

Estd. 1989

SIR C R REDDY COLLEGE OF ENGINEERING (AUTONOMOUS)

(SPONSORED BY SIR C R R EDUCATIONAL INSTITUTIONS, SOCIETY REGD. NO.: 10/1950)
VATLURU, ELURU-534007, ELURU DISTRICT, ANDHRA PRADESH, INDIA

Approved by AICTE, Accredited By NBA (UG: CSE, IT, ECE, EEE, ME), Affiliated To JNTUK, Kakinada

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Minutes of the meeting of the Board of Studies of Mathematics, First Year Engineering Department, held on 09-08-2024 at 03:00 P.M

First Year Engineering Department of Sir C. R. Reddy College of Engineering has convened the BoS meeting of Engineering Mathematics through online mode with the following points of agenda.

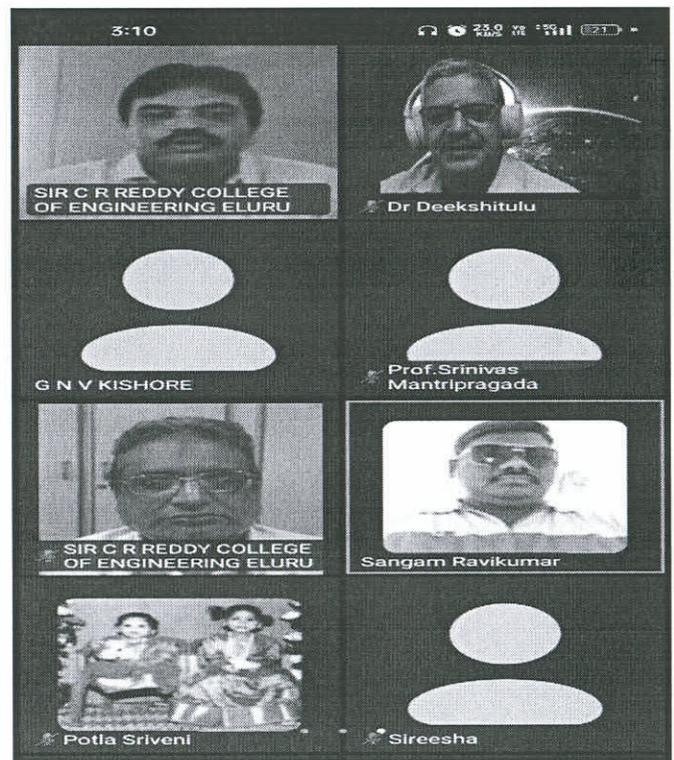
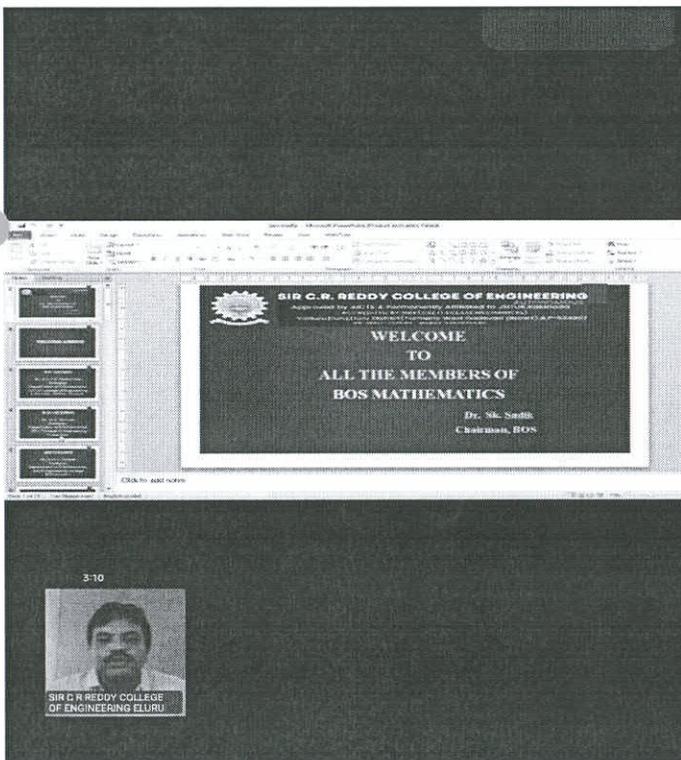
Venue: FED Office Room

Meeting held on: 09-08-2024, 03:00 P.M.

