



# **KONGU ARTS AND SCIENCE COLLEGE**

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

**ERODE – 638 107**

**Department of Mathematics**



**KONGU ARTS AND SCIENCE COLLEGE**  
(An Autonomous Institution, Affiliated to Bharathiar University, Coimbatore)  
Nanjanapuram, Erode – 638 107.



**DEPARTMENT OF MATHEMATICS**  
**BOARD OF STUDIES MEETING**

**AGENDA**

**DATE: 26.03.2021**

1. To consider and approve the Scheme and Syllabi for the students admitted during the academic year 2019 – 2020, 2020-2021 and 2021-2022 and onwards.
2. To consider and approve the new course Professional English of I and II Semesters for the students admitted during the academic year 2021-2022 and onwards.
3. To consider and approve the new pattern of question papers for the academic year 2021 – 2022 and onwards.
4. To consider and approve the Panel of Examiners.
5. 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 Mathematics UG/PG was conducted on 26.03.2021 at 10.00 a.m. through Google Meet.

The following members were present:

Chairman : Dr.S.Nagarajan

Members :

1. Dr.D.Narasimhan

2. Dr.S.R.Kannan

3. Dr.A Devika

4. Ms.D.Srimathi


5. Ms.T.Keerthana

6. Dr.D.Sivakumar

7. Ms. C.Radhamani


8. Mr.S.Suresh



  
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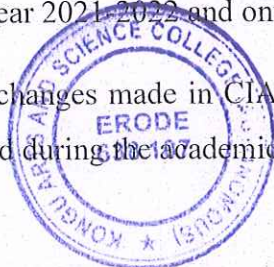
9. Dr. M.Lalitha
10. Mr.P.Maheshkumar
11. Ms.C.Kiruthica
12. Ms.A.Deepa
13. Ms.R.Yuvarekha
14. Ms.V.Amudhamalar
15. Ms.P.Kiruthika
16. Ms.S.Vidhya
17. Ms.K.Sivaranjani
18. Ms.G.Priyadharsini
19. Ms.S.Savitha
20. Ms.N.Priyanka
21. Ms.S.Sivasankari



  
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Subject related to CBCS, Outcome based Syllabus, Continuous Internal Assessment, End Semester Examinations and Panel of Examiners were discussed and the following are the resolutions:


1. It is resolved to approve
  - a. There is a change in the Scheme of Examination and Syllabi of I and II Semesters for the B.Sc. Mathematics and M.Sc. Mathematics students admitted during the academic year 2021 – 2022 and onwards. **(Annexure a & b)**
  - b. The syllabi of 2019-2022 batch of III and IV semesters is to be followed for the B.Sc Mathematics students admitted during the academic year 2020-2021 and onwards.
  - c. there is no change in the syllabi of III and IV semesters for the M.Sc Mathematics students admitted during the academic year 2020-2021 and onwards.
  - d. the syllabi of 2018-2021 batch of V and VI semesters is to be followed for the B.Sc. Mathematics students admitted during the academic year 2019-2020 and onwards.
  - e. there is a change in the syllabi of I and II semesters of Allied courses of BBA, BBA(CA), B.Com(CA), B.Com(PA), B.Com(B&I), B.Sc(CS), BCA, B.Sc(CT) and B.Sc(IT) students admitted during the academic year 2021-2022 and onwards. **(Annexure a & b)**
  - f. there is no change in the syllabi of III and IV semesters of Allied courses of B.Sc Biochemistry, B.Sc Biotechnology, B.Sc Physics, B.Sc CS, B.C.A, B.Com., and B.Com.(CSCA) students admitted in the year 2020 – 2021 and onwards.
2. It is resolved to follow the norms of TANSCHER to incorporate Professional English I and II under part III for the B.Sc Mathematics students to be admitted during the academic year 2021-2022 and onwards. **(Annexure a & b)**
3. It is resolved to approve the new question paper pattern for UG and PG to be followed for the students admitted during the academic year 2021 – 2022 and onwards. **(Annexure –I & II)**
4. It is resolved to approve the procedure of taking the average marks of both First and Second Internal tests for Continuous Internal Assessment for UG and PG to be admitted from the academic year 2021-2022 and onwards. **(Annexure -III)**
5. It is resolved to approve the changes made in CIA marks for attendance for the UG and PG students to be admitted during the academic year 2021-2022 and onwards. **(Annexure -IV)**



