



ANIL NEERUKONDA INSTITUTE OF TECHNOLOGY & SCIENCES (Autonomous)

(Affiliated to AU, Approved by AICTE & Accredited by NBA & NAAC)
Sangivalasa - 531 162, Bheemunipatnam (Mandal), Visakhapatnam (District)
Phones : 08933 - 225083, 225084, 9154220250.

Website : www.anits.edu.in

e-mail : principal@anits.edu.in

List of new courses introduced during the AY 2021-2022

S.No.	Name of the Program	New courses introduced	
		Course code	Course Name
1	B.Tech. - Chemical Engineering	CHE 316 (A)	Industrial Safety
2	B.Tech. - Chemical Engineering	CHE 321(A)	Fundamentals of Industrial Safety and Health
3	B.Tech. - Chemical Engineering	CHE 222(B)	Managerial Economics and Financial Analysis
4	B.Tech. - Chemical Engineering	CHE 222 (C)	Operational Research
5	B.Tech. - Chemical Engineering	CHE 511 M	Chemical Process Calculation
6	B.Tech. - Chemical Engineering	CHE 512 M	Particle Technology
7	B.Tech. - Chemical Engineering	CHE 513 M	Momentum Transfer
8	B.Tech. - Chemical Engineering	CHE 514 M	Heat Transfer
9	B.Tech. - Chemical Engineering	CHE 515 M	Separation Technology
10	B.Tech. - Chemical Engineering	CHE 516 M	Chemical Reaction Engineering
11	B.Tech. - Chemical Engineering	CHE 611 H	Advanced heat transfer
12	B.Tech. - Chemical Engineering	CHE 612 H	Advanced separation technology
13	B.Tech. - Chemical Engineering	CHE 613 H	Advanced reaction engineering
14	B.Tech. - Chemical Engineering	CHE 614 H	Advanced process control
15	B.Tech. - Chemical Engineering	CHE 621 H	Pharmaceutical Technology
16	B.Tech. - Chemical Engineering	CHE 622 H	Pharmaceutical Kinetics
17	B.Tech. - Chemical Engineering	CHE 623 H	Pharmaceutical Analysis
18	B.Tech. - Chemical Engineering	CHE 624 H	Pharmaceutical Biotechnology
19	B.Tech. - Chemical Engineering	CHE 631 H	Biochemistry and Microbiology
20	B.Tech. - Chemical Engineering	CHE 632 H	Bioprocess Engineering
21	B.Tech. - Chemical Engineering	CHE 633 H	Bio Separation Technology
22	B.Tech. - Chemical Engineering	CHE 634 H	Bio Analytical Techniques
23	B.Tech. - Chemical Engineering	CHE 641 H	Principles of Safety Management
24	B.Tech. - Chemical Engineering	CHE 642 H	Chemical Process Safety
25	B.Tech. - Chemical Engineering	CHE 643 H	Environmental Issues and Management
26	B.Tech. - Chemical Engineering	CHE 644 H	Hazard Identification and Risk Assessment

S.No.	Name of the Program	New courses introduced	
		Course code	Course Name
27	B.Tech. - Civil Engineering	CIV226	Building Architecture with REVIT
28	B.Tech. - Civil Engineering	CIV H221	Sustainability Engineering
29	B.Tech. - Civil Engineering	CIV H311	Construction Technology
30	B.Tech. - Civil Engineering	CIV H321	Infrastructure Engineering
31	B.Tech. - Civil Engineering	CIV H322	E TABS Lab
32	B.Tech. - Civil Engineering	CIV H411	Earthquake Engineering
33	B.Tech. - Civil Engineering	CIV H412	PRIMAVERA LAB
34	B.Tech. - Computer Science and Engineering	CSE320	Constitution of India- Intellectual Property Rights
35	B.Tech. - Computer Science and Engineering	CSE312(D)	Artificial Intelligence
36	B.Tech. - Computer Science and Engineering	CSE323(C)	Machine Learning Using R
37	B.Tech. - Computer Science and Engineering	CSE313	Competitive Programming
38	B.Tech. - Computer Science and Engineering	CSE318	Competitive Programming Lab
39	B.Tech. - Computer Science and Engineering	CSE324	Object Oriented Software Engineering
40	B.Tech. - Computer Science and Engineering	CSE328	Object Oriented Software Engineering Lab
41	B.Tech. - Computer Science and Engineering	CSE219	Constitution of India- Intellectual Property Rights
42	B.Tech. - Computer Science and Engineering	CSM222	Artificial Intelligence
43	B.Tech. - Computer Science and Engineering	CSM224	Python Programming
44	B.Tech. - Computer Science and Engineering	CSM227	Python Programming Lab
45	B.Tech. - Computer Science and Engineering	CSM212	Computer Organization & Microprocessors
46	B.Tech. - Computer Science and Engineering	CSM228	Computer Organization & Microprocessor Interfacing Lab
47	B.Tech. - Computer Science and Engineering	CSM225	Theory of Computation and Compilers
48	B.Tech. - Computer Science and Engineering	CSD222	Basics of Data Science
49	B.Tech. - Computer Science and Engineering	CSE H122	Mobile Application Development
50	B.Tech. - Computer Science and Engineering	CSE H131	Full Stack Web Development
51	B.Tech. - Computer Science and Engineering	CSE H132	Cloud Application Development and Deployment

S.No.	Name of the Program	New courses introduced	
		Course code	Course Name
52	B.Tech. - Computer Science and Engineering	CSE H141	Microservices
53	B.Tech. - Computer Science and Engineering	CSE H222	Information Security and Auditing
54	B.Tech. - Computer Science and Engineering	CSE H231	System Secure Engineering
55	B.Tech. - Computer Science and Engineering	CSE H232	Cyber Security
56	B.Tech. - Computer Science and Engineering	CSE H241	Hardware Security
57	B.Tech. - Computer Science and Engineering	CSE M131(A)	Concepts of Object Oriented Programming
58	B.Tech. - Computer Science and Engineering	CSE M131(B)	Data Structures
59	B.Tech. - Computer Science and Engineering	CSE M132	Computer Operating System
60	B.Tech. - Computer Science and Engineering	CSE M141	Fundamentals of Computer Networks
61	B.Tech. - Computer Science and Engineering	CSE M142(A)	File System and Database
62	B.Tech. - Computer Science and Engineering	CSE M142(B)	Introduction to Software Engineering
63	B.Tech. - Computer Science and Engineering	CSE M231	Introduction to AI
64	B.Tech. - Computer Science and Engineering	CSE M232	Introduction to Machine Learning
65	B.Tech. - Computer Science and Engineering	CSE M241	Introduction to Deep Learning
66	B.Tech. - Computer Science and Engineering	CSE M242	AI in Robotics
67	B.Tech. - Computer Science and Engineering	CSE M331	Basics of Data Science
68	B.Tech. - Computer Science and Engineering	CSE M332	Data Visualization and Analysis with Spreadsheet
69	B.Tech. - Computer Science and Engineering	CSE M341	Introduction to Data Warehouse and Data Mining
70	B.Tech. - Computer Science and Engineering	CSE M342	Introduction to Data Analysis
71	B.Tech. - Electronics and Communication Engineering	ECE324	Data Structures
72	B.Tech. - Electronics and Communication Engineering	ECE329	DS Lab
73	B.Tech. - Electronics and Communication Engineering	ECE R20HT1-1	Analog IC Design
74	B.Tech. - Electronics and Communication Engineering	ECE R20HT1-2	Advance VLSI Design
75	B.Tech. - Electronics and Communication Engineering	ECE R20HT1-3	Introduction to CAD for VLSI

S.No.	Name of the Program	New courses introduced	
		Course code	Course Name
76	B.Tech. - Electronics and Communication Engineering	ECE R2OHT1-4	Low Power VLSI
77	B.Tech. - Electronics and Communication Engineering	ECE R2OHT1-5	Design for Testability
78	B.Tech. - Electronics and Communication Engineering	ECE R2OHT1-6	Hardware Security
79	B.Tech. - Electronics and Communication Engineering	ECE R2OHT2-1	Advance Embedded Systems
80	B.Tech. - Electronics and Communication Engineering	ECE R2OHT2-2	RTOs
81	B.Tech. - Electronics and Communication Engineering	ECE R2OHT2-3	Advanced Microcontrollers
82	B.Tech. - Electronics and Communication Engineering	ECE R2OHT2-4	IoT
83	B.Tech. - Electronics and Communication Engineering	ECE R2OHT3-1	EMI/EMC
84	B.Tech. - Electronics and Communication Engineering	ECE R2OHT3-2	RF System Design
85	B.Tech. - Electronics and Communication Engineering	ECE R2OHT3-3	Wireless broadband Communications
86	B.Tech. - Electronics and Communication Engineering	ECE R2OHT3-4	Multi Carrier Communication
87	B.Tech. - Electronics and Communication Engineering	ECE R2OHT3-5	mm Wave Technology
88	B.Tech. - Electrical and Electronics Engineering	EEE323	Internet of Things
89	B.Tech. - Electrical and Electronics Engineering	EEE321	ANN & Fuzzy Systems
90	B.Tech. - Electrical and Electronics Engineering	EEE312(3)	EMBEDDED SYSTEMS
91	B.Tech. - Electrical and Electronics Engineering	EEE312(1)	Renewable energy technologies
92	B.Tech. - Electrical and Electronics Engineering	EEE R20MT1-1	Distribution System Planning & Automation
93	B.Tech. - Electrical and Electronics Engineering	EEE R20MT1-2	Restructured Power Systems
94	B.Tech. - Electrical and Electronics Engineering	EEE R20MT1-3	HVDC & FACTS
95	B.Tech. - Electrical and Electronics Engineering	EEE R20MT1-4	Power Quality
96	B.Tech. - Electrical and Electronics Engineering	EEE R20MT1-5	Smart Grid Technologies
97	B.Tech. - Electrical and Electronics Engineering	EEE R20MT2-1	Advanced Power Electronics
98	B.Tech. - Electrical and Electronics Engineering	EEE R20MT2-2	Advanced Electrical Drives
99	B.Tech. - Electrical and Electronics Engineering	EEE R20MT2-3	HVDC & FACTS

S.No.	Name of the Program	New courses introduced	
		Course code	Course Name
100	B.Tech. - Electrical and Electronics Engineering	EEE R20MT2-4	Power Quality
101	B.Tech. - Electrical and Electronics Engineering	EEE R20MT2-5	Hybrid Electrical Vehicles
102	B.Tech. - Electrical and Electronics Engineering	EEE R20MT3-1	State Estimation & System Identification
103	B.Tech. - Electrical and Electronics Engineering	EEE R20MT3-2	Digital Control Systems
104	B.Tech. - Electrical and Electronics Engineering	EEE R20MT3-3	Non Linear Control Systems
105	B.Tech. - Electrical and Electronics Engineering	EEE R20MT3-4	Optimal Control Systems
106	B.Tech. - Electrical and Electronics Engineering	EEE R20MT3-5	Adaptive Control Systems
107	B.Tech. - Electrical and Electronics Engineering	EEE R20MT4-1	Energy Conservation & Audit
108	B.Tech. - Electrical and Electronics Engineering	EEE R20MT4-2	Utilization of Electrical Energy
109	B.Tech. - Electrical and Electronics Engineering	EEE R20MT4-3	Solar & Fuel cell Energy Systems
110	B.Tech. - Electrical and Electronics Engineering	EEE R20MT4-4	Wind & Biomass Energy Systems
111	B.Tech. - Electrical and Electronics Engineering	EEE R20MT4-5	Nuclear, Geothermal & Tidal Energy Systems
112	B.Tech. - Information Technology	IT3110	Internship in Industry-I
113	B.Tech. - Information Technology	IT3111	Constitution of Indian & - Intellectual Property Rights
114	B.Tech. - Information Technology	IT322(C)	Business Automation
115	B.Tech. - Information Technology	IT322(D)	Embedded Systems
116	B.Tech. - Information Technology	IT322(E)	Management Information Systems
117	B.Tech. - Information Technology	IT323(C)	Operation Research
118	B.Tech. - Information Technology	IT327(A)	ETL Tools
119	B.Tech. - Information Technology	IT327(B)	DEVOpps
120	B.Tech. - Information Technology	IT327(C)	ADV.Java
121	B.Tech. - Information Technology	IT325	DesignThinking
122	B.Tech. - Information Technology	IT328	Internet of Things Lab
123	B.Tech. - Information Technology	IT01H1	Practical Cryptography in Python

