to know about the bases of market segmentation.
CO2	Help the students to understand the product mix.
CO3	Equip the learners with required skills to develop a new product.
CO4	Make the students to analyze the kinds of pricing decisions.
CO5	Develop their knowledge in distribution channels.

Course Name: Core 7 - PC-SOFTWARE (MS-OFFICE)- THEORY**Course Code: 17UABCT303**

CO1	The student will create and name folders; rename, move or copy folders, format text, values, dates, and charts using various methods in the software, build various types of formulas; including SUM, AVERAGE, MIN and MAX using various techniques.
CO2	The student will create and edit, organize, save and print various objects of the database and format text, values, dates and data using various methods in the software.
CO3	The student will understand and utilize database object; including tables, reports, queries and forms.
CO4	The student will launch MS PowerPoint navigate and identify components of the software window.
CO5	The student will understand and utilize terminology for the presentation software, Word processing software and Spreadsheet software.

Course Name: CORE: 8 : Financial Accounting**Course Code: 17UABCT304**

CO1	Recognize and understand the basic concept of accounting.
CO2	Able to prepare the subsidiary books.
CO3	Enable to prepare the final accounts.
CO4	Identify the value of depreciation in various assets.
CO5	Understand the methods of single entry system

Course Name: Allied III: PC-Software (MS-Office)-Practical**Course Code: 17UABAT305**

CO1	Acquire knowledge to produce a report with appropriate formatting numbered paragraphs, referencing and footnotes using Microsoft Word
CO2	Gain skills to use Microsoft Word in generating text and graphic documents that meets a variety of professional requirements
CO3	Gain knowledge about Microsoft Excel to create, analyze, and manipulate data in complex electronic workbooks and charts
CO4	Able to use Microsoft PowerPoint to create engaging and informative presentations that illustrate good design principles by incorporating appropriate graphic, animated, and text elements.
CO5	Utilize the Microsoft Access to create query, analyze, and generate reports from databases.

Course Name: Skill Based Course 1- Soft Skills for Business – Viva Voce

Course Code: 17UABSV306

CO1	Improve the speaking and writing skills by reinforcing their listening and reading skills and habituating them.
CO2	Assist in developing their personality.
CO3	Help the students in developing their communication skills through effective use of English.
CO4	Equip their knowledge areas such as business correspondence, presentation, group discussion and interviews
CO5	Focus on to a chosen career path.

Course Name : Non Major Elective - I Fundamentals of Programming

Course Code: 17UALNT306

CO1	Demonstrate the basic concepts of computer, data representation and boolean algebra.
CO2	Illustrate the elementary concepts of flowchart and make simple computations using flowchart.
CO3	Apply the concepts of subscripted variables in one dimensional array.
CO4	Implement the multidimensional array concepts for developing programs.
CO5	Apply the concepts of file structure and file processing in computers.

SEMESTER: IV

Course Name: Core 9 – Human Resource Management

Course Code: 17UABCT401

CO1	An understanding of the HRM function and its relation to other organizational functions.
CO2	Showing how important functions such as human resource planning, job analysis, recruitment selection, training, managerial development and performance appraisal can be utilized attaining organizational goals.
CO3	Acquire knowledge about to develop a competitive advantage by using its human resources.
CO4	Enable the students to gain knowledge upon various techniques in HRM that contribute to the overall effectiveness of an Organization.
CO5	Develop the students knowledge in latest trends in human resources management in an organization.

Course Name: Core 10 - Financial Management

Course Code: 17UABCT402

CO1	Enable the students to understand the basic concepts of financial decisions, investment liquidity and dividend decisions.
CO2	Appraise the risk profile of firms and estimate the costs of capital, including debt and equity capital, using financial data.
CO3	Critically evaluate the theories of capital structure adopted in the company form of organization and understand the concepts of dividend policies expected by the shareholders and the theories of dividend policy.
CO4	Gain practical knowledge on working capital management, venture capital and lease financing.
CO5	Gain practical knowledge on capital budgeting and project appraisal.

Course Name: Core 11 – Management Information System

Course Code: 17UABCT403

CO1	Understand the concept of Management Information System.
CO2	Acquire knowledge about specific functions of Management Information System.
CO3	Know the hardware and software details of Management Information System
CO4	Gain knowledge about database information system in Management Information System.
CO5	Learn the data interchange applications in business.

Course Name: Core 12: Promotion Management

Course Code: 17UABCT404

CO1	Able to understand the promotion mix and personal selling.
CO2	Acquire knowledge about advertisement.
CO3	Know the media planning in advertisement.
CO4	Learn the creativity in advertising.
CO5	Gain knowledge about sales promotion.

Course Name: Allied-IV - Tally And E-Business

Course Code: 17UABAP405

CO1	Able to prepare a journal, Ledger and Trial Balance in Tally.
CO2	Understand and prepare the final accounts in tally.
CO3	Enable the VAT computation report and calculate the inventory details.
CO4	Integrate the payroll in tally.
CO5	Create web pages for business organization

Course Name: Skill based Course 2 – Interview Skills - Viva - voce

Course Code: 17UABSV406

CO1	Enable the students for career planning and different sources of information.
CO2	Organize and write an effective application letter and resume.
CO3	Understand the concepts, logic and methods of interviewing skills.
CO4	Develop the non verbal communication and group discussion.
CO5	Learn to behave and dress appropriately during interviews.

Course Name: Non Major Elective - II Web Graphics

Course Code: 17UALNT406

CO1	Outline the HTML coding and basic web graphics.
CO2	Demonstrate the components of Photoshop, image basics and file formats.
CO3	Apply the concepts of layers and color palette for animation.
CO4	Illustrate the usage of image editing techniques.
CO5	Apply the multimedia concepts of creating clippings and animations with sound effects.

Course Name: Advanced Learner Course – Event Management

Course Code: 17UABAL408

CO1	Learn the basic concept in event management.
CO2	Identify the activities to be carried out in event management.
CO3	Know the pricing strategy in even management.
CO4	Identify Strategic marketing planning.
CO5	Evaluate the event performance

SEMESTER : V

Course Name: Core 13 - Research Methods for Management

Course Code: 17UABCT501

CO1	Exposure to the knowledge of fundamental concepts in research.
CO2	Able to understand the relevant scaling, measurement and sampling techniques.
CO3	Capable of evaluating statistical analysis which includes various parametric test, non-parametric test, ANOVA technique and preparing report. Learners can also formulate research design for a given problem through hypothesis building.
CO4	Equipped with the understanding of the importance of the procedures to be followed research report writing and presentation.
CO5	Understand the various types of research applications.

Course Name: Core 14 - International Business

Course Code: 17UABCT502

CO1	Enable the students to understand the various modes of entering global markets.
CO2	Impart the learners about the various environment and WTO agreements.
CO3	Equip the students to know the financial support for international business.
CO4	Learn the international promotion strategies and marketing communication.
CO5	Acquire knowledge of the obstacles and impacts of globalisation.

Course Name: Core 15 – Banking Law and Practice

Course Code: 17UABCT503

CO1	Enable to understand the concepts of banking system in India.
CO2	Acquire the knowledge in commercial banking and its operation.
CO3	Understand the laws relating to negotiable instruments.
CO4	Able to know the procedures of term loans.
CO5	Learn the banking technology and security measures.

Course Name: Core 16 - Cost and Management Accounting

Course Code: 17UABCT504

CO1	Able to apply management accounting techniques for the effective operations of the organizations.
CO2	Demonstrate the mastery of costing systems, cost management systems, budgeting systems and performance measurement systems.
CO3	Capable of evaluating the costs and benefits of different conventional and contemporary costing systems.
CO4	Learn within teams - to co-operate with team members, to assume leadership and to manage differences and conflicts.
CO5	Learners know evaluate complex ideas and to tolerate ambiguity in managerial and organizational problem - solving.

Course Name: Elective - I: Consumer Behaviour

Course Code: 17UABET505

CO1	Able to identify the dynamics of human behaviour and the basic factors that influence the consumers decision process.
CO2	Understand the consumer research process and consumer motivation.
CO3	Acquire the knowledge in behavioral theories.
CO4	Identify the consumers on the basis of socio-economic nature.
CO5	Develop the knowledge related to consumer decision-making.

Course Name: Skill based Course 3: Managerial Skill Development - Viva – voce

Course Code: 17UABSV508

CO1	Acquire the effective management skills.
CO2	Gain knowledge related to problem solving and creativity.
CO3	Understand the way of building relationship with co-workers.
CO4	Able to develop and lead the team.
CO5	Understand the concept of empowerment.

Course Name: Advanced Learner Course - Brand Management

Course Code: 17UABAL509

CO1	Understand key principles of branding.
CO2	Able to know the branding concept.
CO3	Understand and conduct the measurement of brand equity and brand performance.
CO4	Practically develop a brand, including positioning and communication.
CO5	Prepare a professional, logical and coherent report in the form of a brand audit.

Course Name: Advanced Learner Course –Customer Relationship Management
Course Code: 17UABAL510

CO1	Learn the value of a relationship management strategy.
CO2	Able to develop the process of customer relationship management.
CO3	Gain the basic knowledge in sales force automation.
CO4	Gathering knowledge about online trading systems.
CO5	Review several features and benefits of various CRM systems.

SEMESTER : VI

Course Name: Core 17 - Entrepreneurship and Project Management
Course Code: 17UABCT601

CO1	Gain the knowledge about entrepreneurship.
CO2	Identify the institutional support to entrepreneurs.
CO3	Learn the concept of project management.
CO4	Understand the basics for selecting the project.
CO5	Know the various sources of funds for entrepreneurs.

Course Name: Core 19 - Strategic Management
Course Code: 17UABCT602

CO1	Gain basic knowledge in strategic management and the perspectives within this field.
CO2	Obtain Specific knowledge of perspectives, frameworks and concepts within Strategic think as well as companies mission, vision and corporate social responsibility.
CO3	Ability to think critically in relation to a particular problematic situation or strategic decision through real-world scenarios.
CO4	Recognize strategic decisions that present ethical challenges and make appropriate recommendations for decision-making.
CO5	Students get developed with the ability to apply appropriate tools, theories and concepts to analyze strategic issues in organizations.

Course Name: Elective-II - Insurance Principles and Practice
Course Code: 17UABET606

CO1	Identify and evaluate the processes, concepts and principles of insurance with better understanding of the insurance environment.
CO2	Equip the learners with required skills to know the life insurance policy and role of insurance agent.
CO3	Gain knowledge on general insurance.
CO4	Acquire knowledge about fire, marine, health engineering and corps insurance.
CO5	Enable the students to understand the role of insurance authority.

Course Name: Elective-III – Retail Management

Course Code: 17UABET609

CO1	Identify and understand basic theories, principles, practices and terminology related to each functional area of business.
CO2	Understand the ways that retailers use marketing tools and techniques to interact with their customers.
CO3	Able to understand the strategic planning for retailing.
CO4	Gain the knowledge upon the changes in retail business in India.
CO5	Enable to develop the strategic planning process in retailing

Course Name: Skill based Course- 4: Campus to Corporate –Viva Voce

Course Code: 17UABSV610

CO1	Understand the students for various types of etiquette.
CO2	Learn to dressing at corporate level.
CO3	Enable the students for different sources of e-communication.
CO4	Enable the students for Learn quantitative and qualitative aptitude.
CO5	Develop the positive attitude towards individual.

Programme Title: BBA with Computer Applications

Programme Outcomes: At the end of the programme, the students will be able to

PO Number	PO Statement
PO1	Critical Thinking: Take informed actions after identifying the assumptions that frame our thinking and actions, checking out the degree to which these assumptions are accurate and valid, and look at our ideas and decisions (intellectual, organizational, and personal) from different perspectives.
PO2	Effective Communication: Speak, read, write and listen clearly in person and through electronic media in English and in one Indian language, and make meaning of the world by connecting people, ideas, books, media and technology.
PO3	Social Interaction: Elicit views of others, mediate disagreements and help reach conclusions in group settings.
PO4	Effective Citizenship: Demonstrate empathetic social concern and equity centred national development, and the ability to act with an informed awareness of issues and participate in civic through volunteering.
PO5	Ethics: Recognize different value systems including your own, understand the moral dimensions your decisions, and accept responsibility for them.
PO6	Environment and Sustainability: Understand the issues of environmental contexts and sustainable development.
PO7	Self-directed and Life-long Learning: Acquire the ability to engage in independent and life-long learning in the broadest context socio technological changes.

Programme Specific Outcomes: At the end of the programme, students will be equipped with the Knowledge in

PSO Number	PSO Statement
PSO1	Equipped with the field of Business Management and Entrepreneurship.
PSO2	Mathematical, analytical and statistical tools for making Business decisions.
PSO3	Process information for effectively performing the Managerial functions.

SEMESTER: I**Course Name: Core 1: MANAGEMENT PROCESS****Course Code: 17UABCT101**

CO1	Identify and explain the importance of the management process and identify some of the skills required for the contemporary management practice.
CO2	Develop business plans that support a company's strategic objectives.
CO3	Select and use appropriate resources to organize various functions of management
CO4	Evaluate leadership styles on analyzing the consequences of each style
CO5	Practice critical and creative thinking to improve the control process.

Course Name: Core 2 – Business Communication**Course Code: 17UABCT102**

CO1	Identify examples of effective communication and its importance in business.
CO2	Able to prepare letters for various business activities.
CO3	Understand the importance of internal and external communication.
CO4	Enable to prepare informal and formal letters.
CO5	Identify the suitable communication method based on the organization structure.

Course Name: Allied I: Mathematics for Managers - I**Course Code: 17UABAT103**

CO1	Understand the concepts of Simple Interest and Compound Interest.
CO2	Discuss the notation and terminology of Matrices.
CO3	Evaluating the Sources of Data.
CO4	Learn the concept of Measures of Central Tendency.
CO5	Understand the importance of Correlation and Index Number.

Course Name: Environmental Studies**Course Code: 17ES01**

CO1	Understand the different types of eco systems(Understand).
CO2	Identify the different types of land and energy resources(Remember).
CO3	Acquire the concept of biodiversity and its conservation(Apply).
CO4	Develop awareness against disaster management(Create).
CO5	Attain exposure to environmental policies(Apply).

SEMESTER: II**Course Name: Core 3 - Organizational Behaviour****Course Code: 17UABCT201**

CO1	Analyze individual and group behaviour, and understand the implications of Organizational behaviour on the process of management.
CO2	Identify different motivational theories and evaluate motivational strategies used in a variety of organizational settings.
CO3	Discuss attitude measurement and job satisfaction characteristics
CO4	Discuss foundations of group behavior and the dynamics of conflict and supervision.
CO5	To identify the various leadership theories and impact of culture towards organizations.

Course Name: Core 4 - Managerial Economics

Course Code: 17UABCT202

CO1	Analyze the demand and supply conditions and assess the position of a company.
CO2	Understanding and estimating production function.
CO3	Design competition strategies, including costing, pricing and market environment according to the natures of products and the structures of the markets.
CO4	Enable to fix the remuneration for factors of production.
CO5	Understanding basic concepts of macroeconomics.

Course Name: Allied Paper II: Mathematics for Managers - II

Course Code: 17UABAT203

CO1	Explain the concepts of Operations Research.
CO2	Learn the Transportation Problems and Assignment Problems.
CO3	Equip the students to know about Game Theory.
CO4	Acquire knowledge about Critical Path Method.
CO5	Understand the use of Project Evaluation and Review Techniques.

Course Name: Foundation Course II: Value Education

Course Code: 17VE01

CO1	Define the Dimensions of Value System [Remember]
CO2	Build their personality in physical, mental, emotional and spiritual aspects [Apply]
CO3	Outline the benefits of sharing ideas and concern for the family members [Understand]
CO4	Identify the Vocational Problems and the solutions [Apply]
CO5	Examine the pull factors of social evils and identify the ways to eradicate them [Analyze]

SEMESTER: III

Course Name: Core 5 - Operations Management

Course Code: 17UABCT301

CO1	Identify and evaluate the process, tools and principles of operations management with better understanding of the operations environment.
CO2	Identify the process needed to develop a new product from identifying the customer needs to deliver the final product as per customer satisfaction.
CO3	Identify future challenges and directions related to operations management and respond to such market changes effectively and efficiently.
CO4	Explain and evaluate the quality process in manufacturing and service sector to improve the operational performance.
CO5	Apply the modern tools and underlying principles of operations management in the manufacturing and service sectors to improve organizational performance.

Course Name: Core 6 - Marketing Management**Course Code: 17UABCT302**

CO1	Equip the learners with required skills to be a good marketing manager and to know about the bases of market segmentation.
CO2	Help the students to understand the product mix.
CO3	Equip the learners with required skills to develop a new product.
CO4	Make the students to analyze the kinds of pricing decisions.
CO5	Develop their knowledge in distribution channels.

Course Name: Core 7 - PC-SOFTWARE (MS-OFFICE)- THEORY**Course Code: 17UABCT303**

CO1	The student will create and name folders; rename, move or copy folders, format text, values, dates, and charts using various methods in the software, build various types of formulas; including SUM, AVERAGE, MIN and MAX using various techniques.
CO2	The student will create and edit, organize, save and print various objects of the database and format text, values, dates and data using various methods in the software.
CO3	The student will understand and utilize database object; including tables, reports, queries and forms.
CO4	The student will launch MS PowerPoint navigate and identify components of the software window.
CO5	The student will understand and utilize terminology for the presentation software, Word processing software and Spreadsheet software.

Course Name: CORE: 8 : Financial Accounting**Course Code: 17UABCT304**

CO1	Recognize and understand the basic concept of accounting.
CO2	Able to prepare the subsidiary books.
CO3	Enable to prepare the final accounts.
CO4	Identify the value of depreciation in various assets.
CO5	Understand the methods of single entry system

Course Name: Allied III: PC-Software (MS-Office)-Practical**Course Code: 17UABAT305**

CO1	Acquire knowledge to produce a report with appropriate formatting numbered paragraphs, referencing and footnotes using Microsoft Word
CO2	Gain skills to use Microsoft Word in generating text and graphic documents that meets a variety of professional requirements
CO3	Gain knowledge about Microsoft Excel to create, analyze, and manipulate data in complex electronic workbooks and charts
CO4	Able to use Microsoft PowerPoint to create engaging and informative presentations that illustrate good design principles by incorporating appropriate graphic, animated, and text elements.
CO5	Utilize the Microsoft Access to create query, analyze, and generate reports from databases.

Course Name: Skill Based Course 1- Soft Skills for Business – Viva Voce

Course Code: 17UABSV306

CO1	Improve the speaking and writing skills by reinforcing their listening and reading skills and habituating them.
CO2	Assist in developing their personality.
CO3	Help the students in developing their communication skills through effective use of English.
CO4	Equip their knowledge areas such as business correspondence, presentation, group discussion and interviews
CO5	Focus on to a chosen career path.

Course Name : Non Major Elective - I Fundamentals of Programming

Course Code: 17UALNT306

CO1	Demonstrate the basic concepts of computer, data representation and boolean algebra.
CO2	Illustrate the elementary concepts of flowchart and make simple computations using flowchart.
CO3	Apply the concepts of subscripted variables in one dimensional array.
CO4	Implement the multidimensional array concepts for developing programs.
CO5	Apply the concepts of file structure and file processing in computers.

SEMESTER: IV

Course Name: Core 9 – Human Resource Management

Course Code: 17UABCT401

CO1	An understanding of the HRM function and its relation to other organizational functions.
CO2	Showing how important functions such as human resource planning, job analysis, recruitment selection, training, managerial development and performance appraisal can be utilized attaining organizational goals.
CO3	Acquire knowledge about to develop a competitive advantage by using its human resources.
CO4	Enable the students to gain knowledge upon various techniques in HRM that contribute to the overall effectiveness of an Organization.
CO5	Develop the students knowledge in latest trends in human resources management in an organization.

Course Name: Core 10 - Financial Management

Course Code: 17UABCT402

CO1	Enable the students to understand the basic concepts of financial decisions, investment liquidity and dividend decisions.
CO2	Appraise the risk profile of firms and estimate the costs of capital, including debt and equity capital, using financial data.
CO3	Critically evaluate the theories of capital structure adopted in the company form of organization and understand the concepts of dividend policies expected by the shareholders and the theories of dividend policy.
CO4	Gain practical knowledge on working capital management, venture capital and lease financing.
CO5	Gain practical knowledge on capital budgeting and project appraisal.

Course Name: Core 11 – Management Information System

Course Code: 17UABCT403

CO1	Understand the concept of Management Information System.
CO2	Acquire knowledge about specific functions of Management Information System.
CO3	Know the hardware and software details of Management Information System
CO4	Gain knowledge about database information system in Management Information System.
CO5	Learn the data interchange applications in business.

Course Name: Core 12: Promotion Management**Course Code: 17UABCT404**

CO1	Able to understand the promotion mix and personal selling.
CO2	Acquire knowledge about advertisement.
CO3	Know the media planning in advertisement.
CO4	Learn the creativity in advertising.
CO5	Gain knowledge about sales promotion.

Course Name: Allied-IV - Tally And E-Business**Course Code: 17UABAP405**

CO1	Able to prepare a journal, Ledger and Trial Balance in Tally.
CO2	Understand and prepare the final accounts in tally.
CO3	Enable the VAT computation report and calculate the inventory details.
CO4	Integrate the payroll in tally.
CO5	Create web pages for business organization

Course Name: Skill based Course 2 – Interview Skills - Viva - voce**Course Code: 17UABSV406**

CO1	Enable the students for career planning and different sources of information.
CO2	Organize and write an effective application letter and resume.
CO3	Understand the concepts, logic and methods of interviewing skills.
CO4	Develop the non verbal communication and group discussion.
CO5	Learn to behave and dress appropriately during interviews.

Course Name: Non Major Elective - II Web Graphics**Course Code: 17UALNT406**

CO1	Outline the HTML coding and basic web graphics.
CO2	Demonstrate the components of Photoshop, image basics and file formats.
CO3	Apply the concepts of layers and color palette for animation.
CO4	Illustrate the usage of image editing techniques.
CO5	Apply the multimedia concepts of creating clippings and animations with sound effects.

Course Name: Advanced Learner Course – Event Management
Course Code: 17UABAL408

CO1	Learn the basic concept in event management.
CO2	Identify the activities to be carried out in event management.
CO3	Know the pricing strategy in even management.
CO4	Identify Strategic marketing planning.
CO5	Evaluate the event performance

SEMESTER : V

Course Name: Core 13 - Research Methods for Management
Course Code: 17UABCT501

CO1	Exposure to the knowledge of fundamental concepts in research.
CO2	Able to understand the relevant scaling, measurement and sampling techniques.
CO3	Capable of evaluating statistical analysis which includes various parametric test, non-parametric test, ANOVA technique and preparing report. Learners can also formulate research design for a given problem through hypothesis building.
CO4	Equipped with the understanding of the importance of the procedures to be followed research report writing and presentation.
CO5	Understand the various types of research applications.

Course Name: Core 14 - International Business
Course Code: 17UABCT502

CO1	Enable the students to understand the various modes of entering global markets.
CO2	Impart the learners about the various environment and WTO agreements.
CO3	Equip the students to know the financial support for international business.
CO4	Learn the international promotion strategies and marketing communication.
CO5	Acquire knowledge of the obstacles and impacts of globalisation.

Course Name: Core 15 – Banking Law and Practice
Course Code: 17UABCT503

CO1	Enable to understand the concepts of banking system in India.
CO2	Acquire the knowledge in commercial banking and its operation.
CO3	Understand the laws relating to negotiable instruments.
CO4	Able to know the procedures of term loans.
CO5	Learn the banking technology and security measures.

