



ANNAMACHARYA INSTITUTE OF TECHNOLOGY & SCIENCES

(Approved by A.I.C.T.E, New Delhi & Affiliated to JNTU Anantapur, Anantapuramu)
(Institute Accredited by NAAC, Bangalore) (Institute Accredited by IE (I), Kolkata)

DEPARTMENT OF
ELECTRICAL & ELECTRONICS ENGINEERING

MINUTES of 18th BOS MEETING

Date & Time
21/06/2025 & 10.30 am



ANNAMACHARYA INSTITUTE OF TECHNOLOGY & SCIENCES

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Academic Year 2025-2026

MINUTES OF BOARD OF STUDIES

The meeting of the Board of Studies in Electrical and Electronics Engineering (UG) of the Department of Electrical and Electronics Engineering, AITS, Rajampet held on 21/06/2025 at 10.30 a.m. to discuss the revision of curriculum and syllabus of B. Tech.

The following members were present for the BoS meeting

S. No.	Name of the Board Member	Designation	Institute/Industry	Role
Internal Members				
1.	Dr. M. Padma Lalitha	Professor	AITS, Rajampet.	Chairperson
2.	Dr. P. B. Chennaiah	Associate Professor	AITS, Rajampet.	Member
3.	Dr. S. Suresh	Associate Professor	AITS, Rajampet.	Member
4.	Mr. C. Ganesh	Assistant. Professor	AITS, Rajampet.	Member
External Members				
5.	Dr. Subhransu Sekhar Dash	Principal	Government College of Engineering, Kalahandi Bhubaneswar, Odisha	Subject Expert
6.	Dr. R. Sreenivasa Rao	Professor	JNTU, Kakinada.	University Nominee
7.	Dr. K. Sreenivas	Chief Engineer	APTRANSCO, Vijayawada.	Industry Expert
8.	Dr. C. Santhi Durganjali	System HIL Validation Engineer	TATA, Elxsi, Hyderabad.	Alumni



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AGENDA OF THE MEETING

Item No.	Particulars
BoS//2025//EEE//UG//18:1	Ratification of 17 th Board of Studies meeting.
BoS//2025//EEE//UG//18:2	Ratification of 17 th Board of Studies meeting action taken.
BoS//2025//EEE//UG//18:3	Discussion on stakeholder's feedback on curriculum.
BoS//2025//EEE//UG//18:4	Discussion on course structure for III, and IV B. Tech, R23 Regulation.
BoS//2025//EEE//UG//18:5	Discussion on detailed syllabus for III, and IV B. Tech, R23 Regulation.
BoS//2025//EEE//UG//18:6	Discussion on COs, POs, PSOs, and CO-PO-PSOs mapping etc.
BoS//2025//EEE//UG//18:7	Identification and Listing of External Examiners.



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MINUTES OF THE MEETING

Dr. M. Padma Lalitha, Professor and Head Department of Electrical & Electronics Engineering, Chairman, BoS initiated the meeting with a warm welcome and thanked them for accepting the invitation to the 18th BoS meeting.

Item No: 1 BoS / 2025 / EEE / UG / 18.1

Ratification of 17th Board of Studies meeting held on 12/07/2024

The external BoS members have ratified the points discussed in the 17th Board of Studies meeting held on 12/07/2024.

Item No: 1 BoS / 2025 / EEE / UG / 18.2

Ratification of 17th BoS meeting action taken report

The BoS chairperson presented the action taken report on changes made in the syllabus as per the suggestions given by the external BoS members and is enclosed in Annexure-I. The BoS members approved the same.

Item No: 1 BoS / 2025 / EEE / UG / 18.3

Discussion on stakeholder's feedback on curriculum.

The BoS chairperson presented the stakeholders feedback on curriculum received from the feedback committee approved by PAC (Programme Assessment Committee). The resolutions are appended in Annexure-II.

Item No: 1 BoS / 2025 / EEE / UG / 18.4

Discussion on course structure for III, and IV B. Tech, R23 Regulation

The BoS members approved the same. The BoS chairperson discussed the course structure for III, and IV B. Tech, R23 Regulation and the BoS members approved the course structure and the copy of course structure is enclosed in Annexure-III.