S.No.	Name of the Program	New courses introduced	
		Course code	Course Name
124	B.Tech. - Information Technology	IT01H2	Practical Machine Learning with Python
125	B.Tech. - Information Technology	IT01H3	Parallel Programming
126	B.Tech. - Information Technology	IT01H4	Enterprise Architecture Foundations
127	B.Tech. - Information Technology	IT02H1	Computer Forensics and Cyber Crime
128	B.Tech. - Information Technology	IT02H2	Business Intelligence
129	B.Tech. - Information Technology	IT02H3	Distributed and Cloud Computing: From Parallel Processing to IoT
130	B.Tech. - Information Technology	IT02H4	Software Design
131	B.Tech. - Information Technology	IT03H1	Cyber Laws and Ethics
132	B.Tech. - Information Technology	IT03H2	Reinforcement Learning
133	B.Tech. - Information Technology	IT03H3	Cloud Networking
134	B.Tech. - Information Technology	IT03H4	Software Quality Analysis
135	B.Tech. - Information Technology	IT04H1	Blockchain Fundamentals
136	B.Tech. - Information Technology	IT04H2	Computer Vision
137	B.Tech. - Information Technology	IT04H3	Cloud Security and Privacy
138	B.Tech. - Information Technology	IT04H4	Agile Software Development
139	B.Tech. - Mechanical Engineering	MEC226	Computer Aided Modelling
140	B.Tech. - Mechanical Engineering	MEC312-D	Supply Chain Management
141	B.Tech. - Mechanical Engineering	MEC313	Design Thinking
142	B.Tech. - Mechanical Engineering	MEC319	Applied Mechanics Lab
143	B.Tech. - Mechanical Engineering	MEC322-C	Additive Manufacturing
144	B.Tech. - Mechanical Engineering	MEC322-D	Non-Destructive Testing
145	B.Tech. - Mechanical Engineering	MEC R20H P1-1	Micro-Electro Mechanical Systems (MEMS)
146	B.Tech. - Mechanical Engineering	MEC R20H P1-2	Quality engineering and management
147	B.Tech. - Mechanical Engineering	MEC R20H P1-3	Composite materials

S.No.	Name of the Program	New courses introduced	
		Course code	Course Name
148	B.Tech. - Mechanical Engineering	MEC R20H P1-4	Smart Manufacturing
149	B.Tech. - Mechanical Engineering	MEC R20H P2-1	Fuels and Combustion Thermodynamics
150	B.Tech. - Mechanical Engineering	MEC R20H P2-2	Reliability Engineering
151	B.Tech. - Mechanical Engineering	MEC R20H P2-3	Inventory control and supply chain management
152	B.Tech. - Mechanical Engineering	MEC R20H P2-4	Mechanical Vibrations
153	B.Tech. - Mechanical Engineering	MEC R20H P3-1	Design for Manufacturing & Assembly
154	B.Tech. - Mechanical Engineering	MEC R20H P3-2	Vehicle Dynamics
155	B.Tech. - Mechanical Engineering	MEC R20H P3-3	Introduction to Fracture Mechanics
156	B.Tech. - Mechanical Engineering	MEC R20H P3-4	Advanced Fluid Mechanics
157	B.Tech. - Mechanical Engineering	MEC R20H P4-1	Computational Fluid Dynamics
158	B.Tech. - Mechanical Engineering	MEC R20H P4-2	Machine Tool Design
159	B.Tech. - Mechanical Engineering	MEC R20H P4-3	Concurrent Engineering
160	B.Tech. - Mechanical Engineering	MEC R20H P4-4	Autonomous Vehicles
161	B.Tech. - Mechanical Engineering	MEC R20GM-1	Elements of Mechanical Engineering
162	B.Tech. - Mechanical Engineering	MEC R20GM-2	Principles of Manufacturing processes
163	B.Tech. - Mechanical Engineering	MEC R20GM-3	Fundamentals of Mechanical Design
164	B.Tech. - Mechanical Engineering	MEC R20GM-4	Operations Research
165	B.Tech. - Mechanical Engineering	MEC R20GM-5	Automobile Engineering
166	B.Tech. - Mechanical Engineering	MEC R20GM-6	Waste to energy conversion
167	B.Tech. - Mechanical Engineering	MEC R20SM-1	Principles of Robotics
168	B.Tech. - Mechanical Engineering	MEC R20SM-2	Robot Kinematics
169	B.Tech. - Mechanical Engineering	MEC R20SM-3	Elements of Mechatronics
170	B.Tech. - Mechanical Engineering	MEC R20SM-4	Pneumatics and Hydraulics
171	B.Tech. - Mechanical Engineering	MEC R20SM-5	Machine Vision Systems

S.No.	Name of the Program	New courses introduced	
		Course code	Course Name
172	B.Tech. - Mechanical Engineering	MEC R20SM-6	Autonomous Vehicles
173	M.Tech. - Food Technology	FPT111	Food Microbiology
174	M.Tech. - Food Technology	FPT112	Food Biochemistry
175	M.Tech. - Food Technology	FPT115	Research Methodology and IPR
176	M.Tech. - Food Technology	FPT116	Food Microbiology and Biochemistry Lab
177	M.Tech. - Food Technology	FPT117	Seminar
178	M.Tech. - Food Technology	FPT118	Human Values and Professional Ethics
179	M.Tech. - Food Technology	FPT 113 (A)	Plant Food Technology
180	M.Tech. - Food Technology	FPT 113 (B)	Animal Product Technology
181	M.Tech. - Food Technology	FPT 113 (C)	Instrumentation and Control in Food Industry
182	M.Tech. - Food Technology	FPT 114 (A)	Principles of Food Science and Preservation
183	M.Tech. - Food Technology	FPT 114 (B)	Plantation Crops, Spices & Condiment Technology
184	M.Tech. - Food Technology	FPT 114 (C)	Functional Foods and Nutraceuticals
185	M.Tech. - Food Technology	FPT121	Food Process Engineering - I
186	M.Tech. - Food Technology	FPT122	Food Process Engineering - II
187	M.Tech. - Food Technology	FPT123	Professional Elective - III
188	M.Tech. - Food Technology	FPT124	Professional Elective - IV
189	M.Tech. - Food Technology	FPT125	Food Standards and Regulations
190	M.Tech. - Food Technology	FPT126	Food Processing Lab
191	M.Tech. - Food Technology	FPT127	Seminar
192	M.Tech. - Food Technology	FPT128	English for research paper writing
193	M.Tech. - Food Technology	FPT211	MOOCs - I
194	M.Tech. - Food Technology	FPT212	MOOCs - II
195	M.Tech. - Food Technology	FPT213	Dissertation Phase - I
196	M.Tech. - Food Technology	FPT221	Dissertation Phase - II
197	M.Tech. - Food Technology	FPT 123 (A)	Novel Food Packaging Technology
198	M.Tech. - Food Technology	FPT 123 (B)	Applied Mathematics in Food Processing
199	M.Tech. - Food Technology	FPT 123 (C)	Post Harvest Technology and Cold Chain Management

S.No.	Name of the Program	New courses introduced	
		Course code	Course Name
200	M.Tech. - Food Technology	FPT 124 (A)	Dairy and Aquaculture Technology
201	M.Tech. - Food Technology	FPT 124 (B)	Beverage and Snack Food Technology
202	M.Tech. - Food Technology	FPT 124 (C)	Bakery and Confectionery Technology
203	M.Tech. - Computer Science and Engineering (Data Science)	MTDS111	Mathematical Foundations for Computer Science
204	M.Tech. - Computer Science and Engineering (Data Science)	MTDS112	Data warehousing and Data Mining
205	M.Tech. - Computer Science and Engineering (Data Science)	MTDS113-1	Data Pre-processing & Analysis
206	M.Tech. - Computer Science and Engineering (Data Science)	MTDS113-2	Artificial Intelligence
207	M.Tech. - Computer Science and Engineering (Data Science)	MTDS113-3	Information Security
208	M.Tech. - Computer Science and Engineering (Data Science)	MTDS114-1	Big Data Analytics
209	M.Tech. - Computer Science and Engineering (Data Science)	MTDS114-2	Data Visualization
210	M.Tech. - Computer Science and Engineering (Data Science)	MTDS114-3	Neural Networks
211	M.Tech. - Computer Science and Engineering (Data Science)	MTDS115	Research Methodologies & IPR
212	M.Tech. - Computer Science and Engineering (Data Science)	MTDS116	Audit Course-1
213	M.Tech. - Computer Science and Engineering (Data Science)	MTDS117	Knowledge Engineering -Lab
214	M.Tech. - Computer Science and Engineering (Data Science)	MTDS118	Elective- Lab
215	M.Tech. - Computer Science and Engineering (Data Science)	MTDS121	Machine Learning with R
216	M.Tech. - Computer Science and Engineering (Data Science)	MTDS122	Soft Computing Techniques
217	M.Tech. - Computer Science and Engineering (Data Science)	MTDS123-1	Advanced Web Technologies
218	M.Tech. - Computer Science and Engineering (Data Science)	MTDS123-2	Principles of Deep Learning
219	M.Tech. - Computer Science and Engineering (Data Science)	MTDS123-3	Natural Language Processing
220	M.Tech. - Computer Science and Engineering (Data Science)	MTDS124-1	Text analytics
221	M.Tech. - Computer Science and Engineering (Data Science)	MTDS124-2	Internet of Things
222	M.Tech. - Computer Science and Engineering (Data Science)	MTDS124-3	NoSQL
223	M.Tech. - Computer Science and Engineering (Data Science)	MTDS125	Audit Course-2
224	M.Tech. - Computer Science and Engineering (Data Science)	MTDS126	Machine learning with R -Lab

S.No.	Name of the Program	New courses introduced	
		Course code	Course Name
225	M.Tech. - Computer Science and Engineering (Data Science)	MTDS127	Elective- Lab
226	M.Tech. - Computer Science and Engineering (Data Science)	MTDS128	Mini Project with seminar
227	M.Tech. - Computer Science and Engineering (Data Science)	MTDS211	Moocs-1
228	M.Tech. - Computer Science and Engineering (Data Science)	MTDS212	Moocs-2
229	M.Tech. - Computer Science and Engineering (Data Science)	MTDS213	Dissertation –I/ Industrial project
230	M.Tech. - Computer Science and Engineering (Data Science)	MTDS221	Dissertation –II
231	M.Tech. - VLSI	MTVES111	Reconfigurable System Design
232	M.Tech. - VLSI	MTVES112	Embedded Systems and IoT applications
233	M.Tech. - VLSI	MTVES113	Microsystems-Materials, Processes and Devices
234	M.Tech. - VLSI	MTVES114-1	Analog And Mixed Signal VLSI Circuits
235	M.Tech. - VLSI	MTVES114-2	Introduction to CAD for VLSI
236	M.Tech. - VLSI	MTVES114-3	Digital VLSI Design
237	M.Tech. - VLSI	MTVES114-4	ASIC Design
238	M.Tech. - VLSI	MTVES115	Research Methodology and IPR
239	M.Tech. - VLSI	MTVES116	IOT Applications LAB
240	M.Tech. - VLSI	MTVES117	Reconfigurable system design lab
241	M.Tech. - VLSI	MTVES118	Audit I
242	M.Tech. - VLSI	MTVES121	Low Power VLSI Design
243	M.Tech. - VLSI	MTVES122	VLSI Digital Signal Processing
244	M.Tech. - VLSI	MTVES123	MOS Device Modelling
245	M.Tech. - VLSI	MTVES124-1	Embedded Control Systems
246	M.Tech. - VLSI	MTVES124-2	Real Time Operating Systems
247	M.Tech. - VLSI	MTVES124-3	Embedded Computing Systems
248	M.Tech. - VLSI	MTVES124-4	Embedded Automotive Systems Networking
249	M.Tech. - VLSI	MTVES125-1	VLSI for wireless communications
250	M.Tech. - VLSI	MTVES125-2	Design for Testability
251	M.Tech. - VLSI	MTVES125-3	Testing and Verification of VLSI Circuits
252	M.Tech. - VLSI	MTVES125-4	Hardware Security

S.No.	Name of the Program	New courses introduced	
		Course code	Course Name
253	M.Tech. - VLSI	MTVES126-1	ASIC lab
254	M.Tech. - VLSI	MTVES126-2	Device Modelling Lab
255	M.Tech. - VLSI	MTVES126-3	Analog IC Design Lab
256	M.Tech. - VLSI	MTVES127	Audit II
257	M.Tech. - VLSI	MTVES211	Project phase I
258	M.Tech. - VLSI	MTVES212	SEMINAR
259	M.Tech. - VLSI	MTVES213	MOOC 1
260	M.Tech. - VLSI	MTVES214	MOOC 2
261	M.Tech. - VLSI	MTVES221	Project phase II

R. Shikha
Convener, IQAC
Anil Neerukonda Institute of
Technology & Sciences
Sangivalasa-531 162
Visakhapatnam Dist.

[Signature]
Principal
Anil Neerukonda Institute of
Technology & Sciences
Sangivalasa- 531 162
Visakhapatnam Dist



ANIL NEERUKONDA INSTITUTE OF TECHNOLOGY & SCIENCES (Autonomous)

(Affiliated to AU, Approved by AICTE & Accredited by NBA & NAAC)
Sangivalasa - 531 162, Bheemunipatnam (Mandal), Visakhapatnam (District)
Phones : 08933 - 225083, 225084, 9154220250.