Course Name: Core 16 - Cost and Management Accounting

Course Code: 17UABCT504

CO1	Able to apply management accounting techniques for the effective operations of the organizations.
CO2	Demonstrate the mastery of costing systems, cost management systems, budgeting systems and performance measurement systems.
CO3	Capable of evaluating the costs and benefits of different conventional and contemporary costing systems.
CO4	Learn within teams - to co-operate with team members, to assume leadership and to manage differences and conflicts.
CO5	Learners know evaluate complex ideas and to tolerate ambiguity in managerial and organizational problem - solving.

Course Name: Elective - I: Consumer Behaviour

Course Code: 17UABET505

CO1	Able to identify the dynamics of human behaviour and the basic factors that influence the consumers decision process.
CO2	Understand the consumer research process and consumer motivation.
CO3	Acquire the knowledge in behavioral theories.
CO4	Identify the consumers on the basis of socio-economic nature.
CO5	Develop the knowledge related to consumer decision-making.

Course Name: Skill based Course 3: Managerial Skill Development - Viva – voce

Course Code: 17UABSV508

CO1	Acquire the effective management skills.
CO2	Gain knowledge related to problem solving and creativity.
CO3	Understand the way of building relationship with co-workers.
CO4	Able to develop and lead the team.
CO5	Understand the concept of empowerment.

Course Name: Advanced Learner Course - Brand Management

Course Code: 17UABAL509

CO1	Understand key principles of branding.
CO2	Able to know the branding concept.
CO3	Understand and conduct the measurement of brand equity and brand performance.
CO4	Practically develop a brand, including positioning and communication.
CO5	Prepare a professional, logical and coherent report in the form of a brand audit.

Course Name: Advanced Learner Course –Customer Relationship Management
Course Code: 17UABAL510

CO1	Learn the value of a relationship management strategy.
CO2	Able to develop the process of customer relationship management.
CO3	Gain the basic knowledge in sales force automation.
CO4	Gathering knowledge about online trading systems.
CO5	Review several features and benefits of various CRM systems.

SEMESTER : VI

Course Name: Core 17 - Entrepreneurship and Project Management
Course Code: 17UABCT601

CO1	Gain the knowledge about entrepreneurship.
CO2	Identify the institutional support to entrepreneurs.
CO3	Learn the concept of project management.
CO4	Understand the basics for selecting the project.
CO5	Know the various sources of funds for entrepreneurs.

Course Name: Core 19 - Strategic Management
Course Code: 17UABCT602

CO1	Gain basic knowledge in strategic management and the perspectives within this field.
CO2	Obtain Specific knowledge of perspectives, frameworks and concepts within Strategic thinking as well as companies mission, vision and corporate social responsibility.
CO3	Ability to think critically in relation to a particular problematic situation or strategic decision through real-world scenarios.
CO4	Recognize strategic decisions that present ethical challenges and make appropriate recommendations for decision-making.
CO5	Students get developed with the ability to apply appropriate tools, theories and concepts to analyze strategic issues in organizations.

Course Name: Elective-II - Insurance Principles and Practice
Course Code: 17UABET606

CO1	Identify and evaluate the processes, concepts and principles of insurance with better understanding of the insurance environment.
CO2	Equip the learners with required skills to know the life insurance policy and role of insurance agent.
CO3	Gain knowledge on general insurance.
CO4	Acquire knowledge about fire, marine, health engineering and corporate insurance.
CO5	Enable the students to understand the role of insurance authority.

Course Name: Elective-III – Retail Management

Course Code: 17UABET609

CO1	Identify and understand basic theories, principles, practices and terminology related to each functional area of business.
CO2	Understand the ways that retailers use marketing tools and techniques to interact with their customers.
CO3	Able to understand the strategic planning for retailing.
CO4	Gain the knowledge upon the changes in retail business in India.
CO5	Enable to develop the strategic planning process in retailing

Course Name: Skill based Course- 4: Campus to Corporate –Viva Voce

Course Code: 17UABSV610

CO1	Understand the students for various types of etiquette.
CO2	Learn to dressing at corporate level.
CO3	Enable the students for different sources of e-communication.
CO4	Enable the students for Learn quantitative and qualitative aptitude.
CO5	Develop the positive attitude towards individual.

Programme Title: B.Sc. Catering Science & Hotel Management

Programme Outcomes: Students of all undergraduate general degree programs at the time of graduation will be able to

PO Number	PO Statement
PO1	Critical Thinking Take informed actions after identifying the assumptions that frame our thinking and actions, checking out the degree to which these assumptions are accurate and valid, and looking at our ideas and decisions (intellectual, organizational and personal) from different perspectives.
PO2	Effective Communication Speak, read, write and listen clearly in person and through electronic media in English and in one Indian language, and making meaning of the world by connecting people, ideas, books, media and technology.
PO3	Social Interaction Elicit views of others, mediate disagreements and help reach conclusions in group settings.
PO4	Effective Citizenship Demonstrate empathetic social concern and equity centered national development and the ability to act with an informed awareness of issues and participate in civil life through volunteering.
PO5	Ethics Recognize different value systems including your own, understand the multiple dimensions of your decisions, and accept responsibility for them.
PO6	Environmental and Sustainability Understand the issues of environmental contexts and sustainable development.
PO7	Self-directed and Life-long Learning Acquire the ability to engage in independent and life-long learning in the broad context of socio-technological changes.

Programme Specific Outcomes: At the end of the Programme, the students will be able to

PSO Number	PSO STATEMENT
PSO1	To acquire knowledge and professional techniques in the core areas of the hotel and other hospitality sectors.
PSO2	To apply the acquired knowledge to manage and evaluate functional systems in the hospitality industry.
PSO3	To produce quality graduates with balanced knowledge, skills and industry exposure in hotel management.

SEMESTER: I

COURSE NAME: FOOD PRODUCTION I

COURSE CODE: 17UATCT101

CO1	Shall know the basic knowledge about the attitude of a kitchen staff.
CO2	Will have a good knowledge in classification of cooking materials.
CO3	Will possess a thorough knowledge in preparation of ingredients.
CO4	Shall know the knowledge of cooking methods
CO5	Can enrich their skills and knowledge in preparations of spices and masalas

COURSE NAME : FOOD AND BEVERAGE SERVICE I

COURSE CODE : 17UATCT102

CO1	Will have a basic knowledge of Attributes of a F & B staff.
CO2	Will attain knowledge in types of F&B operations, Types of restaurants.
CO3	Shall know the equipments used and their maintenance.
CO4	Can enrich their knowledge in ancillary department.
CO5	Will have a knowledge of menu and their types.

COURSE NAME : HOUSEKEEPING MANAGEMENT

COURSECODE : 17UATAT103

CO1	Acquire a basic knowledge of job specification and job description of HK staff.
CO2	Will attain knowledge in functions of HK department.
CO3	Shall know the cleaning equipments used and contract services.
CO4	Can enrich their knowledge in linen and pest control.
CO5	Will have a knowledge of flower arrangement and types of stains.

Name: Environmental Studies

Course Code: 17ES01

CO1	Understand the different types of eco systems(Understand).
CO2	Identify the different types of land and energy resources(Remember).
CO3	Acquire the concept of biodiversity and its conservation(Apply).
CO4	Develop awareness against disaster management(Create).
CO5	Attain exposure to environmental policies(Apply).

SEMESTER: II

COURSE NAME :FOOD PRODUCTION II

COURSE CODE :17UATCT201

CO1	Will gain knowledge about the food production outlet and responsibilities of kitchen staff.
CO2	Will enrich their knowledge about identification of rice, cereals and pulses .
CO3	Shall know the basic knowledge of milk and its byproducts.
CO4	Can enrich their knowledge about stock soup and sauces with examples.
CO5	Will attain knowledge about meat and fish cookery.

COURSE NAME :FOOD AND BEVERAGE SERVICE II

COURSE CODE :17UATCT202

CO1	Shall know the basic knowledge about styles of service.
CO2	Will enrich their knowledge about non – alcoholic beverages classification.
CO3	Will gain knowledge about Hors d' oeuvres, Cheese, Ice-creams, savouries, sweets and its covers.
CO4	Can enrich their knowledge in types of breakfast and its cover and order taking procedure.
CO5	Will have a good knowledge in types of billing system and types of checks.

COURSE NAME : CORE PRACTICAL-FOOD PRODUCTION I

COURSE CODE :17UATCP203

CO1	Will have a basic knowledge about safety procedure and identification of equipment
CO2	Will have a good knowledge in Rice, cereals & pulses, breads preparations.
CO3	Will have a good knowledge in basic Indian Masalas and their uses in curries.
CO4	Can enrich their skills in cuts of vegetables, Preparations of stock, sauces and soups.
CO5	Will possess a thorough knowledge in preparation of meat, fish,egg,poultry and dessert.

COURSE NAME : CORE PRACTICAL- FOOD AND BEVERAGE SERVICE I

COURSE CODE :17UATCP204

CO1	Will know the Appraising and drawing of service equipments.
CO2	Will attain practical ability in the carrying and handling of trays and glasswares.
CO3	Will know the knowledge about greeting and presenting menu card to the guest.
CO4	Shall understand about the service of Hors d' oeuvres,soups,fish,maincourse .
CO5	Can enrich their skills in cover setup for breakfast and bill presentation.

COURSE NAME : CORE PRACTICAL-HOUSEKEEPING MANAGEMENT
COURSE CODE :17UATAP205

CO1	Acquire a basic knowledge of Identification of cleaning equipments and agents
CO2	Will attain knowledge in cleaning of various surfaces and polishing.
CO3	Shall know the room cleaning and bed making procedure.
CO4	Can enrich their knowledge flower arrangement and duty rota preparations.
CO5	Will have knowledge of laundry and lost and found procedure.

Course Name: Foundation Course II: Value Education
Course Code: 17VE01

CO1	Define the Dimensions of Value System [Remember]
CO2	Build their personality in physical, mental, emotional and spiritual aspects [Apply]
CO3	Outline the benefits of sharing ideas and concern for the family members [Understand]
CO4	Identify the Vocational Problems and the solutions [Apply]
CO5	Examine the pull factors of social evils and identify the ways to eradicate them [Analyze]

SEMESTER: III

COURSE NAME :FOOD PRODUCTION III
COURSE CODE :17UATCT301

CO1	Shall know the basic knowledge of Indian regional cuisine.
CO2	Will have a good knowledge in regions of North India.
CO3	Will possess a thorough knowledge in regions of South India.
CO4	Shall know the knowledge of Indian breakfast.
CO5	Can enrich their skills and knowledge in Indian breads and tandoori.

COURSE NAME :FOOD & BEVERAGE SERVICE III
COURSE CODE :17UATCT302

CO1	Will have a basic knowledge of Alcoholic beverages.
CO2	Will attain knowledge in the manufacturing process of various spirits.
CO3	Shall know the categories, types and brands of various spirits.
CO4	Can enrich their knowledge in liqueurs and other spirits.
CO5	Will have a basic knowledge of tobacco, cigars and cigarettes.

COURSE NAME :HOTEL ACCOUNTING
COURSE CODE :17UATCT303

CO1	Apply generally accepted accounting principles to hospitality situations, define the terms debit and credit, explain the basis of the double - entry accounting system and identify the normal balances of commonly used accounts.
CO2	Illustrate how to journalize and post accounting entries and prepare trial balance for accounts.
CO3	Describe the terms associated with receivables and payables, outline ways to avoid bad debt losses, and explain methods used to account for bad debt expenses.
CO4	Identify broad guidelines for controlling inventories and explain the role of inventory in the calculation of profit.
CO5	Explain the purposes of the uniform system of accounts and identify those systems that are relevant to the hospitality industry.

COURSE NAME :FRONT OFFICE OPERATIONS**COURSE CODE :17UATAT304**

CO1	Will gain the Basic Knowledge about front office in the Hotel Industry.
CO2	Shall understand the role of front office in hotel operation.
CO3	Will possess a thorough knowledge in reservation
CO4	Will possess a thorough knowledge in registration.
CO5	Can enrich their knowledge in front office statistical information.

COURSE NAME :BAKERY & CONFECTIONERY**COURSE CODE :17UATST305**

CO1	Will have a basic knowledge about bakery.
CO2	Will possess a thorough knowledge in biscuits and cookies.
CO3	Can enrich their skills in cake making methods.
CO4	Will know about the basic types of dough and pastes.
CO5	Can enrich their skills in icings and sugar confectionery.

COURSE NAME : SKILL BASED PRACTICAL -BAKERY & CONFECTIONERY**COURSE CODE :17UATSP306**

CO1	Will attain methods of preparation of different breads.
CO2	Shall know the preparation of cookies and biscuits.
CO3	Will possess a thorough knowledge in paste preparation.
CO4	Can enrich their skills in making pies and cakes.
CO5	Shall know the preparation of pastries.

COURSE NAME :NME- FOUNDATION COOKERY**COURSE CODE :17UATNT307**

CO1	Will attain the basic attributes of cooking.
CO2	Will have a good knowledge of classification of ingredients.
CO3	Will have a good knowledge of foundation ingredients in cooking.
CO4	Will possess a thorough knowledge in basic preparation of ingredients
CO5	Can enrich their skills and knowledge in methods of cooking.

SEMESTER: IV**COURSE NAME :FOOD PRODUCTION IV****COURSE CODE :17UATCT401**

CO1	Will know the concepts of International cuisines
CO2	Shall attain professional cooking skills towards the International cuisine.
CO3	Will get the knowledge about the various methods of cooking techniques.
CO4	Will know the classification of raw materials based on their characters
CO5	Shall know the recipes of popular dishes from all over the world.

COURSE NAME :FOOD AND BEVERAGE SERVICE IV**COURSE CODE :17UATCT402**

CO1	Will have a basic knowledge of wine and classifications.
CO2	Will know the manufacturing process of wines.
CO3	Will possess a thorough knowledge in wines of the World.
CO4	Can enrich their skills and knowledge in matching of food with wines.
CO5	Will possess a thorough knowledge in popular wine brands.

COURSE NAME :TOURISM & TRAVEL MANAGEMENT**COURSE CODE :17UATET403**

CO1	Will be able to understand the concepts of tourism and travel agencies.
CO2	Will have a good knowledge in tourism marketing.
CO3	Can enrich their knowledge in tourism products and types of tourism.
CO4	Will possess a thorough knowledge about travel documents.
CO5	Can enrich their knowledge in tourism planning & development.

COURSE NAME :CORE PRACTICAL-FOOD PRODUCTION II**COURSE CODE :17UATCP406**

CO1	Will have a basic knowledge about Indian foods.
CO2	Will have a good knowledge in Indian gravies.
CO3	Will have a good knowledge in Indian breakfast and snacks.
CO4	Can enrich their skills and knowledge in breads and rice varieties.
CO5	Will possess a thorough knowledge in popular dishes of each category.

COURSE NAME :CORE PRACTICAL-FOOD & BEVERAGE SERVICE II**COURSE CODE :17UATCP407**

CO1	Will know the wine service procedures and its classification.
CO2	Will attain practical ability in the service of spirits.
CO3	Will know the legal responsibilities followed in serving alcohol.
CO4	Shall understand about the various cocktail making methods.
CO5	Can enrich their skills in garnish and presentation of drinks.

COURSE NAME :ALLIED PRACTICAL-FRONT OFFICE OPERATIONS
COURSE CODE :17UATAP408

CO1	Will have knowledge of front office sections.
CO2	Will possess knowledge in telephone handling skills.
CO3	Will have a good knowledge in reservation and registration process.
CO4	Will possess a thorough knowledge in handling guest complaints.
CO5	Can enrich their skills and knowledge in front office statistical information.

COURSE NAME :FOOD PRESERVATION
COURSE CODE :17UATET409

CO1	Will have a basic knowledge about concept of food preservations.
CO2	Will have a good knowledge in preservation techniques by using food chemicals.
CO3	Will possess a thorough knowledge in processing of foods
CO4	Can enrich their skills and knowledge in preservation of food by Cold & Hot temperatures.
CO5	Will have a knowledge in radiation of foods.

COURSE NAME :BAR MANAGEMENT
COURSE CODE :17UATST412

Course Outcomes (CO): On completion of the course, students should be able to	
CO 1	Will have a basic knowledge of bar operations.
CO 2	Will have a good knowledge in purchasing, storing and issuing of beverages.
CO 3	Shall have knowledge in bar records and control process.
CO 4	Will possess a thorough knowledge in cocktails.
CO 5	Can enrich their skills and knowledge in bar sales and marketing.

COURSE NAME : CORE PRACTICAL -FOOD PRODUCTION II
COURSE CODE :17UATCP406

CO1	Will have a basic knowledge of Indian masalas.
CO2	Will have a good knowledge in Tandoori Preparations.
CO3	Will possess a thorough knowledge in Popular Indian Sweets and other dishes
CO4	Can enrich their skills and knowledge in Indian Cuisine.
CO5	Shall know the recipes of popular dishes from India.

COURSE NAME : CORE PRACTICAL –FOOD & BEVERAGE SERVICE II
COURSE CODE :17UATCP407

CO1	Will know the wine service procedures and its classification.
CO2	Will attain practical ability in the service of spirits.
CO3	Will know the legal responsibilities followed in serving alcohol.
CO4	Shall understand about the various cocktail making methods.
CO5	Can enrich their skills in garnish and presentation of drinks.

SEMESTER: V**COURSE NAME :FOOD AND BEVERAGE MANAGEMENT****COURSE CODE :17UATCT501**

CO1	Will have a basic knowledge of food and beverage functions.
CO2	Will understand the concept of purchasing and receiving.
CO3	Shall understand the knowledge about food and beverage control.
CO4	Can enrich their knowledge in breakeven analysis.
CO5	Will have a basic knowledge of menu engineering and menu merchandising.

COURSE NAME :FOOD PRODUCTION V**COURSE CODE :17UATCT502**

CO1	Will understand the kitchen management system.
CO2	Shall epitomize the knowledge of larder.
CO3	Will know the essence of aspics & jellies.
CO4	Can analyze techniques for cold meats.
CO5	Shall know the food presentation and garnishes.

COURSE NAME :FOOD AND BEVERAGE SERVICE V**COURSE CODE :17UATCT503**

CO 1	Will have a basic knowledge of Gueridon services.
CO 2	Will understand the concept of function catering.
CO 3	Shall understand the knowledge about banquets.
CO 4	Can enrich their knowledge in Outdoor catering.
CO 5	Will have a basic knowledge of budgeting and budgeting control

COURSE NAME : HUMAN RESOURCE MANAGEMENT**COURSE CODE :17UATET506**

CO1	Will understand HR functions and organization.
CO2	Can explore the recruitment process.
CO3	Shall epitomize training and development.
CO4	Will know the communication process.
CO5	Shall be aware of the industrial relations.

COURSE NAME : CORE PRACTICAL -FOOD PRODUCTION III**COURSE CODE :17UATCP507**

CO1	Will practice the international cuisines.
CO2	Shall epitomize the international ingredients.
CO3	Will know the volume cooking.
CO4	Can learning the meat preparations.
CO5	Shall be identify the different cuisines.

COURSE NAME : CORE PRACTICAL –FOOD & BEVERAGE SERVICE III**COURSE CODE : 17UATCP508**

CO1	Will know the Banquets booking procedure.
CO2	Will attain practical ability in the service toasting.
CO3	Will know the buffet planning and organization.
CO4	Shall understand about the types of buffet
CO5	Can enrich their skills in Gueridon dishes.

COURSE NAME : SKILL BASED PRACTICAL –BAR MANAGEMENT**COURSE CODE : 17UATSP509**

CO1	Will know how to compile an alcoholic beverage list.
CO2	Shall understand about the various cocktail making methods.
CO3	Understand the basic knowledge of serving alcohol.
CO4	Observe the establishment conventions in service of beverages.
CO5	Can enrich their skills in speciality coffee.

SEMESTER VI**COURSE NAME : INDUSTRIAL EXPOSURE TRAINING****COURSE CODE : 17UATCV601**

CO1	Expose the students to actual working environment.
CO2	Enhance their knowledge and skills from what they have learned in the college.
CO3	Learn technical skills from the Industrial experts.
CO4	Instill the good qualities of integrity, responsibility and self confidence.
CO5	Preparing the student for a professional career.

Programme Title: B.Sc. Costume Design and Fashion

Programme Outcomes: At the end of the programme, the students will be able to

PO Number	PO Statement
PO1	Critical Thinking: Take informed actions after identifying the assumptions that frame our thinking and actions, checking out the degree to which these assumptions are accurate and valid, and looking at our ideas and decisions (intellectual, organizational, and personal) from different perspectives.
PO2	Effective Communications: Speak, read, write and listen clearly in person and through electronic media in English and in one Indian language and make meaning of the world by connecting people, ideas, books, media and technology.
PO3	Social Interaction: Elicit views of others, mediate disagreements and help reach conclusions in group settings.
PO4	Effective Citizenship: Demonstrate empathetic social concern and equity centered national development, and the ability to act with an informed awareness of issues and participate in civic life through volunteering.
PO5	Ethics: Recognize different value systems including your own, understand the moral dimensions of your decisions, and accept responsibility for them.
PO6	Environment and Sustainability: Understand the issues of environmental contexts and sustainable development.
PO7	Self - directed and Life-long Learning: Acquire the ability to engage in independent and life-long learning in the broadest context socio-technological changes.

Programme Specific Outcomes:

At the end of the programme, students will be equipped with the Knowledge in

PSO Number	PSO Statement
PSO1	Art of Design, Science of Chemistry and perspective of History with the power of imagination.
PSO2	Basic theories of Fashion design, Pattern making, Illustration and construction of garments.
PSO3	Technical understanding of Fibres, fabrics and finishes.

SEMESTER: I**Course Name: Core 1:Basics of Apparel Designing****Course Code: 17UARCT101**

CO1	Gain knowledge on essential tools used in sewing
CO2	Apply fullness in garment construction
CO3	Build knowledge on types of plackets, buttons and buttonholes
CO4	Understand the various sleeve and yoke patterns
CO5	Perceive knowledge on construction procedure of collars and pockets.

Course Name:Core 2 :Principles of Pattern Making**Course Code: 17UARCT102**

CO1	Understand the significance of body measurements
CO2	Perceive knowledge on methods of pattern making
CO3	Analyze the style manipulation techniques
CO4	Gain knowledge on grading and pattern alteration
CO5	Determine the layout styles in pattern making

Course Name: Core Practical 1 : Apparel Designing**Course Code: 17UARCP103**

CO1	Gain Knowledge about Basics of Stitching
CO2	Prepare samples for Neckline Finishing
CO3	Construct Samples for Plackets, Fasteners and Sleeve
CO4	Define and Develop Yokes with and without Fullness
CO5	Experiment with Samples for Collars and Pockets

Course Name: Allied Paper I: Fashion Illustration Practical**Course Code: 17UARAP104**

CO1	Gain knowledge about basic drawing technique using different medium of colors
CO2	Understand the head theories and figure types
CO3	Build knowledge in illustrating features of the body
CO4	Illustrate pattern details in garment designing
CO5	Develop various garment styles for men, women and children for different seasons

Name: Environmental Studies**Course Code: 17ES01**

CO1	Understand the different types of eco systems(Understand).
CO2	Identify the different types of land and energy resources(Remember).
CO3	Acquire the concept of biodiversity and its conservation(Apply).
CO4	Develop awareness against disaster management(Create).
CO5	Attain exposure to environmental policies(Apply).

