KONGU ARTS AND SCIENCE COLLEGE

(An Autonomous Institution, Affiliated to Bharathiar University, Coimbatore)

ERODE - 638 107

Department of Physics





Affiliated to Bharathiar University, Coimbatore

Approved by UGC, AICTE, New Delhi & Re accredited by NAAC, DBT STAR College Scheme

(An ISO 9001:2015 Certified Institution)

NANJANAPURAM, ERODE – 638 107

DEPARTMENT OF PHYSICS

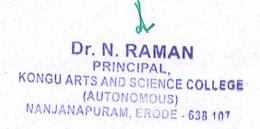
BOARD OF STUDIES MEETING

AGENDA

DATE: 15.07.2020

- 1. To consider and approve the syllabi for the students admitted during the academic year 2018-2019 and 2019-2020 and onwards.
- To consider and approve the syllabi of III and IV Semesters Non-major Elective Courses for other UG students admitted during the academic year 2019 - 2020 and onwards.
- 3. To consider and approve the Panel of Examiners.
- 4. To consider and discuss any other subjects with the permission of the chair.







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The meeting of the Board of Studies in Physics (UG) was conducted on 15.07.2020 at 10.15 a.m. through online mode (ZOOM Cloud Meeting).

The following members were present:

Chairman

: Ms.K.Maithilee

Members

1. Dr.M.Lavanya

- University Nominee

Assistant Professor

PSGR Krishnammal College for Women (Autonomous)

Coimbatore

2. Dr. L.Palaniappan

- Subject Expert

Professor

Annamalai University, Annamalainagar

3. Ms. R.Chitra

- Member

4. Mr.T.Akashnarayana

- Member

5. Ms.P. Visali

- Member

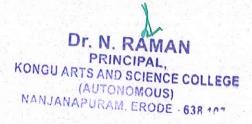


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Subject related to CBCS, Outcome based Syllabus, Advanced Learners Course and Attendance Marks in CIA were discussed and the following are the resolutions:

- It is resolved to approve there is no change in the syllabi of I and II Semesters for B.Sc. Physics and Allied Courses for B.Sc. Mathematics students admitted during the academic year 2020-2021 and onwards be approved.
- 2. It is resolved to approve there is no change in the syllabi of I and II Semesters Allied Courses for B.Sc. Mathematics students admitted during the academic year 2020-2021 and onwards be approved.
- It is resolved to approve there is no change in the syllabi of IV & V Semester Advanced Learners Course for B.Sc. Physics students admitted during the academic year 2019-2020 & 2018-2019 and onwards be approved.
- 4. It is resolved to approve there is a modification in the syllabi of III & IV Semesters for B.Sc. Physics students admitted during the academic year 2019-2020 and onwards be approved. The approved modification has been enclosed as **Annexure a & b**
- 5. It is resolved to approve there is a modification in the syllabi of V and VI Semesters for B.Sc. Physics students admitted during the academic year 2018-2019 and onwards be approved. The approved modification has been enclosed as **Annexure a & b**
- It is resolved to approve there is a modification in the syllabi of III and IV Semesters Non-major
 Elective Courses for other UG students admitted during the academic year 2019 2020 and
 onwards be approved.
- 7. It is resolved to approve the additional name for the panel of the question paper setters and examiners be approved.





Details of modifications in the Courses offered under the Programme

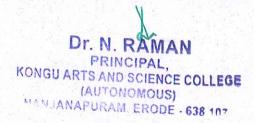
B. Sc Physics

Modification by addition and removal of topics are carried out in the syllabi of III, IV, V & VI semesters of B.Sc., Physics based on the feedback obtained from Stakeholders and recommendations of the BOS Panel Members.