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Item No: 1 BoS / 2025 / EEE / UG / 18.5

Discussion on detailed syllabus for III, and IV B. Tech, R23 Regulation

The BoS chairperson discussed the syllabus for III and IV B. Tech., R23 Regulation, and the BoS members approved the syllabus. Also, the following recommendations are given.

Dr. Subhransu Sekhar Dash:

1. Proposed to replace the existing "Communication Systems" course with a new course on "Smart Grid" to enhance relevance to current industry trends.
2. Recommended to remove Unit IV (Short Circuit Analysis) and instead include more pertinent topics aligned with the course objectives in the Power Systems-II course, recommended to
3. Suggested to relocate topics related to biomass and tidal energy to Unit I of the Renewable & Distributed Energy Technologies course to streamline the syllabus.
4. The title of Unit III in the same course is to be revised as "Green Energy and Energy Storage" to better reflect its content.
5. Advised to incorporate fundamental concepts and principles of fuel cells, hydrogen energy, and related technologies in the Renewable & Distributed Energy Technologies course.

Dr. C. Santhi Durganjali:

1. Recommended to include a section on Electrical Safety Standards in the High Voltage Engineering course.
2. Suggested to integrate a module on Home Automation using IoT within the Smart Grid course to expand practical relevance.
3. The Power Electronics course should highlight the applications of converters across all units for better contextual understanding.

Dr. R. Srinivasa Rao:

1. Suggested to minimize the syllabus content to reduce academic rigor.
2. Advised the names of external examiners should not be disclosed during Board of Studies meetings to maintain confidentiality.



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Item No: 1 BoS / 2025 / EEE / UG / 18.6

Discussion on COs, POs, PSOs, and CO-PO-PSO mapping etc.

The BoS chairperson and other members discussed the COs, POs, PSOs and CO-PO-PSO mapping with the external BoS members. The BoS members approved the CO-PO-PSO mapping.

Item No: 1 BoS / 2025 / EEE / UG / 18.7

Identification and Listing of External Examiners.

The BOS chairperson listed out the external examiners from IITs, NITs and Universities. The list of examiners is presented in Annexure-IV.

Dr. M. Padma Lalitha
Chairman



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Annexure-I

Action Taken Report from the 17th BoS Meeting:

In response to the suggestion made in the previous Board of Studies meeting, the concept of "Laplace Transforms" has been incorporated into the syllabus of the "Complex Variables & Numerical Methods" course to strengthen students' foundational understanding and align with curriculum requirements.

Revised Syllabus of Complex Variables & Numerical Methods

Unit 1 Laplace Transforms

8

Definition-Laplace transform of standard functions-linearity property, first shifting Theorem, transforms of derivatives, Multiplication by t^n – Laplace transform of Periodic function, Initial and final value theorems. Inverse transform- linearity property, first shifting Theorem, inverse Laplace transform by Partial fractions, Applications of Laplace transforms to ordinary differential equations of first and second order with constant coefficients (without proofs).

Unit 2 Complex Variable – Differentiation

10

Introduction to functions of complex variable-concept of Limit & continuity- Differentiation, Cauchy-Riemann equations, analytic functions harmonic functions, finding harmonic conjugate-construction of analytic function by Milne Thomson method.

Unit 3 Complex Variable – Integration

8

Line integral-Contour integration, Cauchy's integral theorem (Simple Case), Cauchy Integral formula, Power series expansions: Taylor's series, zeros of analytic functions, singularities, Laurent's series, Residues, Cauchy Residue theorem (without proofs), Evaluation of definite integral involving sine and cosine.

Unit 4 Solution of algebraic & transcendental equations and Interpolation

8

Introduction-Bisection Method-Iterative method, Regula-falsi method and Newton Raphson method. Finite differences-Newton's forward and backward interpolation formulae – Lagrange's formulae.

Unit 5 Solution of initial value problems to ordinary differential equations

8



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Numerical solution of Ordinary Differential equations: Solution by Taylor's series-Picard's Method of successive Approximations-Euler's and modified Euler's methods-Runge-Kutta methods (second and fourth order).