Website : www.anits.edu.in

e-mail : principal@anits.edu.in

List of new courses introduced during the AY 2020-2021

S.No.	Name of the Program	New courses introduced	
		Course code	Course Name
1	B.Tech. - Chemical Engineering	CHE 415 (C)	Nanotechnology
2	B.Tech. - Civil Engineering	CIV212	Building Planning and Drawing
3	B.Tech. - Computer Science and Engineering	CSE216	Design Thinking & Product Innovation
4	B.Tech. - Information Technology	IT215	Microprocessors
5	B.Tech. - Information Technology	IT217	Microprocessor Lab
6	B.Tech. - Mechanical Engineering	MEC225	Metal Cutting, Machine tools and Metrology
7	B.Tech. - Mechanical Engineering	MEC222	Basic Electrical Engineering
8	B.Tech. - Mechanical Engineering	MEC228	Basic Electrical engineering-lab

R. Seikanta
Convener, IQAC
Anil Neerukonda Institute of
Technology & Sciences
Sangivalasa-531 162
Visakhapatnam Dist.

aw
Anil Neerukonda Institute of
Technology & Sciences
Sangivalasa- 531 162
Visakhapatnam Dist



ANIL NEERUKONDA INSTITUTE OF TECHNOLOGY & SCIENCES (Autonomous)

(Affiliated to AU, Approved by AICTE & Accredited by NBA & NAAC)
Sangivalasa - 531 162, Bheemunipatnam (Mandal), Visakhapatnam (District)
Phones : 08933 - 225083, 225084, 9154220250.

Website : www.anits.edu.in

e-mail : principal@anits.edu.in

List of new courses introduced during the AY 2019-2020

S.No.	Name of the Program	New courses introduced	
		Course code	Course Name
1	B.Tech. - Chemical Engineering	CHE213	Biology for Engineers
2	B.Tech. - Civil Engineering	CIV114	Building Technology
3	B.Tech. - Computer Science and Engineering	CSE115	Problem Solving with C
4	B.Tech. - Computer Science and Engineering	CSE117	Problem Solving with C Lab
5	B.Tech. - Electrical and Electronics Engineering	EEE114	FUNDAMENTALS OF ELECTRICAL ENGINEERING
6	B.Tech. - Electronics and Communication Engineering	ECE125	Basic Electronics Engineering
7	B.Tech. - Information Technology	IT114	Fundamentals of Information Technology
8	B.Tech. - Information Technology	IT129	(Mandatory non-credit course)
9	B.Tech. - Information Technology	IT115	Problem solving with C
10	B.Tech. - Information Technology	IT117	Problem solving with C Lab
11	B.Tech. - Mechanical Engineering	MEC114	Biology for Engineers
12	B.Tech. - Mechanical Engineering	MEC124	Basic Electronics Engineering
13	B.Tech. - Mechanical Engineering	MEC125	Problem Solving with C
14	B.Tech. - Mechanical Engineering	MEC127	Problem solving with C Lab
15	B.Tech. - Mechanical Engineering	MECMD117	Research Methodology
16	B.Tech. - Mechanical Engineering	MECMD128	Seminar-II


Convener, IQAC
Anil Neerukonda Institute of
Technology & Sciences
Sangivalasa-531 162
Visakhapatnam Dist.


Principal
Anil Neerukonda Institute of
Technology & Sciences
Sangivalasa- 531 162
Visakhapatnam Dist



ANIL NEERUKONDA INSTITUTE OF TECHNOLOGY & SCIENCES (Autonomous)

(Affiliated to AU, Approved by AICTE & Accredited by NBA & NAAC)

Sangivalasa - 531 162, Bheemunipatnam (Mandal), Visakhapatnam (District)

Phones : 08933 - 225083, 225084, 9154220250.

Website : www.anits.edu.in

e-mail : principal@anits.edu.in

List of new courses introduced during the AY 2018-2019

S.No.	Name of the Program	New courses introduced	
		Course code	Course Name
1	B.Tech. - Civil Engineering	CIV423	Engineering Economics and Finance
2	B.Tech. - Civil Engineering	CIV419	Project work-I
3	B.Tech. - Computer Science and Engineering	CSE414A	Mobile Computing
4	B.Tech. - Computer Science and Engineering	CSE414C	Neural Networks & Deep Learning
5	B.Tech. - Computer Science and Engineering	CSE414D	Human Computer Interaction
6	B.Tech. - Computer Science and Engineering	CSE414E	Pattern Recognition
7	B.Tech. - Computer Science and Engineering	CSE415A	Computer Vision
8	B.Tech. - Computer Science and Engineering	CSE415D	Machine Learning
9	B.Tech. - Computer Science and Engineering	CSE415E	Cyber Security
10	B.Tech. - Computer Science and Engineering	CSE416	Cryptography & Network Security Lab
11	B.Tech. - Computer Science and Engineering	CSE418	Project 1
12	B.Tech. - Computer Science and Engineering	CSE421A	Client Server Computing
13	B.Tech. - Computer Science and Engineering	CSE421B	Augmented Reality
14	B.Tech. - Computer Science and Engineering	CSE421C	Semantic Web
15	B.Tech. - Computer Science and Engineering	CSE421D	Big Data Analytics
16	B.Tech. - Computer Science and Engineering	CSE421E	Information Security & Auditing
17	B.Tech. - Computer Science and Engineering	CSE421F	Social Network Analysis
18	B.Tech. - Computer Science and Engineering	CSE422A	Network Management
19	B.Tech. - Computer Science and Engineering	CSE422B	Fuzzy Computing

S.No.	Name of the Program	New courses introduced	
		Course code	Course Name
20	B.Tech. - Computer Science and Engineering	CSE422C	Wireless Sensor Networks
21	B.Tech. - Computer Science and Engineering	CSE422D	Cloud Computing
22	B.Tech. - Computer Science and Engineering	CSE422A	MOOC
23	B.Tech. - Electrical and Electronics Engineering	EEE415	POWER SEMICONDUCTOR DRIVES AND AUTOMATION
24	B.Tech. - Electrical and Electronics Engineering	EEE421	ENGINEERING ECONOMICS AND MANAGEMENT
25	B.Tech. - Electrical and Electronics Engineering	EEE423	ENERGY CONTROL AND MANAGEMENT
26	B.Tech. - Information Technology	IT413	Data Analytics
27	B.Tech. - Information Technology	IT414-1	Artificial Intelligence and Robotics
28	B.Tech. - Information Technology	IT414-2	Parallel computing
29	B.Tech. - Information Technology	IT414-3	Data Ware Housing And Mining
30	B.Tech. - Information Technology	IT414-4	Software Project Management
31	B.Tech. - Information Technology	IT415-1	Machine Learning
32	B.Tech. - Information Technology	IT415-2	Storage Area Networks
33	B.Tech. - Information Technology	IT415-3	User Experience (Ux)
34	B.Tech. - Information Technology	IT415-4	Intellectual property right & patents
35	B.Tech. - Information Technology	IT416	Analytics Lab
36	B.Tech. - Information Technology	IT417	Network Security Lab
37	B.Tech. - Information Technology	IT421-1	Soft computing
38	B.Tech. - Information Technology	IT421-2	Cognitive computing
39	B.Tech. - Information Technology	IT421-3	Cloud computing
40	B.Tech. - Information Technology	IT421-4	E commerce
41	B.Tech. - Information Technology	IT422-1	Image Processing
42	B.Tech. - Information Technology	IT422-2	Cyber Security
43	B.Tech. - Information Technology	IT422-3	Enterprise Resource Planning
44	B.Tech. - Information Technology	IT422-4	Internet of Things

S.No.	Name of the Program	New courses introduced	
		Course code	Course Name
45	B.Tech. - Information Technology	IT424	Massive Open Online Course
46	B.Tech. - Mechanical Engineering	MEC415-B	Product Design and Manufacturing
47	B.Tech. - Mechanical Engineering	MEC416-D	Entrepreneurship Development
48	B.Tech. - Mechanical Engineering	MEC416-E	Nano Technology
49	B.Tech. - Mechanical Engineering	MEC420	Project Phase-I
50	B.Tech. - Mechanical Engineering	MEC422-B	Condition Monitoring
51	B.Tech. - Mechanical Engineering	MEC424	MOOCS


 Convenor, IQAC
 Anil Neerukonda Institute of
 Technology & Sciences
 Sangivalasa-531 162
 Visakhapatnam Dist.


 Principal
 Anil Neerukonda Institute of
 Technology & Sciences
 Sangivalasa- 531 162
 Visakhapatnam Dist



ANIL NEERUKONDA INSTITUTE OF TECHNOLOGY & SCIENCES (Autonomous)

(Affiliated to AU, Approved by AICTE & Accredited by NBA & NAAC)
Sangivalasa - 531 162, Bheemunipatnam (Mandal), Visakhapatnam (District)
Phones : 08933 - 225083, 225084, 9154220250.

Website : www.anits.edu.in

e-mail : principal@anits.edu.in

List of new courses introduced during the AY 2017-2018

S.No.	Name of the Program	New courses Introduced	
		Course code	Course Name
1	B.Tech. - Civil Engineering	CIV328	Computer applications in Civil Engineering lab – I
2	B.Tech. - Civil Engineering	CIV3111	Technical Seminar
3	B.Tech. - Civil Engineering	CIV311-B	Building Planning and Construction
4	B.Tech. - Civil Engineering	CIV311-A	Basic Civil Engineering
5	B.Tech. - Computer Science and Engineering	CSE311(A)	File Systems & Data Bases
6	B.Tech. - Computer Science and Engineering	CSE311(B)	Computer Operating Systems
7	B.Tech. - Computer Science and Engineering	CSE311(C)	Fundamentals of Computer Networks
8	B.Tech. - Computer Science and Engineering	CSE317	Computer Network Lab
9	B.Tech. - Computer Science and Engineering	CSE325A	Smart Systems Design & Programming
10	B.Tech. - Computer Science and Engineering	CSE325B	High Performance Computing
11	B.Tech. - Computer Science and Engineering	CSE325D	Advanced Data Structures
12	B.Tech. - Computer Science and Engineering	CSE325F	NoSQL DATA BASES
13	B.Tech. - Computer Science and Engineering	CSE326	Open Source Technologies Lab
14	B.Tech. - Computer Science and Engineering	CSE319	Quantative & Verbal Aptitude I
15	B.Tech. - Electrical and Electronics Engineering	EEE312	DATA STRUCTURES,
16	B.Tech. - Electrical and Electronics Engineering	EEE324	Performance of Induction and Synchronous Machines
17	B.Tech. - Electronics and Communication Engineering	ECE 311 (a)	Introduction to Embedded Systems
18	B.Tech. - Information Technology	IT313	Unix Network Programming
19	B.Tech. - Information Technology	IT316	Database Management Systems Lab

S.No.	Name of the Program	New courses Introduced	
		Course code	Course Name
20	B.Tech. - Information Technology	IT317	Unix Network Programming Lab
21	B.Tech. - Information Technology	IT323	Object Oriented Analysis and design with uml
22	B.Tech. - Information Technology	IT324	Mobile Computing and Application
23	B.Tech. - Information Technology	IT325-1	Distributed Operating Systems
24	B.Tech. - Information Technology	IT325-2	Technology management
25	B.Tech. - Information Technology	IT325-3	Software Testing and Automation
26	B.Tech. - Information Technology	IT325-4	Client Server Technologies
27	B.Tech. - Information Technology	IT326	Mobile Computing and Application Development Lab
28	B.Tech. - Information Technology	IT327	Web based open source technologies
29	B.Tech. - Information Technology	IT328	Computer Aided Software Engineering tools Lab
30	B.Tech. - Mechanical Engineering	MEC311-1	Robotics (Open Elective)
31	B.Tech. - Mechanical Engineering	MEC311-2	Computer Aided Design (Open Elective)
32	B.Tech. - Mechanical Engineering	MEC319	Verbal and Quantitative Aptitude-II
33	B.Tech. - Mechanical Engineering	MEC326-B	Automation in Manufacturing
34	B.Tech. - Mechanical Engineering	MEC326-C	Advanced Mechanics of Solids
35	B.Tech. - Mechanical Engineering	MEC326-E	rapid Prototyping
36	B.Tech. - Mechanical Engineering	MEC329	Verbal and Quantitative Aptitude-II

R. Seikartha
Convener, IQAC
 Anil Neerukonda Institute of
 Technology & Sciences
 Sangivalasa-531 162
 Visakhapatnam Dist.