SEMESTER: II**Course Name: Core 3 - Fashion Designing Concepts****Course Code: 17UARCT201**

CO1	Understand the fashion terminologies and types of designs
CO2	Describe the elements and principles of designs
CO3	Identify and classify the different colour theories
CO4	Develop skills in dress designing for various figure types
CO5	Design the garments for different seasons

Course Name: Core Practical 2 - Fashion Designing**Course Code: 17UARCP202**

CO 1	Understand the origin and application of color and design
CO 2	Implement elements of design in dress design
CO 3	Gain knowledge on principles of design and its application
CO 4	Adapt their artistic abilities to create new designs using color schemes
CO 5	Develop own individual style for various figure types

Course Name: Core Practical 3 - Children's Apparel**Course Code: 17UARCP203**

CO1	Experiment with taking of correct body measurements
CO2	Understand the concept of pattern making
CO3	Adapt suitable material for children's garments
CO4	Develop the design by applying different seams and fullness
CO5	Improve their creativity in garment construction according to the trend

Course Name: Allied Paper II: Sewing Technology**Course Code: 17UARAT204**

CO1	Analyse various sewing machineries and its application
CO2	Gain knowledge about stitching mechanism
CO3	Understand the various spreading and cutting machines
CO4	Interpret the marking methods and use of pressing equipments
CO5	Describe the sewing federal standards for stitches, seams and sewing thread

Course Name: Foundation Course II: Value Education**Course Code: 17VE01**

CO1	Define the Dimensions of Value System [Remember]
CO2	Build their personality in physical, mental, emotional and spiritual aspects [Apply]
CO3	Outline the benefits of sharing ideas and concern for the family members [Understand]
CO4	Identify the Vocational Problems and the solutions [Apply]
CO5	Examine the pull factors of social evils and identify the ways to eradicate them [Analyze]

SEMESTER: III**Course Name: Core 4 - Fibre to Fabric****Course Code: 17UARCT301**

CO1	Identify and classify the different types of fibres
CO2	Explain the manufacturing process and properties of various fibres
CO3	Understand the process of spinning
CO4	Classify yarns and analyse its attributes
CO5	Elaborate the various fabric formation methods

Course Name: Core 5 - Fashion Clothing Psychology**Course Code: 17UARCT302**

CO1	Understand the fashion terminologies and varied consumer needs
CO2	Identify the trends in clothing behavior and changes in fashion
CO3	Summarise the activities involved in fashion and colour forecasting
CO4	Elaborate the consumer characteristics and fashion implication
CO5	Create an understanding of the fashion centers of the world

Course Name: Core Practical 4 - Fibre to Fabric**Course Code: 17UARCP303**

CO1	Identify the different types of fibres
CO2	Determine the yarn count
CO3	Describe the methods of fabric testing
CO4	Demonstrate the handling of testing equipments
CO5	Examine the fabric count by using various techniques

Course Name: Allied Paper III: Computer Aided Designing Practical - I**Course Code: 17UARAP304**

CO1	Describe the fundamentals of fashion designing using software
CO2	Develop their knowledge in designing software related to colour harmony
CO3	Compile their own ideas into garment designs
CO4	Predict the designs related to trend forecast
CO5	Design the men's and women's garments with various features

Course Name: Skill based Subject 1- Basics of Draping Practical**Course Code: 17UARSP305**

CO1	Develop three dimensional designs on the dress form in basic style
CO2	Modify the basic bodice pattern into stylized garments
CO3	Design various kinds of fullness in draping
CO4	Create different types of skirts, yokes and collars
CO5	Develop new apparel designs on the dress form

Course Name: Non Major Elective - I Fundamentals of Textiles

Course Code: 17UARNT306

CO1	Develop an appreciation of the significance of textiles and gain knowledge on various fibers
CO2	Describe the process of yarn and fabric formation
CO3	Understand the principles of coloration of textiles
CO4	Outline the steps in garment manufacturing
CO5	Apply their knowledge on fabric care

SEMESTER: IV

Course Name: Core 6 - Fabric Structure and Design

Course Code: 17UARCT401

CO1	Identify and classify the different structures of woven design
CO2	Illustrate draft and peg plan for a given design of a woven fabric
CO3	Construct basic weaves and their derivatives
CO4	Construct fancy weaves for toweling , ornamentation and upholstery applications
CO5	Identify the relationship between the fabric structure and its properties

Course Name: Core 7 - Care and Maintenance of Textiles

Course Code: 17UARCT402

CO1	Understand the manufacturing process of soap, detergents and their applications
CO2	Develop skills in preparation of starch and its applications
CO3	Build knowledge on various laundry and drying equipments
CO4	Analyze various stages of laundering of natural and manmade fabrics
CO5	Identify the stain types and to apply suitable stain removable treatment process

Course Name: Core Practical 5 - Women's Apparel

Course Code: 17UARCP403

CO1	Create an understanding of concepts of pattern making
CO2	Experiment with taking of correct body measurements
CO3	Identify the materials suitable for Women's garments
CO4	Design the garments with application of different seams and fullness
CO5	Develop their skills in garment construction

Course Name: Allied Paper IV: Computer Aided Designing Practical - II

Course Code: 17UARAP404

CO1	Identify and use the appropriate tools for the designing process
CO2	Apply CAD software for creating fashion mood boards
CO3	Create designs for making digital cards and posters
CO4	Develop their own colour palette for future fashion trend
CO5	Create pattern making , grading and marker planning by using CAD

Course Name: Skill based Subject 2 – Fabric Ornamentation Practical
Course Code: 17UARSP405

CO1	Identify and use embroidery tools with safety precautions
CO2	Classify the temporary and permanent stitches
CO3	Develop garment parts with bead / sequin work
CO4	Apply smocking and applique work in garments
CO5	Differentiate and develop various traditional embroidery stitches and designs

Course Name: Non Major Elective - II Basics of Fashion Designing
Course Code: 17UARNT406

CO1	Develop an understanding of terminologies of fashion designing
CO2	Perceive knowledge on design and design elements
CO3	Describe principles of design in dress design
CO4	Gain knowledge in the basic color theories
CO5	Create their own designs according to seasons

Course Name: Advanced Learner Course A–Trend Forecast
Course Code: 17UARAL407

CO1	Identify the right method of forecasting
CO2	Summarize the role of a fashion forecaster
CO3	Elaborate the service and resources related to fashion
CO4	Build the essential knowledge in qualitative and quantitative forecasting methods
CO5	Determine the techniques in color forecasting

Course Name: Advanced Learner Course B –Apparel Costing
Course Code: 17UARAL408

CO1	List and define the type of cost used in apparel industry
CO2	Describe the process involved in budgeting
CO3	Develop cost sheet for apparel industry
CO4	Calculate costing for woven and knitted products
CO5	Determine the market forces that affects garment costing

SEMESTER : V

Course Name: Core 8 - Knitting Technology
Course Code: 17UARCT501

CO1	Understand the basics of knitting and knit structures
CO2	Summarize the characteristics and working principle of weft knitting
CO3	Illustrate the structures of weft knitting
CO4	Elaborate the working principle of warp knit structures
CO5	Develop knowledge on maintenance of knit materials

Course Name: Core 9 - Textile Processing

Course Code: 17UARCT502

CO1	Understand the sequence of textile processing
CO2	Analyze various chemicals used in preparatory and dyeing processes
CO3	Understand the working of dyeing machineries
CO4	Perceive knowledge on various principles of printing process
CO5	State the methods of application of finishes

Course Name: Core Practical 6 - Fabric Structure Analysis

Course Code: 17UARCP503

CO1	Identify and represent plain weave and its derivatives on point paper
CO2	Identify and represent twill weave and its derivatives on point paper
CO3	Identify and represent the structures of toweling fabrics on point paper
CO4	Identify and represent the compound weaves on point paper
CO5	Identify and analyze the structure of basic knits

Course Name: Core Practical 7 - Textile Processing

Course Code: 17UARCP504

CO1	Understand the fabric preparation process
CO2	Demonstrate the process of dyeing
CO3	Build knowledge on natural dyeing process
CO4	Create different design patterns using direct printing method
CO5	Develop new designs using resist style of printing

Course Name: Elective - I: Historic Costumes and Textiles of India

Course Code: 17UARET505

CO1	Identify the costumes worn during various historical periods
CO2	Categorize the jewellery worn during various historical periods
CO3	Understand the various textile materials prevalent in India
CO4	Understand the colors, stitches used in Indian traditional embroidery
CO5	Elaborate the Indian traditional costumes

Course Name: Elective - I: Home Furnishing

Course Code: 17UARET506

CO1	Build knowledge on basics of home textile
CO2	Identify the types of home textile and its care
CO3	Classify the different type of furnishings and its maintenance
CO4	Identify the type of kitchen linens and curtains
CO5	Understand the various types of layout

Course Name: Elective - I: Entrepreneurship Development

Course Code: 17UARET507

CO1	Understand the concept of Entrepreneurship
CO2	Identify the motivational factors in Entrepreneurship
CO3	Classify the type of Enterprises
CO4	Assess the methods of project appraisal
CO5	Identify the types of institutional finance to entrepreneur

Course Name: Skill based Subject 3: Business and Accounting

Course Code: 17UARST508

CO1	Understand the basics of business
CO2	Build knowledge on accounting
CO3	Apply knowledge on trial balance
CO4	Identify the profit and loss of a concern
CO5	Estimate the elements of costing

Course Name: Advanced Learner Course A - BASICS OF TECHNICAL TEXTILES

Course Code: 17UARAL509

CO1	Categorize the various segments of technical textiles
CO2	Perceive knowledge on application of agrotech, clothtech and buildtech
CO3	Analyze the functions of geotech, homotech and indutech
CO4	Summarize the application areas of meditech, mobiltech and oekotech
CO5	Identify the materials used in packtech, protech and sport tech

Course Name: Advanced Learner Course B - Basics of Jewellery Designing

Course Code: 17UARAL510

CO1	Build knowledge on basics of jewellery making
CO2	Understand the process of jewellery making
CO3	Explain the traditional jewelleries of India
CO4	Elaborate the history of Indian jewellery
CO5	Determine the treatment given for gem stones

SEMESTER : VI

Course Name: Core 10 - Garment Quality and Cost Control

Course Code: 17UARCT601

CO1	Understand the basics of quality parameters
CO2	Summarize the quality specifications
CO3	Outline the apparel production control
CO4	Identify the various production systems
CO5	Develop knowledge on cost control

Course Name: Core Practical 8- Fashion Portfolio Presentation

Course Code: 17UARCP602

CO1	Infer the concepts of fashion portfolios
CO2	Develop skills in making mood boards
CO3	Analyze and create design styles for various themes
CO4	Gain new insights through universal coloring system and fabric textures
CO5	Exhibit the innovation design collections based on selected themes

Course Name: Core Practical 9- Men's Apparel

Course Code: 17UARCP603

CO1	Construct S.B. vest with various styles
CO2	Construct Slack Shirt with various styles
CO3	Construct Nehru Kurtha and Pyjama with various styles
CO4	Construct Trouser with various styles
CO5	Construct T-Shirt and Bermudas with various styles

Course Name: Elective –II: Fashion Marketing and Retailing

Course Code: 17UARET604

CO1	Understand the fundamentals of marketing
CO2	Infer the basic concepts of fashion retailing
CO 3	Understand the role of merchandiser in fashion industry
CO4	Study the importance of pricing in marketing
CO5	Gain insight on fashion promotional activities

Course Name: Elective –II: Apparel Production Management

Course Code: 17UARET605

CO1	Summarize the basic concepts of apparel production
CO2	Determine the factors involved in production planning
CO3	Demonstrate the methods of production system
CO4	Analyze and interpret the role of garment assembly
CO5	Understand the techniques in apparel quality management

Course Name: Elective –II: Business Finance

Course Code: 17UARET606

CO1	Analyze and interpret the concept and scope of finance
CO2	Describe the objectives and steps in business finance
CO3	Develop capital and type of finance used in business
CO4	Perceive the cost and earning theory
CO5	Calculate costing for individual and composite cost for finance

Course Name: Elective - III: Organization of garment unit

Course Code: 17UARET607

CO1	Build Knowledge on entrepreneurship
CO2	Analyze the various financial institutions for the best financial deals
CO3	Understand the different departments in a garment unit
CO4	Develop wide knowledge on factory design and layout
CO5	Demonstrate the export procedures

Course Name: Elective - III: Export Management

Course Code: 17UARET608

CO1	Build knowledge on international trade
CO2	Identify the method of pricing your product
CO3	Assess payment options, including letter of credit
CO4	Understand the export process
CO5	Identify the various export promotion organizations

Course Name: Elective - III: Apparel Quality Management

Course Code: 17UARET609

CO1	Understand the basic concepts of quality and testing
CO2	Summarize the ISO standards in quality management
CO3	Develop knowledge on quality parameters of yarn and fabric
CO4	Classify the types of inspection
CO5	Describe the basics of environmental management system

Course Name: Skill based Subject - 4: Computer Aided Designing Practical -III

Course Code: 17UARSP610

CO1	Create various weaves and color combinations
CO2	Apply practical knowledge on creation of designs
CO3	Experiment with tools for creating jacquard weaves
CO4	Understand the basics of Adobe Illustrator
CO5	Elaborate the role of Illustrator in dress design

Programme Title: B.Sc. Costume Design and Fashion (Vocational)

Programme Outcomes: At the end of the programme, the students will be able to

PO Number	PO Statement
PO1	Critical Thinking: Take informed actions after identifying the assumptions that frame our thinking and actions, checking out the degree to which these assumptions are accurate and valid, and looking at our ideas and decisions (intellectual, organizational, and personal) from different perspectives.
PO2	Effective Communications: Speak, read, write and listen clearly in person and through electronic media in English and in one Indian language and make meaning of the world by connecting people ideas, books, media and technology.
PO3	Social Interaction: Elicit views of others, mediate disagreements and help reach conclusions in group settings.
PO4	Effective Citizenship: Demonstrate empathetic social concern and equity centered national development, and the ability to act with an informed awareness of issues and participate in civic life through volunteering.
PO5	Ethics: Recognize different value systems including your own, understand the moral dimensions of your decisions, and accept responsibility for them.
PO6	Environment and Sustainability: Understand the issues of environmental contexts and sustainable development.
PO7	Self - directed and Life-long Learning: Acquire the ability to engage in independent and life-long learning in the broadest context socio-technological changes.

Programme Specific Outcomes: At the end of the programme, students will be equipped with the Knowledge in

PSO Number	PSO Statement
PSO1	Fundamentals of Design, Pattern making, Illustration and construction of Garments.
PSO2	Developing technical expertise through digital design softwares for Fashion applications.
PSO3	Technical understanding of Fibres, fabrics and finishes.

SEMESTER: I**Course Name: Core 1:Basics of Apparel Designing****Course Code: 17UASCT101**

CO1	Gain knowledge on essential tools used in sewing
CO2	Apply fullness in garment construction
CO3	Build knowledge on types of plackets, buttons and buttonholes
CO4	Understand the various sleeve and yoke patterns
CO5	Perceive knowledge on construction procedure of collars and pockets.

Course Name:Core 2 :Principles of Pattern Making**Course Code: 17UASCT102**

CO1	Understand the significance of body measurements
CO2	Perceive knowledge on methods of pattern making
CO3	Analyze the style manipulation techniques
CO4	Gain knowledge on grading and pattern alteration
CO5	Determine the layout styles in pattern making

Course Name: Core Practical 1 :Garment Construction**Course Code: 17UASCP103**

CO1	Gain Knowledge about Basics of Stitching
CO2	Prepare samples for Neckline Finishing
CO3	Construct Samples for Plackets, Fasteners and Sleeve
CO4	Define and Develop Yokes with and without Fullness
CO5	Experiment with Samples for Collars and Pockets

Course Name: Allied Paper I: Fashion Sketching Practical**Course Code: 17UASAP104**

CO1	Gain knowledge about basic drawing technique using different medium of colors
CO2	Understand the head theories and figure types
CO3	Build knowledge in illustrating features of the body
CO4	Illustrate pattern details in garment designing
CO5	Develop various garment styles for men, women and children for different seasons

Name: Environmental Studies**Course Code: 17ES01**

CO1	Understand the different types of eco systems(Understand).
CO2	Identify the different types of land and energy resources(Remember).
CO3	Acquire the concept of biodiversity and its conservation(Apply).
CO4	Develop awareness against disaster management(Create).
CO5	Attain exposure to environmental policies(Apply).

SEMESTER: II**Course Name: Core 3 - Fashion Designing Concepts****Course Code: 17UASCT201**

CO1	Understand the fashion terminologies and types of designs
CO2	Describe the elements and principles of designs
CO3	Identify and classify the different colour theories
CO4	Develop skills in dress designing for various figure types
CO5	Design the garments for different seasons

Course Name: Core Practical 2 - Fashion Designing**Course Code: 17UASCP202**

CO1	Understand the origin and application of color and design
CO2	Implement elements of design in dress design
CO3	Gain knowledge on principles of design and its application
CO4	Adapt their artistic abilities to create new designs using color schemes
CO5	Develop own individual style for various figure types

Course Name: Core Practical 3 - Children's Apparel**Course Code: 17UASCP203**

CO1	Experiment with taking of correct body measurements
CO2	Understand the concept of pattern making
CO3	Adapt suitable material for children's garments
CO4	Develop the design by applying different seams and fullness
CO5	Improve their creativity in garment construction according to the trend

Course Name: Allied Paper II: CAD in Fashion Designing Practical-I**Course Code: 17UASAP204**

CO1	Understand the concepts of designing using CorelDraw
CO2	Create designs using appropriate tools and techniques
CO3	Develop digital boards for fashion needs
CO4	Design and develop garments for Children, Men and Women
CO5	Apply CAD software to create 3D designs

Course Name: Foundation Course II: Value Education**Course Code: 17VE01**

CO1	Define the Dimensions of Value System [Remember]
CO2	Build their personality in physical, mental, emotional and spiritual aspects [Apply]
CO3	Outline the benefits of sharing ideas and concern for the family members [Understand]
CO4	Identify the Vocational Problems and the solutions [Apply]
CO5	Examine the pull factors of social evils and identify the ways to eradicate them [Analyze]

SEMESTER: III**Course Name: Core 4 - Fibre to Fabric****Course Code: 17UASCT301**

CO1	Identify and classify the different types of fibres
CO2	Explain the manufacturing process and properties of various fibres
CO3	Understand the process of spinning
CO4	Classify yarns and analyse its attributes
CO5	Elaborate the various fabric formation methods

Course Name: Core 5 - Indian Art and Costumes**Course Code: 17UASCT302**

CO1	Classify the Indian art and paintings
CO2	Summarize about the lifestyles of ancient India
CO3	Analyze the traditional costumes of ancient periods
CO4	Distinguish the factors affecting the costumes and jewellery of various states
CO5	Interpret the role of textiles and surface designs as a source of inspiration for new design developments

Course Name: Core Practical 4 - Fibre to Fabric**Course Code: 17UASCP303**

CO1	Identify the different types of fibres
CO2	Determine the yarn count
CO3	Describe the methods of fabric testing
CO4	Demonstrate the handling of testing equipments
CO5	Examine the fabric count by using various techniques

Course Name: Allied Paper III: CAD in Fashion Designing Practical - II**Course Code: 17UASAP304**

CO1	Identify and use the appropriate tools for the designing process
CO2	Apply CAD software for creating fashion mood boards
CO3	Create designs for making digital cards and posters
CO4	Develop their own colour palette for future fashion trend
CO5	Create pattern making, grading and marker planning by using CAD

Course Name: Skill based Subject 1- Draping Techniques Practical**Course Code: 17UASSP305**

CO1	Develop three dimensional designs on the dress form in basic style
CO2	Modify the basic bodice pattern into stylized garments
CO3	Design various kinds of fullness in draping
CO4	Create different types of skirts, yokes and collars
CO5	Develop new apparel designs on the dress form

Course Name: Non Major Elective - I Fundamentals of Textiles

Course Code: 17UASNT306

CO1	Develop an appreciation of the significance of textiles and gain knowledge on various fibers
CO2	Describe the process of yarn and fabric formation
CO3	Understand the principles of coloration of textiles
CO4	Outline the steps in garment manufacturing
CO5	Apply their knowledge on fabric care

SEMESTER: IV

Course Name: Core 6 - Fabric Structure and Design

Course Code: 17UASCT401

CO1	Identify and classify the different structures of woven design
CO2	Illustrate draft and peg plan for a given design of a woven fabric
CO3	Construct basic weaves and their derivatives
CO4	Construct fancy weaves for toweling , ornamentation and upholstery applications
CO5	Identify the relationship between the fabric structure and its properties

Course Name: Core 7 - Care and Maintenance of Textiles

Course Code: 17UASCT402

CO1	Understand the manufacturing process of soap, detergents and their applications
CO2	Develop skills in preparation of starch and its applications
CO3	Build knowledge on various laundry and drying equipments
CO4	Analyze various stages of laundering of natural and manmade fabrics
CO5	Identify the stain types and to apply suitable stain removable treatment process

Course Name: Core Practical 5 - Women's Apparel

Course Code: 17UASCP403

CO1	Create an understanding of concepts of pattern making
CO2	Experiment with taking of correct body measurements
CO3	Identify the materials suitable for Women's garments
CO4	Design the garments with application of different seams and fullness
CO5	Develop their skills in garment construction

Course Name: Allied Paper IV: CAD in Fashion Designing Practical - III

Course Code: 17UASAP404

CO1	Identify and use the appropriate tools for the designing process
CO2	Design and Develop their own photographs according to fashion forecast
CO3	Create designs for making digital cards and posters
CO4	Apply CAD Softwares for creating fashion mood boards
CO5	Develop their own color palette for future fashion trend

Course Name: Skill based Subject 2 – Surface Ornamentation Practical

Course Code: 17UASSP405

CO1	Identify and use embroidery tools with safety precautions
CO2	Classify the temporary and permanent stitches
CO3	Develop garment parts with bead / sequin work
CO4	Apply smocking and applique work in garments
CO5	Differentiate and develop various traditional embroidery stitches and designs

Course Name: Non Major Elective - II Basics of Fashion Designing

Course Code: 17UASNT406

CO1	Develop an understanding of terminologies of fashion designing
CO2	Perceive knowledge on design and design elements
CO3	Describe principles of design in dress design
CO4	Gain knowledge in the basic color theories
CO5	Create their own designs according to seasons

Course Name: Advanced Learner Course A –Trend Forecast

Course Code: 17UASAL407

CO1	Identify the right method of forecasting
CO2	Summarize the role of a fashion forecaster
CO3	Elaborate the service and resources related to fashion
CO4	Build the essential knowledge in qualitative and quantitative forecasting methods
CO5	Determine the techniques in color forecasting

Course Name: Advanced Learner Course B –Apparel Costing

Course Code: 17UASAL408

CO1	List and define the type of cost used in apparel industry
CO2	Describe the process involved in budgeting
CO3	Develop cost sheet for apparel industry
CO4	Calculate costing for woven and knitted products
CO5	Determine the market forces that affects garment costing

SEMESTER : V

Course Name: Core 8 - Knitting Technology

Course Code: 17UASCT501

CO1	Understand the basics of knitting and knit structures
CO2	Summarize the characteristics and working principle of weft knitting
CO3	Illustrate the structures of weft knitting
CO4	Elaborate the working principle of warp knit structures
CO5	Develop knowledge on maintenance of knit materials

Course Name: Core 9 - Textile Processing**Course Code: 17UASCT502**

CO1	Understand the sequence of textile processing
CO2	Analyze various chemicals used in preparatory and dyeing processes
CO3	Understand the working of dyeing machineries
CO4	Perceive knowledge on various principles of printing process
CO5	State the methods of application of finishes