• Project is incorporated under Elective III in the VI semester for B.Sc. Physics students admitted during the academic year 2018-2019 onwards. (Annexure b)

Modification by addition and removal of topics are carried out in the syllabi of III, IV, V & VI Semesters. (Annexure b)





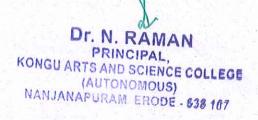
Details of modifications with specific topics in the Syllabus with % of revision B. Sc Physics

S.No	Course Name	Course Code	Topics introduced	Topics removed	% of Revision
1	Introduction to Electricity and Electronics (NME)	19UAONT304	Zener diode and UJT – comparison of Ics based on MOS and Bipolar transistor echnology	Classification of ICs based on structure	10%
2	Electricity and Magnetism	19UAOCT301	Unit IV: Comparison between series and parallel Resonant circuit – Wattless current Unit V: Self inductance of coaxial cylinder		15%
3	Scientific Facts I (SBS)	19UAOST302	Unit I: Aurora Polarisis Unit II: Elliptical orbit of planets, Cooling of fingers in winter season, East coast more often affected than west coast, Determination of latitude and longitude of a given place on earth Unit III: Energy from tidal waves Unit IV: Moon and sun	Unit I: Origin of dust Unit II: Age of fossils, Height of mountains, Monsoons, Rainfall Unit IV: Earliest sunrise and latest sun set with longest day	21%
			appear larger at the horizon Unit V: Spark generation from a gas stove lighter, necessity of switching off mobile phones in air plane Unit IV: Distinction between		
4	Optics	19UAOCT401	Interference and Diffraction – Fresnel diffraction at a circular aperture		10%
5	Core Practical – II	19UAOCP402	Hall effect – Determination of Hall coefficients 2. Multimeter – i) Ammeter, Voltmeter and Ohm meter ii) Verification of Electronic components		10%
6	Electrical and Electronic Appliances (NME)	19UAONT405	Vehicle head lights – Induction Stove – Electric water heater- Silicon in electronics Wireless mouse		5%
7	Scientific Facts II (SBS)	19UAOST404	Unit I: Induction stove, Acids in battery, Passage of electric current through wire, Copper for electromagnets, Tarnishing of silver, Flexiglass Unit II: Functioning of thermostat, Production of electricity from Nuclear materials Unit II: Compressure and high pressure spatium vapour pamp Unital Cook: Time taken for copy and too deleting file in	Unit II: Electrical Appliances Unit III: Role of choke and starter in tubelight Dr. N. R. PRINCI KONGU ARTS AND SCI	PAL, JENCE COLLE
			the computer, Optical mouse and vireless mouse	(AUTONO NANJANAPURAM, E	MOHICI.

8	Mathematical Physics	20UAOCT501	Unit V: Principle of Least Action.	Unit IV: Application of Gauss theorem	5%
9	Quantum Mechanics and Relativity	20UAOCT502	Unit II: Orthogonality of Eigen Functions: Proof of energy Eigen values are real and two eigen functions corresponding to different eigen values are orthogaonal to each other	Unit II: Eigen Values of J2 & JZ	7%
10	Atomic Physics and Spectroscopy	20UAOCT503	Unit IV: Lenard's method to determine e/m for photoelectrons		5%
11	Basic Electronics	20UAOCT504		Unit V: Scaler	
12	Solid State Physics	20UAOCT601	Unit I: HCP structure – Miller indices – important features of Miller indices Unit IV: Frequency dependence of Polarizability Unit V: New Materials: Metallic Glasses – Fiber reinforced Plastics and Fiber Reinforced Metals – Biomaterials – High	Unit I: Diamond & NaCl structure	25%
			Temperature Materials – SMART Materials. Unit III: Determination of e/m of alpha particles –		604
13	Nuclear Physics	20UAOCT602	Determination of wavelength of Gamma rays (Du Mond curved crystal spectrometer)	-	6%
14	Fundamentals of Digital Electronics	20UAOCT603	Unit I: Excess-3 Code Unit II: Parallel Binary Adder – Parallel Binary Subtractor	Unit I: Laws and Rules of Boolean Algebra	5%
15	Core Practical – III	20UAOCP604	Demonstration 1. He – Ne Laser – Wavelength of laser source 2. Nano particle preparation	-	30%
16	Core Practical – IV	20UAOCP605	 Microprocessor – 8085 – Multiplication and Division Demonstration (any 2) CRO – Lissajous Pattern Formation Hartley Oscillator BCD to Seven segment display 		35%
17	Elective II: Project	20UAOEV608	New Course		100%

• In overall, there had been a 8% of revision in the syllabus of the B. Sc., Physics programme.





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3.



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