Department of Mathematics

DEPARTMENT OF MATHEMATICS

BOARD OF STUDIES MEETING

AGENDA

DATE: 30.03.2019

1. To consider and approve the syllabi for the students admitted during the academic year 2017 – 2018, 2018-2019 and 2019-2020 and onwards.

2. To consider and approve the Extra Credits for the SWAYAM and NPTEL online courses for students who have been 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 Mathematics UG/PG was conducted on 30.03.2019 at 10.15 a.m.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 and Extra Credits were discussed and the following are the resolutions:

1. It is resolved to approve the Scheme of Examination and new Syllabi of I & II Semesters for the B.Sc Mathematics students admitted during the year 2019– 2020 batch only.

2. It is resolved to approve to replace the following courses and introduce new Math software (Practical) for the students who have admitted 2019-2020 batch only. (**Annexure a & b**)

3. There is no change in the Syllabi of III and IV Semesters for the B.Sc Mathematics students admitted during the year 2018 – 2019 and onwards.

4. There is no change in the Syllabi for the M.Sc Mathematics students admitted during the year 2017 – 2018 and onwards.

5. It is resolved to approve the Scheme of Examination and new Syllabi of V & VI Semesters for the B.Sc Mathematics students admitted during the year 2017– 2018 and onwards. (**Annexure a & b**)

6. It is resolved to approve the award of Extra Credits for SWAYAM and NPTEL online courses for students who have been admitted during the academic year 2019-2020 and onwards.

7. It is resolved to approve the additional name for Panel of Members for Question Paper Setting and Central Valuation. (**Annexure –I**)

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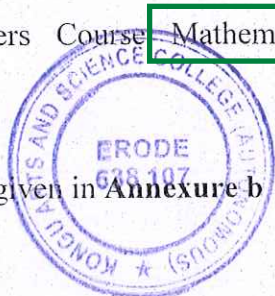**Details of modifications in the Courses offered under the Programme**

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 2019 – 2020 and onwards & in the Syllabi of V and VI Semesters for the B.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 core practical Paper **Math software: Geogebra** is introduced in Semesters I and II for the B.Sc Mathematics students admitted during the academic year 2019 – 2020 and onwards.

- The skill based courses Mathematics for competitive Examinations I & II in semesters V and VI respectively are merged as a single course Mathematics for competitive Examinations in Semester V. The skill based Project is introduced in Semester VI.

- The core course Programming in C theory is introduced instead of Discrete Mathematics in Semester V.

- The Elective courses Elementary graph theory, Formal languages and automata theory and fuzzy sets & fuzzy logic are interchanged from Elective courses I to III, III to II and III to II respectively.

- The following Elective courses are removed.
  - ➤ **Astronomy I**
  - ➤ **Astronomy II**
  - ➤ **Visual Basic theory**
  - ➤ **RDBMS and Oracle theory**

- The following Elective courses are introduced in Semester V.
  - ➤ **RDBMS and Oracle Practical**
  - ➤ **Programming in C practical**
  - ➤ **Visual Basic practical**

- The Advanced Learners Course Elementary Number theory is shifted to Elective course.

- The Advanced Learners Course Mathematical modeling is introduced. Computer Algorithm is removed.

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The adopted modifications are given in **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	Math software: Geogebra	19UANCP205	Basic operations on numbers (sum, product, HCF, n^{th} term etc., Basic operations on matrices, Measures of central tendency and dispersion, the curve of f'(x) and finding definite integrals, area under a graph using Riemann sum method and area between two curves, polygons and angles (square, rectangle, kites, parallelograms etc.), parallel, perpendicular lines and tangents, area of polygons, centroids. conical curves. (Refer Syllabus)	-	100%
2	Core Paper XII-Programming in C	17UANCT502	Importance of C operators Managing I/O Operations, Reading and Writing character, Decision making and Looping, Arrays, Character arrays and String (Refer Syllabus)	-	**100%**
3	RDBMS and ORACLE Practical	17UANCT503	Tables and writing simple queries, update and alter tables using SQL, report and data base trigger, PL/SQL blocks, split and join tables, total, average marks and results . (Refer Syllabus)	-	**100%**

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4	Programming in C Practical	17UANCT504	mean, median, mode and fibonacci numbers and solve quadratic equations., et of numbers and names and prepare pay list, factorial value of number and product of two matrices, comparison of structure variables, copy one string into another and count the number of characters copied. (Refer Syllabus)	-	100%
5	Visual Basic Practical	17UANEP 505	Sort list of numbers, find smallest of n numbers and select any one from a list, a project that displays the current date and time and timer control , convert temperature scale, factorial value of number and illustrate the usage of scroll bars, the usage of input boxes and find the sine of an angle. (Refer Syllabus)	-	100%
6	Mathematical Modelling	17UANEP 507	concept of mathematical modelling through ODE, difference equations, physical problems into difference equations, mathematical modelling through graphs, mathematical modelling through calculus of Variations and Dynamic Programming. (Refer Syllabus)		100%
7	Skill Based Subject IV: Project	17UANSV610	New Course introduced	-	100%
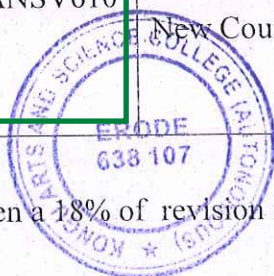
In overall, there had been a 18% of revision in the Syllabus of the B.Sc Mathematics Programme.

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All the above resolutions are approved.

1. Dr.S.Nagarajan   -   *S.* [signature] 30/3/19

2. Mr.D.Sivakumar   -   [signature] 30/8/19

3. Dr. P.Ponnusamy   -   *P. Ponnusamy* 30/8/19

4. Dr. S.Karthikeyan   -   [signature] 3-13/19

5. Dr. M. Suresh   -   [signature] 30.03.19

6.

7.

8. Dr. B. Sharmila Devi   -   [signature] 30/3/19

9.

10.

11.

12. [signature]   (R. Yuvarecha)

13.

14.

15. D. B. [signature]   -   (D. JAYABRINDHA)

16.

17.

[Round seal: KONGU ARTS AND SCIENCE COLLEGE (AUTONOMOUS) ERODE 638 107]

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