Annexure-II (Stakeholder's Feedback)

The following recommendations have been forwarded from the feedback committee and PAC to the BOS.

The resolutions passed are provided point wise below:

S. No.	Decision About	Resolution
1	Inclusion of Signals and Systems course in the curriculum	Resolved to incorporate the Signals and Systems course into the undergraduate curriculum.
2	Introduction of AI & ML applications in Electrical Engineering	Resolved to offer a new course titled AI & ML for Electrical Engineering to address emerging trends.
3	Enhancement of departmental research facilities	Resolved to procure advanced software tools to support and strengthen research activities in the department.
4	Conduct of guest lectures and workshops on contemporary technologies	Resolved to regularly organize guest lectures and workshops on recent and emerging technologies.
5	Arrangement of industrial visits for students	Resolved to facilitate periodic industrial visits to enhance students' practical exposure.



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Annexure-III (Course Structure for III and IV B. Tech)

B.Tech. III Year-I Semester

S. No.	Category	Course Code	Title	L	T	P	C
1	PCC	23A0251T	Power Electronics	2	1	0	3
2	PCC	23A0252T	Digital Circuits	2	1	0	3
3	PCC	23A0253T	Power Systems-II	3	0	0	3
4	PEC-I	23A025AT	Signals and Systems	3	0	0	3
		23A025BT	Electrical safety and Risk Management				
		23A025CT	Utilization of Electrical Energy				
		23A025DT	High Voltage Engineering				
5	OEC-I		Open Elective-I	3	0	0	3
6	PCC	23A0251L	Power Electronics Lab	0	0	3	1.5
7	PCC	23A0252L	Analog and Digital Circuits Lab	0	0	3	1.5
8	SEC-I		Skill Enhancement course Soft Skills	0	1	2	2
9	PCC	23A0253L	Tinkering Lab	0	0	2	1
10	IN	23A0254I	Evaluation of Community Service Internship	-	-	-	2
Total				15	1	10	23

Open Elective-I

S. No.	Category	Course Name	Offered by the Dept.
1		Green Buildings	CE
2		Construction Technology and Management	
3		Sustainable Energy Technologies	ME
4		Electronic Circuits	ECE
5		Java Programming	CSE & Allied/IT
6		Introduction to Artificial Intelligence	
7		Mathematics for Machine Learning and AI	Mathematics
8		Materials Characterization Techniques	Physics
9		Chemistry of Energy Systems	Chemistry
10		English for Competitive Examinations	Humanities
11		Entrepreneurship and New Venture Creation	



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B.Tech. III Year-II Semester

S. No.	Category	Course Code	Title	L	T	P	C
1	PCC	23A0261T	Electrical Measurements and Instrumentation	3	0	0	3
2	PCC	23A0262T	Microprocessors and Microcontrollers	3	0	0	3
3	PCC	23A0263T	Power System Analysis	3	0	0	3
4	PEC-II	23A026AT	Professional Elective-II AI & ML for Electrical Engineering	3	0	0	3
		23A026BT	Programmable Logic Controllers				
		23A026CT	Switchgear and Protection				
		23A026DT	Energy Auditing and Demand Side management				
5	PEC-III	23A026ET	Professional Elective-III Smart Grid	3	0	0	3
		23A026FT	Electric Drives				
		23A026GT	Renewable and Distributed Energy Technologies				
		23A026HT	Embedded Systems				
6	OEC-II		Open Elective - II	3	0	0	3
7	PCC	23A0261L	Electrical Measurements and Instrumentation Lab	0	0	3	1.5
8	PCC	23A0262L	Microprocessors and Microcontrollers Lab	0	0	3	1.5
9	SEC-II	23A0263L	Skill Enhancement course Applications of Soft Computing Tools in Electrical Engineering	0	1	2	2
10	AC-I	23A0264L	Audit Course Technical Paper Writing & IPR	2	0	0	-
Total				20	1	8	23
Mandatory Industry Internship of 08 weeks duration during summer vacation							