Mode of conducting meeting: Zoom online platform

The members of the BoS are attended the meeting through online mode (External Members) and offline mode (Internal Members).

Meeting link: <https://us06web.zoom.us/j/87868013775?pwd=BR3sxKbEirOc7zvGgbYsnPeaMUShhb.1>



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B.Tech. – II Year I Semester

S.No.	Category	Title	L	T	P	Credits
1	BS&H	Engineering Mathematics (Branch specific)	3	0	0	3
2	BS&H	Universal Human Values – Understanding Harmony	2	1	0	3
3	Engineering Science		2	0	0	2
4	Professional Core		3	0	0	3
5	Professional Core		3	0	0	3
6	Engineering Science		0	0	2	1
7	Professional Core		0	0	3	1.5
8	Professional Core		0	0	3	1.5
9	Skill Enhancement course		0	1	2	2
10	Audit Course	Environmental Science	2	0	0	-
Total			15	2	10	20

B.Tech. – II Year II Semester

S.No.	Category	Title	L	T	P	Credits
1	Management Course - I		2	0	0	2
2	Engineering Science	Engineering	3	0	0	3

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UNIT-I Differential equations of first order and first degree 10 hr

Linear differential equations –Bernoulli's Equations-Exact equations and equations reducible to exact form. Applications: Newton's Law of cooling - Law of natural growth and decay- Electrical circuits.

UNIT-II Linear differential equations of higher order (Constant Coefficients) 10 hr

Definitions, homogenous and non-homogenous, complimentary function, general solution, particular integral, Wronskian, Method of variation of parameters, Simultaneous linear equations, Applications to L-C-R Circuit problems and Simple Harmonic motion.

UNIT-III Partial Differential Equations 10 hr

Introduction and formation of Partial Differential Equations by elimination of arbitrary constants and arbitrary functions, solutions of first order linear equations using Lagrange's method, Homogeneous Linear Partial differential equations with constant coefficients.

UNIT-IV Vector differentiation 8 hr

Scalar and vector point functions, vector operator Del, Del applied to scalar point functions- Gradient, Directional derivative, del applied to vector point functions- Divergence and Curl, vector identities.

UNIT-V Vector integration 10 hr

Line Integral of scalar and vector functions, surface integrals, Green's theorem in the plane (without proof), Stoke's theorem (without proof), volume integral

Agenda:

1. Welcome address and Opening remark by Chairman, BoS, Mathematics.
2. To discuss and approve the proposed Engineering Mathematics (Theory) courses for the first and second semesters of the B. Tech program under CR-24 Regulations. [Annexure –A & B]
3. Model Paper and Paper Setter Finalization [Annexure –C]
4. To finalize the evaluation process for Continuous Internal Evaluation (CIE) and Semester-End Evaluation. (SEE) [Annexure –D]
5. Approval of Course Objectives, Course Outcomes, and CO-PO Mapping for Proposed Subjects. [Annexure –E]
6. Finalizing Textbooks and Reference books [Annexure –A & B]
7. Any other item with the permission of the chairman.

The meeting began with the welcome address by the BoS chairman.

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Based on agenda the following resolution have been taken in BoS

Resolution-1: The BoS chairman welcomed and introduced the eminent BoS members to the meeting. He provided an overview of the course structure and pattern. The BoS members expressed their appreciation for the curriculum structure and course content. The chairman then presented the agenda for discussion by the members. The following deliberations were conducted according to the items on the agenda.

Resolution-2: All BoS members approved the Syllabus for Linear Algebra and Calculus as a common course for all branches in the first year, first semester of the B. Tech program, with the following minor changes as mentioned in Resolution-3. The approved Syllabus is detailed in Annexure-A.

Resolution-3: All the BoS members are recommended to: 1) remove the 'Cauchy-Binet formula' from Unit-I, 2) include the topic 'Singular Value Decomposition' in Unit-II, 3) change the title of Unit-III to 'Mean Value Theorems', and 4) remove the 'Directional Derivative' topic from Unit-IV. The suggestions provided by the members have been incorporated and are attached in Annexure-A.