Principal
 Anil Neerukonda Institute of
 Technology & Sciences
 Sangivalasa- 531 162
 Visakhapatnam Dist

Board of Studies

(BOS)

AY 2021-22



ANIL NEERUKONDA INSTITUTE OF TECHNOLOGY & SCIENCES
(UGC AUTONOMOUS)
(Affiliated to AU, Approved by AICTE & Accredited by NBA & NAAC with 'A' Grade))
Sangivalasa 531 162, Bheemunipatnam Mandal, Visakhapatnam Dist

DEPARTMENT OF CHEMICAL ENGINEERING

19-06-2021

Minutes of the meeting of the Board of Studies, Department of Chemical engineering (UG) held on 19-06-2021 at 10.00 AM through online (Google Meet platform).

Members present:

1. Dr. Ch. Anil
2. Prof. S. Subba Rao
3. Prof. R. Srikanth
4. Prof. P.S.T. Sai
5. Prof S. V. Naidu

Chairman, BOS, Chemical Engineering
Member
Member
Member, Academic council nominee
Member, Andhra University nominee

Resolutions:

Chairman welcomed all the members for the BoS meeting.

- 1) The Syllabi for III/IV B. Tech. Chemical Engineering I and II Semesters under R-19 regulations are discussed and the experts felt satisfactory about the same. Prof. PST Sai suggested to include manufacturing of industrial gases like oxygen in Chemical Technology course. The committee accepted to implement the same in Unit - I. They have suggested a few changes which are represented in Table below.

S. No.	Name of the course (R-19)	% Change from previous regulations (R-15)	Remarks
1.	Open elective - I Food processing Technology	0	No Changes are made
2.	Open elective - I Engineering Biology	0	No Changes are made
3.	Open elective - I Fuel Cell Technology	0	No Changes are made
4.	Open elective - I Design of experiments	0	No Changes are made
5.	Chemical Engineering Thermodynamics - II	0	No Changes are made
6.	Heat Transfer	0	No Changes are made
7.	Mass Transfer - I	0	No Changes are made
8.	Chemical Technology	10	New topics are added
9.	Professional Elective - II	100	New Course is

	Industrial Safety			Introduced for Chemical Engineers
10.	Professional Elective - II Fertilizer Technology	0		No Changes are made
11.	Professional Elective - II Pharmaceutical Technology	0		No Changes are made
12.	Open elective - II Fundamentals of Industrial Safety and Health	100		Syllabus is modified and generalized, to be applicable for engineers
13.	Open elective - II Bioinformatics	0		No Changes are made
14.	Open elective - II Corrosion Engineering	0		No Changes are made
15.	Open elective - II Computational tools for engineers	0		No Changes are made
16.	Mass Transfer - II	0		No Changes are made
17.	Chemical Reaction Engineering - I	0		No Changes are made
18.	Process Dynamics and Control	10		Few topics are modified and units are rearranged.
19.	Professional Elective - III Industrial Pollution and Control	0		No Changes are made
20.	Professional Elective - III Membrane Technology	0		No Changes are made
21.	Professional Elective - III Catalysis	0		No Changes are made
22.	Professional Elective - IV Material Science and Engineering	0		Core course is converted to Elective course
23.	Professional Elective - IV Petroleum Refinery Engineering	0		No Changes are made
24.	Energy Engineering	0		No Changes are made

2) The Syllabi for II/IV B. Tech. Chemical Engineering I and II Semesters under R-20 regulations are discussed and the experts felt satisfactory about the same. They have suggested a few changes which are represented in Table below.

S. No.	Name of the course (R-20)	% Change from previous regulations (R-19)	Remarks
1.	Biology for Engineers	0	No Changes are made
2.	Chemical Process Calculations	0	No Changes are made
3.	Mechanical Operations	0	No Changes are made
4.	Humanities elective Industrial Management	0	Earlier the course is offered as an elective in final year in R-15
5.	Humanities elective Managerial economics and Financial Analysis	100	New course is introduced
6.	Humanities elective Operations Research	100	New course is introduced
7.	Engineering Thermodynamics	0	No Changes are made
8.	Momentum Transfer	0	No Changes are made
9.	Numerical Methods for Chemical Engineers	0	No Changes are made
10.	Professional Elective - I Polymer Technology	0	No Changes are made
11.	Professional Elective - I Entrepreneurship Engineering	0	No Changes are made
12.	Professional Elective - I Design Thinking	0	No Changes are made

3) Prof. S. V. Naidu suggested to update the text book for Chemical Process Calculations course such that the unit system will be in SI. The committee accepted to change the text book for Chemical Process Calculations authored by KV Narayanan.

4) Prof. P.S.T. Sai suggested to use MATLAB tool instead of Python in computational laboratory. Dr. Ch. Anil informed that Python is introduced in laboratory to improve the coding skills and this helps students to get placed in software companies especially for girl students. Dr. Ch. Anil also added that students are also being trained in MATLAB in 3rd year for one week by the faculty of the department.

5) The policies for Minor and Honors degree under R-20 regulations were discussed. As suggested by APSCHE any student from other engineering background (except Chemical Engineering) can opt for Minor and only Chemical Engineering background students can opt for Honors. Student can opt for Minor / Honors in Chemical Engineering from 2nd year 2nd semester, if and only if the student scores more than 8 CGPA upto 2nd year 1st semester and without any backlogs throughout the engineering program. Students has to select one pool from the 4 pools in Honors degree in Chemical Engineering. Number of credits required to get Minor / Honors degree in Chemical Engineering is 20 credits, in which 16 credits will be earned through 4 courses in college and 4 credits will be earned through 2 MOOCs courses. Courses offered during the semester and MOOCs courses to be studied will be finalized by the internal BoS at the time of requirement.

6) The Syllabi for Minor and Honors degree which are newly introduced under R-20 regulations are discussed and the experts felt satisfactory about the same. Prof. PST Sai suggested to change the titles of a few Minor courses. The committee accepted to change the titles of Mechanical Operations to Particle Technology and Mass Transfer to Separation Technology. Prof. S. V. Naidu suggested to replace the Environmental Engineering pool in Honors with Advanced Chemical Engineering courses. The committee accepted to add the courses like Advanced Heat Transfer, Advanced Separation Technology, Advanced Mass Transfer and Advanced Process Control in the Advanced Chemical Engineering Pool. The updated list is presented in the below table.

Course Code	Course	L-T-P	Credit
Minor			
CHE 511 M	Chemical Process Calculation	3-1-0	4
CHE 512 M	Particle Technology	3-1-0	4
CHE 513 M	Momentum Transfer	3-1-0	4
CHE 514 M	Heat Transfer	3-1-0	4
CHE 515 M	Separation Technology	3-1-0	4
CHE 516 M	Chemical Reaction Engineering	3-1-0	4
	MOOCS - I		2
	MOOCS - II		2

The courses that are offered for B. Tech. (Honors) in Chemical Engineering are

Course Code	Course	L-T-P	Credit
Pool 1: Advanced Chemical Engineering			
CHE 611 H	Advanced Heat Transfer	3-1-0	4
CHE 612 H	Advanced Separation Technology	3-1-0	4
CHE 613 H	Advanced Reaction Engineering	3-1-0	4
CHE 614 H	Advanced Process Control	3-1-0	4
	MOOCs - I		2
	MOOCs - II		2

Course Code	Course	L-T-P	Credit
Pool 2: Pharmaceutical Technology			
CHE 621 H	Pharmaceutical Technology	3-1-0	4
CHE 622 H	Pharmaceutical Kinetics	3-1-0	4
CHE 623 H	Pharmaceutical Analysis	3-1-0	4
CHE 624 H	Pharmaceutical Biotechnology	3-1-0	4
	MOOCs - I		2
	MOOCs - II		2

Course Code	Course	L-T-P	Credit
Pool 3: Biochemical Engineering			
CHE 631 H	Biochemistry and Microbiology	3-1-0	4
CHE 632 H	Bioprocess Engineering	3-1-0	4
CHE 633 H	Bioseparation Technology	3-1-0	4
CHE 634 H	Bioanalytical Techniques	3-1-0	4
	MOOCs - I		2
	MOOCs - II		2

Course Code	Course	L-T-P	Credit
Pool 4: Industrial Safety			
CHE 641 H	Principles of Safety Management		
CHE 642 H	Chemical Process Safety	3-1-0	4
CHE 643 H	Environmental Issues and Management	3-1-0	4
CHE 644 H	Hazard Identification and Risk Assessment	3-1-0	4
	MOOCs - I		2
	MOOCs - II		2

With these modifications, the committee approved the 3rd year syllabus under R-19, 2nd year syllabus under R-20 and Minor and Honors degree programs under R-20 regulations.

Ch. Anil

(Dr. Ch. Anil)
Chairman, BOS

HEAD,
DEPARTMENT OF CHEMICAL
ENGINEERING

R. Subbarath
Convener, IQAC
Anil Neerukonda Institute of
Technology & Sciences
Sangivalasa-531 162
Visakhapatnam Dist.

AS
Principal
Anil Neerukonda Institute of
Technology & Sciences
Sangivalasa- 531 162
Visakhapatnam Dist



ANIL NEERUKONDA INSTITUTE OF TECHNOLOGY & SCIENCES
(UGC AUTONOMOUS)
(Affiliated to AU, Approved by AICTE & Accredited by NBA & NAAC with 'A' Grade))
Sangivalasa 531 162, Bheemunipatnam Mandal, Visakhapatnam Dist

DEPARTMENT OF CHEMICAL ENGINEERING

04-09-2021

Minutes of the meeting of the Board of Studies, Department of Chemical engineering (PG) held on 04-09-2021 at 10.00 AM through online (Google Meet platform).

Members present:

1. Prof. S. Subba Rao
2. Prof. R. Srikanth
3. Prof. V. Sridevi
4. Prof. P.S.T. Sai
5. Prof S. V. Naidu
6. Prof. Kavita W
7. Dr. Ch. Anil

Member *MA*
Member *RS*
Member *Sridevi*
Member, Academic council nominee
Member, Andhra University nominee
Member, Academic council nominee
Chairman, BOS, Chemical Engineering *Ch. Anil*

Resolutions:

Chairman welcomed all the members for the BoS meeting.

- 1) The Course structure for M. Tech. Food Processing Technology under R-20 regulations with effective from 2021-22 is discussed. Prof. S. V. Naidu suggested the following changes to the curriculum.

(i) Food Biochemistry course in I year II semester is interchanged with Food Process Engineering - I Course in I year I Semester as the laboratory course related to Food Biochemistry is in I semester.

(ii) Applied Mathematics in Food Processing mandatory course is interchanged with Food Standards and Regulations elective course in I year II Semester. Now, the Applied Mathematics in Food Processing course is converted into elective course and Food Standards and Regulations course is converted to mandatory course.

(iii) 2 credit Seminar course in II year I semester is divided into two 1 credit courses and are placed in I year I semester and I year II semester.

(iv) Prof. PST Sai appreciated the structure as the complete II year gives flexibility to do industry projects for the entire year.

- 2) The Syllabi of M. Tech. Food Processing Technology is reviewed and the following changes are suggested by the experts.

(i) Prof. Kavita W suggested to include the FSSAI topic in Food Standards and Regulations course.

(ii) Prof. Kavita W suggested to elaborate the syllabus of Functional Foods and Nutraceuticals course and Dairy and Aquaculture Technology course.

