



KONGU ARTS AND SCIENCE COLLEGE

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

ERODE – 638 107

Department of Mathematics



KONGU ARTS AND SCIENCE COLLEGE
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Nanjanapuram, Erode – 638 107.




DEPARTMENT OF MATHEMATICS
BOARD OF STUDIES MEETING

AGENDA

DATE: 24.02.2018

1. To consider and approve the syllabi for the students admitted during the academic year 2017 – 2018 and onwards.
2. To consider and approve the Panel of Examiners.
3. 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 24.02.2018 at 10.15 AM in the College Campus.

The following members were present:

Chairman : Dr.S.Nagarajan

Members :

1. Mr.D.Sivakumar
2. Ms.C.Radhamani
3. Dr. P.Ponnusamy
4. Dr. C.Loganathan
5. Dr. S.Karthikeyan
6. Ms. S. Kirupasri
7. Dr. M. Suresh




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Subject related to CBCS, Outcome based Syllabus, Advanced Learners Course, Extra credits and Non Major Electives were discussed and the following are the resolutions:

1. It is resolved to approve the Scheme of Examination and new Syllabi of III & IV Semesters for the B.Sc., and M.Sc Mathematics students admitted during the year 2017–2018 and onwards. (**Annexure a & b**)
2. There is no change in the Syllabi of I and II Semesters for the B.Sc., and M.Sc Mathematics students admitted during the year 2018 – 2019 and onwards.
3. There is no change in the Syllabi of V and VI Semesters for the B.Sc., Mathematics students admitted during the year 2016 – 2017 and onwards.
4. It is resolved to approve the Syllabi and Extra Credits for the Advanced Learners for the IV Semester for UG students who have been admitted during the academic year 2017 – 2018 and onwards.
5. It is resolved to approve the Syllabi for Non Major Electives for III and IV Semesters for UG students admitted during the year 2017-18 and onwards.
6. It is resolved to approve the Syllabi for Advanced Learners Courses for III and IV Semesters for UG students admitted during the year 2017-18 and onwards.
7. It is resolved to approve the Question Paper Pattern for Non Major Elective course for the students admitted during the year 2017-18 and onwards. (**Annexure –I**)
8. It is resolved to approve the additional name for Panel of Members for Question Paper Setting and Central Valuation. (**Annexure –II**)




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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 III and IV Semesters for the B.Sc Mathematics students admitted during the academic year 2017 – 2018 and onward based on the feedback obtained from Stakeholders and recommendations of the BOS Panel Members.

- The course Differential Equations and Laplace transforms is shifted from semester IV to III. The core course Programming in C theory in semester III is shifted to semester V.
- The core course Programming in C Practical in semester III is shifted to Elective course I in semester V.
- The course Discrete Mathematics is shifted from semester V to III.
- The new skill based courses Statistical programming language R and Introduction to scientific computing Octave in semesters III and IV instead of Optimization Techniques I and II.
- In semester IV, the topic friction is added as unit III in the course Mechanics by removing the topic simple harmonic motion.
- In Advanced Learners Courses, Vedic mathematics course is introduced instead of Computer algorithms.
- The new non major elective courses Decision making techniques and Statistical methods are introduced in Semester III and IV respectively.

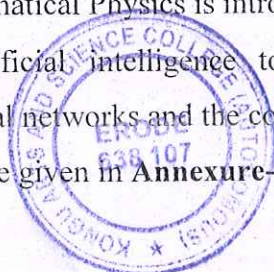
The adopted modifications are given in **Annexure-b**

M.Sc Mathematics

The following modifications are done in the Syllabi of III and IV Semesters for the M.Sc Mathematics students admitted during the academic year 2017 – 2018 and onwards based on the feedback obtained from Stakeholders and recommendations of the BOS Panel Members.

- The name of the courses Probability and statistics, Integral transforms, Equations and Calculus of variations, Fuzzy mathematics and its applications are changed as Mathematical statistics, Mathematical methods and fuzzy mathematics in Semester III & IV.
- The new courses Programming math with python theory and Practical are introduced instead of Programming in C++ theory and Practical in semester IV.
- In elective III, Mathematical Physics is introduced instead of Mathematical Modelling.
- In elective IV, Artificial intelligence topic is removed from the course Artificial intelligence and Neural networks and the course name is given as Neural networks.