Course Name: Core Practical 6 - Fabric Structure Analysis**Course Code: 17UASCP503**

CO1	Identify and represent plain weave and its derivatives on point paper
CO2	Identify and represent twill weave and its derivatives on point paper
CO3	Identify and represent the structures of toweling fabrics on point paper
CO4	Identify and represent the compound weaves on point paper
CO5	Identify and analyze the structure of basic knits

Course Name: Core Practical 7 - Textile Processing**Course Code: 17UASCP504**

CO1	Understand the fabric preparation process
CO2	Demonstrate the process of dyeing
CO3	Build knowledge on natural dyeing process
CO4	Create different design patterns using direct printing method
CO5	Develop new designs using resist style of printing

Course Name: Elective - I: Fashion Product Development and Marketing**Course Code: 17UASET505**

CO1	Pursue a professional career in designing and developing fashion products
CO2	Understand the activities involved in Line Concept development and Design Development process
CO3	Familiarize with Line product development process
CO4	Introduce the fashion marketing environment
CO5	Understand the market levels in fashion industry

Course Name: Elective - I: Home Furnishing**Course Code: 17UASET506**

CO1	Build knowledge on basics of home textile
CO2	Identify the types of home textile and its care
CO3	Classify the different type of furnishings and its maintenance
CO4	Identify the type of kitchen linens and curtains
CO5	Understand the various types of layout

Course Name: Elective - I: Entrepreneurship Development

Course Code: 17UASET507

CO1	Understand the concept of Entrepreneurship
CO2	Identify the motivational factors in Entrepreneurship
CO3	Classify the type of Enterprises
CO4	Assess the methods of project appraisal
CO5	Identify the types of institutional finance to entrepreneur

Course Name: Skill based Subject 3: Business and Accounting

Course Code: 17UASST508

CO1	Understand the basics of business
CO2	Build knowledge on accounting
CO3	Apply knowledge on trial balance
CO4	Identify the profit and loss of a concern
CO5	Estimate the elements of costing

Course Name: Advanced Learner Course A - Basics of Technical Textiles

Course Code: 17UASAL509

CO1	Categorize the various segments of technical textiles
CO2	Perceive knowledge on application of agrotech, clothtech and buildtech
CO3	Analyze the functions of geotech, homotech and indutech
CO4	Summarize the application areas of meditech, mobiltech and oekotech
CO5	Identify the materials used in packtech, protech and sport tech

Course Name: Advanced Learner Course B - Basics of Jewellery Designing

Course Code: 17UASAL510

CO1	Build knowledge on basics of jewellery making
CO2	Understand the process of jewellery making
CO3	Explain the traditional jewelleries of India
CO4	Elaborate the history of Indian jewellery
CO5	Determine the treatment given for gem stones

SEMESTER : VI

Course Name: Core 10 - Apparel Production Techniques

Course Code: 17UASCT601

CO1	Identify the concepts related to the historical background of apparel industry
CO2	Study the infrastructure facilities needed for starting an industry
CO3	Gain insight into designers influence on manufacturing schedule and costing
CO4	Learn the various production operations
CO5	Develop knowledge on finishing process

Course Name: Core Practical 8- Fashion Portfolio Presentation

Course Code: 17UASCP602

CO1	Infer the concepts of fashion portfolios
CO2	Develop skills in making mood boards
CO3	Analyze and create design styles for various themes
CO4	Gain new insights through universal coloring system and fabric textures
CO5	Exhibit the innovation design collections based on selected themes

Course Name: Core Practical 9- Men's Apparel

Course Code: 17UASCP603

CO1	Construct S.B. vest with various styles
CO2	Construct Slack Shirt with various styles
CO3	Construct Nehru Kurtha and Pyjama with various styles
CO4	Construct Trouser with various styles
CO5	Construct T-Shirt and Bermudas with various styles

Course Name: Elective –II:Boutique Management

Course Code: 17UASET604

CO1	Define and classify the types of business
CO2	Choose the right place and sources for investment
CO3	Understand the manpower planning for the organization
CO4	Make use of marketing tools and techniques
CO5	Analyze the pricing strategies to promote the product

Course Name: Elective –II:Apparel Production Management

Course Code: 17UASET605

CO1	Summarize the basic concepts of apparel production
CO2	Determine the factors involved in production planning
CO3	Demonstrate the methods of production system
CO4	Analyze and interpret the role of garment assembly
CO5	Understand the techniques in apparel quality management

Course Name: Elective –II:Business Finance

Course Code: 17UASET606

CO1	Analyze and interpret the concept and scope of finance
CO2	Describe the objectives and steps in business finance
CO3	Develop capital and type of finance used in business
CO4	Perceive the cost and earning theory
CO5	Calculate costing for individual and composite cost for finance

Course Name: Elective - III: Apparel Quality Assurance

Course Code: 17UASET607

CO1	Understand the concepts of quality control
CO2	Build knowledge on inspection systems
CO3	Analyze the various defects in manufacturing of garments
CO4	Assess the quality control of trimmings and accessories
CO5	Classify the different types of packing and labeling

Course Name: Elective - III: Export Management

Course Code: 17UASET608

CO1	Build knowledge on international trade
CO2	Identify the method of pricing your product
CO3	Assess payment options, including letter of credit
CO4	Understand the export process
CO5	Identify the various export promotion organizations

Course Name: Elective - III: Apparel Quality Management

Course Code: 17UASET609

CO1	Understand the basic concepts of quality and testing
CO2	Summarize the ISO standards in quality management
CO3	Develop knowledge on quality parameters of yarn and fabric
CO4	Classify the types of inspection
CO5	Describe the basics of environmental management system

Course Name: Skill based Subject - 4: CAD in Fashion Designing Practical -IV

Course Code: 17UASSP610

CO1	Create various weaves and colour combinations
CO2	Apply practical knowledge on creation of designs
CO3	Experiment with tools for creating jacquard weaves
CO4	Understand the basics of Adobe Illustrator
CO5	Elaborate the role of Illustrator in dress design

Programme Title: M.Sc. Costume Design and Fashion

Programme Outcomes: At the end of the programme, the students will be able to

PO Number	PO Statement
PO1	Critical Thinking: Take informed actions after identifying the assumptions that frame our thinking and actions, checking out the degree to which these assumptions are accurate and valid and looking at our ideas and decisions (intellectual, organizational, and personal) from different perspectives.
PO2	Effective Communications: Speak, read, write and listen clearly in person and through electronic media in English and in one Indian language and make meaning of the world by connecting people, ideas, books, media and technology.
PO3	Social Interaction: Elicit views of others, mediate disagreements and help reach conclusions in group settings.
PO4	Effective Citizenship: Demonstrate empathetic social concern and equity centered national development, and the ability to act with an informed awareness of issues and participate in civic life through volunteering.
PO5	Ethics: Recognize different value systems including your own, understand the moral dimensions of your decisions, and accept responsibility for them.
PO6	Environment and Sustainability: Understand the issues of environmental contexts and sustainable development.
PO7	Self - directed and Life-long Learning: Acquire the ability to engage in independent and life-long learning in the broadest context socio-technological changes.

Programme Specific Outcomes:

At the end of the programme, students will be equipped with the Knowledge in:

PSO Number	PSO Statement
PSO1	Latest technological developments in the field of Textiles and Fashion Design.
PSO2	Research and development of concepts related to historical background of textiles and fashion around the world.
PSO3	In the field of cosmetology, textile CAD and marketing management.

SEMESTER: I**Course Name: Core 1: Fashion Merchandising****Course Code: 17PBGCT101****Course Outcomes (CO): On completion of the course, students should be able to**

CO 1	Understand the fundamentals of merchandising
CO 2	Develop knowledge on the activities involved in fashion merchandising
CO 3	Elaborate the apparel export merchandising process
CO 4	Explore the techniques involved in garment costing
CO 5	Gain insight on retail merchandising and visual merchandising

Course Name: Core 2 : Indian Textile Industry**Course Code: 17PBGCT102**

CO 1	Understand the origin and development of Indian textile industry
CO 2	Summarize about the organizations related to the textile and clothing industry
CO 3	Describe the recent developments in fibers and yarn
CO 4	Build knowledge on new techniques in weaving and knitting
CO 5	Interpret the new technological development in processing industry

Course Name: Core Practical 1 : Fashion Illustrations**Course Code: 17PBGCP103**

CO 1	Understand the various costumes of the world
CO 2	Gain knowledge about the costumes of various regions in India
CO 3	Build knowledge on clothing for professions
CO 4	Illustrate the types of protective garments
CO 5	Develop portfolios based on themes

Course Name: Core Practical 2 : Draping for Fashion Design**Course Code: 17PBGCP104**

CO 1	Create different styles of Children's Garment on dress form
CO 2	Develop various types of Women's Garments in draping technique
CO 3	Gain knowledge in Men's Garment draping styles
CO 4	Design and Drape various Theme based Garments
CO 5	Apply draping styles in Traditional Indian Garments

Course Name: Core Practical 3 : Design with Prints**Course Code: 17PBGCP105**

CO 1	Create different design patterns in tie and dye
CO 2	Develop new designs using batik printing techniques
CO 3	Establish new design patterns in the art of stenciling
CO 4	Fabricate block and screen printing techniques
CO 5	Formulate various techniques in fabric painting

Course Name: Elective - I: Fashion Event Management

Course Code: 17PBGET106

CO 1	Develop knowledge on fashion event management and its types
CO 2	Outline the steps in planning the fashion show event.
CO 3	To gain knowledge on designing of stage, audio and visual effects used in fashion show
CO 4	To understand the process of merchandise selection and model selection for the fashion show
CO 5	To develop knowledge on preparing media kit, and risk management.

Course Name: Elective - I: Visual Merchandising

Course Code: 17PBGET107

CO 1	Understand the fundamentals visual merchandising
CO 2	Build knowledge on merchandise Mix.
CO 3	To obtain knowledge in various store layout
CO 4	To create an effective store window displays
CO 5	To understand about store image and security in visual merchandising.

Course Name: Elective - I: Textile Economics

Course Code: 17PBGET108

CO 1	CO1:Understand the concepts of economics and textile policy of India
CO 2	CO2:Explore the rules for textile and apparel trade
CO 3	CO3:Describe the fundamental garments of textiles and clothing
CO 4	CO4:Predict the impacts of liberalization and firm levels
CO 5	CO5:Develop their knowledge in the role of foreign collaboration in textile and clothing sect

SEMESTER: II

Course Name: Core 3 - Research Methodology

Course Code:17PBGCT201

CO 1	Categorize the type of Research and Research Problem
CO 2	Classify Research Design and Sampling
CO 3	Analyse the Methods of Data collection and Data analysis
CO 4	Build Knowledge on the Role of Statistics in Research
CO 5	Summarize the Statistical Hypothesis and Non-Parametric Tests

Course Name: Core 4 - Apparel Quality Standard and Implementation

Course Code: 17PBGCT202

CO 1	Understand the various quality standards.
CO 2	Gain knowledge about garment defects
CO 3	Perceive knowledge on Eco specification and restrictions in textile industry
CO 4	To obtain knowledge about quality control programs
CO 5	Build knowledge on types of care labels.

Course Name: Core 5 - World Costumes

Course Code: 17PBGCT203

CO 1	To obtain basic knowledge on American Textiles
CO 2	To understand the techniques used for different European costumes
CO 3	Understanding the regional variations on costumes in far eastern countries
CO 4	To gain knowledge of African Costumes
CO 5	To understand the costumes of middle East countries

Course Name: Core Practical 4 :Digital Fashion Portfolios

Course Code: 17PBGCP204

CO 1	Understand the concepts of fashion portfolios
CO 2	Develop skills in making mood boards using CAD software
CO 3	Compile their own ideas into flat sketches
CO 4	Critique new insights through coloring systems
CO 5	Design fashion ensembles based on selected themes

Course Name: Core Practical 5 :Advanced Apparel Construction

Course Code: 17PBGCP205

CO 1	Create and developing the concepts of pattern making
CO 2	Identify the materials suitable for various garments
CO 3	Develop their skills in garment construction
CO 4	Infer the concepts of fashion portfolios
CO 5	Explore their own designs for fashion shows

Course Name: Elective - II: Beauty Care Practical- I

Course Code: 17PBGEP206

CO 1	Gain knowledge about the importance of beauty care
CO 2	Understand the practical nuances of threading
CO 3	Carryout nail services including manicuring and pedicuring
CO 4	Develop basic skin care services including skin analysis, bleaching and facial
CO 5	Perform hair care services for all types of hair including hair analysis and hair cutting

Course Name: Elective - II: Industrial Psychology

Course Code: 17PBGEP207

CO 1	Understand the basics of Industrial Psychology
CO 2	Develop knowledge on time and motion study
CO 3	State the type and causes of stress
CO 4	Summarize the qualities and principles of leadership
CO 5	Gain insights through training and development

Course Name: Elective - II: Textile Chemistry

Course Code: 17PBGEP208

CO 1	Explain the manufacturing and production sequence of processing
CO 2	Classify dyes and dyeing machines
CO 3	Understand the process of printing and printing techniques
CO 4	Elaborate the various finishing process
CO 5	Identify the textile industry pollution and effluent treatment

SEMESTER: III

Course Name: Core 6 - International Trade and Documentation

Course Code: 17PBGCT301

CO 1	Evaluate and justify various documents for processing export and import transactions
CO 2	Develop the ability to understand and analyze the EXIM policy framework
CO 3	Identify major recent developments in the world trading system
CO 4	Assess the various terms and conditions of export finance
CO 5	Make use of export promotion measures

Course Name: Core 7 - Technical Textiles

Course Code: 17PBGCT302

CO 1	Categorize the various segments of technical textiles and Understand the application of high performance fibres
CO 2	Distinguish the importance of various finishes applied to technical textiles
CO 3	Perceive knowledge on thermal behavior of fibers and types of geo textiles
CO 4	Explain the applications of medical textile and agro textiles
CO 5	Analyse the commercial applications of smart and intelligent textiles

Course Name: Core 8 - Principles of Textile Testing

Course Code: 17PBGCT303

CO 1	Understand the importance of atmospheric conditions in textiles
CO 2	Analyze the results of fiber testing for specific endues or next process
CO 3	Assess the faulty material and take remedial measures to ensure the quality of yarns
CO 4	Intervene in product development and research
CO 5	Interpret colour fastness properties in textile products

Course Name: Core Practical 6 :Principles of Textile Testing

Course Code: 17PBGCP304

CO 1	Experiment with various type of textile fabrics using the relevant instruments
CO 2	Determine the dimensional property of textile fabrics
CO 3	Interpret the mechanical properties of the textile materials
CO 4	Assess the aesthetic properties of the raw materials
CO 5	Identify the colour fastness properties of the dyed and printed materials

Course Name: Core Practical 7 :Textile CAD**Course Code: 17PBGCP305**

CO 1	Identify the software for the varied design needs
CO 2	Experiment with the tools used in the software
CO 3	Develop in the art of digital pattern making, grading and marker planning
CO 4	Create their own weave designs along with colour applications
CO 5	Apply the created designs and patterns suitable for the textile needs

Course Name: Core Practical 8 :Fashion Accessories Designing**Course Code: 17PBGCP306**

CO 1	Discover a personal creative style and developing an original way of expression
CO 2	Perceive knowledge on making theme based accessories
CO 3	Develop entrepreneurial skills
CO 4	Propose their own designs for fashion shows
CO 5	Design jewellerys using traditional techniques

Course Name: Elective - III: Business Organization and Office Management**Course Code:17PBGET307**

CO 1	Illustrate the types of business
CO 2	Explain various source of finance
CO 3	Understand the modern office concept
CO 4	Categorize the record management system
CO 5	Choose the office machine and furniture

Course Name: Elective - III: Principles of Costing**Course Code:17PBGET308**

CO 1	Interpret cost accounting statements
CO 2	Develop and evaluate information for cost stock control
CO 3	Calculate and account for various labour cost
CO 4	Prepare a budget of factory overheads cost
CO 5	Examine the basic concepts to determine product cost in different process

Course Name: Elective - III: Principles of Entrepreneurship**Course Code:17PBGET309**

CO 1	Build knowledge on various entrepreneurial traits
CO 2	Formulate the process to select a business idea
CO 3	Adapt strategic plans for implementing their own business
CO 4	Analyze the various financial institutions for the best financial deals
CO 5	Identify new business proposals and opportunities within existing business

SEMESTER : IV**Course Name: Core 9 - Home Textiles****Course Code: 17PBGCT401**

CO 1	Analyze the recent developments in home textiles
CO 2	Categorize the types of curtains and draperies
CO 3	Select suitable fabric structures for home textiles
CO 4	Create different types of linens used in home
CO 5	Develop wide knowledge on different types of layouts

Course Name: Elective - IV: Beauty Care Practical-II**Course Code:17PBGEP403**

CO 1	Apply advanced skin care services catering to the specific problems related to skin and hair
CO 2	Demonstrate advanced hair care services.
CO 3	Develop and practice cosmetology skills in makeup applications
CO 4	Build a career in the beauty industry
CO 5	Demonstrate customer service skills, self-growth and personality development

Course Name: Elective - IV: Computer Application in Business**Course Code:17PBGET404**

CO 1	Identify the application software in Microsoft Offices Suite
CO 2	Apply computer resources for use in business and academics
CO 3	Construct business and academic documents using Microsoft Word
CO 4	Make use of application features to complete tasks
CO 5	Classify the networking types

Course Name: Advanced Learner Course A- Fashion Photography**Course Code: 17PBGAL310**

CO 1	Choose the types of camera for the specific events
CO 2	Outline the importance and types of lighting
CO 3	Understand the theme based fashion photography
CO 4	Make use of various camera techniques
CO 5	Develop their knowledge on printing, image mixing and printing, computer application in photography

Course Name: Advanced Learner Course B - Basics of Leather Technology**Course Code: 17PBGAL311**

CO 1	Understand the properties, attributes and characteristics of leather
CO 2	Define the importance of pre tanning process of leather
CO 3	Analyze the various types of tanning agents
CO 4	Explain the principles of post tanning process
CO 5	Select the appropriate finishing techniques for leather

Programme Title: B.Sc Physics**Programme Outcomes: At the end of the programme, the students will be able to**

PO Number	PO Statement
PO1	Critical Thinking: Take informed actions after identifying the assumptions that frame our thinking and actions, checking out the degree to which these assumptions are accurate and valid, and looking at our ideas and decisions (intellectual, organizational, and personal) from different perspectives.
PO2	Effective Communication: Speak, read, write and listen clearly in person and through electronic media in English and in one Indian language and make meaning of the world by connecting people, ideas, books, media and technology.
PO3	Social Interaction: Elicit views of others, mediate disagreements and help reach conclusions in group settings.
PO4	Effective Citizenship: Demonstrate empathetic social concern and equity centered national development, and the ability to act with an informed awareness of issues and participate in civic life through volunteering.
PO5	Ethics: Recognize different value systems including your own, understand the moral dimensions of your decisions, and accept responsibility for them.
PO6	Environment and Sustainability: Understand the issues of environmental contexts and sustainable development.
PO7	Self-directed and Life-long Learning: Acquire the ability to engage in independent and life-long learning in the broadest context socio-technological changes.

Programme Specific Outcomes:

PSO Number	PSO Statement
PSO1	Apply the basic knowledge in the specialized areas like Quantum Mechanics, Classical Mechanics and Mathematical Physics etc., in pursuing their higher education.
PSO2	Understand the scope of Physics in solving environmental issues.
PSO3	Choose career in the teaching profession.

SEMESTER: I**Course Name: Mechanics, Properties of Matter and Sound****Course Code: 17UAOCT101**

CO 1	Recollect the types of motion and conservation laws
CO 2	Understand the phenomenal of moment of inertia
CO 3	Apply the principles of elasticity to determine the modulus of elasticity
CO 4	Analyse the concepts involved in viscosity and surface tension
CO 5	Evaluate the basic of sound

Course Name: Allied I: Chemistry I**Course Code: 17UAOAT102**

CO 1	Predict atomic structure, chemical bonding or molecular geometry based on accepted models
CO 2	Provide broad foundation about the merits and demerits of polymers
CO 3	Acquire an idea about the chemical bonding, polar bond and stereoisomerism
CO 4	Integrate the chemical reactions for fertilizers and usage of insecticides and pesticides
CO 5	Understand the principles of kinetics and thermodynamics as applied to rates and equilibrium positions of chemical reactions

Course Name: Foundation Course - I: Environmental Studies**Course Code: 17ES01**

CO 1	Understand the different types of ecosystems
CO 2	Identify the different types of land and energy resources
CO 3	Acquire the concepts of biodiversity and its conservation
CO 4	Develop awareness against disaster management
CO 5	Attain exposure to environmental policies

SEMESTER: II**Course Name: Heat and Thermodynamics****Course Code: 17UAOCT201**

CO 1	Remember the significance of specific heats of different states of matter
CO 2	Understand the methods of heat transmission
CO 3	Apply the principles of kinetic theory in the transportation of gases
CO 4	Analyse the laws of thermodynamics
CO 5	Evaluate the value of entropy in reversible and irreversible processes

Course Name: Core Practical – I**Course Code: 17UAOCP202**

CO 1	Recognize the methods of laboratory techniques
CO 2	Explore the relation between theory and experiment
CO 3	Acquire the basic ideas on the principle of resonance
CO 4	Correlate the principles of diffraction to experimental situations
CO 5	Apply experimental methodology to physical phenomena

Course Name: Allied II: Chemistry II**Course Code: 17UAOAT203**

CO 1	Learn the laboratory principles and methods of metallurgy
CO 2	Get familiarized with the coordination compounds
CO 3	Understand the mechanism of aromatic compounds
CO 4	Know the different processes of thermodynamics
CO 5	Develop basic knowledge with the electrochemistry and Get a theoretical exposure for safety aspects of chemistry laboratory

Course Name: Allied Practical I – Chemistry**Course Code: 17UAOAP204**

CO 1	Attain knowledge for the preparing normal solution
CO 2	Develop handling procedure of glass wares and accurate chemical laboratory skill
CO 3	Able to estimate the acid and base solutions volumetrically
CO 4	Learns the methods of organic analysis
CO 5	Get a distinguished idea about organic compounds

Course Name: Foundation Course – II: Value Education

Course Code: 17VE01

CO 1	Define the Dimensions of Value System
CO 2	Build their personality in physical, mental, emotional and spiritual aspects
CO 3	Outline the benefits of sharing ideas and concern for the family members
CO 4	Identify the Vocational Problems and the solutions
CO 5	Examine the pull factors of social evils and identify the ways to eradicate them

SEMESTER: III

Course Name: Electricity and Magnetism

Course Code: 17UAOCT301

CO 1	Describe the behavior of charges at rest and recollect the types of capacitors
CO 2	Understand the magnetic analogue of electrostatics
CO 3	Apply the principles of thermoelectricity in real time situations
CO 4	Gain knowledge in the field of current electricity and able to solve problems
CO 5	Acquire ideas about motion of charges in various fields

Course Name: Allied Paper B - Mathematics I

Course Code: 17UAOAT302

CO 1	Solve algebraic equations.
CO 2	Understand the concepts of characteristic roots and vectors in matrices.
CO 3	Compute intermediate values of a function from a given set of tabular values of the function.
CO 4	Apply basic concepts of Trigonometry to solve problems.
CO 5	Know some concepts of differential calculus.