(iii) Prof. Kavita W suggested to mention experiments in detail in Food Microbiology and Food Biochemistry Laboratory course.

(iv) Prof. S.V. Naidu suggested to reduce the syllabus of Applied Mathematics in Food Processing as many students will be from Science background.

All the courses are newly introduced in this programme and are inline with the AICTE curriculum. With these modifications, the committee approved the M. Tech. Food Processing Technology under R-20 regulations.

The ratified structure of M. Tech. Food Processing Technology is

M. Tech. Food Processing Technology

R-20 regulations w.e.f. 2021-22 admitted batch

I Year – I Semester										
Code	Title of the Course	Category	L	T	P	Total	Max. Marks		Total Marks	Credits
							Sess.	End Exam.		
FPT111	Food Microbiology	PC	3	0	0	3	40	60	100	3
FPT112	Food Biochemistry	PC	3	0	0	3	40	60	100	3
FPT113	Professional Elective - I	PE	3	0	0	3	40	60	100	3
FPT114	Professional Elective - II	PE	3	0	0	3	40	60	100	3
FPT115	Research Methodology and IPR	MC	3	0	0	3	40	60	100	3
FPT116	Food Microbiology and Biochemistry Lab	PC	0	0	3	3	50	50	100	2
FPT117	Seminar - I	SC	0	0	2	2	100	-	100	1
FPT118	Human Values and Professional Ethics	Audit	2	0	0	2	40	0	40	0
Total			17	0	5	22	390	350	740	18

Professional Elective - I

FPT 113 (A): Plant Food Technology

FPT 113 (B): Animal Product Technology

FPT 113 (C): Instrumentation and Control in Food Industry

Professional Elective - II

FPT 114 (A): Principles of Food Science and Preservation

FPT 114 (B): Plantation Crops, Spices & Condiment Technology

FPT 114 (C): Functional Foods and Nutraceuticals

I Year - II Semester										
Code	Title of the Course	Category	L	T	P	Total	Max. Marks		Total Marks	Credits
							Sess.	End Exam.		
FPT121	Food Process Engineering - I	PC	3	0	0	3	40	60	100	3
FPT122	Food Process Engineering - II	PC	3	0	0	3	40	60	100	3
FPT123	Professional Elective - III	PE	3	0	0	3	40	60	100	3
FPT124	Professional Elective - IV	PE	3	0	0	3	40	60	100	3
FPT125	Food Standards and Regulations	MC	3	0	0	3	40	60	100	3
FPT126	Food Processing Lab	PC	0	0	3	3	50	50	100	2
FPT127	Seminar - II	SC	0	0	2	2	100	-	100	1
FPT128	English for research paper writing	Audit	2	0	0	2	40	0	40	0
Total			17	0	5	22	390	350	740	18

Professional Elective - III

FPT 123 (A): Novel Food Packaging Technology
 FPT 123 (B): Applied Mathematics in Food Processing
 FPT 123 (C): Post Harvest Technology and Cold Chain Management

Professional Elective - IV

FPT 124 (A): Dairy and Aquaculture Technology
 FPT 124 (B): Beverage and Snack Food Technology
 FPT 124 (C): Bakery and Confectionery Technology

II Year - I Semester										
Code	Title of the Course	Category	L	T	P	Total	Max. Marks		Total Marks	Credits
							Sess.	End Exam.		
FPT211	MOOCs - I	OE	0	0	0	0	100	-	100	3
FPT212	MOOCs - II	OE	0	0	0	0	100	-	100	3
FPT213	Dissertation Phase - I	PR	0	0	20	20	100	-	100	10
Total			0	0	20	20	300	-	300	16

MOOCs - I and II courses can be selected based on their Dissertation topic / students interest.

II Year - II Semester										
Code	Title of the Course	Category	L	T	P	Total	Max. Marks		Total Marks	Credits
							Sess.	End Exam.		
FPT221	Dissertation Phase - II	PR	0	0	32	32	100	100	200	16
Total			0	0	32	32	100	100	200	16

Ch. Anil
 (Dr. Ch. Anil)
 Chairman, BOS

HEAD,
 DEPARTMENT OF CHEMICAL
 ENGINEERING



ANIL NEERUKONDA INSTITUTE OF TECHNOLOGY & SCIENCES
 (UGC AUTONOMOUS)
 (Affiliated to AU, Approved by AICTE & Accredited by NBA & NAAC with 'A' Grade))
 Sangivalasa 531 162, Bheemunipatnam Mandal, Visakhapatnam Dist

DEPARTMENT OF CHEMICAL ENGINEERING

M. Tech. Food Processing Technology

R-20 regulations w.e.f. 2021-22 admitted batch

I Year – I Semester										
Code	Title of the Course	Category	L	T	P	Total	Max. Marks		Total Marks	Credits
							Sess.	End Exam.		
FPT111	Food Microbiology	PC	3	0	0	3	40	60	100	3
FPT112	Food Biochemistry	PC	3	0	0	3	40	60	100	3
FPT113	Professional Elective - I	PE	3	0	0	3	40	60	100	3
FPT114	Professional Elective - II	PE	3	0	0	3	40	60	100	3
FPT115	Research Methodology and IPR	MC	3	0	0	3	40	60	100	3
FPT116	Food Microbiology and Biochemistry Lab	PC	0	0	3	3	50	50	100	2
FPT117	Seminar - I	SC	0	0	2	2	100	-	100	1
FPT118	Human Values and Professional Ethics	Audit	2	0	0	2	40	0	40	0
Total			17	0	5	22	390	350	740	18

Professional Elective - I

FPT 113 (A): Plant Food Technology

FPT 113 (B): Animal Product Technology

FPT 113 (C): Instrumentation and Control in Food Industry

Professional Elective - II

FPT 114 (A): Principles of Food Science and Preservation

FPT 114 (B): Plantation Crops, Spices & Condiment Technology

FPT 114 (C): Functional Foods and Nutraceuticals

I Year – II Semester										
Code	Title of the Course	Category	L	T	P	Total	Max. Marks		Total Marks	Credits
							Sess.	End Exam.		
FPT121	Food Process Engineering - I	PC	3	0	0	3	40	60	100	3
FPT122	Food Process Engineering - II	PC	3	0	0	3	40	60	100	3
FPT123	Professional Elective - III	PE	3	0	0	3	40	60	100	3
FPT124	Professional Elective - IV	PE	3	0	0	3	40	60	100	3
FPT125	Food Standards and Regulations	MC	3	0	0	3	40	60	100	3
FPT126	Food Processing Lab	PC	0	0	3	3	50	50	100	2
FPT127	Seminar - II	SC	0	0	2	2	100	-	100	1
FPT128	English for research paper writing	Audit	2	0	0	2	40	0	40	0
Total			17	0	5	22	390	350	740	18

Professional Elective - III

FPT 123 (A): Novel Food Packaging Technology

FPT 123 (B): Applied Mathematics in Food Processing

FPT 123 (C): Post Harvest Technology and Cold Chain Management

Professional Elective - IV

FPT 124 (A): Dairy and Aquaculture Technology

FPT 124 (B): Beverage and Snack Food Technology

FPT 124 (C): Bakery and Confectionery Technology

II Year - I Semester										
Code	Title of the Course	Category	L	T	P	Total	Max. Marks		Total Marks	Credits
							Sess.	End Exam.		
FPT211	MOOCs - I	OE	0	0	0	0	100	-	100	3
FPT212	MOOCs - II	OE	0	0	0	0	100	-	100	3
FPT213	Dissertation Phase - I	PR	0	0	20	20	100	-	100	10
Total			0	0	20	20	300	-	300	16

MOOCs - I and II courses can be selected based on their Dissertation topic / students interest.

II Year - II Semester										
Code	Title of the Course	Category	L	T	P	Total	Max. Marks		Total Marks	Credits
							Sess.	End Exam.		
FPT221	Dissertation Phase - II	PR	0	0	32	32	100	100	200	16
Total			0	0	32	32	100	100	200	16

R. Srikanta
Convener, IQAC
 Anil Neerukonda Institute of
 Technology & Sciences
 Sangivalasa-531 162
 Visakhapatnam Dist.

ae
Principal
 Anil Neerukonda Institute of
 Technology & Sciences
 Sangivalasa- 531 162
 Visakhapatnam Dist

G. Anil
HEAD,
DEPARTMENT OF CHEMICAL
ENGINEERING



Date: 19.06.2021

Minutes of BoS Meeting (Online via Googlemeet) held on 19th
June, 2021

Members Present:

- | | |
|----------------------------------|--|
| 1. Dr. B V S Viswanadham | Professor, IIT(B), External Member |
| 2. Dr. G AppaRao | Professor, IIT(M), External Member |
| 3. Dr. C N V Satyanarayana Reddy | Professor, AU, University Nominee |
| 4. Sri. D KasiVisvesvaraRao | Industry Member, |
| 5. Dr. J Vikranth | Assoc. Professor |
| 6. Mr. M K S S K Chaitanya | Asst. Professor |
| 7. Mrs. P V R Sravya | Asst. Professor |
| 8. Mr. T V ViswaTeja | BoS-Civil Coordinator, Asst. Professor |
| 9. Mr. Ch.Srinivas | Asst. Professor |
| 10. Mr. K Suryanarayana | Asst. Professor |
| 11. Mr. J Harshavardhana Reddy | Asst. Professor |
| 12. Mr. NANP Vital | Asst. Professor |
| 13. Dr. B.N.D. Narasinga Rao | Professor & HoD (In Chair) |

Agenda:

(I) R-19 Regulations

- 1) Detailed Syllabus: III Year
- 2) Open Elective Courses-Civil

(II) R-20 Regulations

- 1) Course Structure: II, III, IV Years based on APSICHE Guidelines
- 2) Detailed Syllabus: II Year
- 3) Honours Courses
- 4) Minor Courses
- 5) Academic Regulations

(III) Paper setters for II Year I semester and II semester B.Tech (Civil Engineering)


(IV) Any other item with the permission of the chair


Discussions & Resolutions:

1. Detailed Syllabus for III Year B.Tech. (Civil Engineering), including the open electives under R-19 Regulations, has been considered and with suggestions discussed and approved.
2. Considered the Course structure for II Year to IV Year of B.Tech Civil Engineering under R-20 Regulations, made as per AICTE and APSICHE guidelines for discussion and with suggestions discussed and approved.

3. Detailed Syllabus for II Year B.Tech. (Civil Engineering) under R-20 Regulations, has been considered and with suggestions discussed and approved.
4. Honours and Minor courses to be offered by the Department with effect from II Year II semester under R-20 Regulations have been discussed and approved.
5. The Board has authorized the Head of Department, Civil Engineering, ANITS to make minor changes in the syllabus, if deemed necessary, based on the feedback, given by the concerned subject faculty member(s), keeping 90% to 95% of the overall content same.
6. Academic regulations for R20 Regulations have been considered and approved. Members suggested to give due credit in the certificate for the students who acquire some credits for Honours/Minor courses but fail to get the Honours /Minor Degree for any reason.
7. List of paper setters for III Year B.Tech. Civil Engineering under R-19 Regulations and for II Year B.Tech. Civil Engineering under R-20 Regulations is considered and approved. The Board, however, has authorized the Head of Department, Civil Engineering, ANITS to add or modify the list wherever necessary.
8. Members were informed that in view of lockdown due to COVID19, the Mid-II examinations for II and III Year II Semester students were conducted online through Moodle, as per UGC Lockdown guidelines. Members were also informed that the Project work end semester Viva examination was also conducted online through Skype based on UGC lockdown guidelines.
9. Discussed the innovative Teaching and Evaluation Techniques.


Convener, IQAC
Anil Neerukonda Institute of
Technology & Sciences
Sangivalasa-531 162
Visakhapatnam Dist.


(Dr.B.N.D.NARASINGA RAO)
Professor & Head-Civil Engineering
BoS-Chairman-Civil Engineering
 Dr. B.N.D. Narasinga Rao
 10/11/2020


Prince Anil
Anil Neerukonda Institute of
Technology & Sciences
Sangivalasa- 531 162
Visakhapatnam Dist

Professor & head
 Department of Civil Engineering
 Anil Neerukonda Institute of Technology and Sciences
 Sangivalasa, Bheemvelipatnam Mandal
 Visakhapatnam - 531162



Anil Neerukonda Institute of Technology & Sciences (Autonomous)

(Affiliated to AU, Approved by AICTE & Accredited by NBA & NAAC with 'A' Grade)

Sangivalasa-531 162, Bheemunipatnam Mandal, Visakhapatnam District

Phone: 08933-225083/84/87

Fax: 226395

Website: www.anits.edu.in

email: principal@anits.edu.in

Department of Civil Engineering


List of new courses introduced and approved in the BoS meeting held on 19/06/2021 for the academic year 2021-2022.

