

## MINUTES OF BOARD OF STUDIES MEETING

A Board of Studies meeting was held in the Department of Mathematics on Friday 28<sup>th</sup> June, 2019 at 11 a.m. The following experts and faculty members of the department were present :

Dr. Sameer Chavan ( External BoS Member, Dept of Mathematics, IIT, Kanpur ), Dr. Amit Hogadi (External BoS Member, Dept of Mathematics, IISER, Pune), Dr. K.V. Dalvi (Head, Dept of Mathematics, COEP), Dr.(Mrs.) C.M. Deshpande, Mrs. R.S. Kulkarni , Mrs. A.B. Dhere, Mrs. N.V. Shinde, and Mr. J.T. Majithia.

The agenda was as under:

1. To discuss and approve the syllabi of all Mathematics courses at B.Tech. and M.Tech. level for the revised curriculum (2019-2023).
2. Review of question papers of all Mathematics courses for Autumn and Spring Semesters of the academic year 2018-19.
3. Any other with the permission of chair.

HOD started the meeting by welcoming the expert faculties by presenting bouquet and with a round of introduction of all faculty in the Department.

Following Suggestions / Comments / Approvals were given by expert faculties :

1. Titles for all UG courses remains the same. In the first semester course namely 'Linear Algebra', Jordan Canonical form from Unit 3 is removed. In the reference book list, a book titled 'Applications to Linear Algebra' by Gilbert Strang should be added.

No change is required in the second semester course titled 'Univariate Calculus'.

In the third semester course namely 'Ordinary Differential Equations and Multivariate Calculus (ODE & MVC)', Unit 3 on Multiple Integrals is shifted to fourth semester course namely 'Vector Calculus and Partial Differential Equations (VC & PDE)', as Unit 1. At the same time, Unit 3 on Laplace Transform from the course 'VC & PDE' is shifted to the course 'ODE &

MVC' as Unit 2. All other Units in both these courses remains same. Accordingly number of teaching hours for all Units has been changed.

In the third semester course for the direct second year students namely 'Linear Algebra and Univariate Calculus', row and column spaces from Unit 1, linear mappings and representation by matrices from Unit 2, integrals as limits of Riemann sums, and fundamental theorem of calculus from Unit 4 are removed. No changes in Unit 3. Accordingly number of teaching hours for all Units has been changed. In the fourth semester course for the direct second year students namely 'Multivariate Calculus and Differential Equations', total number of teaching hours were shown as 50 and therefore to make it as 52, one hour is added in the teaching hours of Unit 1 and Unit 2.

No change in fifth semester course namely 'Probability Theory and Statistical Inference' which will now be compulsory for all fifth semester students.

In the sixth semester course namely 'Numerical Methods with C++' for T.Y. B. Tech. (Prod.), C++ can be replaced by Python language.

No change in final year B.Tech. ILOE course namely 'Complex Analysis' for semester VII.

No change in the first semester course of F.Y. M. Tech. ((Automotive (Mech), Geotech (Civil), Process instrumentation (Instru.)) namely 'Computational Methods in Engineering'.

No change in the first semester course of F.Y. M. Tech. ((Manufacturing Engg. and Automation, Mechatronics, Project Management (Prod.)) namely 'Applied Statistics', formerly 'Experimental Designs, Data Analysis, and Quality Control'.

No change in the first and semester courses for B. Planning namely 'Statistical and Quantitative in Methods in Planning I' and 'Statistical and Quantitative in Methods in Planning II'.

In all the courses of UG as well as PG, reference books list should be updated by adding the books suggested by AICTE.

2. Review of all T1, T2, and ESE question papers for UG and PG courses for Autumn and Spring Semesters of AY 2018-19 was carried out by the experts in the given format. Apart from filling up the review form, expert gave few suggestions that question paper should not be lengthy, it should be completed in the given time frame. They also suggested that feedback regarding the

contents of the courses should be taken from students. At the same time experts appreciated the efforts of all faculty in the Dept for keeping the record and engaging the courses (which includes setting of question papers as per the distribution of course outcomes in the ratio 75 : 25) very systematically especially for common courses.

It was a good learning experience for all faculty present.

The meeting adjourned at 1.45 p.m. with HOD proposing a vote of thanks to the expert for sparing their valuable time and giving their invaluable suggestions.