Open Elective-II

S. No.	Category	Course Name	Offered by the Dept.
1		Disaster Management	CE
2		Sustainability In Engineering Practices	
3		Automation and Robotics	ME
4		Digital Electronics	ECE
5		Operating Systems	CSE& Allied/IT
6		Machine Learning	
7		Optimization Techniques	Mathematics
8		Physics of Electronic Materials and Devices	Physics
9		Chemistry of Polymers and Applications	Chemistry
10		Academic Writing and Public Speaking	Humanities



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B.Tech. IV Year-I Semester

S. No.	Category	Course Code	Title	L	T	P	C
1	PCC	23A0271T	Power System Operation and Control	3	0	0	3
2	HSMC		Management Course- II Elective Business Ethics and Corporate Governance	2	0	0	2
			E-Business				
			Management Science				
3	PEC-IV	23A027AT	Professional Elective-IV Digital Signal Processing	3	0	0	3
		23A027BT	Electric Vehicle Technology				
		23A027CT	HVDC & FACTS				
		23A027DT	Special Electrical Machines				
4	PEC-V	23A027ET	Professional Elective-V Modern Control Theory	3	0	0	3
		23A027FT	Switched Mode Power Conversion				
		23A027GT	Electrical Distribution System				
		23A027HT	Power Quality				
5	OEC-III		Open Elective - III	3	0	0	3
6	OEC-IV		Open Elective-IV	3	0	0	3
7	SEC-III	23A0271L	Skill Enhancement Course Power Systems and Simulation Lab	0	0	4	2
8	AC-II		Audit Course Gender Sensitization	2	0	0	-
9	IN	23A0272I	Internship Evaluation of Industry Internship	-	-	-	2
Total				17	0	0	4

Open Elective-III

S. No.	Category	Course Name	Offered by the Dept.
1		Building Materials and Services	CE
2		Environmental Impact Assessment	
3		3D Printing Technologies	ME
4		Microprocessors and Microcontrollers	ECE
5		Data Base Management Systems	CSE & Allied/IT
6		Cyber Security	
7		Wavelet transforms and its applications	Mathematics
8		Smart Materials and Devices	Physics
9		Green Chemistry and Catalysis for Sustainable Environment	Chemistry
10		Employability Skills	Humanities



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Open Elective-IV

S. No.	Category	Course Name	Offered by the Dept.
1		Geo-Spatial Technologies	CE
2		Solid Waste Management	
3		Total Quality Management	ME
4		Transducers and Sensors	ECE
5		Computer Networks	CSE & Allied/IT
6		Internet of Things	
7		Financial Mathematics	Mathematics
8		Sensors And Actuators for Engineering Applications	Physics
9		Chemistry Of Nanomaterials and Applications	Chemistry
10		Literary Vibes	Humanities

B.Tech. IV Year-II Semester

S. No.	Category	Title	L	T	P	C
1	PR	Internship and Project	-	-	24	12

Open Electives Offered by EEE Department

S. No	Category	Course Code	Title	L	T	P	C
1	OEC	23A025ET	Electrical Safety Practices and Standards	3	0	0	3
2	OEC	23A025FT	Instrumentation	3	0	0	3
3	OEC	23A026IT	Renewable Energy Sources	3	0	0	3
4	OEC	23A026JT	Wind and Solar Energy	3	0	0	3
5	OEC	23A027IT	Smart Grid Technologies	3	0	0	3
6	OEC	23A027JT	Electric Vehicles	3	0	0	3

Honors in Electric Vehicles (EEE Department)

S. No	Category	Course Code	Title	L	T	P	C
1	HON	23A2H01	E - Mobility	3	0	0	3
2	HON	23A2H02	Battery Management Systems	3	0	0	3
3	HON	23A2H03	Special Machines for Electric Vehicles	3	0	0	3
4	HON	23A2H04	Grid Interface of Electric Vehicles	3	0	0	3
5	HON	23A2H05	EV Charging Technologies	3	0	0	3
6	HON	23A2H06	Project on Electric Vehicles	0	0	6	3



