SETHU INSTITUTE OF TECHNOLOGY, PULLOOR, KARIAPATTI – 626 115

MINUTES OF 7th MEETING OF BOARD OF STUDIES IN DEPARTMENT OF MATHEMATICS

HELD ON 07.09.2019

The Seventh Meeting of the Board of Studies in Department of Mathematics was held on 07.09.2019 at Sethu Institute of Technology, Pulloor, Kariyapatti.

The following members were present:

S.No.	NAME OF THE MEMBERS	POSITION
1.	Dr. P.G. JANSIRANI	Chairperson
2	Dr. D. LAKSHMANARAJ	Member
3.	Mr. K. LAKSHMI NARAYANAN	Member
4.	Mr. J. ARUL VINAYAGAN	Member
5.	Mr. R. SYED IBRAHIM	Member
6.	Mr. I. MUTHU SELVAM	Member
7.	Ms.R.GAYATHRI	Member
8.	Ms.B.KAVITHA	Member
9.	Ms.S.LATHA	Member
10.	Mr.S.GOPI	Member
11.	Mr.V.PANDIARASU	Member
12.	Dr.R.SATHIS KUMAR	Member
13.	Mr.DHANASEKARAN	Member
14.	Mr.MANIKANDAN	Member - Alumni
15.	Mr. G.P. PARANIKUMAR	Member - Industrial
16.	Dr. P.PIRABAHARAN	Member - External
17.	Dr. S.P.SUBBIAH	Member - External
18.	Dr. C. ELANGO	Member - External
19.	Dr. K.MURUGESAN	University Nominee

- The Chairperson welcomed the members and presented the proposed Curriculum and Syllabi to be followed from 2019-20 Batches under Autonomous 2019 Regulations for Mathematics offered to various disciplines of B.E. / B. Tech and M.E. programmes.

- The committee members discussed certain specific topics in mathematics suggested by the programme heads to support the core engineering courses and to fulfill the CO & PO attainment of the programme concerned. The committee members discussed and approved the same.

- BOS industry member and student suggested teaching fundamental concepts of mathematics and inducing interest to the students in mathematics. So board chairman discussed to introduce Evocation topics and Real Time Application of Mathematics in the syllabus to evoke interest in the mathematics courses.

- Dr. Elango, Subject expert, suggested to add few topics in "REASONING AND QUANTITATIVE APTITUDE".

- The list of Question paper setters and the evaluators for Mathematics were discussed and got approval from the BOS members.

- Anna University nominee suggested to have Mathematics course at least up to 4th semester for all the UG Engineering programmes and at least one semester for all the PG programmes. But the board chairman explained the difficulties of the few branches for not able to accommodate Mathematics courses up to 4th semester and one semester for all PG programmes. Finally the committee decided to have Mathematics course up to 4th semester for all the UG programmes except the two programmes (Mechanical & EEE) and one elective course "Mathematical Foundation for Computer Science" to M.E CSE programme.

- Then the Board chairman suggested the different Mathematics courses relevant to the programme concerned in the second semester instead of common to all branches.

- The classification of all mathematics courses under regulation 2019 based on the categories of Employability and skill development was presented to the board by the chairperson.

- The Board chairman and other members suggested the deletion and addition of certain topics to the range of 20%-60% in all the Mathematics syllabi as per the guidelines of AICTE Model Curriculum, Programme Heads and Competitive Examinations. The committee approved the deletion and addition of the suggested topics to the extent of the following percentage.

S.No	Sem	Name of the Subject	Programme	% of Change
1	II	CALCULUS, FOURIER SERIES AND NUMERICAL METHODS FOR MECHANICAL ENGINEERING	MECH	60%
2	II	DIFFERENTIAL EQUATIONS AND COMPLEX ANALYSIS	COMMON TO CSE & IT	20%
3	II	CALCULUS, COMPLEX ANALYSIS AND NUMERICAL METHODS FOR ELECTRONICS AND COMMUNICATION ENGINEERING	ECE	20%
4	II	CALCULUS AND TRANSFORM TECHNIQUES FOR ELECTRICAL AND ELECTRONICS ENGINEERING	EEE	40%
5	II	DIFFERENTIAL EQUATIONS, COMPLEX ANALYSIS AND TRANSFORM TECHNIQUES FOR CIVIL ENGINEERING	CIVIL	20%
6	III	PROBABILITY, STATISTICS AND PARTIAL DIFFERENTIAL EQUATIONS FOR MECHANICAL ENGINEERING	MECH	60%
7	III	PROBABILITY, QUEUEING THEORY AND NUMERICAL METHODS	COMMON TO CSE & IT	60%
8	III	NUMERICAL ANALYSIS AND LINEAR ALGEBRA FOR ELECTRONICS AND COMMUNICATION ENGINEERING	ECE	100%
9	III	PROBABILITY, STATISTICS, COMPLEX INTEGRATION AND NUMERICAL METHODS FOR ELECTRICAL AND ELECTRONICS ENGINEERING	EEE	100%
10	III	PROBABILITY AND STATISTICS, TRANSFORM TECHNIQUES FOR CIVIL ENGINEERING	CIVIL	40%
11	IV	TRANSFORMS AND DISCRETE MATHEMATICS	COMMON TO CSE & IT	40%
12	IV	PROBABILITY AND STATISTICS, RANDOM PROCESSES FOR ELECTRONICS AND COMMUNICATION ENGINEERING	ECE	40%
13	IV	PROBABILITY, STATISTICS AND RANDOM PROCESSES FOR BIOMEDICAL ENGINEERING	BIO MEDICAL	20%
14	IV	REASONING AND QUANTITATIVE APTITUDE	Common to Mech, Civil, Agri, Bio Med & Chemical	20%
15	V	REASONING AND QUANTITATIVE APTITUDE	Common to CSE, ECE, EEE, IT	20%