Regulation: R19

S.No	Name of the Course	Course Code	Year & Sem	Change in syllabus
1.	Building Planning and Drawing	CIV212	II/IV, Sem-I	40%
2.	Building Architecture with REVIT	CIV226	II/IV, Sem-II	

BOS External Members list

S.No	Name & Designation	Signature
1	Prof. G. Apparao Professor, Dept. of Civil Engineering, IIT, Chennai - 600036, Tamilnadu, INDIA	
2	Dr. B.V.S. Viswanadham, Professor, Department of Civil Engineering, IIT, Bombay, Mumbai, Maharashtra - 400076	
3	Dr. C. N. V. Satyanarayana Reddy, Professor, Department of Civil Engineering, Andhra University College of Engineering (A), Visakhapatnam - 530003	
4	Sri. D. Kasi Visweswara Rao, Chief Engineer (Retd.), CRDA, Visakhapatnam	
5	Dr. B.N.D. Narasinga Rao Professor & Head-Civil, ANITS Chairman (BoS-Civil)	

6	Sri J. Vikranth, Associate Professor of Civil engineering, ANITS	
7	Sri M.K.S.S. K Chaitanya Assistant Professor of Civil. engineering, ANITS	
8	Sri T.V.V Teja, Assistant Professor of Civil engineering, ANITS	
9	Sri T. Kiran kumar Assistant Professor of Civil engineering, ANITS	
10	Sri P.V.R Sravya, Assistant Professor of Civil engineering, ANITS	Sravya P.V.R


Convener, IQAC
Anil Neerukonda Institute of
Technology & Sciences
Sangivalasa-531 162
Visakhapatnam Dist.


Principal
Anil Neerukonda Institute of
Technology & Sciences
Sangivalasa- 531 162
Visakhapatnam Dist

Honours Courses

R20 Regulations

S. No	Course Code	Subject	Year	Semester	L-T-P	Credit
1	CIV H221	Sustainability Engineering	II	II	3-1-0	2
2	CIV H311	Construction Technology	III	I	3-1-0	4
3	CIV H321	Infrastructure Engineering	III	II	3-1-0	4
4	CIV H322	E TABS Lab	III	II	1-1-3	4
5	CIV H411	Earthquake Engineering	IV	I	3-1-0	2
6	CIV H412	PRIMAVERA Lab	IV	I	1-1-3	4
		Total				20

R. Srikanth
Convener, IQAC
Anil Neerukonda Institute of
Technology & Sciences
Sangivalasa-531 162
Visakhapatnam Dist.

QW
Principal
Anil Neerukonda Institute of
Technology & Sciences
Sangivalasa- 531 162
Visakhapatnam Dist



**ANIL NEERUKONDA INSTITUTE OF TECHNOLOGY & SCIENCES
(UGC AUTONOMOUS)**

(Affiliated to AU, Approved by AICTE & Accredited by NBA)

SANGIVALASA-531 162, Bheemunipatnam Mandal, Visakhapatnam District

Phone: 08933-225083/84/87 Fax: 226395

www.anits.edu.in

email: principal@anits.edu.in

**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
EXTERNAL BOS MEETING MINUTES**

Meeting Date: 19-06-2021

Venue: Online (gmeet)

Timings: 9:30 AM to 1:40 PM

The agenda :

- 3/4B.Tech syllabus as per regulations 2019
- 2/4B.Tech (CSE, CSE with DS,CSE with AI&ML) syllabus as per regulations 2020
- Minor & Honor offering as per regulations 2020
- Participation in Electives offered by Infosys

Members Present:

- Dr. R.Sivaranjani, HoD&Professor, CSE, ANITS Chairman, BOS, CSE
- Dr M Rama Krishna Murty, Professor, CSE, ANITS,Member
- Mr. S. Ratan Kumar ,Associate. Professor, CSE, ANITS,Member
- Dr K S Deepthi,Associate. Professor., CSE, ANITS, Member
- Mr. G.Jagadish, Assistant. Professor., CSE, ANITS, Member
- Dr. K. Suresh,Assistant. Professor., CSE, ANITS ,Member
- Dr. B Prajna,Professor, CSE,AUCE University Nominee
- Dr. KVSVN RAJU, Professor, Visiting Professor, CSE, ANITS, Special Invitee
- Mr. T. ShyamVamsi, IBM ,Chennai, Alumni, Industry
- Roy Antony Arnold George Charles, Manager, Campus Connect, Infosys Technologies ,Hyd, Industry
- Mr. Bharath Bheemarasetti, Software Developer Engineer, Adobe systems India Pvt. Limited

Deliberations: Chairman BOS officially welcomed all the internal and external members of the Board Of Studies committee for the BOS meeting of B.Tech-CSE, 2021.

On behalf of CSE, ANITS, Mr. S. Ratan Kumar, Assoc. Prof., Dept. of CSE welcomed the BOS committee and deliberated a quick view on R19 and R20 course structures which are designed with 160 credits according to the guidelines of AICTE and APSCHE.

The in-detail presentation started with---

The coordinator presented

- Feedback had collected from the faculty and students, according to that some modifications made to the syllabus.
- The syllabus deviation of R19 and R20 regulation.
- A new course called "Constitution of India & Intellectual Property Rights" is introduced in 1st semester of 3rd year in R19 and 1st semester of 2nd year in R20 .

Agenda 1: 3/4B.Tech syllabus as per regulations 2019

On R19 3/4B.Tech syllabus the external members have made the following deliberations:

- The open elective Python Programming course - removed anonymous lambda function and advanced topics from UNIT-5.
- The Essentials of Python course – adding of string objects and advanced python libraries. Increase the complexity level of case studies in Essentials of Python course.
- Providing of live execution in class room for python course.
- Swapping of course HCI and ML in PE2 and PE3.
- Smart Systems Design & Programming course --demonstration with the help of devices.
- Mobile Computing course - replace 3G technology with 4G and introduced WIFI related content.
- No SQL Data Bases course - follow one or two datasets to discuss.
- Data warehousing and Data mining course – add case studies.
- Embedded Systems course – swap with Smart Systems Design & Programming.
- DBMS theory and Lab course - scenario based experiments were suggested to add, also suggested to refer Infosys head start for real time scenarios.
- QA-VA course – no modifications.
- OOSE theory and Lab course - for new models like agile and DevOps, it is better to introduce advanced software engineering course and suggested to promote student work in github.
- Web Technology theory and Lab course - advised to revise the syllabus once again. Suggested to remove Servlets and add this in python syllabus Recommendation was given to add responsive Design REACT or Nodejs in unit -5

Agenda 2: 2/4B.Tech (CSE, CSE with DS,CSE with AI&ML) syllabus as per regulations 2020

The following courses which are taken from R19 and are not modified:

- DSA and DS LAB ,JAVA and JAVA LAB ,CO, MP DC,CN
- DMS PSQT,DTPI, MPI and MPI LAB,OS and OS LAB,FLAT

Agenda 3: Minor & Honor offering as per regulations 2020

- Under CSE-Minor the following courses were considered for 2nd year – semester-2
 - Object oriented Programming
 - Data Structures
 - Operating System
 - DBMS
- For CSE-Honor the External committee suggested to add tracks of Block chain and IOT if possible.


Agenda 4: Participation in Electives offered by Infosys

- o The autonomous coordinator displayed Electives offered by Infosys. All the members welcomed the idea of offering these courses.(Annexure -A provides the details)

The following are the general suggestions given by the external BOS members:

- Consider the using Text books and reference books from the recent publications if possible
- Promote student project work online platform "github "
- It is suggested that to mention number of lecture hours instead of hours for each unit.

Finally, the meeting ended with vote of thanks by BOS chairman.


Prof. (Dr) R Sivarajani
Chairman
BOS-CSE

Attachments:

1)Annexure A



Anil Neerukonda Institute of Technology & Sciences (Autonomous)

(Affiliated to AU, Approved by AICTE & Accredited by NBA & NAAC with 'A' Grade)

Sangivalasa-531 162, Bheemunipatnam Mandal, Visakhapatnam District

Phone: 08933-225083/84/87

Fax: 226395

Website: www.anits.edu.in


email: principal@anits.edu.in


Department of Computer Science & Engineering

List of new courses introduced in the Board of Studies (BoS) meeting held on 19-06-2021 for the academic year 2021-22

S. No	Name of the Course	Course Code	Year & Semester	Regulations
1.	Constitution of India & - Intellectual Property Rights (Mandatory non-credit course)	CSE 320	¼ B Tech & Sem II	R19
2.	Artificial Intelligence	CSE 312(D)	¼ B Tech & Sem I	R19
3.	Machine Learning Using R	CSE323(C)	¼ B Tech & Sem II	R19
4.	COMPETITIVE PROGRAMMING	CSE 313	¼ B Tech & Sem I	R19
5.	COMPETITIVE PROGRAMMING LAB	CSE 318	¼ B Tech & Sem I	R19
6.	OBJECT ORIENTED SOFTWARE ENGINEERING	CSE 324	¼ B Tech & Sem II	R19
7.	OBJECT ORIENTED SOFTWARE ENGINEERING LAB	CSE 328	¼ B Tech & Sem II	R19
8.	Constitution of India & - Intellectual Property Rights (Mandatory non-credit course)	CSE 219, CSD 219, CSM 219	2/4 B Tech & Sem I	R20
9.	ARTIFICIAL INTELLIGENCE	CSM 222	2/4 B Tech & Sem II	R20
10.	PYTHON PROGRAMMING	CSM 224	2/4 B Tech & Sem II	R20
11.	PYTHON PROGRAMMING LAB	CSM 227	2/4 B Tech & Sem II	R20
12.	COMPUTER ORGANIZATION AND MICROPROCESSORS	CSM 212, CSD 212	2/4 B Tech & Sem I	R20
13.	COMPUTER ORGANIZATION & MICRO PROCESSOR INTERFACING LAB	CSM 228, CSD 228	2/4 B Tech & Sem II	R20
14.	THEORY OF COMPUTATION AND COMPILERS	CSM 225	2/4 B Tech & Sem II	R20
15.	BASICS OF DATA SCIENCE	CSD 222	2/4 B Tech & Sem II	R20


Prof. (Dr) R Sivaranjani,
Chairman,
BOS-CSE Dept.


R. Sekhara,
Convener, IQAC
Anil Neerukonda Institute of
Technology & Sciences
Sangivalasa-531 162
Visakhapatnam Dist.


Principal
Anil Neerukonda Institute of
Technology & Sciences
Sangivalasa- 531 162
Visakhapatnam Dist

Head of the Department of
Computer Science & Engineering
Anil Neerukonda Institute of
Technology & Sciences
Sangivalasa, Visakhapatnam Dist

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING
TRACK-1 (Programming and Application Development)

S NO	Code	Course Name	L-T-P	Credits
1	CSE H122	Mobile Application Development	3-0-1	4
2	CSE H131	Full Stack Web Development	3-0-1	4
3	CSE H132	Cloud Application Development and Deployment	3-0-1	4
4	CSE H141	Microservices	3-0-1	4

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING
TRACK-2 (Security Engineering Trackt)

S NO	Code	Course Name	L-T-P	Credits
1	CSE H222	Information Security & Auditing	3-0-1	4
2	CSE H231	System Secure Engineering	3-0-1	4
3	CSE H232	Cyber Security	3-0-1	4
4	CSE H241	Hardware Security	3-0-1	4

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING
TRACK-3 (Soft Computing techniques)

S NO	Code	Course Name	L-T-P	Credits
1	CSE H322	Introduction to SoftComputing	3-0-1	4
2	CSE H331	Evolutionary techniques	3-0-1	4
3	CSE H332	Optimization techniques	3-0-1	4
4	CSE H341	Fuzzy Computing	3-0-1	4

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING
TRACK-4 (Computer Networks and Engineering)

S NO	Code	Course Name	L-T-P	Credits
1	CSE H422	Mobile and Cellular Networks	3-0-1	4
2	CSE H431	4G/5G Networks	3-0-1	4
3	CSE H432	Wireless Sensor Networks	3-0-1	4
4	CSE H441	Network Management	3-0-1	4