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Minors in Energy Systems (EEE Department)

S. No	Category	Course Code	Title	L	T	P	C
1	MON-I	23A2M01	Energy Audit and Management	3	0	0	3
2	MON-I	23A2M02	Energy Management in Building	3	0	0	3
3	MON-I	23A2M03	Energy Storage Technologies	3	0	0	3
4	MON-I	23A2M04	Energy Scenario and Energy Policy	3	0	0	3
5	MON-I	23A2M05	Waste Energy Management	3	0	0	3
6	MON-I	23A2M06	Project in Energy Systems	0	0	6	3

Minors in Micro Grid Technology (EEE Department)

S. No	Category	Course Code	Title	L	T	P	C
1	MON-II	23A2M07	Futuristic Power Systems	3	0	0	3
2	MON-II	23A2M08	Power Electronic Converters for Energy Sources	3	0	0	3
3	MON-II	23A2M09	Micro Grid Power and Control Architecture	3	0	0	3
4	MON-II	23A2M10	Micro Grid System Design	3	0	0	3
5	MON-II	23A2M11	Analysis of Smart Grid System	3	0	0	3
6	MON-II	23A2M12	Project in Micro Grid Technology	0	0	6	3



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Annexure-IV (List of External Examiners)

S.No.	Examiner Name	Address
1	Dr. T. Vinopraba	Associate Professor, EEE Department, NIT Puducherry
2	Dr. V. Nagabhaskar Reddy	Professor & HoD, Department of EEE, RGM CET, Nandyal
3	Dr. R. Sridhar	Professor, Department of EEE, SRMIST, Chennai.
4	Dr. M. Sushma	Professor, Department of EEE, JNTUCEH, Hyderabad
5	Dr. D. Sri Vidhya	Associate Professor, K. S. Rangasamy College of Technology, Tiruchengode
6	Dr. M. N. Giri Prasad	Professor, Dept of E.C.E, JNTUACEA, Anantapur.
7	Dr. M. Janardhan Raju	Principal, SIET, Puttur
8	Dr. H. Devanna	Professor, SJ CET, Yemmiganur
9	Dr. K. Sudhakar	HoD, Dept of E.C.E., SJ CET, Yemmiganur
10	Dr. M. Padmaja Rani	Associate Professor, SJ CET., Yemmiganur
11	Dr K. Narasimha Rao	Professor & Head, Department of EEE, GVP College of Engineering (Autonomous), Visakhapatnam
12	Dr. V.C. Veera Reddy	Professor, Department of EEE, SPMVV, Tirupati
13	Dr. V. S. Vakula	Assistant Professor & HOD, Department of EEE, JNTUK, Vizianagaram
14	Dr. G. V. Sivakrishna Rao	Professor, Department of EEE, AU, Visakhapatnam
15	Dr. K. Jithendra Gowd	Assistant Professor, Department of EEE, JNTUCEA, Anantapur
16	Dr. N. Naga Raja Rao	Professor & HOD, GPREC, Kurnool
17	Dr. D. Vishnuvardhan	Assistant Professor, JNTUACEA, Anantapuramu
18	Dr. B. Polaiiah	Professor, KLU, Vijayawada
19	Dr. P. V. Ramana	HOD, Dept of E.C.E., SVNEC, Rangampet
20	Dr. M. Venkata Narayana	Professor, KS RM College of Engineering, Kadapa
21	Dr. P. Sujatha	Professor, Department of EEE, JNTUCEA, Anantapur
22	Dr. Ch. Chengaiah	Professor, Department of EEE, SVUCE, SVU, Tirupati
23	Dr. B. Urmila	Associate Professor, Department of EEE, GPREC, Kurnool
24	Dr. V. Maheswari	Associate Professor, Department of EEE, SITAMS, Chittoor.
25	Dr. S. Ravindra	Professor, Department of EEE, Vasireddy Venkatadri Institute of Technology, Guntur.
26	Dr. G. Venkateswarlu	Professor & HoD, Department of EEE, Narayana Engineering College, Nellore.
27	Dr. P. Nagaraju Mandadi	Professor, Dept. of EEE, SITAMS, Chittoor.
28	Dr. S. Suresh Reddy	Professor & HoD, Department of EEE, NBRIST, Vakadu.
29	Dr. B. Mouli Chandra	Professor & HoD, Department of EEE, QISCET, Ongole.
30	Dr. K. S. R. Krishna Prasad	Professor, Department of EEE, NIT Warangal