Resolution-4: All the BoS members approved the syllabus for Differential Equations and Vector Calculus as a common course for all branches in the first year, second semester of the B. Tech program, with the following minor changes as mentioned in Resolution-5. The approved syllabus is provided in Annexure-B.

Resolution-5: All the BoS members are advised to: 1) change the order of contents to Complementary Function, Particular Integral, and General Solution in Unit-II; and 2) add Solenoidal Vector and Irrotational Vector in Unit-IV. The suggestions provided by the members have been incorporated and are included in Annexure-B.

Resolution-6: Approved the model papers and the list of paper setters after discussion. [Annexure -C]

Resolution-7: Discussed and approved the evaluation processes for Continuous Internal Evaluation (CIE) and Semester End Evaluation (SEE). [Annexure -D]

Resolution-8: Approved the course objectives, the five course outcomes for each of the five units, and the CO-PO mapping. [Annexure -E]

Resolution-9: All the BoS members finalized the textbooks and reference books listed in Annexure-A and Annexure-B.

At the end Board Chairman addressed all the members and extended the regards for their valuable suggestions and remarks and meeting is ended with vote of thanks.

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BoS members of Mathematics:

S.No	Name(s) of the Member(s)	Designation	Position	Signature
1.	Dr. Shaik Sadik	Professor & Head, Department of First Year Engineering, Sir C. R. Reddy College of Engineering, Eluru-534007 8096425444 sadikcrce@gmail.com	BoS-Chairman	
2.	Dr. G. V. S.R. Deekshitulu	Professor, Department of Mathematics, JNTUK college of Engineering, Kakinada, Andhra Pradesh. 7799009970 dixitgvsr@gmail.com	Member (University Nominee)	
3.	Dr. G.N.V. Kishore	Professor, Department of Mathematics, SRKR Engineering college, Bhimavaram.	Member (Subject expert)	online
4.	Dr. M. A. Srinivas	Professor, Department of Mathematics, JNTU College of Engineering, Hyderabad. 9490745460 massrinivas@jntuh.ac.in	Member (Subject expert)	online
5.	Dr. Ravi Chandra Gooruganthu	Vice president (H.R) Tech Mahindra, Hyderabad.	Member (Industrial Expert)	online
6.	Sri. Vashidhar Gedela.	Consaltant, Data Base Engineer, Dell International Services, Hyderabad - (1990-94- CSE)	Member (College alumni)	online
7.	Dr. Swetha Lanka	Associate Professor, sircrrcoe	Internal Members	
8.	Dr. G. Srinivas Rao	Associate Professor, sircrrcoe		
9.	Sri. Shake Baji	Assistant Professor, sircrrcoe		
10.	Mrs. M. Durga Ratnam	Assistant Professor, sircrrcoe		
11.	Sri S. Ravi Kumar	Assistant Professor, sircrrcoe		
12.	Mrs. K. V. Umakaruna Devi	Assistant Professor, sircrrcoe		
13.	Ms. S. Sireesha	Assistant Professor, sircrrcoe		

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14	Mrs. K. Madhavi	Assistant Professor, sircrrcoe	
15	Mrs. D. Anusha	Assistant Professor, sircrrcoe	
16	Ms. K. Kavyanjali	Assistant Professor, sircrrcoe	
17	Mrs. P. Naga Sriveni	Assistant Professor, sircrrcoe	
18	Ms. K. Lalitha Parameswari	Assistant Professor, sircrrcoe	
19	Mrs. S. Hemalatha	Assistant Professor, sircrrcoe	

Signature of the BoS Chairman

HEAD
(Dr. Shaik Sadik)
First Year Engineering Department
Sir C.R. Reddy College of Engineering
ELURU-534 007

CC To:

- Mail & Hard copy to: Hon'ble Chairman
- Mail & Hard copy to: Hon'ble Vice-Chairman
- Mail & Hard copy to: All BoS Members
- Mail & Hard copy to: Principal
- Mail & Hard copy to: Director
- Mail & Hard copy to: Dean Academics
- Mail copy to: HoDs.CIVIL/MECH/EEE/ECE/CSE/IT/CAD/CSM/CSC
- Mail to: Exam. Section/Automation/Central Library/IQAC/AO/
- Mail to: All faculty members

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