R. Subash
 Convener, IQAC
 Anil Neerukonda Institute of
 Technology & Sciences
 Sangivalasa-531 162
 Visakhapatnam Dist

AN
 Principal
 Anil Neerukonda Institute of
 Technology & Sciences
 Sangivalasa-531 162
 Visakhapatnam Dist

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING (R20 Minor)

(common to ECE,EEE,Mech,Civil & Chem)

S.NO.	COURSE NAME	L-P-T	CR
1	CONCEPTS OF OBJECT-ORIENTED PROGRAMMING	3-0-1	4
2	DATA STRUCTURES	3-0-1	4
3	COMPUTER OPERATING SYSTEMS	3-0-1	4
4	FUNDAMENTALS OF COMPUTER NETWORKS	3-0-1	4
5	FILE SYSTEMS & DATA BASES	3-0-1	4
6	INTRODUCTION TO SOFTWARE ENGINEERING	3-0-1	4

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING (R20 Minor)
SPECIALIZED TRACKS)

(common to ECE,EEE,Mech,Civil & Chem)

TRACK-1 (ARTIFICIAL INTELLIGENCE)

S.NO.	COURSE NAME	L-P-T	CR
1	INTRODUCTION TO AI	3-0-1	4
2	INTRODUCTION TO MACHINE LEARNING	3-0-1	4
3	INTRODUCTION TO DEEP LEARNING	3-0-1	4
4	AI IN ROBOTICS	3-0-1	4

TRACK-2 (DATA SCIENCE)

S.NO.	COURSE NAME	L-P-T	CR
1	BASICS OF DATA SCIENCE	3-0-1	4
2	DATA VISUALIZATION & ANALYSIS WITH SPREAD SHEET	3-0-1	4
3	INTRODUCTION TO DATA WAREHOUSE AND DATA MINING	3-0-1	4
4	INTRODUCTION TO DATA ANALYTICS	3-0-1	4

R. Subrah.
Convener, IQAC
Anil Neerukonda Institute of
Technology & Sciences
Sangivalasa-531 162
Visakhapatnam Dist.

Principal
Anil Neerukonda Institute of
Technology & Sciences
Sangivalasa- 531 162
Visakhapatnam Dist



7th meeting of BOS , Dept. of EC (UG), ANITS

Created by: Dr. Rajya lakshmi Valluri

Time
2pm - 3pm (India Standard Time
- Kolkata)

Date
Sat Jun 19, 2021

My files

Agenda:

- 1.R20 Autonomous Syllabus(2nd year Sem-I & II)
- 2.R20 Minor and Honors for B.Tech
- 3.R19 Autonomous Syllabus(3rd year Sem-I & II)
- 4.Any other item with permission of the chair

Guests

- ✓ Dr. Rajya lakshmi Valluri
- Mr ANIL PRASAD D A
- Dept of ECE ANITS
- cbraokota.ece@jntuku
- director@iiitt.ac.in
- dp.iitg@gmail.com
- ECE
- prakriya2212@gmail.c



ANIL NEERUKONDA INSTITUTE OF TECHNOLOGY & SCIENCES
(UGC AUTONOMOUS)
(Affiliated to AU, Approved by AICTE & Accredited by NBA)
Sangivalasa-531162, Bheemunipatnam Mandal, Visakhapatnam Dt.
Phone: 08933- 225084,226395

Website: www.anits.edu.in

email: principal@anits.edu.in

Members present in 7th meeting of the Board of Studies, Dept of ECE(UG) held on 19-06-2021 at 2:00PM through video conference

S.No	Name of the member	Designation	Category
1.	Dr. V. Rajya Lakshmi	Head, ECE, ANITS	Chairman, BOS, ECE
2.	Dr. G.ManmadhaRao	Prof., ECE, ANITS	Member
3.	Dr.B.SomaSekhar	Assoc. Prof., ECE, ANITS	Member
4.	Dr.S.Srinivas	Assoc. Prof., ECE, ANITS	Member
5.	Dr.P.MurgaPandiyan	Assoc. Prof., ECE, ANITS	Member
6.	Mr. D. Anilprasad	Asst. Prof. ECE, ANITS	Member
7.	Dr. J. BhaskaraRao	Asst. Prof. ECE, ANITS	Member
8.	Dr. A. Lakshminarayana	Asst. Prof. ECE, ANITS	Member
9.	Dr.K.V.G.Srinivas	Asst. Prof. ECE, ANITS	Member
10.	Mr. Vijaya Kumar Sahu	Asst. Prof. ECE, ANITS	Member
11.	Mr.N.Srinivasa Naidu	Asst. Prof. ECE, ANITS	Member
12.	Dr.G.Prasanna	Asst. Prof. ECE, ANITS	Member
13.	Prof. P. Ramakrishna Rao	Advisor, ANITS	Academic council nominee
14.	Prof K. Chandra BhusahanRao	Prof., Dept of ECE, JNTUV	Academic council nominee
15.	Prof.N.V.S.N.Sharma	Prof., Dept of ECE, NITW	University Nominee
16.	Mr.N.Srinivas	Avantel, Visakhapatnam	Industry
17.	Mr. M. Durga Prasad	JTO, BSNL	Alumni
18.	Prof.K.S.RangaRao	Prof, ECE, ANITS	Member
19.	P.Venkata naga Sri Hyma	Student	Member
20.	S.Hruthika	Student	Member
21.	S.Divya	Student	Member



DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Minutes of the 7th meeting of the BOS, Department of ECE (UG) held on 19.06.2021 at 02:00PM through video conference.

1. R20 Autonomous Syllabus (2nd Year Sem-I & II)
2. R20 Minor and Honors for B.Tech
3. R19 Autonomous Syllabus (3rd Year Sem-I & II)
4. Any other item with the permission of the chair

The chairperson, Dr.V.Rajya Lakshmi, HOD, dept of ECE, ANITS hosted the online meeting conducted through video conference and welcomed all the BOS members present.

1. R20 Autonomous Syllabus (2nd Year Sem-I & II)

The Chairperson presented the members the comparison of R19 scheme and R20 scheme in terms of credits and explained the minor changes made in R20 compared to R19 as per APSCHE recommendations.

The newly introduced courses in R19 are as follows:

S.No	Course code	Name of the course (R19)	% change compared to R15	Remarks
1.	ECE313	Digital communications	25%	One new Unit is introduced and new topics were added in Unit-II
2.	ECE316	Antennas and Wave Propagation	15%	Reduced contents in UNIT-II; UNIT-III and UNIT-V
3.	ECE324	Data structures	100%	New Theory course
4.	ECE329	DS lab	100%	New Lab course

The changes made in R20 scheme is as follows:

Semester	Minor Changes made in R20 compared to R19
I	No change
II	No change
III	No change
IV	No change
V	Internship during summer, "INTERNSHIP I" is added with 2 credits and category of courses "Embedded systems and IOT" and associated lab "Embedded systems and IOT lab" is changed to SC (Skill oriented) from PC(Professional Core)
VI	Category of courses Data Structures & Data Structures Lab is changed to SC (Skill oriented) from PC(Professional Core)
VII	Credits of course "Industrial training" is changed to 2 credits from 1 credit.
VIII	Professional Elective-6 is removed in R20.

The chairperson reminded that R20 scheme with minor changes mentioned above were already communicated to the BOS members through mail for their approval earlier.

2. R20 Minor and Honors for B.Tech

a) Chairperson informed the members that in R20 Minors and Honors were introduced newly as per APSCHE guidelines and presented the proposed two minors and three Honor streams.

- b) Prof. NVSN Sharma, Director IIIT, Trichy enquired about the requirements of registering in minor.
- c) Chairperson replied that a candidate shall be permitted to register for Honors / Minor program at the beginning of 4th semester subject to a maximum of two additional courses per semester, provided that the student must have acquired a minimum of 8.00 CGPA up to the end of 2nd semester without any backlogs.
- d) Prof. P. Ramakrishna Rao, Advisor, ANITS, enquired about the regulations of Honors offered to ECE students.
- e) Chairperson replied that a candidate shall earn 20 credits in addition to the 160 credits to get Honor / Minor degree along with regular B.Tech degree. In the case of Honors, out of 20 additional Credits to be acquired, 16 credits shall be earned by undergoing specified courses listed as pools, with four courses, each carrying 4 credits. The remaining 4 credits must be acquired through two MOOCs courses, which shall be domain specific, each with 2 credits.
- f) Prof. K. Chandra Bhusan Rao, JNTUKV, suggested ensuring that courses offered under Honors were mapped to PSOs properly. He also advised to mention the prerequisites in courses. He suggested including courses under MOOCs to be opted by students under minor/Honors.
- g) Prof. NVSN Sharma, Director IIIT, Trichy suggested to make it available list of MOOC courses mentioning semester in which student can opt under MOOCs.
- h) Chairperson requested Dr.S.Srinivas Assoc.Prof to prepare list of courses mentioning semester in which student can opt under MOOCs.

3. R19 Autonomous Syllabus (3rd Year Sem-I & II)

Committee discussed the contents in the 3rd year syllabus of R-19 and made the following recommendations/suggestions course wise.

a) ECE 313 Digital Communications

- i. Prof. P. Ramakrishna Rao, Advisor, ANITS, mentioned that the two problems in digital communications are noise and Inter Symbol Interference (ISI) and suggested to include topic Inter Symbol Interference which is totally ignored in the syllabus. He also advised to introduce the basic idea of spread spectrum, types of spread spectrum and its applications if possible.
- ii. Dr.A. Lakshmi Narayana, Assistant Professor, presented the syllabus of Digital communications with UNIT-IV as Spread Spectrum Modulation and UNIT-V as Introduction to OFDM.

iii. Prof. P. Ramakrishna Rao, Advisor, ANITS, expressed that OFDM may be taught at PG level.

iv. Prof. NVSN Sharma, Director IIIT, Trichy expressed his opinion on keeping the UNIT-IV as Spread Spectrum Modulation and UNIT-V as Linear block codes and convolution codes instead of OFDM.

v. Mr.M.Durga Prasad, JTO, BSNL expressed that OFDM is the basis for all the LTE and above generation communications and may be appreciated if it is briefly taught to students.

b) ECE 314 Embedded Systems and IoT

i. Prof. NVSN Sharma, Director IIIT, Trichy expressed that more contents in UNIT-III "Internet of Things" may be added and all agreed.

c) ECE 315 Integrated Circuits and Applications

i. Prof. NVSN Sharma, Director IIIT, Trichy Suggested to keep text book by Ramakant A. Gayakwad, as prescribed text book instead as reference book.

ii. Prof. P. Ramakrishna Rao, Advisor, ANITS, advised to keep standard text books as reference text books.

iii. Prof. NVSN Sharma, Director IIIT, Trichy, advised to maintain uniformity in mentioning the number of reference text books in all courses.

d) ECE 316 Antennas and Propagation

i. Prof. NVSN Sharma, Director IIIT, Trichy, suggested to reduce contents in UNITS-II, III and V.

ii. Prof. K. ChandraBhusan Rao, JNTUKV, also expressed that contents in all units look lengthy and advised to reduce if possible.

iii. Chairperson replied that the necessary modifications will be done and communicated to all.

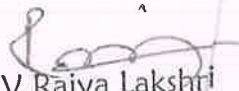
e) ECE 319 AC & DC Lab

i. Prof. NVSN Sharma, Director IIIT, Trichy, advised to specify the parameters which were being measured during the experiments.

f) ECE 322(c) Optical Communications


i. Prof. NVSN Sharma, Director IIIT, Trichy, expressed that contents in UNIT-III may be reduced. He also suggested to include topics related to Optical Fibreless communication

- b. ii. Prof. NVSN Sharma, Director IIIT, Trichy Suggested to keep text book by Rajiv Ramaswami, Kumar Sivarajan and Galen Sasaki as prescribed text book instead as reference book.
- c. g) ECE 323(b) Wireless Sensor Networks
- i. Prof. NVSN Sharma, Director IIIT, Trichy, expressed that prerequisites mentioned as Computer Network Engineering are not covered.
- d. h) ECE 326 VLSI Design
- i. Prof. NVSN Sharma, Director IIIT, Trichy, advised to include design rules in the syllabus.
- e. i) ECE 328 Integrated Circuits Lab
- i. Prof. NVSN Sharma, Director IIIT, Trichy, suggested to modify the name of the 7th experiment as "Comparison of Astable multivibrator using Op-amp and IC 555".
- Dr. V. Rajya Lakshmi, Chairperson informed the External BOS members that suggested modifications in various courses will be incorporated and the same will be forwarded for their approval within 10 Days.
- f. Meeting concluded with a vote of thanks presented by Mr. D. Anil Prasad, Academic Coordinator, to all the members.