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6. It is resolved to approve to have a grade system for Internship / Institutional training for both UG and PG Programme for the students to be admitted from the academic year 2021-2022 and onwards. **(Annexure -V)**
7. It is resolved to approve the marks distribution for the extension activities for B.Sc Mathematics programme for the students to be admitted during the academic year 2021 – 2022 and onwards. **(Annexure -VI)**
8. Extra credits will be awarded minimum 1 credit and maximum of 2 credits to the students who have completed 4 weeks SWAYAM / MOOC courses for the students admitted during the academic year 2021 – 2022 and onwards.
9. It is resolved to approve the additional name for Panel of Members for Question Paper Setting and Central Valuation. **(Annexure –VII)**



  
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## Details of modifications in the Courses offered under the Programme

### B.Sc Mathematics

The following modifications are done in the Syllabi of I and II Semesters for the B.Sc Mathematics students admitted during the academic year 2021 – 2022 and onwards based on the feedback obtained from Stakeholders and recommendations of the BOS Panel Members .

- The Core Paper **Professional English I and Professional English II** are introduced in Semester I and Semester II respectively.
- Due to the incorporation of Professional English Paper, Core paper **Calculus** is shifted from Semester I to Semester II.
- In Semester I, Core paper **Algebra and Trigonometry** is modified as **Classical Algebra** by removing two units of **Trigonometry** and including two units of **Theory of Equations**. The removed two units of **Trigonometry** are included in Core paper **Trigonometry, Vector calculus and Fourier series**.
- Due to the incorporation of Professional English Paper, Core paper **Trigonometry, Vector calculus and Fourier Series** is shifted from Semester II to Semester III.

The adopted modifications are given in **Annexure-b**.

### M.Sc Mathematics

The following modifications are done in the Syllabi of I and II Semesters for the M.Sc Mathematics students admitted during the academic year 2021 – 2022 and onwards based on the feedback obtained from Stakeholders and recommendations of the BOS Panel Members.

- The **Core paper Measure Theory and Integration** had been removed from Semester II and two units are included in the Core Paper **Real Analysis** in Semester I.

✦ The following Core Courses are introduced instead of above removed Core Paper and **Advanced Differential Equations, Applied Numerical Analysis &**

#### **Classical Dynamics.**

- ✦ Core Paper III: Ordinary Differential Equations
- ✦ Core Paper IV: Numerical Analysis
- ✦ Core Paper VII: Classical Mechanics
- ✦ Core Paper VIII: Operations Research



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✚ The Elective course **LateX and Matlab theory** is modified as **LateX** by removing Matlab part in Semester I and the Elective paper **LateX and Matlab Practical** is modified as **LateX Practical** by removing Matlab part in Semester I.

✚ New Elective course **Object Oriented Programming in C++ (Theory)** is introduced instead of **Operations Research and Object Oriented Programming in C++ (Practical)** is introduced instead of **Mathematical Modelling**.

The adopted modifications are given in **Annexure-b**


### **Allied Mathematics**

The following modifications are done in the Syllabi of I and II Semesters for the Allied Mathematics students admitted during the academic year 2021 – 2022 and onwards based on the feedback obtained from Stakeholders and recommendations of the BOS Panel Members .

- In the Allied course **Business Mathematics and Statistics for the BBA and BBA (CA)** Students, Graphic representation of frequency distributions topic is removed.
- New Allied course **Business Mathematics and Statistics** is introduced instead of **Mathematics for Managers I** and also **Optimization Techniques** is introduced instead of **Mathematics for Managers II for the BBA and BBA (CA)** Students. **Annexure f**

The adopted modifications are given in **Annexure-b**



  
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## Annexure-b

## B.Sc Mathematics- Details of modifications with specific topics in the Syllabus with % of revision

S.No	Course Name	Course Code	Topics introduced	Topics removed	% Revision
1.	Professional English I	21UANCT101	<ul style="list-style-type: none"> <li>• Communication</li> <li>• Description</li> <li>• Negotiation Strategies</li> <li>• Presentation Skills</li> <li>• Critical Thinking Skills</li> </ul> (Refer Syllabus)	-	100%
2.	Professional English II	21UANCT201	<ul style="list-style-type: none"> <li>• Communicative Competence</li> <li>• Persuasive Communication</li> <li>• Digital Competence</li> <li>• Creativity and Imagination</li> <li>• Workplace Communication and Basics of Academic Writing</li> </ul> (Refer Syllabus)	-	100%