Course Name: SKILL BASED COURSE Scientific Facts I

Course Code: 17UAOST303

CO 1	Understand the current environmental problems
CO 2	Understand the natural phenomena and the consequences
CO 3	Apply the science principles underlying in our everyday activities
CO 4	Describe the behaviour of stellar bodies
CO 5	Acquire scientific temperament in exploring things

Course Name: NON - MAJOR ELECTIVE – I Introduction to Electricity and Electronics Course

Code: 17UAONT304

CO 1	Gain the knowledge of basics of electricity
CO 2	Understand and able to distinguish resistors based on colour code
CO 3	Come to recognize protective and control circuits
CO 4	Gain basic knowledge in the area of semiconductors
CO 5	Construct simple electronic circuits

SEMESTER: IV

Course Name: Optics

Course Code: 17UAOCT401

CO 1	Get an introduction to lens system and its role in modern era
CO 2	Understand the types of aberrations
CO 3	Get a thorough knowledge in the area of interference
CO 4	Analyse the techniques of diffraction and its requirement
CO 5	Evaluate the process of polarization

Course Name: Core Practical – II

Course Code: 17UAOCP402

CO 1	Explore the principle of electromagnetic induction
CO 2	Recognize the relation between theory and experiment
CO 3	Apply the knowledge of electricity in the calibration of meters
CO 4	Correlate the principles of interference to experimental situations
CO 5	Evaluate diffraction principles by spectrometer

Course Name: Allied Paper B - Mathematics II

Course Code: 17UAOAT403

CO 1	Find the complete solution of a ordinary differential equation.
CO 2	Find the solution to Partial differential equations by using different types.
CO 3	Understand the concept of Laplace transform and its properties.
CO 4	Apply vector differentiation.
CO 5	Find line, surface and volume integral using vector differentiation.

Course Name: SKILL BASED COURSE: Scientific Facts II

Course Code: 17UAOST404

CO 1	Understand the science principles involved in everyday appliances
CO 2	Exposed to the working principles of home appliances
CO 3	Apply physics knowledge to understand the phenomenon of light
CO 4	Recognize the physics behind modern appliances
CO 5	Gain exposure in the area of data transmitting devices and automobile

Course Name: NON - MAJOR ELECTIVE II: Electrical and Electronic Appliances

Course Code: 17UAONT405

CO 1	Recollect the conventional sources of electric power generation
CO 2	Comprehend the working principles of lighting and heating
CO 3	Analyze the working of everyday home appliances
CO 4	Broaden their knowledge in the field of electronics
CO 5	Acquire scientific outlook in exploring things

Course Name: Advanced Learner Course: Bio-Physics
Course Code: 17UAOAL406

CO 1	Understand the bonds associated with bio-molecules
CO 2	Gain knowledge about human body mechanism
CO 3	Analyse the biological significance of adsorption and colloids
CO 4	Understand the blend of physics principles in medical instruments
CO 5	Evaluate the effect of radiation exposure

Course Name: Advanced Learner Course: Energy Physics
Course Code: 17UAOAL407

CO 1	Classify conventional and non-conventional energy sources and their importance
CO 2	Understand heat transfer mechanism
CO 3	Gain insight over the requirement of solar collectors
CO 4	Expand their views in utilization of solar energy for various household systems
CO 5	Evaluate the principles of electronics in solar power generators

SEMESTER: V

Course Name: Mathematical Physics
Course Code: 17UAOCT501

CO 1	Correlate the principles of curl and divergence in practical applications
CO 2	Understand the concept of different coordinate systems
CO 3	Gain insight over the requirement of matrices
CO 4	Develop their views in Newtonian mechanics
CO 5	Evaluate the applications of Hamiltonian formalism

Course Name: Quantum Mechanics and Relativity
Course Code: 17UAOCT502

CO 1	Recollect the basic principles of wave mechanics
CO 2	Understand the validation of Schrodinger's equation
CO 3	Exposed to commutation algebra
CO 4	Analyse the differences between special and general theory of relativity
CO 5	Evaluate the underlying principles of general theory of relativity

Course Name: Atomic Physics and Spectroscopy

Course Code: 17UAOCT503

CO 1	Recognize cathode rays, positive rays and atomic models
CO 2	Infer the basic ideas of quantum numbers and spatial quantization
CO 3	Implement the application of X-rays in determining the crystal structures
CO 4	Comprehend various photoelectric cells
CO 5	Evaluate the influence of electric and magnetic field in spectral line splitting

Course Name: Basic Electronics

Course Code: 17UAOCT504

CO 1	Reminisce the concepts of diodes
CO 2	Expand the principles of diodes to transistors
CO 3	Relate the applications of active components in amplifiers and oscillators
CO 4	Analyse the usage of passive components in clippers and clampers
CO 5	Estimate the application of op-amp in mathematical operations

Course Name: ELECTIVE COURSE I (A) - Laser, Fiber Optics and Non-Linear Optics

Course Code: 17UAOET505

CO 1	Understand the basic terminologies in laser
CO 2	Cognize the types of lasers and applications
CO 3	Exposed to the basics of optical fibres and the conditions for commercial application
CO 4	Analyse the fibre optic communication system
CO 5	Acquire the insight on non-linear optics

Course Name: ELECTIVE COURSE I (B) - Renewable Energy Sources

Course Code: 17UAOET506

CO 1	Recall the requirement of alternative energy sources
CO 2	Understand the implementation of solar energy systems
CO 3	Exposed to the basics of wind energy extraction
CO 4	Analyse the various resources of biomass energy and their conversion systems
CO 5	Evaluate the hybrid storage systems

Course Name: ELECTIVE COURSE I (C) - Material Science
Course Code: 17UAOET507

CO 1	Attain the basic ideas of properties of materials and types of bonding
CO 2	Understand the concepts of thermal and electrical conductivity
CO 3	Aware of different types of polarisation
CO 4	Obtain the knowledge of utilization of semiconductors
CO 5	Exposed to new smart materials

Course Name: SKILL BASED COURSE: Office Automation
Course Code: 17UAOST508

CO 1	Cognize the basics of computer and networks in computers
CO 2	Understand the formatting styles in Ms word
CO 3	Develop the working knowledge in Ms Excel
CO 4	Exposed to the creation and formation of Database
CO 5	Execute power point presentation effectively

Course Name: Advanced Learner Course: Applied Physics
Course Code: 17UAOAL509

CO 1	Cognize the basic laws of electricity and the related calibrations
CO 2	Understand the concepts of static magnetic fields
CO 3	Develop the insight of induction phenomena
CO 4	Analyze the usage of AC over DC
CO 5	Acquire the extensive ideas of thermoelectricity

Course Name: Advanced Learner Course: Astrophysics
Course Code: 17UAOAL510

CO 1	Recollect the basic theories of universe
CO 2	Comprehend different kinds of stars and their evolution
CO 3	Gain the knowledge of solar system formation
CO 4	Analyze the dimensions of earth and moon
CO 5	Assess the difference between various types of telescopes

SEMESTER: VI**Course Name: Solid State Physics****Course Code: 17UAOCT601**

CO 1	Evolve the basics of crystal systems
CO 2	Understand the types of defects in crystals
CO 3	Apply the knowledge of magnetic properties in different theories of magnetism
CO 4	Expand the views in the phenomenon of superconductivity
CO 5	Evaluate the principles of optoelectronic devices

Course Name: Nuclear Physics**Course Code: 17UAOCT602**

CO 1	Recall the basics of nuclei and study the models of nuclear structure
CO 2	Understand the mechanism of accelerators
CO 3	Aware the meaning of radioactivity and understand its origin
CO 4	Expand the views in discriminating fission and fusion
CO 5	Assess the origin of elementary particles

Course Name: Fundamentals of Digital Electronics**Course Code: 17UAOCT603**

CO 1	Recollect number systems and binary codes
CO 2	Implement logic gates in arithmetic circuits
CO 3	Resolve the usage of flip-flops as counters and registers
CO 4	Investigate flip-flops in converters
CO 5	Explore semiconductor memories

Course Name: CORE PRACTICAL – III General Practical**Course Code: 17UAOCP604**

CO 1	Recognize the principles of diffraction in experimental situations
CO 2	Explore the relation between theory and experiment
CO 3	Apply the knowledge of mechanics in real time applications
CO 4	Analyse the impact of Bandgap in conducting process
CO 5	Estimate the principle involved in determining the wavelength of laser source

Course Name: CORE PRACTICAL – IV Electronics Practical
Course Code: 17UAOCP605

CO 1	Recollect the principles of semiconductors and evaluate its validation in practicals
CO 2	Understand the applications of logic gates in logic circuits
CO 3	Implicate the ideas of theory in constructing the circuits
CO 4	Investigate the basic programming of 8085 microprocessor
CO 5	Review the instruments in wide variety of applications

Course Name: ELECTIVE COURSE II (A) - Microprocessor
Course Code: 17UAOET606

CO 1	Acquire the basic ideas of microcontroller and microprocessor
CO 2	Understand the concept of Microprocessors' architecture and its programming
CO 3	Exposed to various types of memory systems
CO 4	Apply the knowledge to understand timing and machine cycles
CO 5	Evaluate interfacing of microprocessor with I/O devices

Course Name: ELECTIVE COURSE II (B) - Biomedical Instrumentation
Course Code: 17UAOET607

CO 1	Evoke the functions of human physiological systems
CO 2	Comprehend the various types of electrodes
CO 3	Expand the knowledge in the field of transducers
CO 4	Analyse the various resources of Biopotential recorders
CO 5	Evaluate the advances in biomedical instrumentation

Course Name: ELECTIVE COURSE II (C) - Numerical Methods

Course Code: 17UAOET608

CO 1	Understand the methods of numerical algebraic and transcendental equations
CO 2	Apply the method to find the solution of simultaneous linear algebraic equations
CO 3	Analyse the forward and backward interpolation methods
CO 4	Solve the problems by using numerical integration and differential equations
CO 5	Evaluate the basics of curve fitting

Course Name: ELECTIVE COURSE III (A) - Python for Physics

Course Code: 17UAOET609

CO 1	Installation and running simple python calculators can be done
CO 2	Represents the structure of list and loops
CO 3	Working with functions and dictionaries are applied
CO 4	Comprehends the concepts of modules and files
CO 5	Knowledge of working with NumPy and SciPy are created

Course Name: ELECTIVE COURSE III (B) - Introduction to Nanoscience

Course Code: 17UAOET610

CO 1	Cognize the properties of nanomaterials and its applications
CO 2	Understand the concepts of carbon Nanotubes and its structures
CO 3	Develop the view of nanostructures in different functional substances
CO 4	Analyze the dimensions of nanostructures
CO 5	Evaluate the nano mechanical systems and devices

Course Name: ELECTIVE COURSE III (C) - Communication System
Course Code: 17UAOET611

CO 1	Evoke the basic concepts of communication systems
CO 2	Understand the essential principles of antennas
CO 3	Apply the knowledge to generate microwaves
CO 4	Explore amplitude and frequency modulation
CO 5	Evaluate the differences between AM and FM receivers

Course Name: SKILL BASED COURSE: Office Automation & Python Programming for Physics
Course Code: 17UAOSP612

CO 1	Recall the theory in document preparation
CO 2	Gain the practical knowledge in excel
CO 3	Develop basic programming skill in Python
CO 4	Analyse the programming structure of Python language
CO 5	Evaluate Physics concepts by executing Python programs

Programme Title: BSc Psychology**Programme Outcomes: At the end of the programme, the students will be able to**

PO Number	PO Statement
PO1	Critical Thinking: Take informed actions after identifying the assumptions that frame our thinking and actions, checking out the degree to which these assumptions are accurate and valid, and looking at our ideas and decisions (intellectual, organizational and personal) from different perspectives.
PO2	Effective Communication: Speak, read, write and listen clearly in person and through electronic media in English and in one Indian language, and make meaning of the world by connecting people, ideas, books, media and technology.
PO3	Social Interaction: Elicit views of others, mediate disagreements and help to reach conclusions in group settings.
PO4	Effective Citizenship: Demonstrate empathetic social concern and equity centered national development, and the ability to act with an informed awareness of issue and participate in civic life through volunteering.
PO5	Ethics: Recognize different value systems including your own, understand the moral dimension of your decisions and accept responsibility for them.
PO6	Environment and Sustainability: Understand the issues of environmental contexts and sustainable development.
PO7	Self-directed and Life-long Learning: Acquire the ability to engage in independent and life-long learning in the broadest context socio-technological changes.

Programme Specific Outcomes:**At the end of the programme, students will be equipped with the Knowledge in:**

PSO Number	PSO Statement
PSO1	The field of Psychology.
PSO2	Practicing and spreading the awareness regarding mental health.
PSO3	Managing counselling sessions and therapies in clinical settings.

SEMESTER: I**Course Name: Core 1: General Psychology I****Course Code: 20UAVCT101**

CO1	Understand the evolution of psychology from philosophy
CO2	Acquire knowledge about the scientific methods in psychology
CO3	Analyze the process of sensation and perception
CO4	Strengthen the knowledge about the nature of mind and sleep
CO5	Understand the theories of learning.

Course Name: Core 2 – Developmental Psychology I**Course Code: 20UAVCT102**

CO1	Outline the concepts of developmental psychology and its basic theories.
CO2	Strengthen their knowledge about prenatal development.
CO3	Better understanding of the physical development that happens in human lifetime.
CO4	Gain knowledge about the various cognitive developments of human beings.
CO5	Understand the evolution of emotional development in human beings.

Course Name: Allied I: Biological Basis of Behaviour**Course Code: 20UAVAT103**

CO1	Explain the structure and functions of the brain and Central nervous system.
CO2	Understand the functioning of various sensory processes.
CO3	Analyze and interpret the various endocrine glands, hormones and their functions.
CO4	Elaborate the ideas regarding the bio psychology of emotion, stress and health.
CO5	Understand the sexual response cycle and the biological basis of sexual behaviour.

Name: Environmental Studies**Course Code: 17ES01**

CO1	Understand the different types of eco systems(Understand).
CO2	Identify the different types of land and energy resources(Remember).
CO3	Acquire the concept of biodiversity and its conservation(Apply).
CO4	Develop awareness against disaster management(Create).
CO5	Attain exposure to environmental policies(Apply).

SEMESTER: II**Course Name: Core 3 - General Psychology II****Course Code: 20UAVCT201**

CO1	Understand the process of memory and forgetting
CO2	Acquire knowledge about the components of thought and the development of language
CO3	Analyze the motivational concepts and the elements of emotional experience
CO4	Strengthen the knowledge about the evolution of intelligence testing.
CO5	Understand the structure and concepts of human personality.

Course Name: Core 4 - Developmental Psychology II**Course Code: 20UAVCT202**

CO1	Outline the characteristics of early and late childhood.
CO2	Strengthen their knowledge about developmental tasks of adolescence.
CO3	Better understanding of the characteristics and issues of Early & Late Adulthood.
CO4	Gain knowledge about the characteristics of Middle Age and adjustment issues due to mid life crisis.
CO5	Understand the characteristics and problems unique to Old Age.

Course Name: Allied Paper II - Educational Psychology**Course Code: 20UAVAT203**

CO1	Outline the historical background of educational psychology.
CO2	Strengthen their knowledge about the theories of cognition and learning.
CO3	Better understanding of the development of language and tests used in intelligence.
CO4	Gain knowledge about the approaches in learning and teaching techniques.
CO5	Understand the disabilities in children.

Course Name: Foundation Course II: Value Education**Course Code: 17VE01**

CO1	Define the Dimensions of Value System [Remember]
CO2	Build their personality in physical, mental, emotional and spiritual aspects [Apply]
CO3	Outline the benefits of sharing ideas and concern for the family members [Understand]
CO4	Identify the Vocational Problems and the solutions [Apply]
CO5	Examine the pull factors of social evils and identify the ways to eradicate them [Analyze]

SEMESTER: III**Course Name: Core 5 - ABNORMAL PSYCHOLOGY I****Course Code: 20UAVCT301****Course Outcomes (CO): On completion of the course, students should be able to**

CO1	Analysis the interaction of biological, cognitive and sociocultural factors in abnormal behavior
CO2	Evaluate psychological research relevant to the study of abnormal behaviour
CO3	Remember the cultural and ethical considerations in diagnosis the disorders
CO4	Design, conduct, or evaluate treatment process
CO5	Apply the contemporary theories and research related to causes and treatments of psychological disorders

Course Name: Core 6 - EXPERIMENTAL PSYCHOLOGY- I**Course Code: 20UAVCP302**

CO1	To become proficient in measuring sensory dimensions of human behaviour
CO2	To become proficient in measuring personality tests
CO3	To become proficient in measuring sensory motor test in assessing human Efficiency
CO4	To become proficient in measuring attention aspects of human behaviour
CO5	To become proficient in measuring tests to learning and association

Course Name: Allied Paper III - PSYCHOLOGICAL STATISTICS**Course Code: 20UAVAT303**

CO1	Evaluate the primary methods of inquiry and statistical analysis in psychology
CO2	Understand the advantages and limitations of different statistical methods used in psychological research
CO3	To apply an appropriate statistical analysis for the data
CO4	To analysis the role of different statistical techniques in psychological research
CO5	Remember the ethics in preparing the data for analysis

Course Name: Skill based Subject 1- COUNSELLING PSYCHOLOGY**Course Code: 20UAVST304**

CO1	To apply the counselling models across all stages of development
CO2	To evaluate about need of counselling in career and work, and dealing life transition
CO3	Understand the role of counselling in Crisis intervention, disaster and trauma.
CO4	Analysis the different models of counselling psychology
CO5	Apply in relationship difficulties including marital and family difficulties

Course Name: Non Major Elective - I Fundamentals of Learning and Memory

Course Code: 20UAVNT305

CO1	Outline the characteristics of memory and forgetting.
CO2	Strengthen their knowledge about learning.
CO3	Better understanding of the characteristics of learning styles.
CO4	Gain knowledge about the strategies for improving academics.
CO5	Understand the techniques for improving study skills.

SEMESTER: IV

Course Name: Core 7 - ABNORMAL PSYCHOLOGY II

Course Code: 20UAVCT401

CO1	Define the experience of anxiety and related disorders in an individual
CO2	Outline the disorders of sexual variance and cognitive impairment
CO3	Identify the spectrum disorders of schizophrenia
CO4	Identify the bipolar tendencies experienced by an individual
CO5	Examine the various forms of therapies and their effectiveness

Course Name: Core 8 - EXPERIMENTAL PSYCHOLOGY- II

Course Code: 20UAVCT402

CO1	Asses and interpret the Perception of an individual.
CO2	Assess the various emotion pattern of an individual.
CO3	Analyze the need pattern of social motive
CO4	Evaluate the reaction time of an individual
CO5	Analyze the learning process of an individual

Course Name: Allied Paper IV - RESEARCH METHODOLOGY

Course Code: 20UAVAT403

CO1	Define the various types of research in psychology
CO2	Outline the formation of hypothesis
CO3	Identify the various methods of research design
CO4	Identify the various methods used for testing the hypothesis
CO5	Examine the statistical techniques and report writing

Course Name: Skill based Subject 2 – TESTING AND ASSESSMENT

Course Code: 20UAVST404

CO1	Enable the students for career planning and different sources of information.
CO2	Organize and write an effective application letter and resume.
CO3	Understand the concepts, logic and methods of interviewing skills.
CO4	Develop the non verbal communication and group discussion.
CO5	Learn to behave and dress appropriately during interviews.

Course Name: Non Major Elective - II Managing Emotions

Course Code: 20UAVNT405

CO1	Outline the characteristics of emotions.
CO2	Strengthen their knowledge about physiology of emotions.
CO3	Better understanding of the characteristics of emotional intelligence.
CO4	Gain knowledge about the skills of emotions.
CO5	Understand the causes and strategies of emotions.

Course Name: Advanced Learner Course - POSITIVE PSYCHOLOGY

Course Code: 20UAPAL406

CO1	Understand and practice the power of positive mind set.
CO2	Helps students to maximize the joys in their lives
CO3	Develop insights into oneself by awakening their inner strengths and virtues
CO4	Build their abilities to deepen inter and intra personal relationships
CO5	Know the ability of empathy, altruism.

SEMESTER : V

Course Name: Core 9 - SOCIAL PSYCHOLOGY I

Course Code: 20UAVCT501

CO1	To understand the key substantive content of the field of social psychology
CO2	Use existing knowledge and concepts to identify the causes of the social behavior
CO3	Develop the abilities to analysis regarding the principles of social behaviour
CO4	Able to evaluate empirical findings to explain, predict, and influence behavior.
CO5	Remember the ethics in social psychology research

Course Name: Core 10 - INDUSTRIAL/ORGANIZATIONAL PSYCHOLOGY I

Course Code: 20UAVCT502

CO1	To analyze the psychological principles influence behavior in the workplace.
CO2	Evaluate individual behavior in the workplace as influenced by personality, values, perceptions, and motivations.
CO3	Understand the management style as it relates to influencing and managing behavior in work settings.
CO4	Create modules to enhance group dynamics, communication, and leadership.
CO5	Apply relevant contemporary theories, concepts and models to analyze real life management situations.

Course Name: Core 11 - HEALTH PSYCHOLOGY**Course Code: 20UAVCT503**

CO1	To understand the effects of bio, psycho and social factors on a person's health.
CO2	Knowledge about research in health psychology and critically evaluate the key studies.
CO3	Apply health psychology theories and research findings to address health-related issues.
CO4	Analysis the effects of health status and changes in health based on a person's emotions, thinking, and behaviour.
CO5	Create the healthy relationship and to understand health compromising behaviors.

Course Name: Core 12 - EXPERIMENTAL PSYCHOLOGY- III**Course Code: 20UAVCP504**

CO1	To become proficient in measuring social dimensions of human behavior
CO2	To become proficient in measuring personality tests
CO3	To become proficient in measuring memory and learning aspects of human behavior
CO4	To become proficient in measuring individual's aspiration
CO5	To become proficient in measuring tests related to imagination

Course Name: Elective - I: CONSUMER BEHAVIOUR**Course Code: 20UAVET505**

CO1	To understand consumer behaviour in an informed and systematic way
CO2	To analyses personal, socio-cultural, and environmental dimensions related to consumer behaviour
CO3	To enable students in designing and evaluating the marketing strategies
CO4	Application of market research in framingeffective marketing strategies
CO5	Analyze the major stages which consumers usually go through when making a consumption

Course Name: Skill based Subject 3: LIFE SKILL DEVELOPMENT**Course Code: 20UAVST508**

CO1	Acquire the effective management skills.
CO2	Gain knowledge related to problem solving and creativity.
CO3	Understand the way of building relationship with co-workers.
CO4	Able to develop and lead the team.
CO5	Understand the concept of empowerment.

Course Name: Advanced Learner Course - CASE STUDIES

Course Code: 20UAPAL509

CO1	To describe the process of conducting case studies and also compare and contrast case study with other research methods.
CO2	To infer and interpret collected information about an individual from verbal reports, case records and other data.
CO3	Understand the challenges of rapport building and devise ways to establish rapport to facilitate in-depth study of a individual.
CO4	Prepare interview schedules, conduct standardized tests, analyze records and design activities to collect pertinent data required for detailed description of an individual.
CO5	Apply the understanding of developmental theories in describing normative events and also critically evaluate the applicability of the theory to real life situations.