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S.No.	Examiner Name	Address
31	Dr. T. Sreenivasulu Reddy	Associate Professor, Department of ECE, SVUCE, Tirupathi
32	Dr. R. Srinivasa Rao	Professor, Dept. of EEE, JNTU, Kakinada
33	Dr. M. Sivasatya Narayana	Associate Professor, Department of EEE, GPREC, Kurnool
34	Dr. C. Kamal Basha	Professor, Department of EEE, MITS, Madanapalle
35	Dr. Y.V. Siva Reddy	Professor, Department of EEE, GPREC, Kurnool
36	Dr. R. Rathinam	Professor, Department of EEE, SRMIST, Chennai.
37	Dr. I. Prabhakara Reddy	Professor, Department of EEE, NBRIST, Vakadu
38	Dr. K. Amaresh	Professor, Department of EEE, St. Peters Engineering College, Hyderabad
39	Dr. R. Kiranmayi	Professor, Dept. of EEE, JNTUCEA, Anantapur
40	Dr. P. V. Prasad	Professor, Department of EEE, CBIT, Hyderabad
41	Dr. P. Chandra Sekhar	Associate Professor, Department of EEE, MGIT, Hyderabad
42	Dr. N. Chellammal	Associate Professor, Department of EEE, SRM University, Chennai.
43	Dr. D. Suresh	Professor, RNSIT, Bengaluru
44	Dr. S. Shafiulla Basha	Assistant Professor, Dept. of ECE, YVU, Proddatur
45	Dr. C. Chandrasekhar	Professor, HOD, SVCEW, Tirupathi
46	Dr. M. V. Subramanyam	Professor, Shantiram Engg College, Nandyal
47	Dr. J. Siva Vara Prasad	Professor, Dept. of EEE, LBRCE, Krishna
48	Dr. G. Sambasiva Rao	Professor, R. V. R. & J. C. College of Engineering, Guntur
49	Dr. P. Ramkishore Kumar Reddy	Professor, Dept. of EEE, MGIT, Hyderabad
50	Dr. O. Chandra Sekhar	Associate Professor, Dept. of EEE, NIT, Delhi
51	Dr. M. Senthilkumar	Professor, Department of EEE, Sona college of Technology, Salem, Tamilnadu
52	Dr. Y. N. Vijay Kumar	Professor, Dept. of EEE, SVCET, Chittoor
53	Dr. P. Srinivas Varma	Associate Professor, Department of EEE, K L University, Guntur
54	Dr. M. Damodar Reddy	Professor, Department of EEE, SVUCE, SVU, Tirupati
55	Dr. S. S. Dash	Professor, Department of EEE, Government College of Engineering, Orissa
56	Dr. D. Satya Narayana	Professor, Dept of E.C.E, RGM CET, Nandyal
57	Dr. K. Hari Kishore	Professor, KLU, Vijayawada
58	Dr. S. Chandra Mohan Reddy	Assistant Professor, Dept. of E.C.E, JNTUCEP, Pulivendula
59	Dr. C. Srinivasarao	Professor, Dept. of EEE, GPCET, Kurnool
60	Dr. D. Lenine	Professor, Dept. of EEE, RGM CET, Nandyal
61	Dr. V.V.K Reddy	Professor, Dept. of EEE, NBKRIST, SPSR, Nellore
62	Dr. K. Nagireddy	Professor, NBKR, Vakadu
63	Dr. R. Sumalatha	Professor, VCE, Hyderabad