- **BASED ON THE DISCUSSION IN THE BOS MEETING, THE FOLLOWING ACTIONS WERE TAKEN.**

S.No	Sem	Suggested by	Suggestion	Action Taken
1	All	Industry member and student	To teach fundamental concepts of mathematics and induce interest to the students in mathematics.	Evocation topics and Real Time Application of Mathematics in the syllabus were included in each course.
2		Dr.Elango, Subject expert,	To add Alligiation and Mixture, Probability, Data interpretation data sufficient topics in Reasoning And Quantitative Aptitude.	Added in the Second and Third Units.
3	I – IV semesters	Anna University nominee	To have Mathematics course at least up to 4th semester for all the UG Engineering programmes and at least one semester for all the PG programmes.	Approved to have Mathematics course up to 4th semester for all the UG programmes except the two programmes (Mechanical & EEE)
4	I – IV semesters	AICTE Model Curriculum, Programme Heads and Competitive Examinations	Deletion and addition of certain topics in all the Mathematics syllabi.	Deletion and addition of the suggested topics were done to the extent of 20% - 40% in each course as per the suggestions.
5	II	Board Chairman	To offer programme wise mathematics course in the II semester instead of common course to all branches	Programme wise mathematics course in the II semester were framed and passed in BOS.

Finally the BOS members passed Mathematics courses offered to various programmes of B.E. / B. Tech and M.E. programmes to be followed from 2019-20 batch under autonomous regulations as detailed in the following Table 1 & 2 respectively.

TABLE 1

UG PROGRAMMES					
S.No	**Sem**	**Name of the Subject**	**Programme**	**Core/ Elective**	**Credit**
1	I	ENGINEERING MATHEMATICS I	Common to ALL Branches	Core	4
2	II	CALCULUS, FOURIER SERIES AND NUMERICAL METHODS FOR MECHANICAL ENGINEERING	MECH	Core	4
3	II	DIFFERENTIAL EQUATIONS AND COMPLEX ANALYSIS	COMMON TO CSE & IT	Core	4
4	II	CALCULUS, COMPLEX ANALYSIS AND NUMERICAL METHODS FOR ELECTRONICS AND COMMUNICATION ENGINEERING	ECE	Core	4
5	II	CALCULUS AND TRANSFORM TECHNIQUES FOR ELECTRICAL AND ELECTRONICS ENGINEERING	EEE	Core	4
6	II	DIFFERENTIAL EQUATIONS, COMPLEX ANALYSIS AND TRANSFORM TECHNIQUES FOR CIVIL ENGINEERING	CIVIL	Core	4
7	II	CALCULUS, COMPLEX VARIABLES AND TRANFORMS	COMMON TO AGRI, CHEMICAL AND BIO MED	Core	4
8	III	PROBABILITY, STATISTICS AND PARTIAL DIFFERENTIAL EQUATIONS FOR MECHANICAL ENGINEERING	MECH	Core	4
9	III	PROBABILITY, QUEUEING THEORY AND NUMERICAL METHODS	COMMON TO CSE & IT	Core	4

10	III	NUMERICAL ANALYSIS AND LINEAR ALGEBRA FOR ELECTRONICS AND COMMUNICATION ENGINEERING	ECE	Core	4
11	III	PROBABILITY, STATISTICS, COMPLEX INTEGRATION AND NUMERICAL METHODS FOR ELECTRICAL AND ELECTRONICS ENGINEERING	EEE	Core	4
12	III	PROBABILITY AND STATISTICS, TRANSFORM TECHNIQUES FOR CIVIL ENGINEERING	CIVIL	Core	4
13	III	TRANSFORM TECHNIQUES AND PARTIAL DIFFERENTIAL EQUATIONS	COMMON TO AGRI, CHEMICAL AND BIO MED	Core	4
14	IV	TRANSFORMS AND DISCRETE MATHEMATICS	COMMON TO CSE & IT	Core	4
15	IV	PROBABILITY AND STATISTICS, RANDOM PROCESSES FOR ELECTRONICS AND COMMUNICATION ENGINEERING	ECE	Core	4
16	IV	NUMERICAL METHODS	COMMON TO CIVIL & CHEMICAL	Core	4
17	IV	PROBABILITY, STATISTICS AND RANDOM PROCESSES FOR BIOMEDICAL ENGINEERING	BIO MEDICAL	Core	4
18	IV	PROBABILITY AND STATISTICS, NUMERICAL METHODS FOR AGRICULTURAL ENGINEERING	AGRI	Core	4
19	IV	REASONING AND QUANTITATIVE APTITUDE	Common to Mech, Civil, Agri, Bio Med & Chemical	Core	1
20	V	REASONING AND QUANTITATIVE APTITUDE	Common to CSE, ECE, EEE, IT	Core	1

TABLE 2

PG PROGRAMME						
S.No	Sem	Course Code	Name of the Subject	Programme	Core/ Elective	Credit
1	I	19PMA501	Mathematical Foundation for Computer Science	M.E. CSE	Elective	3

The Chairperson thanked the members of Board of Studies for their contribution and suggestions in framing the revised syllabi of Mathematics courses offered to various disciplines of B.E. / B. Tech and M.E. programmes to be followed from 2019-20 under Autonomous regulations.

Chairperson
Board of Studies
Mathematics