SEMESTER : VI

Course Name: Core 13 - SOCIAL PSYCHOLOGY II

Course Code: 20UAVCT601

CO1	Define the basic concepts under social influence
CO2	Outline various factors associated with aggressive tendencies of a person
CO3	Identify the dynamics of close relationships in an individual
CO4	Identify the extent of individual contribution towards the group success
CO5	Examine the effectiveness of various leadership styles

Course Name: Core 14 - INDUSTRIAL/ORGANIZATIONAL PSYCHOLOGY – II

Course Code: 20UAVCT602

CO1	Define the motivation and job satisfaction.
CO2	Outline the various components of job involvement
CO3	Identify the stress in the workplace.
CO4	Identify the various aspects of engineering psychology
CO5	Examine the effectiveness of Industrial Clinical Psychology

Course Name: Core 15 - EXPERIMENTAL PSYCHOLOGY- IV

Course Code: 20UAVCT302

CO1	To assess and interpret the thinking of an individual.
CO2	To assess the various social skills of an individual.
CO3	To analyze the level of aspiration
CO4	To evaluate the intelligence of an individual
CO5	To analyze the ability of an individual

Course Name: Elective - II: PSYCHOLOGY AND GENDER ISSUES

Course Code: 20UAVET606

CO1	Define the meaning and concepts of gender.
CO2	Outline the theories of Gender Development.
CO3	Identify the Perspectives on marital interaction.
CO4	Analyze the importance of Victimization issues.
CO5	Examine the Women and the Criminal Justice System.

Course Name: Elective - III: FORENSIC PSYCHOLOGY

Course Code: 20UAVET608

CO1	Define the meaning and origins of legal psychology.
CO2	Outline the strength and validity of the evidence.
CO3	Identify the psychology of confession.
CO4	Analyze the Profiling criminals from the crime scene.
CO5	Examine the offending behavior programmes.

Course Name: Skill based Subject - 4: PERSONALITY ASSESSMENT

Course Code: 20UAVAT303

CO1	Define the fundamental concepts of personality assessment
CO2	Classify the various scales of self – report.
CO3	Identify the various assessment tools available under clinical disorders
CO4	Identify the various performance based measures.
CO5	Examine various interest, ability and aptitude scales used for career based assessments

Programme Title: MBA

Programme Outcomes: At the end of the programme, the students will be able to

PO Number	PO Statement
PO1	Critical Thinking: Apply the strategies and techniques in order to solve real world problems.
PO2	Effective Communication: Communicate the concepts in oral and written form.
PO3	Social Interaction: Identify the accurate solutions for the society oriented problems using the Domain knowledge.
PO4	Effective Citizenship: Attain the ability to identify, formulate and solve challenging problems of the society and nation.
PO5	Knowledge Formulation: Demonstrate and apply various specialized areas of advanced topics and its applications using modern tools.
PO6	Environment and Sustainability: Instill a sense of attitude in tackling social environmental issues.
PO7	Self-directed and Life-long Learning: Identify their own educational and career needs from the global challenges.

Programme Specific Outcomes:

At the end of the programme, students will be equipped with the Knowledge in:

PSO Number	PSO Statement
PSO1	Acquire knowledge and skill in key functional areas of Management.
PSO2	Develop Competencies required for successful practice of management and leadership.
PSO3	Evolve with a Holistic Personality to lead personal and professional lives.

SEMESTER: I

Course Name: Core - MANAGEMENT PROCESS

Course Code: 17PBDCT101

CO1	Understand the basis of Management.
CO2	Acquire knowledge about planning and decision making.
CO3	Gain knowledge about organization Structure and delegation
CO4	Gain exposure on staffing, motivation and leadership
CO5	Exhibit awareness on Coordination and control techniques.

Course Name: Core - ORGANIZATIONAL BEHAVIOUR

Course Code: 17PBDCT102

CO1	Understand the basics of Organizational Behavior.
CO2	Acquire the knowledge of the individual behaviour.
CO3	Demonstrate knowledge about group behaviour in organizations.
CO4	Able to understand and identify key principles of Organisational Politics, change and development.
CO5	Able to apply the theories to practical problems in organizations in a critical manner.

Course Name: Core - MANAGERIAL ECONOMICS

Course Code: 17PBDCT103

CO1	Articulate the fundamental managerial economic concepts and understand the roles of managers in the firm.
CO2	Analyze the demand conditions and forecast the position of a company.
CO3	Determine a cost efficient method of production, and supply analysis in the managerial implications.
CO4	Design different types of pricing in accordance with the nature of market
CO5	Determine the implications of government policy on industry and industrial business.

Course Name: Core - ACCOUNTING FOR MANAGERS

Course Code: 17PBDCT104

CO1	Understand the fundamental principles of accounting.
CO2	Prepare and analyze a financial statement and assist in management decision making.
CO3	Gain specific knowledge on cost concept necessary for managerial decision.
CO4	Acquire necessary skills to prepare various budgets.
CO5	Develop the skills needed to apply the knowledge on the tools of management accounting in varied situations.

Course Name: Core - STATISTICS FOR BUSINESS DECISIONS**Course Code: 17PBDCT105**

CO1	Know the importance ,functions and limitations of statistics
CO2	Calculate measures of central tendency.
CO3	Find range, quartile deviation, standard deviation
CO4	Determine the relationship between two variables.
CO5	Understand the characteristics of index number and analysis of time series

Course Name: Core - EXECUTIVE COMMUNICATION**Course Code: 17PBDCT106**

CO1	Understand and identify key principles of business communication.
CO2	Able to Identify the appropriate use of different channels of written communication in business
CO3	Acquire knowledge about preparing reports, minutes of meeting and agenda for business
CO4	Develop skills for public speaking, interpersonal skills and using social media for business.
CO5	Gain specific knowledge about use of non verbal communication and new technologies for business communication.

SEMESTER: II**Course Name: Core - PRODUCTION AND OPERATIONS MANAGEMENT****Course Code: 17PBDCT201**

CO1	Describe the basis on production system
CO2	Gain exposure on product design and plant layout.
CO3	Exhibit awareness on production planning and control.
CO4	Gain knowledge on material management and inventory control techniques
CO5	Analyze the total quality system and ISO quality certifications.

Course Name: Core - MARKETING MANAGEMENT**Course Code: 17PBDCT202**

CO1	Understand the basic Marketing concepts and its environment
CO2	Gain exposure on buying behaviour and product decisions
CO3	Identify appropriate pricing and distribution channels.
CO4	Determine the appropriate promotion mix and take prompt decision
CO5	Fetch a knowledge about recent trends in marketing.

Course Name: Core - FINANCIAL MANAGEMENT**Course Code: 17PBDCT203**

CO1	Understand the functional areas of financial management
CO2	Acquire knowledge to measure the cost of capital.
CO3	Application of capital budgeting techniques for project analysis
CO4	Determine the capital structure and predict the change in the value of firm. with respect to dividend decisions
CO5	Gain knowledge towards effective management of current asset.

Course Name: Core - HUMAN RESOURCE MANAGEMENT

Course Code: 17PBDCT204

CO1	Identify the concepts of Human resource Management and its relevance in Organization
CO2	Develop necessary skill sets for application of various recruitment processes in organizations
CO3	Gain knowledge about the training needs and training methods in organizations.
CO4	Acquire knowledge about compensation concepts and the context of compensation practice
CO5	Gain descriptive knowledge of the field of industrial relations.

Course Name: Core - QUANTITATIVE TECHNIQUES

Course Code: 17PBDCT205

CO1	Gain knowledge about operations research.
CO2	To solve transportation and assignment problems.
CO3	Apply queuing theory and networking in managerial areas
CO4	Gain knowledge in decision analysis.
CO5	Generate random numbers and application of simulation.

Course Name: Core - RESEARCH METHODS FOR MANAGEMENT

Course Code: 17PBDCT206

CO1	Describe the basis on research process.
CO2	Gain exposure on research design and sampling methods.
CO3	Exhibit awareness on scaling techniques and data collection methods
CO4	Gain knowledge on data analysis and statistical tools.
CO5	Develop exposure for interpretation and report writing.

Course Name: Core - COMPUTERAPPLICATIONS IN MANAGEMENT - PRACTICAL

Course Code: 17PBDCT207

CO1	Describe the basis on MS Word
CO2	Gain the knowledge about word formatting.
CO3	Learn the basics about working with MS Excel and Ms PowerPoint.
CO4	Gain exposure on formatting work sheets and creating transition slides.
CO5	Demonstrate the understanding of computer applications in management.

SEMESTER: III

Course Name: Core – STRATEGIC MANAGEMENT

Course Code: 17PBDCT301

CO1	To gain Basic knowledge of the field of strategic management and the main perspectives within this field.
CO2	To obtain Specific knowledge of perspectives, frameworks and concepts within strategic thinking as well as companies mission, vision and corporate social responsibility.
CO3	To demonstrate the ability to think critically in relation to a particular problem, situation or strategic decision through real-world scenarios.
CO4	Recognize strategic decisions that present ethical challenges and make appropriate recommendations for ethical decision-making.
CO5	Apply appropriate tools, theories and concepts to analyse strategic issues in organizations and to develop strategies for implementation.

Course Name: Core – MANAGEMENT INFORMATION SYSTEM

Course Code: 17PBDCT302

CO1	To gain the knowledge of information technology and information systems in business.
CO2	To know the current issues of information technology and relate those issues to the firm.
CO3	To demonstrate the role and significance of effective management information system, and describe how they contribute to optimizing organizational performance.
CO4	To apply the technical knowledge of computer networks, information security and information assurance.
CO5	To recognize potential vulnerabilities and threats and be able to counteract those vulnerabilities with a secure system.

Course Name: Elective – INTEGRATED MARKETING COMMUNICATION

Course Code: 17PBDET303

CO1	Understand the Integrated Marketing Communication and its process.
CO2	Enable the students to understand the basic concepts of advertising
CO3	Demonstrate a range of media and methods available to marketers.
CO4	Draft the advertisement copy for all medias.
CO5	Analyse and evaluate the advertisement and sales promotion activities.

Course Name: Elective – CONSUMER BEHAVIOUR

Course Code: 17PBDCT304

CO1	Identify the influences on customer choice.
CO2	Associate the psychological aspect with consumer behaviour.
CO3	Recognize the human decision making in a marketing context.
CO4	Understand the cross cultural consumer analysis.
CO5	Familiarize with opinion leadership

Course Name: Elective – RURAL MARKETING

Course Code: 17PBDCT305

CO1	Describe the basis on rural economy and its development.
CO2	Gain exposure on rural market and consumers
CO3	Develop product strategy for rural markets.
CO4	Exhibit an awareness on pricing strategy and promotional campaigns.
CO5	Understand the distribution and logistics management.

Course Name: Elective – STAFFING IN ORGANISATION

Course Code: 17PBDCT306

CO1	Describe the basis on staffing planning.
CO2	Gain exposure on recruitment strategy and planning.
CO3	Exhibit awareness on external selection and staffing activities.
CO4	Gain knowledge on employment contracts, job offers and legal issues.
CO5	Analyze the staffing system and application oriented case studies on staffing.

Course Name: Elective – PERFORMANCE MANAGEMENT

Course Code: 17PBDET307

CO1	Familiarize with Managee performance concept.
CO2	Illustrate a role description
CO3	Describe monitoring purpose.
CO4	Identify the need for manage development.
CO5	Understand mentoring process.

Course Name: Elective – COMPENSATION AND REWARD MANAGEMENT

Course Code: 17PBDET308

CO1	Analyse the basic compensation concepts and the context of compensation practice
CO2	Illustrate different dimensions of compensation.
CO3	Understand the compensation policy
CO4	Determine the types of Incentive schemes.
CO5	Learn the Strategic Perspectives on Benefits and Services

Course Name: Elective – ESSENTIALS OF FINANCIAL SERVICES

Course Code: 17PBDET309

CO1	Help the students appreciate and understand how merchant banking and NBFC operate.
CO2	Understand the concepts of hire purchase and leasing
CO3	Learn the basic functions and performance of mutual funds
CO4	Gain knowledge about the various financial services
CO5	Gain practical knowledge on merger and acquisitions

Course Name: Elective – EQUITY RESEARCH AND PORTFOLIO MANAGEMENT
Course Code: 17PBDET310

CO1	Describe basics of various investment alternatives and its sources
CO2	Exhibit an awareness on securities market.
CO3	Gain exposure to stock market quotation and SEBI.
CO4	Demonstrate the understanding of various analysis and describe how to analyse the various securities.
CO5	Appraise the portfolio construction and to prepare the suitable portfolio for investment.

Course Name: Elective – DERIVATIVES MANAGEMENT
Course Code: 17PBDET311

CO1	Understand the derivative market.
CO2	Evaluate about Instruments in derivative market.
CO3	Use the techniques to examine the market.
CO4	Analysis the risk management using financial derivatives.
CO5	To know financial swap

Course Name: Elective – ELECTRONIC COMMERCE
Course Code: 17PBDET312

CO1	To understand the foundations and importance of E-commerce.
CO2	Describe the key features of Internet, Intranets and Extranets and explain how they relate each other
CO3	To gain knowledge about Internet trading relationships including Business Consumer, Business-to-Business, Intra organizational.
CO4	To assess electronic payment systems and E-security.
CO5	To discuss the global and ethical E-commerce issues.

Course Name: Elective – SYSTEM ANALYSIS AND DESIGN
Course Code: 17PBDET313

CO1	Describe the concept of system and design.
CO2	Understand the role of system analysts.
CO3	Develop data flow diagrams and decision tables.
CO4	Design system components for the organization.
CO5	Build general and detailed models that assist programmers in implementing a system

Course Name: Elective – KNOWLEDGE MANAGEMENT SYSTEM**Course Code: 17PBDET314**

CO1	To understand the concept of knowledge management and different views of knowledge
CO2	To know different methods and techniques for managing knowledge
CO3	Evaluate and implement Knowledge Management Systems to facilitate individual and group work
CO4	Gain knowledge about different types of knowledge systems and balancing knowledge
CO5	To understand web based knowledge management system concepts.

Course Name: Elective – ADVANCED PRODUCTION MANAGEMENT**Course Code: 17PBDET315**

CO1	Describe various advanced production system.
CO2	Demonstrate the understanding of designing facilities and will able to design the product layout.
CO3	Gain exposure to design of various production system.
CO4	Handle productivity techniques and modern quality management effectively
CO5	Analyze the application oriented case studies on modern production management.

Course Name: Elective – INTEGRATED MATERIAL MANAGEMENT**Course Code: 17PBDET316**

CO1	Understand the concepts and functional areas of material management.
CO2	Planning (MRP), and various inventory control techniques.
CO3	Determine the techniques available for purchasing of materials
CO4	Ability to gain basic knowledge about the methods involved in material handling and storage
CO5	Evaluate the safety measures involved in handling the materials in production process.

Course Name: Elective – PRODUCT DESIGN**Course Code: 17PBDET317**

CO1	Describe basics of product development and development process.
CO2	Gain exposure on product planning and product life cycle
CO3	Exhibit knowledge on product concept.
CO4	Acquire exposure on Industrial design and design tools.
CO5	Express the intellectual property rights and patents.

Course Name: Elective – PROJECT MANAGEMENT**Course Code: 17PBDET318**

CO1	Manage the selection and initiation of individual projects and portfolios of projects in enterprise.
CO2	Apply project management principles in business situations to optimize resource utilization and time optimization.
CO3	Demonstrate effective risk management approach for managing the project effectively.
CO4	Identify and reduce various risks involved in the projects.
CO5	Apply the feasible study to evaluate the viability of a project

Course Name: Elective – MANAGEMENT OF SMALL ENTERPRISES

Course Code: 17PBDET319

CO1	Describe basis on small scale industrial units.
CO2	Gain knowledge on starting small industry and legal formalities.
CO3	Exhibit awareness on incentives and subsidies.
CO4	Gain exposure on financial requirements for small business
CO5	Acquire knowledge on marketing and manpower planning in small enterprises.

Course Name: Elective – LEGAL ASPECTS OF BUSINESS

Course Code: 17PBDET320

CO1	Understand the law of contract.
CO2	Know the rights of buyer and seller.
CO3	Describe the securities market and regulations.
CO4	Evaluate the consumer rights and protection.
CO5	Study the various acts relating to business.

Course Name: ADVANCED LEARNERS COURSE – CORPORATE GOVERNANCE

Course Code: 17PBDAL321

CO1	Describe basis of corporate governance
CO2	Gain knowledge on ethics and social responsibility.
CO3	Exhibit awareness on ethics in marketing.
CO4	Gain exposure on values in corporate governance.
CO5	Acquire knowledge on corporate social responsibility and sustainability.

Course Name: ADVANCED LEARNERS COURSE– EXPORT MANAGEMENT

Course Code: 17PBDAL322

CO1	Describe basis of export management.
CO2	Gain knowledge on export procedures and finance.
CO3	Exhibit awareness on pricing and supporting institutions in export
CO4	Gain exposure on export shipment and incentives.
CO5	Acquire knowledge on export documentation.

SEMESTER: IV

Course Name: Core – BUSINESS ENVIRONMENT AND ETHICS IN GLOBAL SCENARIO

Course Code: 17PBDCT401

CO1	Describe basis on environmental analysis and various business environment
CO2	Exhibit awareness and importance of business ethics.
CO3	Demonstrate the understanding of various stakeholder responsibilities towards business society
CO4	Gain exposure on agreements and functions of world trade organization
CO5	Analyze the application oriented case studies on recent trends in business environment

Course Name: Core – ENTREPRENEURSHIP DEVELOPMENT

Course Code: 17PBDCT402

CO1	Have the ability to discern distinct entrepreneurial traits.
CO2	Identify the entrepreneurial promotion and motivating factors.
CO3	Analyze the internal/external factors affecting a business/organization to evaluate business opportunities.
CO4	Demonstrate the issues and decisions involved in location of enterprise.
CO5	Understand the role of MSME and various institutions supporting entrepreneurs.

Course Name: Core – SERVICES MARKETING

Course Code: 17PBDCT403

CO1	Develop familiarity with the concepts of Services Marketing.
CO2	Understand the marketing mix for services.
CO3	Develop service blueprint.
CO4	Evaluate the service quality.
CO5	Formulate a marketing mix for various areas in services marketing.

Course Name: Core – BRAND MANAGEMENT

Course Code: 17PBDCT404

CO1	Understand branding concepts and ideas in their own words.
CO2	Develop a brand, including positioning and communication.
CO3	Understand the measurement of brand equity and brand performance.
CO4	Develop a brand architecture.
CO5	Appraise the issues and challenges of brand in global scenario.

Course Name: Core – RETAIL MANAGEMENT

Course Code: 17PBDCT405

CO1	Enable the students to understand the basic concepts of retailing.
CO2	Understand the marketing tools and techniques to interact with their customers.
CO3	Understand the retail customer's behavior.
CO4	Gain knowledge about the retail promotion strategies.
CO5	Use of technology, in the gathering and presentation of information.

Course Name: Core - TRAINING AND DEVELOPMENT

Course Code: 17PBDCT406

CO1	Gain exposure on qualities and skills required for trainer.
CO2	Analyse the training need assessment to provide suitable training.
CO3	Design the training and development programme based on the nature of job.
CO4	Demonstrate the understanding of various training and development methods and how provide suitable techniques of training to employee in organization.
CO5	Appraise the training implementation to develop suitable training and development strategy.

Course Name: Core – ORGANISATIONAL DEVELOPMENT

Course Code: 17PBDCT407

CO1	State the need for organizational change.
CO2	Illustrate the procedures of intervention.
CO3	Understand the components of OD.
CO4	Describe the OD interventions.
CO5	Evaluate the outcome of organizational change.

Course Name: Elective – INDUSTRIAL RELATION AND LABOUR LEGISLATION

Course Code: 17PBDET408

CO1	Describe the basis on industrial relations.
CO2	Understand the industrial disputes and workers participation.
CO3	Gain knowledge on laws and working condition and wages.
CO4	Exposure on laws relating to industrial relations.
CO5	Exhibit an awareness on laws on social security

Course Name: Elective – INTERNATIONAL FINANCIAL MANAGEMENT

Course Code: 17PBDET409

CO1	Understand international financial environment.
CO2	Describe the major participants of exchange market.
CO3	Analysis the foreign exchange rates.
CO4	Evaluate money market instrument.
CO5	State the financing of foreign trade

Course Name: Elective – INSURANCE PRINCIPLES

Course Code: 17PBDET410

CO1	Identify and evaluate the processes, concepts and principles of insurance to better understand the insurance environment.
CO2	Equip the learners with required skills to know the life insurance policy and role of insurance agent.
CO3	Gain knowledge on general insurance.
CO4	Acquire knowledge about to fire, marine, health engineering and corps insurance.
CO5	Enable the students to understand the role of insurance authority.

Course Name: Elective – COST MANAGEMENT

Course Code: 17PBDET411

CO1	Understand cost concepts.
CO2	Evaluate the methods for separating mixed cost.
CO3	Know to allocate the costs to departments.
CO4	Evaluate accounting performance.
CO5	Describe the strategic cost management

Course Name: Elective – SOFTWARE PROJECT MANAGEMENT

Course Code: 17PBDET412

CO1	To manage the selection and initiation of individual projects and of portfolios of projects in enterprise.
CO2	To know the project planning and scheduling.
CO3	Demonstrate effective project execution and control techniques that result in success projects.
CO4	To have a strong working knowledge of ethics and professional responsibility.
CO5	To gain effective organizational leadership and change skills for managing projects,proj teams, and stakeholders.

Course Name: Elective – ENTERPRISE RESOURCE PLANNING

Course Code: 17PBDET413

CO1	Understand concepts and applications of enterprise resource planning (ERP) systems.
CO2	Analysis the basic issues in Enterprise Systems.
CO3	Identify all components in an ERP system and the relationships among the components.
CO4	Understand the steps and activities in the ERP life cycle.
CO5	Analyse the selection, acquisition and implementation of enterprise systems

Course Name: Elective – DECISION SUPPORT SYSTEM AND INTELLIGENT SYSTEMS

Course Code: 17PBDET414

CO1	To know the general nature and range of decision support systems.
CO2	To Select appropriate modeling techniques.
CO3	To gain knowledge about relationship between business information needs and decis making.
CO4	To identify and select appropriate decision support systems for generating innovative busin solutions.
CO5	To analyse, design and implement a Decision support system.

Course Name: Elective – TOTAL QUALITY MANAGEMENT

Course Code: 17PBDET415

CO1	Develop an understanding on quality management philosophies and frameworks.
CO2	Develop in-depth knowledge on various tools and techniques of quality management.
CO3	Learn the applications of quality tools and techniques in manufacturing industry.
CO4	Identify the procedures for receiving the quality certifications for the business.
CO5	Identifying the benchmarking techniques for setting quality standards for the business.

Course Name: Elective – SUPPLY CHAIN MANAGEMENT

Course Code: 17PBDET416

CO1	Interpret fundamental supply chain management concepts and apply knowledge to evaluate and manage customer relationship
CO2	Describe the frame work of supply chain and evaluate the risk in making decisions.
CO3	Ability to forecast the demand and its impacts on supply chain.
CO4	Integrate the supply chain for effective distribution channel for a business.
CO5	Ability to use E commerce and internet for supply chain in the business

Course Name: Elective – SERVICES OPERATIONS MANAGEMENT

Course Code: 17PBDET417

CO1	Acquire knowledge about the service sectors and its environment.
CO2	Ability to design the services by providing value for the customers.
CO3	Acquire the knowledge about service quality and its measures.
CO4	Understand the framework of service facilities location and its dimensions.
CO5	Illustrate the capacity and demand management of services.

Course Name: Elective – BUSINESS PLAN

Course Code: 17PBDET418

CO1	Identify the role of business plan in starting a business.
CO2	Illustrate the components of business plan.
CO3	Ability to design and produce a detailed written business plan.
CO4	Ability to identify the source of funds for the business.
CO5	Identify the risk assessment techniques for business to face the competition.