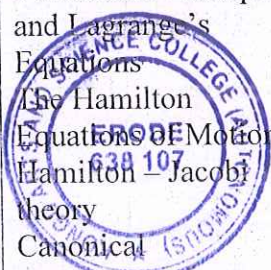
In overall, there had been a 5% of revision in the Syllabus of the B.Sc Mathematics Programme




  
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M.Sc Mathematics

S.No	Course Name	Course Code	Topics introduced	Topics removed	% Revision
1.	Core II- Real Analysis	21PBECT102	Lebesgue Measure Lebesgue Integral	Basic Topology Numerical Sequences and Series Continuity Differentiation	40%
2	Core - III Ordinary Differential Equations	21PBECT103	Picard's Iterative Method. Uniqueness and Existence Theorem Simultaneous differential equations of the form $\frac{dx}{P} = \frac{dy}{Q} = \frac{dz}{R}$ System of Linear Differential Equations Solutions in Power Series System of Linear Differential Equations	-	100%
3	Core - IV Numerical Analysis	21PBECT104	Solution of Algebraic and Transcendental Equations Interpolation Numerical Differentiation and Integration Numerical Solution of Partial Differential Equations Numerical Solution of Ordinary Differential Equations	-	100%
4	Elective I Object Oriented Programming in C++(Theory)	21PBEET106	Principles of object-Tokens, Expressions and Control structures Functions in C++ Classes and Objects Operators overloading	-	100%
5	Core - VII Classical Mechanics	21PBECT203	Survey of the Elementary Principles Variational Principles and Lagrange's Equations The Hamilton Equations of Motion Hamilton - Jacobi theory Canonical Transformations	-	100%



  
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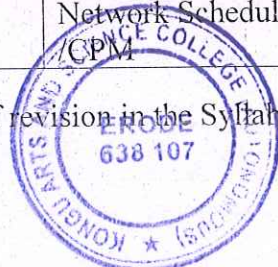
6	Core - VIII Operations Research	21PBECT204	Operations Research Duality and Post-Optimal Analysis Network Models Queuing Model Queuing Systems	-	100%
7	LaTeX	21PBEET105	New Course – All the 5 units are introduced		100%
8	Object Oriented Programming in C++ Practical	21PBEEP206	FLOAT, polar and rectangle systems, MAT of size M*N, Area Computation using Derived Class, vector addition, Multiplication of a vector by a scalar quantity	-	100%
9	LaTeX Practical	21PBEEP205	foot note, margin note, end note and to prepare bio-data, tables and graphs, mathematical expressions, mathematical equations, conference invitation and power point presentation	-	100%

In overall, there had been a 28 % of revision in the Syllabus of the M.Sc Mathematics Programme

### Allied Mathematics

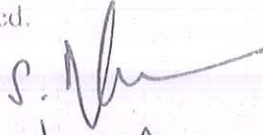
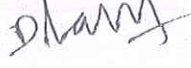
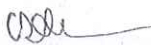
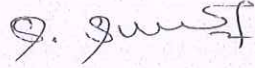
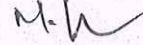
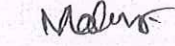
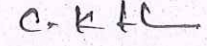
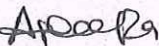
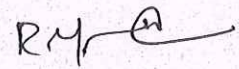

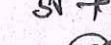
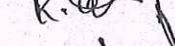
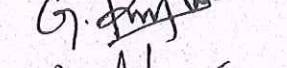
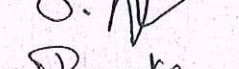

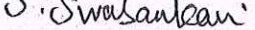
S.No	Course Name	Course Code	Topics introduced	Topics removed	% Revision
1.	Business Mathematics and Statistics	21UABAT103 / 21UACAT103	Mathematics of Finance and Set Theory Matrices and Determinants Collection and Presentation of Data Measures of Central Tendency and Dispersion Correlation, Regression and Index Number	-	100%
2.	Optimization Techniques	21UABAT203/ 21UACAT204	Linear Programming Problem Transportation and Assignment Problem Games and Strategies Network Scheduling by PERT/CPM Network Scheduling by PERT	-	100%

In overall, there had been a 33 % of revision in the Syllabus of the Allied Mathematics Programme




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All the above resolutions are approved.

1. Dr.S.Nagarajan - 
2. Dr.D.Sivakumar - 
3. Ms.C.Radhamani - 
4. Dr.D.Narasimhan
5. Dr.A.Devika
6. Ms.D.Srimathi
7. Ms.T.Keerthana
8. Dr.S.Suresh - 
9. Dr.M.Lalitha - 
10. Mr.P.Maheshkumar - 
11. Ms.C.Kiruthica - 
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