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




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Allied Mathematics

The following modifications are done in the Syllabi of III and IV Semesters for the Allied Mathematics students admitted during the academic year 2017 – 2018 and onwards based on the feedback obtained from Stakeholders and recommendations of the BOS Panel Members.

- The name of the courses Discrete Structures Mathematics is changed as Discrete Mathematics in Semester II for B.Sc (CS), BCA, B.Sc (CT) and B.Sc (IT) Programmes.
- The name of the courses Mathematical Structures is changed as Numerical and Statistical methods in Semester I for B.Sc (CS), BCA, B.Sc (CT) and B.Sc (IT) Programmes. In this course, the first unit (Matrices) is removed and fifth unit is split into two units (Correlation and Regression separately).



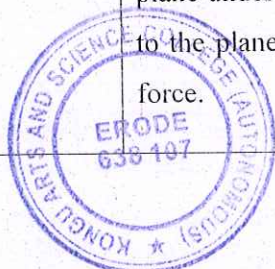

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Annexure-b

Details of modifications with specific topics in the Syllabus with % of revision

B.Sc Mathematics

S.No	Course Name	Course Code	Topics introduced	Topics removed	% Revision
1.	Statistical Programming Language R	17UANSP304	Central tendency and measures of dispersion, various parameters of theoretical distributions, the statistic 't' by constructing hypothesis, the Correlation and Regression Coefficients, the statistical hypothesis by Chi - Square Test.	-	100%
2	Decision Making Techniques	17UANNT305	Transportation problem using different method, the assignment problem, network diagrams and its computations, PERT and CPM, maximin and minimax strategies.	-	100%
3	MECHANICS	17UANCT401	Experimental Results - Laws of Friction - Coefficient of Friction - Angle of Friction - Cone of Friction - Numerical Values - Equilibrium of a particle on a rough inclined plane - Equilibrium of a body on a rough inclined plane under a force parallel to the plane and under any force.	-	100%



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4	Introduction To Scientific Computing Octave	17UANSP404	matrix manipulations and system of linear equations. 2D and 3D graphs, the palindrome string, Algebraic equations by using bisection and iterative methods, first and second order ordinary differential equations.	-	100%
5	Statistical Methods	17UANNT405	The basic concepts of probability, test the hypothesis based on attributes, large and small samples, test goodness of fit - χ^2 test, growth of Indian Statistics.	-	100%
6	Vedic Mathematics	17UANAL406	The basic multiplication and squaring of numbers perfect cubes and squares perform multiplication and squaring, answer using digit sum magic square, problems relating dates and calendar	-	100%

In overall, there had been a 13% 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.	MATHEMATICAL PHYSICS	17PBEE306	Concept of tensors, Riemann-Christoffel's tensor and Einstein gravitational equation, Beta, Gamma and Error Functions, Hankel Transforms, Maxwell's Electromagnetic Field Equations and Special Theory of Relativity.	-	100%
2	PROGRAMMING MATH WITH PYTHON(THEORY)	17PBECT403	Write different kinds of numbers by getting user input, data with graphs, data with statistical tools, algebra symbolic math with SYMPY, interpret results from sets and probability.	-	100%
3	PROGRAMMING MATH WITH PYTHON (PRACTICAL)	17PBEC404	The kinds of numbers, Statistics with Graphs, the first N Fibonacci numbers, correlation coefficient, the pictorial results from Sets and Probability.	-	100%

In overall, there had been a 10% of revision in the Syllabus of the M.Sc Mathematics Programme.



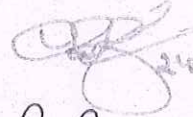
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All the above resolutions are approved.

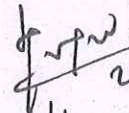
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
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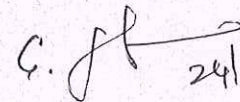
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
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