Course Name: Elective – ENTREPRENEURIAL MARKETING

Course Code: 17PBDET419

CO1	To know the steps to build a strong brand.
CO2	To possess an understanding of customers to support marketing efforts.
CO3	Develop a flexible framework to evaluate marketing decisions to successfully grow business.
CO4	To identify the key selling messages for the business.
CO5	To gain knowledge about creativity and innovation to generate new business ideas and marketing.

Course Name: Elective – INNOVATION AND R&D MANAGEMENT

Course Code: 17PBDET420

CO1	Understand the managerial aspects of Innovation functions.
CO2	Know the research process phase and measurement levels.
CO3	Evaluate the financial and other aspects projects.
CO4	Design and structure research and development.
CO5	Study the promotion measure and other incentives

Programme Title: M.C.A.**Programme Outcomes: At the end of the programme, the students will be able to**

PO Number	PO Statement
PO1	Critical Thinking Take informed actions after identifying the assumptions that frame our thinking and actions, checking out the degree to which these assumptions are accurate and valid, and looking at our ideas and decisions(intellectual, organizational and personal) from different perspectives.
PO2	Effective Communication Speak, read, write and listen clearly in person and through electronic media in English and in one Indian language, and making meaning of the world by connecting people, ideas, books, media and technology.
PO3	Social Interaction Elicit views of others, mediate disagreements and help reach conclusions in group settings.
PO4	Effective Citizenship Demonstrate empathetic social concern and equity centred national development, and the ability to act with an informed awareness of issues and participate in civil life through volunteering
PO5	Ethics Recognize different value systems including your own, understand the moral dimensions of your decisions, and accept responsibility for them.
PO6	Environment and Sustainability Understand the issues of environmental contexts and sustainable development.
PO7	Self-directed and Life-long Learning Acquire the ability to engage in independent and life-long learning in the broadest context socio-technological changes.

Programme Specific Outcomes:**At the end of the programme, students will be equipped with the Knowledge in:**

PSO Number	PSO Statement
PSO1	The ability to understand, analyze and develop computer programs in the areas related to algorithms, system software, simulation, software design, web design, big data analytics and networking for efficient design of computer-based systems of varying complexity.
PSO2	The ability to apply standard practices and strategies in software project development using open ended programming environments to deliver quality applications for business success.
PSO3	The ability to employ modern computer languages, technologies, environments and platforms in creating innovative career paths to be a software engineer, an entrepreneur and a zest for research in Computer Science field.

SEMESTER: I**Course Name: Core - I: INTRODUCTION TO COMPUTING & WEB TECHNOLOGY****Course Code: 17PBHCT101**

CO1	Explore the basics of Computers
CO2	Work with Application Software and Development
CO3	Able to apply HTML Tags for web development
CO4	Implement Java Scripts in Web Applications
CO5	Write Server Side and XML Codings

Course Name: Core - II: COMPUTER ORGANIZATION AND ARCHITECTURE**Course Code: 17PBHCT102**

CO1	Draw combinatorial circuits using various basic gates
CO2	Simplify the Boolean expressions using Karnaugh Map
CO3	Write micro operations and instructions for ALU
CO4	Categorize and apply different addressing modes and instruction formats
CO5	Explore the hardware and software structure of different types of memories

Course Name: Core - III: DATA STRUCTURES & ALGORITHMS**Course Code: 17PBHCT103**

CO1	Choose an appropriate data structure for an application
CO2	Utilize linked list concepts in various applications
CO3	Explain the representation of Stacks, Queues and Graphs
CO4	Discuss the operations on Trees and Graphs
CO5	Apply the concept of searching and sorting in the real world problems

Course Name: Core - IV: ACCOUNTING AND FINANCIAL MANAGEMENT**Course Code: 17PBHCT104**

CO1	Learned to prepare journal and ledger, balance sheet, funds flow statement and Budgets
CO2	Prepare Balance sheet
CO3	Prepare Cash flow and Fund flow statements
CO4	Explore the concepts of Budgets
CO5	Preparation of Cost Sheet

Course Name: Core - V: OBJECT ORIENTED ANALYSIS AND DESIGN & C++**Course Code: 17PBHCT105**

CO1	Understand OOAD concepts.
CO2	Understand the relationship among classes
CO3	Explain the Input and Output operations and functions of C++
CO4	Implement the concept of Constructors and Destructors
CO5	Apply virtual function in complex programming situations

Course Name: Core Practical - I: DATA STRUCTURES LAB USING C++

Course Code: 17PBHCP106

CO1	Implement the concept of recursion and apply Algorithm for solving problems like searching and sorting
CO2	Understand basic data structures such as arrays, linked lists, stacks and queues
CO3	Solve the knapsack problem using greedy approach
CO4	Implement the concept of virtual function and Parameterized constructor
CO5	Implement the concept of friend function and function overloading.

Course Name: Core Practical - II: WEB DESIGNING LAB

Course Code: 17PBHCP107

CO1	Design a web page using advanced HTML tags
CO2	Implement Bullets and Numbering and paragraph tags in HTML
CO3	Implement Frames and Tables in web page
CO4	Design a page using a hyperlink tag in HTML
CO5	Design a web page using Forms and apply validation for the form using PHP

SEMESTER: II

Course Name: Core - VI: COMPUTER GRAPHICS AND MULTIMEDIA

Course Code: 17PBHCT201

CO1	To learn to explain algorithm regarding line drawing, circle generation, midpoint, polyg scanning
CO2	Apply 2D Transformations
CO3	Apply 3D Transformations
CO4	Outline the audio and video concepts in multimedia
CO5	Elaborate the data compression techniques

Course Name: Core - VII: RELATIONAL DATABASE MANAGEMENT SYSTEMS

Course Code: 17PBHCT202

CO1	Design the database schema with the use of appropriate data types for storage of data in database
CO2	Design ER Diagram
CO3	Application of SQL commands
CO4	Application of Normalization
CO5	Create parallel and Distributed databases

Course Name: Core - VIII: OPERATING SYSTEMS

Course Code: 17PBHCT203

CO1	Define the basic features of operating system
CO2	Explore process scheduling algorithms.
CO3	Handle the deadlock conditions during Multi process scheduling
CO4	Apply the memory management allocation strategies
CO5	Describe the architecture of LINUX and internal representation of files.

Course Name: Core - IX: COMPUTER NETWORKS**Course Code: 17PBHCT204**

CO1	Outline the fundamental components of computer networking.
CO2	Explain the functions of physical layer
CO3	Apply different techniques in error detection and correction during data transmission.
CO4	Discuss how routing protocols works in network and transport layer
CO5	Describe the Design issues in session, presentation and application layer

Course Name: Core-X: MATHEMATICAL FOUNDATIONS OF COMPUTER SCIENCE**Course Code: 17PBHCT205**

CO1	Fundamental concepts and tools in discrete mathematics
CO2	Apply Boolean Algebra
CO3	Apply mathematical logic in programming
CO4	Implement Graph theory
CO5	Explore Finite State Automata

Course Name: Core Practical - III: GRAPHICS AND MULTIMEDIA LAB**Course Code: 17PBHCP206**

CO1	Able to design and develop programs using graphics and multimedia concepts by means of the C
CO2	Apply 2D and 3D Transformations
CO3	Implement text and image compression techniques
CO4	Create Web page using Photoshop
CO5	Create animations using flash

Course Name: Core - IV: RDBMS LAB**Course Code: 17PBHCP207**

CO1	Creation of Databases
CO2	Apply SQL queries to retrieve information
CO3	Improve the database design by normalization
CO4	Create forms and reports
CO5	Create Backend for an application

SEMESTER: III**Course Name: Core - XI: OPEN SOURCE PROGRAMMING****Course Code: 17PBHCT301**

CO1	Apply the concepts of PHP
CO2	Implement the OOP's concept in programming
CO3	Implement Database connectivity with MySQL and XML
CO4	Develop the dynamic webpage
CO5	Apply the fundamentals of PERL language

Course Name: Core - XII: ADVANCED JAVA PROGRAMMING

Course Code: 17PBHCT302

CO1	Write Java programs using basic concepts of OOP
CO2	Implement programs using AWT and SWING Components
CO3	Develop an application to establish socket communication and RMI
CO4	Create Applet Applications
CO5	Apply the knowledge of JSP in JDBC and JavaBean

Course Name: Core - XIII: PROGRAMMING LOGIC AND DESIGN

Course Code: 17PBHCT303

CO1	Remember and view the basics of program structure
CO2	Represent programming logics using controls, loops and arrays
CO3	Modularize the programs and handle files.
CO4	Understand and define and OOP structure and GUI concepts
CO5	Draw and generate UML diagrams and database tables

Course Name: Core - XIV: SOFTWARE ENGINEERING

Course Code: 17PBHCT304

CO1	Define the software engineering concepts and life cycle models
CO2	Outline the requirement elicitation, analysis and specification of SRS document
CO3	Design a software with proper user interface design and reusable components
CO4	Apply the coding guidelines, tools and techniques for coding and testing
CO5	Evaluate the techniques and tools for software maintenance

Course Name: Core - XV: OPTIMIZATION TECHNIQUES

Course Code: 17PBHCT305

CO1	Formulate and solve the LPP using simplex, Big-M and Two-Phase methods
CO2	Apply the concept of Optimality, Transportation problems and PERT/CPM
CO3	Solve the Assignment problem and Replacement methods
CO4	Implement the concept of inventory control and EOQ models
CO5	Evaluate the characteristics of queuing system and its models

Course Name: Core Practical- V: OPEN SOURCE PROGRAMMING LAB

Course Code: 17PBHCP306

CO1	Implement the MySQL queries
CO2	Develop forms using HTML and using PHP scripts to store and retrieve data
CO3	Create a PHP Scripts for validation, file handling
CO4	Implement session and cookies
CO5	Develop an application using PERL and establish connectivity with a MySQL

Course Name: Core Practical- VI: ADVANCED JAVA PROGRAMMING LAB

Course Code: 17PBHCP307

CO1	Develop program using exception handling and multithreading concepts
CO2	Impart practical knowledge in AWT and Swing components
CO3	Develop programs to handle file operations in Java
CO4	Develop programs using Socket communications, RMI, Applet
CO5	Implement JDBC connectivity and Java bean

SEMESTER:IV

Course Name: Core - XVI: PYTHON PROGRAMMING

Course Code: 17PBHCT401

CO1	Apply basic concepts of Python programming
CO2	Implement strings, list and tuples data type
CO3	Define functions and handle exceptions
CO4	Import modules and packages to create an application
CO5	Develop games and web applications using the GUI and DB-API

Course Name: Core - XVII: .NET PROGRAMMING

Course Code: 17PBHCT402

CO1	Explain the architecture of .NET framework and object oriented programming concepts
CO2	Understood the basic programming concepts of C#
CO3	Know the data accessing with database
CO4	Develop the web applications using ASP.NET through C#
CO5	Create ASP.NET applications using standard .NET controls

Course Name: Core - XVIII: DATA MINING AND WAREHOUSING

Course Code: 17PBHCT403

CO1	Explain the steps in KDD process
CO2	Explain the schema for Multidimensional Data Model
CO3	Explain various algorithms for data mining
CO4	Describe the classification methods
CO5	Describe the various data mining applications

Course Name: Elective – I: CLIENT SERVER TECHNIQUES

Course Code: 17PBECT404

CO1	Define the Standards and Security concerns of client server architecture
CO2	Analyze the hardware, software components and databases
CO3	Distinguish the role of client and server functionality
CO4	State the requirements to implement client server technology
CO5	Explain the web services in client server technology

Course Name: Elective – I: CRYPTOGRAPHY AND NETWORK SECURITY

Course Code: 17PBECT405

CO1	Describe cryptography and network security concepts
CO2	Illustrate the algorithms, modes and encryption standards
CO3	Analyze and explain the cryptography techniques, digital signatures
CO4	Explain the concept of SSL, SHTTP, SET, Security in 3G and GSM
CO5	Depict the TCP/IP, Firewalls VPN and Intrusion

Course Name: Elective – I: WAP & XML

Course Code: 17PBECT406

CO1	Express the wireless concepts, architecture, components and gateways of WAP
CO2	Describe the structure, syntax and semantics of WML language
CO3	Apply the WML controls and application security for dynamic content generation
CO4	Design of WAP site with good user interface design
CO5	Explain the architecture and considerations of WTA

Course Name: Elective – II: COMPILER DESIGN

Course Code: 17PBECT407

CO1	Explain the phases of a compiler and regular expressions (NFA & DFA)
CO2	Describe the context free grammar and various parsing techniques.
CO3	Design a code generator and experiments the Intermediate Code Generation
CO4	Implement code optimization techniques
CO5	Implement the storage organization and allocation strategies

Course Name: Elective – II: E-COMMERCE

Course Code: 17PBECT408

CO1	Explain infrastructure for E-Commerce
CO2	Describe the E-Commerce architecture
CO3	Explain the E-Commerce payment and security system
CO4	Handle Intra-organizational E-Commerce and digital documents
CO5	Manage Advertisement and customers

Course Name: Elective – II: SERVICE ORIENTED ARCHITECTURE

Course Code: 17PBECT409

CO1	Describe about fundamental and evolution of SOA
CO2	Describe about the web services and SOA
CO3	Explain the principles and layers of SOA
CO4	Exemplify WSDL and SOAP
CO5	Write SOA application using J2EE and .NET

Course Name: Core Practical – VII: PYTHON PROGRAMMING LAB

Course Code: 17PBHCP410

CO1	Implement dynamic and interactive Python applications
CO2	Develop programs using different data types in python
CO3	Implement mail merge concepts in Python
CO4	Develop games using GUI
CO5	Develop a Python application and establish connectivity with a MySQL

Course Name: Core Practical – VIII: .NET PROGRAMMING LAB

Course Code: 17PBHCP411

CO1	Design, document, code and test small C# console and GUI applications
CO2	Create simple application using standard web controls
CO3	Implement various ASP.NET controls for different applications
CO4	Design and debug web applications using ASP.NET
CO5	Create database driven ASP.NET web applications

SEMESTER: V

Course Name: Core - XXI: BIG DATA ANALYTICS

Course Code: 17PBHCT501

CO1	Understood the flow of a data science process
CO2	Understood the overview and state of the practice in analytics
CO3	Understood the data analytics lifecycle
CO4	Describe the advanced analytical theory and methods in text analysis
CO5	Describe the technology and tools in data analytics

Course Name: Core - XXII: INTERNET OF THINGS

Course Code: 17PBHCT502

CO1	Define IoT deployment levels
CO2	Analyze IoT applications in different domain
CO3	Understand IoT system management and design methodology
CO4	Build IoT systems using Python packages
CO5	Explore and learn about Internet of Things with the help of Raspberry Pi

Course Name: Core - XXIII: CLOUD COMPUTING

Course Code: 17PBHCT503

CO1	Define cloud types
CO2	Explain cloud architecture, services and applications
CO3	Understand load balancing and virtualization
CO4	Understand the cloud security
CO5	Analyze cloud backup solutions

Course Name: Elective - III: ORGANIZATIONAL BEHAVIOUR

Course Code: 17PBHET504

CO1	Understand the applicability and concept of organizational behaviour in the organization.
CO2	Analyze and compare different concepts used to explain individual personality, perception learning and individual behaviour in the organization.
CO3	Develop attitudes, values and applying emotional intelligence related to motivation and rewards for improving the performance of employees and organizations.
CO4	Analyze the complexities of the group behaviour and conflicts associated with management in the organization.
CO5	Identify the various leadership styles and the role of leaders in a decision making process with effective communication.

Course Name: Elective - III: MOBILE COMPUTING

Course Code: 17PBHET505

CO1	Understand mobile computing architecture
CO2	Determine the functionality of mobile computing through telephony
CO3	Illustrate global system for mobile communications
CO4	Explain the basics of GPRS
CO5	Familiar with mobile application languages and operating systems

Course Name: Elective - III: SCRIPTING LANGUAGES

Course Code: 17PBHET506

CO1	Develop forms using HTML
CO2	Understand the basics of Cascading Style Sheet
CO3	Analyze the role of Java script in web development
CO4	Explain the role of Ajax in web applications
CO5	Develop an Ajax based applications

Course Name: Elective - IV: BUSINESS INTELLIGENCE

Course Code: 17PBHET507

CO1	Remember and view the basics of business view & IT, digital data structure and OLTP
CO2	Elucidate the definition of business intelligence and basics of data integration programming logics using controls, loops and arrays
CO3	Comprehend the data modeling, metrics and performance Management.
CO4	Understand and prepare the reports using statistical methods
CO5	Present the applications of analytics and further movement of BI

Course Name: Elective - IV: MOBILE APPLICATION DEVELOPMENT**Course Code: 17PBHET508**

CO1	Understand about Android Programming, IDE environment, Activities, Fragments and Intents
CO2	Apply the Android User Interface Design
CO3	Implement menus and data persistence concepts
CO4	Create their own content and SMS messaging
CO5	Access location based services, JSON services and their own android services

Course Name: Elective - IV: INFORMATION RETRIEVAL TECHNIQUES**CourseCode:17PBHET509**

CO1	Explain the basic concepts of retrieval process
CO2	Explain about querying languages
CO3	Determine various document preprocessing methods
CO4	Describe the various data models
CO5	Analyze the applications of information retrieval techniques

Course Name: Core Practical - IX: SOFTWARE TESTING LAB**Course Code: 17PBHCP510**

CO1	Introspect and write manual test cases for the failure
CO2	Implement and carryout functional testing using WinRunner
CO3	Create and test bitmap checkpoints, parameterization, database application, debugging and test result evaluation using Quick Test Professional tool
CO4	Perform HTTP and JDBC test using JMeter
CO5	Test programs using selenium tool

Course Name: Core Practical - X: MINI PROJECT LAB**Course Code: 17PBHCP511**

CO1	Acquire practical knowledge within a area of technology
CO2	Identify, analyze, formulate projects with a comprehensive and systematic approach
CO3	Compare and contrast the several existing solutions
CO4	Contribute as an individual or in a team in development of technical projects
CO5	Develop effective communication skills for presentation of project related activities

SEMESTER VI

Course Name: PROJECT WORK AND VIVA VOCE

Course Code: 17PBHCV601

CO1	Acquire practical knowledge within a area of technology
CO2	Identify, analyze, formulate projects with a comprehensive and systematic approach
CO3	Compare and contrast the several existing solutions
CO4	Contribute as an individual or in a team in development of technical projects
CO5	Develop effective communication skills for presentation of project related activities

Programme Title: M.Sc Computer Science

Programme Outcomes: At the end of the programme, the students will be able to

PO Number	PO Statement
PO1	Critical Thinking Take informed actions after identifying the assumptions that frame our thinking and actions, checking out the degree to which these assumptions are accurate and valid, and looking at our ideas and decisions(intellectual, organizational and personal) from different perspectives.
PO2	Effective Communication Speak, read, write and listen clearly in person and through electronic media in English and in one Indian language, and making meaning of the world by connecting people, ideas, books, media and technology.
PO3	Social Interaction Elicit views of others, mediate disagreements and help reach conclusions in group settings.
PO4	Effective Citizenship Demonstrate empathetic social concern and equity centred national development, and the ability to act with an informed awareness of issues and participate in civic life through volunteering
PO5	Ethics Recognize different value systems including your own, understand the moral dimensions of your decisions, and accept responsibility for them.
PO6	Environment and Sustainability Understand the issues of environmental contexts and sustainable development.
PO7	Self-directed and Life-long Learning Acquire the ability to engage in independent and life-long learning in the broadest context socio-technological changes.

Programme Specific Outcomes: At the end of the programme, students will be equipped with the Knowledge in

PSO Numbe	PSO Statement
PSO1	The ability to understand, analyze and develop computer programs in the areas related to algorithms, system software, simulation, software design, web design, big data analytics, networking for efficient design of computer-based systems of varying complexity.
PSO2	The ability to apply standard practices and strategies in software project development using open-ended programming environments to deliver quality applications for business success.
PSO3	The ability to employ modern computer languages, technologies, environments and platforms in creating innovative career paths to be a software engineer, an entrepreneur and a zest for research in Computer Science field.

SEMESTER: I

Course Name: Core – I: ANALYSIS & DESIGN OF ALGORITHMS

Course Code: 20PBICT101

CO1	Apply the elementary data structure in applications
CO2	Understand the algorithms of basic traversal and search techniques
CO3	Ability to solve problems using algorithm design techniques
CO4	Understand algorithm design methods such as the greedy method and dynamic programming
CO5	Apply the Concept of backtracking, branch and bound method to solve the real world problems.

Course Name: Core – II: OBJECT ORIENTED ANALYSIS AND DESIGN & C++

Course Code: 20PBICT102

CO1	Understand OOAD concepts.
CO2	Understand the relationship among classes
CO3	Explain the Input and Output operations and functions of C++
CO4	Implement the concept of Constructors and Destructors
CO5	Apply virtual function in complex programming situations

Course Name: Core – III: ADVANCED NETWORKS

Course Code: 20PBICT103

CO1	Understand the TCP/IP suite of protocols and the networked applications supported by it.
CO2	Map Internet address to physical address
CO3	Work with the network layer of the OSI model
CO4	Describe how TCP and UDP function
CO5	Acquire knowledge of Application layer

Course Name: Core – IV: ADVANCED SOFTWARE ENGINEERING

Course Code: 20PBICT104

CO1	Understand the challenges in Software Development process.
CO2	Explain about the Software Requirement Analysis and Specification
CO3	Do the Project planning, tracking, Risk analysis, Quality management and Project Cost estimation using different techniques.
CO4	Solve the issues and challenges faced in Software Design Process
CO5	Understand and anticipate the possible causes of Software failure and knowledge of how to prevent them

Course Name: Core Practical – I: ALGORITHM AND OOPS LAB

Course Code: 20PBICP105

CO1	Implement the concept of recursion and apply Algorithm for solving problems like searching and sorting
CO2	Understand basic data structures such as arrays, linked lists, stacks and queues
CO3	Solve the knapsack problem using greedy approach
CO4	Implement the concept of virtual function and Parameterized constructor
CO5	Implement the concept of friend function and function overloading.

Course Name: Core Practical – II: SOFTWARE TESTING LAB

Course Code: 20PBICP106

CO1	Implement and carryout functional testing using WinRunner
CO2	Implement testing using Silk Test
CO3	Implement testing using LoadRunner
CO4	Perform testing using JMeter
CO5	Create and test bitmap checkpoints, parameterization, database application, debugging and test result evaluation using Quick Test Professional tool

SEMESTER II

Course Name: Core – V: DATA MINING AND WAREHOUSING

Course Code: 20PBICT201

CO1	Identify appropriate data mining algorithms to solve real world problems
CO2	Understand various classification algorithms to solve the real time problems.
CO3	Compare and evaluate different data mining techniques like clustering and association rule mining
CO4	Design data warehouse with dimensional modeling and apply OLAP operations.
CO5	Identify the necessity of Data Warehousing for the society

Course Name: Core – VI: ADVANCED OPERATING SYSTEMS

Course Code: 20PBICT202

CO1	Understand the basics of Operating System
CO2	Apply and analyse the concept of deadlock.

CO3	Understand the concept of real time operating systems
CO4	Understand the Operating Systems for Handheld Systems
CO5	Understand the architecture of LINUX and internal representation of files.