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S.No.	Examiner Name	Address
64	Dr. T. Gowri Manohar	Professor, Dept. of EEE, SVUCE, SVU, Tirupati
65	Dr. B. Vijaya Krishna	Associate Professor, Department of EEE, Bapatla Engineering College, Bapatla
66	Dr. J. Sreenivasulu	Assistant Professor, Department of EEE, JNTUCEA, Anantapur
67	Dr. K. Vaisakh	Professor, Department of EEE, Andhra University, Visakhapatnam
68	Dr. V. Somasekhar	Professor, Dept. of EEE, NIT Warangal
69	Dr. K. Udhayakumar	Professor, Department of EEE, Anna University, Chennai
70	Dr. M. Kiran Kumar	Associate Professor, Department of EEE, K L University, Guntur
71	Dr. Sailaja Kumari M	Professor, Department of EEE, NIT Warangal
72	Dr. K. Chandra Sekhar	Professor, Department of EEE, RVR & JC college of Engineering, Guntur.
73	Dr. V. Usha Reddy	Associate Professor, Department of EEE, SVUCE, SVU, Tirupati
74	Dr. E. Vidya Sagar	Professor, Department of EEE, Osmania University, Hyderabad
75	Dr. Madhuri Avinash Chaudhari	Professor, Department of EEE, Visvesvaraya National Institute of Technology, Nagpur



ANNAMACHARYA INSTITUTE OF TECHNOLOGY & SCIENCES

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(Institute Accredited by NAAC, Bangalore) (Institute Accredited by IE (I), Kolkata)

Signature of the Board Members

S. No.	Name of the Board Member	Signature
1.	Dr. M. Padma Lalitha	<i>M. Padma Lalitha</i>
2.	Dr. P. B. Chennaiah	<i>P. B. Chennaiah</i>
3.	Dr. S. Suresh	<i>S. Suresh</i>
4.	Mr. C. Ganesh	<i>C. Ganesh</i>
5.	Dr. Subharansu Sekhar Dash	<i>Attended through online</i>
6.	Dr. N. Chellammal	<i>ABSENT</i>
7.	Dr. R. Sreenivasa Rao	<i>Attended through online</i>
8.	Dr. K. Sreenivas	<i>»</i>
9.	Dr. C. Santhi Durganjali	<i>»</i>



Action Taken Report from the 17th BoS Meeting

In response to the suggestion made in the previous Board of Studies meeting, the concept of "Laplace Transforms" has been incorporated into the syllabus of the "Complex Variables & Numerical Methods" course to strengthen students' foundational understanding and align with curriculum requirements.

Revised Syllabus of Complex Variables & Numerical Methods

Unit 1 Laplace Transforms

8

Definition-Laplace transform of standard functions-linearity property, first shifting Theorem, transforms of derivatives, Multiplication by t^n – Laplace transform of Periodic function, Initial and final value theorems. Inverse transform- linearity property, first shifting Theorem, inverse Laplace transform by Partial fractions, Applications of Laplace transforms to ordinary differential equations of first and second order with constant coefficients (without proofs).

Unit 2 Complex Variable – Differentiation

10

Introduction to functions of complex variable-concept of Limit & continuity- Differentiation, Cauchy-Riemann equations, analytic functions harmonic functions, finding harmonic conjugate-construction of analytic function by Milne Thomson method.

Unit 3 Complex Variable – Integration

8

Line integral-Contour integration, Cauchy's integral theorem (Simple Case), Cauchy Integral formula, Power series expansions: Taylor's series, zeros of analytic functions, singularities, Laurent's series, Residues, Cauchy Residue theorem (without proofs), Evaluation of definite integral involving sine and cosine.

Unit 4 Solution of algebraic & transcendental equations and Interpolation

8

Introduction-Bisection Method-Iterative method, Regula-falsi method and Newton Raphson method. Finite differences-Newton's forward and backward interpolation formulae – Lagrange's formulae.

Unit 5 Solution of initial value problems to ordinary differential equations

8

Numerical solution of Ordinary Differential equations: Solution by Taylor's series-Picard's Method of successive Approximations-Euler's and modified Euler's methods-Runge-Kutta methods (second and fourth order).

Lalitha
C. Prasad Lalitha

P. B. Chennur
P. B. Chennur

S. Suresh
S. Suresh

G. Ganesh
G. Ganesh