Course Name: Core – VII: ADVANCED JAVA PROGRAMMING

Course Code: 20PBICT203

CO1	Understand the syntax and semantics of the Java language
CO2	Invoke the remote methods in an application using Remote Method Invocation
CO3	Access database using Java Data Base Connectivity in web applications
CO4	Create dynamic web pages, using Servlets and JSP
CO5	Solve real-world applications through JQuery

Course Name: Core – VIII: ARTIFICIAL INTELLIGENCE & EXPERT SYSTEMS

Course Code: 20PBICT204

CO1	Understand the AI problems and techniques to solve the problem
CO2	Apply basic principles of AI in solutions that require problem solving, inference, perception, knowledge representation, and learning.
CO3	Ability to represent simple facts in Logic
CO4	Understand automatic reasoning
CO5	Describe the concepts central to the creation of knowledge bases and expert systems

Course Name: Elective – I: MULTIMEDIA AND ITS APPLICATIONS

Course Code: 20PBIET205

CO1	Understand the basic concept of multimedia and its tools
CO2	Understand the characteristics of multimedia authoring tools and building blocks
CO3	Understand the representations of different multimedia data
CO4	Apply acquired knowledge in designing World Wide Web
CO5	Describe High Definition Television and Desktop Computing

Course Name: Elective – I: EMBEDDED SYSTEMS

Course Code: 20PBIET206

CO1	Understand the technologies behind the embedded computing systems.
CO2	Analyze the architectures for Embedded Systems
CO3	Understand the real time embedded systems using the concepts of RTOS
CO4	Understand the design issues of Embedded Systems
CO5	Understand the requirements of programming Embedded Systems

Course Name: Elective – I: PHP PROGRAMMING

Course Code: 20PBIET207

CO1	Formulate, design and create PHP control structures, including selection and iterative structures
CO2	Implement the OOP's concept in PHP Scripts

CO3	Create a PHP Scripts for file handling
CO4	Implement session and cookies
CO5	Draw images on the server with AJAX

Course Name: Core Practical - III: ADVANCED JAVA PROGRAMMING LAB
Course Code: 20PBICP208

CO1	Handle HTML form data with Java Servlet
CO2	Invoke the remote methods in an application using Remote Method Invocation
CO3	Access database using Java Data Base Connectivity in web applications
CO4	Create dynamic web pages, using Servlets and JSP
CO5	Create an applet application

Course Name: Core Practical - IV: DATA MINING USING R LAB
Course Code: 20PBICP209

CO1	Extract association rule using R
CO2	Implement k-means clustering using R
CO3	Implement classification algorithm using R
CO4	Predict quantitative variable using R
CO5	visualize data using R.

SEMESTER: III

Course Name: Core - IX: DIGITAL IMAGE PROCESSING
Course Code: 20PBICT301

CO1	Review the fundamental concepts of a digital image processing system.
CO2	Analyze images in the frequency domain using various mathematical transforms.
CO3	Evaluate the techniques for image enhancement and image restoration
CO4	Categorize various compression techniques and Interpret Image compression standards.
CO5	Interpret image segmentation and representation techniques

Course Name: Core - X: PYTHON PROGRAMMING
Course Code: 20PBICT302

CO1	Select an appropriate data type while developing an application.
CO2	Use Exceptions to handle errors
CO3	Implement modules, packages and object oriented concepts
CO4	Compile files in an application
CO5	To develop web applications using Python

Course Name: Core - XI: NETWORK SECURITY AND CRYPTOGRAPHY
Course Code: 20PBICT303

CO1	Explain network security services, Symmetrical and Asymmetrical cryptography
CO2	Evaluate the authentication and hash functions
CO3	Discuss about authentication applications

CO4	Outline Web security, Firewalls and Password security
CO5	Implement Cryptographic algorithms

Course Name: Core - XII: BUSINESS INTELLIGENCE

Course Code: 20PBICT304

CO1	Describe the framework for business intelligence
CO2	Explore on Big Data applications Using Pig and Hive
CO3	Analyze the HADOOP and Map Reduce technologies associated with big data.
CO4	Deploy big data in the cloud.
CO5	Apply big data analytics to a variety of domains

Course Name: Elective - II: MOBILE COMPUTING

Course Code: 20PBIET305

CO1	Understand the basic concept of Mobile Communication
CO2	Describe technologies of Cellular Mobile Communications
CO3	Illustrate Global System for Mobile Communication
CO4	Understand the Working Principle of Mobile Internet
CO5	Familiar with technology and generations of Mobile Communication

Course Name: Elective - II: CLOUD COMPUTING

Course Code: 20PBIET306

CO1	Understand the fundamentals concepts in cloud computing
CO2	Analyze the uses of cloud for corporation and community.
CO3	Explain the Collaboration on various application and its management
CO4	Evaluate Social Networks deployed in cloud.
CO5	Describe the storage capabilities in cloud

Course Name: Elective - II: WEB SERVICES

Course Code: 20PBIET307

CO1	Understand the principles of Web Services
CO2	Describe about the XML
CO3	Apply SOAP and UDDI model to creation of web service solutions.
CO4	Familiar with the technologies, standards and workflow of web services
CO5	Explore the importance of Qos for web service.

Course Name: Core Practical - V: PYTHON PROGRAMMING LAB

Course Code: 20PBICP308

CO1	Develop a program using different data types in Python
CO2	Implement Conditional branches, loops, functions and modules in Python
CO3	Develop a program to throw Exceptions
CO4	Implement Inheritance and Polymorphism concepts in Python
CO5	Create a dynamic web pages using forms in Python

Course Name: Core Practical - VI: DIGITAL IMAGE PROCESSING USING MATLAB
Course Code: 20PBICP309

CO1	Implement image enhancement techniques and create Histogram using MATLAB
CO2	Apply image filtering and restoration techniques
CO3	Implement image compression techniques and use operators for edge detection
CO4	Create an image and extract it using morphology
CO5	Apply image segmentation techniques

Course Name: Core Practical - VII: WEB DESIGNING LAB
Course Code: 20PBICP310

CO1	Design a web page using advanced HTML tags
CO2	Implement Bullets and Numbering and paragraph tags in HTML
CO3	Implement Frames and Tables in web page
CO4	Design a page using a hyperlink tag in HTML
CO5	Design a web page using Forms and apply validation for the form using PHP

SEMESTER IV

Course Name: PROJECT WORK AND VIVA VOCE
Course Code: 20PBICV401

CO1	Acquire practical knowledge within a area of technology
CO2	Identify, analyze, formulate projects with a comprehensive and systematic approach
CO3	Compare and contrast the several existing solutions
CO4	Contribute as an individual or in a team in development of technical projects
CO5	Develop effective communication skills for presentation of project related activities

Course Name: Advanced Learner Course: COMPUTER SIMULATION
Course Code: 20PBIAL311

CO1	Familiar with the Simulation Languages
CO2	Build an Applications using Simulation
CO3	Apply the Simulation in a right way
CO4	Develop and implement the simulation designs in real world
CO5	Understand the Phases in implementation

Course Name: Advanced Learner Course: HUMAN COMPUTER INTERACTION

Course Code: 20PBIAL312

CO1	Understand the fundamentals and Framework of HCI
CO2	Apply the HCI in the Software Process
CO3	Evaluate the design rules and implementation support for systems
CO4	Understand basic theories, tools and techniques in HCI
CO5	Design a User Support System

Programme Title: PGDCA

Programme Outcomes: At the end of the programme, the students will be able to

PO Number	PO Statement
PO1	Critical Thinking Take informed actions after identifying the assumptions that frame our thinking and actions, checking out the degree to which these assumptions are accurate and valid, and looking at our ideas and decisions(intellectual, organizational and personal) from different perspectives.
PO2	Effective Communication Speak, read, write and listen clearly in person and through electronic media in English and in one Indian language, and making meaning of the world connecting people, ideas, books, media and technology.
PO3	Social Interaction Elicit views of others, mediate disagreements and help reach conclusion in group settings.
PO4	Effective Citizenship Demonstrate empathetic social concern and equity centred national development, and the ability to act with an informed awareness of issues and participate in civic life through volunteering
PO5	Ethics Recognize different value systems including your own, understand the moral dimensions of your decisions, and accept responsibility for them.
PO6	Environment and Sustainability Understand the issues of environmental contexts and sustainable development.
PO7	Self-directed and Life-long Learning Acquire the ability to engage in independent and life long learning in the broadest context socio-technological changes.

Programme Specific Outcomes: At the end of the programme, students will be equipped with the Knowledge in

PSO Number	PSO Statement
PSO1	The ability to understand, analyze and develop computer programs in the areas related to algorithms, system software, simulation, software design, web design, big data analytics and networking for efficient design of computer-based systems of varying complexity.
PSO2	The ability to apply standard practices and strategies in software project development using open-ended programming environments to deliver quality applications for business success.

PSO3	The ability to employ modern computer languages, technologies, environments and platforms in creating innovative career paths to be a software engineer, an entrepreneur and a zest for research in Computer Science field.
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SEMESTER I

Course Name: Core I : OPERATING SYSTEMS

Course Code: 20PBJCT101

CO1	Understand the operating system overview.
CO2	Know the different types of operating systems, servers and DNS.
CO3	Do the server installation and monitoring.
CO4	Do the server backup and storage management.
CO5	Develop the server group policy management.

Course Name: Core II : DATABASE MANAGEMENT SYSTEMS

Course Code: 20PBJCT102

CO1	Understand the basic database concepts and normalization.
CO2	Gain knowledge over Oracle 9i.
CO3	Implement the data management and retrieval by using DML
CO4	Work on the basics of PL/SQL.
CO5	Gain knowledge over advanced concepts of PL/SQL.

Course Name: Core III : SCRIPTING LANGUAGES

Course Code: 20PBJCT103

CO1	Develop the basic concepts of HTML programming.
CO2	Work the basic concepts of XML and CSS.
CO3	Do scripting with Java Script.
CO4	Understand the Power shell scripting basics.
CO5	Gain knowledge over advanced features of Power shell scripting.

Course Name: Elective I : PYTHON PROGRAMMING

Course Code: 20PBJET104

CO1	Understand the algorithmic problem solving concepts.
CO2	Gain knowledge over the data, expressions and statements of Python
CO3	Work with control flow statements and functions of Python
CO4	Develop the lists, tuples and dictionaries of Python
CO5	Implement the files, modules and packages of Python

Course Name: Elective I : VIRTUALISATION AND CLOUD

Course Code: 20PBJET105

CO1	Gain knowledge over distributed systems.
CO2	Understand the cloud computing concepts.
CO3	Gain knowledge over virtualization.
CO4	Know the features of virtual machines.
CO5	Develop the data center architecture for cloud computing

Course Name: Elective II : SOFTWARE TESTING

Course Code: 20PBJET106

CO1	Introduce to testing automation with Selenium.
CO2	Working on basics of Selenium IDE.
CO3	Gain knowledge over Selenium methods and features.
CO4	Understand the dialogs and windows of Selenium.
CO5	Gain knowledge over frameworks and grids of Selenium

Course Name: Elective II : COGNITION AND PROBLEM SOLVING

Course Code: 20PBJET107

CO1	Understand the basic concepts of cognitive psychology.
CO2	Gain knowledge over perceptual processes.
CO3	Know the different types of memory and it's strategies.
CO4	Gain knowledge over problem solving, reasoning and decision making.
CO5	Gain knowledge over future skills.

Course Name: Core Practical I : PYTHON PROGRAMMING LAB

Course Code: 20PBJCP108

CO1	Implement dynamic and interactive Python applications
CO2	Develop programs using different data types in python
CO3	Implement mail merge concepts in Python
CO4	Develop games using GUI
CO5	Develop a Python application and establish connectivity with a MySQL

Course Name: Core Practical II : SCRIPTING LANGUAGES LAB

Course Code: 20PBJCP109

CO1	Implement dynamic and interactive Python applications
CO2	Develop programs using different data types in python
CO3	Implement mail merge concepts in Python
CO4	Develop games using GUI
CO5	Develop a Python application and establish connectivity with a MySQL

SEMESTER II

Course Name: Core Practical II : PROJECT WORK AND VIVA VOCE

Course Code: 20PBJCV201

CO1	Acquire practical knowledge within a area of technology
CO2	Identify, analyze, formulate projects with a comprehensive and systematic approach
CO3	Compare and contrast the several existing solutions
CO4	Contribute as an individual or in a team in development of technical projects
CO5	Develop effective communication skills for presentation of project related activities

Programme Title: MSW

Programme Outcomes: At the end of the programme, the students will be able to

PO Number	PO Statement
PO1	Critical Thinking: Take informed actions after identifying the assumptions that frame thinking and actions, checking out the degree to which these assumptions are accurate, valid, and looking at our ideas and decisions (intellectual, organizational and personal) from different perspectives.
PO2	Effective Communication: Speak, read, write and listen clearly in person and through electronic media in English and in one Indian language, and making meaning of the world by connecting people, ideas, books, media and technology.
PO3	Social Interaction: Elicit views of others, mediate disagreements and help reach conclusions in group settings.
PO4	Effective Citizenship: Demonstrate empathetic social concern and equity centered national development, and the ability to act with an informed awareness of issues and participate in civic life through volunteering.
PO5	Ethics: Recognize different value systems including your own, understand the multiple dimensions of your decisions, and accept responsibility for them.
PO6	Environment and Sustainability: Understand the issues of environmental contexts and sustainable development.
PO7	Self-directed and Life-long Learning: Acquire the ability to engage in independent life-long learning in the broadest context of socio-technological changes.

Programme Specific Outcomes:

At the end of the programme, students will be equipped with the Knowledge in

PSO Number	PSO Statement
PSO1	The fields of social work and specializations.
PSO2	To deal the labours, needy people in counselling and community with welfare schemes.
PSO3	To mould and shape an individual to increase their social contribution.

SEMESTER: I

Course Name: Core 1- Introduction to Social Work Profession

Course Code: 17PBCCT101

CO1	The concepts of Social Work.
CO2	Background and models of social work.
CO3	Social work Profession and Social work education in India.
CO4	Fields and emerging areas of social work.
CO5	Integrated perspective of International social work.

Course Name: Core 2 – Sociology for Social Work Practice

Course Code: 17PBCCT102

CO1	The concept, elements of society, socialization and social groups.
CO2	Marriage and Family system, social stratification and social change.
CO3	Social problems with special reference to India.
CO4	Modern trends of caste system in India.
CO5	Social problems and issues in India.

Course Name: Core 3- Psychology for Social Work Practice

Course Code: 17PBCCT103

CO1	To understand the evolution of personality across individual life span.
CO2	To understand stress and management of the same.
CO3	To facilitate the integration of above knowledge with social work practice.
CO4	To gain knowledge about theories of motivation.
CO5	Role of social workers in promoting mental health.

Course Name: Core 4- Social Case Work

Course Code: 17PBCCT104

CO1	Case work as a method of social work and to understand values and principles working with individuals.
CO2	To develop the ability critically analyze problems of individuals and factors affect them.
CO3	Develop appropriate skills and attitudes to work with individuals.
CO4	Social case work in different setting.
CO5	Recent and emerging trends in case work practice.

Course Name: Core 5- Social Group Work

Course Code: 17PBCCT105

CO1	Group Work as a method of social work and to understand the values and principles of working with groups.
CO2	To develop the ability to critically analyze problems of groups and factors affecting them.
CO3	Develop appropriate skills and attitudes to work with groups.
CO4	To identify the various situation and setting where the method could be used in the context of social realities of the country.
CO5	Recent & Emerging Trend in Social Group Work Practice

SEMESTER: II

Course Name: Core 1- Community Organization and social action

Course Code: 17PBCCT201

CO1	To understand the concepts related to working with communities and processes involved in it.
CO2	To provide the knowledge about the role of social worker in social change and social development.
CO3	To familiarize the emerging trends and experiments in community Organization.
CO4	To introduce various aspects of social action as an effective method of social work.
CO5	To gain knowledge about social activists and social movements.

Course Name: Core 2 – Social Work Research and Statistics

Course Code: 17PBCCT202

CO1	The fundamentals of research.
CO2	The fundamentals of research process.
CO3	Research design and sampling.
CO4	Methods and tools for data collection
CO5	Basic statistics and its application to social work research.

Course Name: Core 3– Social work with Persons with Persons with disability

Course Code: 17PBCCT203

CO1	Forms of disability, Rehabilitation measures
CO2	Multidisciplinary approach to rehabilitation
CO3	Role of the social worker /NGOs in dealing with persons with disability etc.
CO4	Government schemes and programmes for persons with disabilities.
CO5	Intervention methods and strategies.

Course Name: Core 4: Counselling and Guidance

Course Code: 17PBCCT204

CO1	To acquire knowledge of the theoretical approaches to counselling.
CO2	To understand the process of counselling.
CO3	To understand the basic skills required for the counselor.
CO4	To gain knowledge of practice of counseling in different setting.
CO5	To understand the role of professional social worker in counseling field.

Course Name: Elective paper II: labour Welfare

Course Code: 17PBCET205

CO1	Fundamental on Labour and labour welfare
CO2	Role of labour welfare officer.
CO3	Labour welfare administration at National and State level.
CO4	Welfare measures relating to labour.
CO5	Occupational hazards and hygiene.

Course Name: Elective paper II: Community Health and Medical Social Work

Course Code: 17PBCET206

CO1	To develop an understanding of multidimensional approach to health.
CO2	To relate the knowledge of social work practice to the health situation in India.
CO3	Role of medical social worker in dealing with chronically ill patients including cancer, TB and prevention of diseases and promotion of health.
CO4	To gain knowledge about multi-disciplinary approach and team work.
CO5	The psycho – social problems.

Course Name: Elective paper II: Rural and tribal community Development

Course Code: 17PBCET207

CO1	Basic elements and approaches of Rural and Tribal community Development.
CO2	Panchayat Raj system and other administrative aspects related to Rural development and Tribal Development.
CO3	To understand the problems and issues of people in Rural/Tribal settings in India and the various government programmes and interventions in these settings.
CO4	To study the essential skills of a community development workers.
CO5	Application of social work methods in rural and tribal development.

SEMESTER: III**Course Name: Core 1- Social Welfare Administration****Course Code: 17PBCCT301**

CO1	Gain knowledge about the importance and scope of social welfare administration.
CO2	Enrich knowledge about the role of voluntary organizations in social welfare administration.
CO3	Learn the procedures to register an organization.
CO4	Acquire knowledge about the social policy.
CO5	Know the concept of project management.

Course Name: Core 2 – Human Rights and Social Legislation**Course Code: 17PBCCT302**

CO1	Learn the fundamentals of human rights.
CO2	Gain the knowledge of fundamental duties and rights under the Indian constitution.
CO3	Learn the concepts related to social planning.
CO4	Gain knowledge about social legislation.
CO5	Possess knowledge about National and International level and way to deals with legislation policies.

Course Name: Elective III– Labour Legislations**Course Code: 17PBCET303**

CO1	Attain knowledge on labour legislation.
CO2	Know the rights of employees at their working condition and safety.
CO3	Learn the provisions relating to welfare.
CO4	Know the provisions relating to employee wages.
CO5	Gain knowledge on social security.

Course Name: Elective III: Hospital Administration**Course Code: 17PBCET304**

CO1	Know about the hospital settings.
CO2	Learn about the planning at Hospital.
CO3	Know the Hospital Administration.
CO4	Gain Knowledge about staffing.
CO5	Understand the concepts related to Hospital Budget.

Course Name: Elective III: Urban Community Development**Course Code: 17PBCET305**

CO1	Know about the urban community, slums and migration.
CO2	Gained knowledge about urbanization and urbanism.
CO3	Learned the urban community development.
CO4	Enriched with knowledge about the urban development administration.
CO5	Learn about the urban development programmes implemented in Tamil Nadu and India.

Course Name: Elective III: Industrial Relations

Course Code: 17PBCET306

CO1	Gain knowledge about the concepts of industrial relations.
CO2	Understand the ethical code and effects of industrial conflict.
CO3	Possess the sound knowledge of industrial conflict and dispute.
CO4	Acquire knowledge about trade unionism.
CO5	Understand the collective bargaining and workers participation.

Course Name: Elective III: Foundation of Psychiatry-I

Course Code: 17PBCET307

CO1	Inspired and use inner wisdom to work in the field of mental health.
CO2	Learn about the concepts related to mental disorders.
CO3	Know the information about neurotic disorders.
CO4	Gain knowledge about functional psychosis.
CO5	Understand the concepts related to psychopathology, diagnosis and treatment of organic disorders.

Course Name: Elective III: Welfare of weaker sections

Course Code: 17PBCET308

CO1	Gain knowledge about the different categories of weaker section.
CO2	Learn the impact of untouchability prevailing in the community.
CO3	Imparted with the knowledge about Scheduled Castes.
CO4	Learn about the scheduled tribes.
CO5	Learn the status of women and empowerment.

Course Name: Advance Learners Course- I: Social work with transgender

Course Code: 17PBCAL310

CO1	The students would learn about transgender.
CO2	Attain knowledge on Transgender healthcare.
CO3	Make the students to understand the problems of transgender.
CO4	Enrich their knowledge on social work practice with transgender.
CO5	Learn about the Legal measures for transgender.

Course Name: Advance Learners Course- II: Disaster Management

Course Code: 17PBCAL311

CO1	The students would learn about disaster management.
CO2	Attain knowledge on preventive measures.
CO3	Make the students to understand about rehabilitation.
CO4	Enrich their knowledge on relief measures.
CO5	Study about the role of NGOs and social worker in disaster management.

SEMESTER: IV

Course Name: Core Course-I: Social Entrepreneurship and corporate social Responsibility

Course Code: 17PBCCT401

CO1	The students would learn about entrepreneurial skills and its growth.
CO2	Attain knowledge about updating on MDG'S.
CO3	Make the students to understand the business ethics and CSR in global scenario.
CO4	Enrich their knowledge on social reporting.
CO5	Learn about the emerging trends of CSR.

Course Name: Elective paper IV- Human Resource Management

Course Code: 17PBCET402

CO1	Effective management of human capital.
CO2	Gain knowledge on HR aspects.
CO3	Learn the importance of training and roles of training manager.
CO4	Learn the wage system and fringe benefits.
CO5	Update the trends in HRD.

Course Name: Elective paper- IV: Foundation of Psychiatry- II

Course Code: 17PBCET403

CO1	Inspired to learn about childhood disorders.
CO2	Learn about the concepts of personality disorders.
CO3	Gain knowledge on Behavioural syndromes associated with psychological disturbance
CO4	Possess familiarity about different types of drugs.
CO5	Understand the concepts of trans-cultural psychiatry.

Course Name: Elective paper- IV: Social Development

Course Code: 17PBCET404

CO1	Learn the basic concepts of development.
CO2	Gaining knowledge about the social development and challenges of social development
CO3	Learn the economic policy and development, Privatization and liberalization.
CO4	Know the globalization and sustainable development goals.
CO5	Learn the core life skills and to develop the life skills.

Course Name: Elective paper- IV: Organizational Behaviour

Course Code: 17PBCET405

CO1	Learn the foundation of organizational behavior.
CO2	Possess sound aknowledge about individual and groups in organization.
CO3	Gain knowledge about motivation and communication.
CO4	Learning concepts related to organizational structure.
CO5	Acquire knowledge about organizational change and development.

Course Name: Elective paper- IV: Psychiatric social work practice

Course Code: 17PBCET406

CO1	Learn the foundations of psychiatric social work.
CO2	Sound knowledge about treatment for the mentally ill patients.
CO3	Gain knowledge about psychological methods for the mentally ill patients.
CO4	Learn concepts related to role of psychiatric social worker.
CO5	Acquire knowledge about policies and legislations related to mental health in India.

Course Name: Elective paper- IV: Management of Non- Profit Organization

Course Code: 17PBCET407

CO1	Know about the basics of Non- profit organization.
CO2	Learn the establishment of the NPOs and also about the policy making.
CO3	Gain knowledge about the projects identification and project formulation.
CO4	Aware of fund raising of NGOs.
CO5	Learn about the project evaluation and monitoring.