Dr. V. Rajya Lakshmi
Chairperson, BOS & HOD, ECE
ANITS

Head of the Department
Department / ECE
Anil Neerukonda Institute of Technology & Sciences
Sangivalasa-531 162


Convener, IQAC
Anil Neerukonda Institute of
Technology & Sciences
Sangivalasa-531 162
Visakhapatnam Dist.


Principal
Anil Neerukonda Institute of
Technology & Sciences
Sangivalasa- 531 162
Visakhapatnam Dist

Track-1 VLSI

List of courses

S.No	Name of Course	Credits
1.	Analog IC Design	4
2.	Advanced VLSI Design	4
3.	Introduction to CAD for VLSI	4
4.	Low Power VLSI	4
5.	Design for Testability	4
6.	Hardware Security	4

Track-2 Embedded system Design


List of courses

S.No	Name of Course	Credits
1.	Advanced Embedded systems	4
2.	RTOs	4
3.	Advanced Microcontrollers	4
4.	IoT	4

Track-3 Advanced Communication Systems

List of courses

S.No	Name of Course	Credits
1.	EMI/EMC	4
2.	RF System Design	4
3.	Wireless broad band communications	4
4.	Multi carrier communication	4
5.	mm wave technology	4


Convener, IQAC
Anil Neerukonda Institute of
Technology & Sciences
Sangivalasa-531 162
Visakhapatnam Dist.


Principal
Anil Neerukonda Institute of
Technology & Sciences
Sangivalasa- 531 162
Visakhapatnam Dist

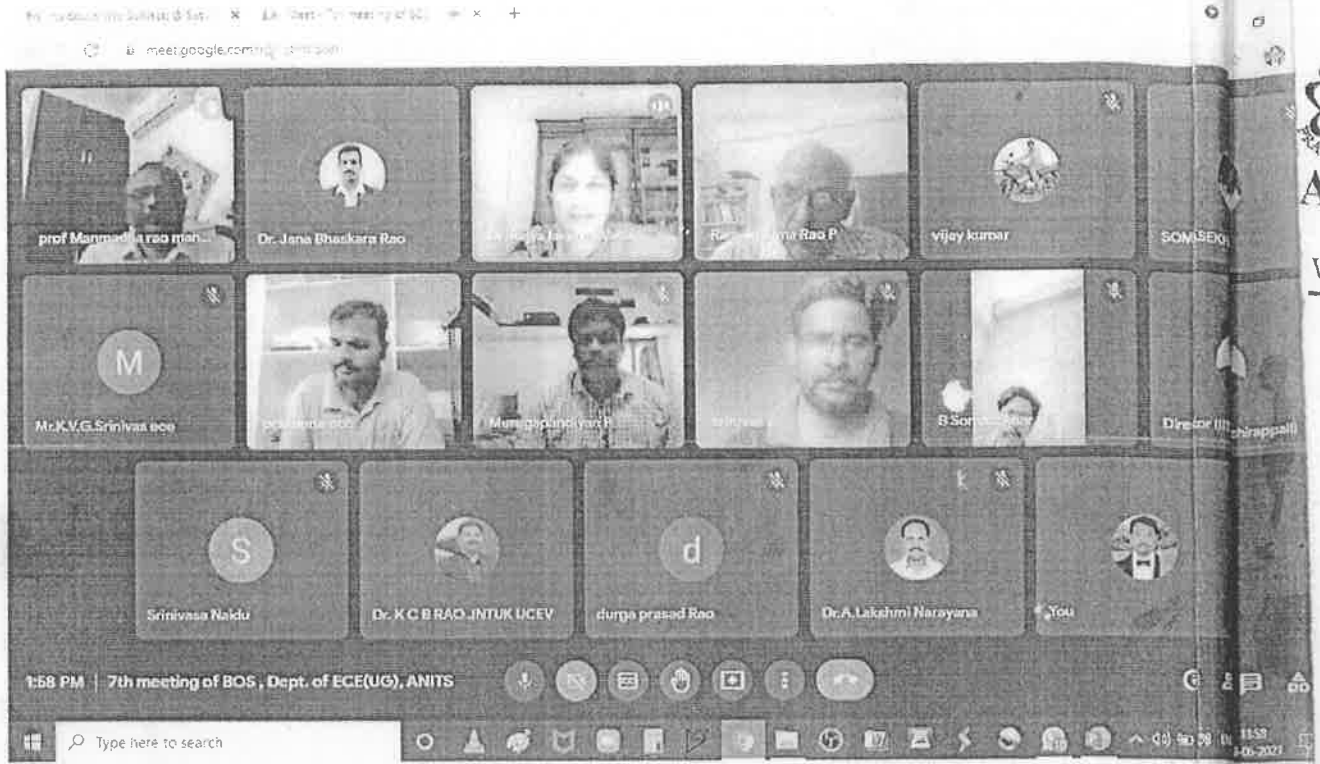


Fig: 7th BOS meeting of ECE held on 19-06-2021 at 2:00 PM through video conference.



ANIL NEERUKONDA INSTITUTE OF TECHNOLOGY & SCIENCES
(Permanently Affiliated to Andhra University, Approved by AICTE)
Sangivalasa-531 162, Bheemunipatnam Mandal, Visakhapatnam District
DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING
Accredited by NBA

**Minutes of the Board of Studies (BOS of EEE) meeting held on
19th June 2021 (Saturday) at 10.30 AM (online)**

MEMBERS PRESENT:

S. No.	Name	Designation	Category
1	Dr. J. Vijaya Kumar	Professor, EEE, ANITS	Member
2	Dr. V. Murali	Assoc. Prof., EEE, ANITS	Member
3	Mr. S. Balamurali	Assoc. Prof., EEE, ANITS	Member
4	Dr. Nishant Patnaik	Assoc. Prof., EEE, ANITS	Member
5	Dr. S. Vijaya Bhaskar	Assoc. Prof., EEE, ANITS	Member
6	Mr. Kavala Kiran Kumar	Asst. Prof., EEE, ANITS	Member
7	Mr. B. Rajasekhar	Asst. Prof., EEE, ANITS	Member
8	Dr. R. Satish	Asst. Prof., EEE, ANITS	Member
9	Dr. Ch. V. N. Raja	Asst. Prof., EEE, ANITS	Member
10	Mr. M. Sudheer Kumar	Asst. Prof., EEE, ANITS	Member
11	Mr. K. Trinadh Babu	Asst. Prof., EEE, ANITS	Member
12	Mr. L. Dinesh	Asst. Prof., EEE, ANITS	Member
14	Mr. S. Harish	Asst. Prof., EEE, ANITS	Member
15	Mr. A. Dhanamjay Apparao	Asst. Prof., EEE, ANITS	Member
16	Mr. L. Vijay	Asst. Prof., EEE, ANITS	Member
17	Mrs. D. Srilakshmi	Asst. Prof., EEE, ANITS	Member
18	Mrs. V. Rangavalli	Asst. Prof., EEE, ANITS	Member
19	Mr. V. Anil Kumar	Asst. Prof., EEE, ANITS	Member
20	Mr. N. Kiran	Asst. Prof., EEE, ANITS	Member
21	Mr. J. Uday Venkatesh	Asst. Prof., EEE, ANITS	Member
21	Mr. R.V.L. Divakar	Asst. Prof., EEE, ANITS	Member
22	Prof. Deba Priya Das	Professor, IIT Kharagpur	Academic Council Nominee
23	Prof. G.V. Siva Krishna Rao	Prof. & HOD, EE, AUCE(A)	University Nominee
24	Sri B. Srinivasa Reddy	GM (Electrical), RINL	Industry
25	Prof. G. Raja Rao	HOD, EEE, ANITS	Chairman, BOS

* * *

Agenda:

1. Approval of syllabus of III/IV B.Tech. I and II semester under R-19 regulation.
2. Approval of Syllabus of II/IV B.Tech. I and II semester under R-20 regulation.
3. Approval of courses for B.Tech-Honors & Minor under R-20 as per the guidelines of APSCHE.
4. **New Courses Introduced.**
5. New Topics Added.
6. Any other Item with the Permission of the Chair.

Resolutions:

1. Approval of syllabus of III/IV B.Tech. under R-19 regulation:
 - a) The Chair person welcomed all the BOS members and thanked the members for the support they have rendered to the department during the last five years.
 - b) The chairman presented the course structure and detailed syllabus of regulation R-19 for III/IV B.Tech 1st & 2nd semester for the academic year 2021-22.
 - c) The board discussed on the topics / units mentioned in all courses of the III/IV Semester-I & II. The external members were mostly satisfied with the topics proposed for various courses and suggested certain modifications in some courses.
 - d) Mr. B. Srinivasa Reddy has suggested to include composite insulators and voltage graded cables in Power Transmission and Distribution courses. He also suggested to introduce experiments based on electrical vehicles & drives in electrical machines lab.
 - e) The board has approved the courses offered under Open Elective-1 in 3rd year 1st semester and Open Elective-2 in 3rd year 2nd Semester during 2021-22.
 - f) The board has approved the list of courses mentioned under Professional Elective-1 in 3rd year 1st semester and Professional Elective-2 & 3 in 3rd year 2nd Semester during 2021-22.
2. Approval of Syllabus of II/IV B.Tech. under R-20 regulation:
 - a) The chairman presented the course structure and detailed syllabus of regulation R-20 for II/IV B.Tech 1st & 2nd semester for the academic year 2021-22. The Committee has mainly discussed on the scheme and syllabi of 2nd year 1st semester and 2nd semester courses to be taught by EEE faculty.

- b) The board has discussed in full length and resolved to introduce “*Constitutional of India & Intellectual Property Rights*” as a non credit mandatory course for 2nd year 1st semester during 2021-22.
- c) The board members were happy about the modifications and the scheme & syllabi of 2nd year.

3. **Approval of courses for B.Tech-Honors & Minor under R-20 as per the guidelines of APSICHE:**

- a) The chairman has presented in brief about honors, minor and conditions to be satisfied for acquiring the same. It is resolved that the department to offer **B.Tech (Honors)** in tune with APSICHE guidelines for which the student should acquire 20 additional credits (4 Theory X 4 credits + 2 MOOCS X 2 Credits) to get Honors degree. If the number of students opting is less than 10, it may be considered to convert the Theory class work to MOOCS courses as mentioned in APSICHE / AICTE guidelines.
- b) The chairman presented the list of courses offered under Pool-1 for 2nd year 2nd semester, Pool-2 for 3rd year 1st semester, Pool-3 for 3rd year 2nd semester and Pool-4 for 4th year 1st semester respectively, in addition to the regular courses. The eligibility to register for B.Tech (Honors) degree is as per guidelines of APSICHE.
- c) The board has discussed in full length and resolved to offer the following list of courses under **Pool-1** for **B.Tech (Honors)** at 2nd year 2nd semester:

S.No	Pool-1
1	Advanced Network Theory
2	Advanced Digital Logic Design
3	Electronic Measurements
4	Electrical Engineering Materials

Out of these above four courses the student has to select one course of his/her choice.

- d) The board has discussed in full length and recommended to finalize the list of courses under Pool-2, Pool-3 and Pool-4 in next BOS meeting.
- e) It is also resolved that the department to offer **B.Tech (Minor)** courses in tune with APSICHE guidelines to the eligible students belonging to other disciplines for which the student should acquire 20 additional credits (4 Theory X 4 credits + 2 MOOCS X 2 Credits). If the number of students opting is less than 20, it may be considered to convert the Theory class work to MOOCS courses as mentioned in APSICHE / AICTE

guidelines. Minor can be offered in Generic courses, specialized stream of courses offered by industries such as Infosys / IBM / Siemens etc.

- f) The board has discussed in full length and resolved to offer the following list of courses for B.Tech (Minor) under General Minor Track:

B.Tech (Minor)

S.No	General Minor Track
1	NT
2	EDC
3	DLD
4	DC Machines
5	AC Machines
6	Basic Power System & Utilization
7	DCS
8	PE

B.Tech (Minor) Specialized Track

S.No	TRACK -1 POWER SYSTEMS
1	Distribution System Planning & Automation
2	Restructured Power Systems
3	HVDC & FACTS
4	Power Quality
5	Smart Grid Technologies
	TRACK -2 POWER ELECTRONICS & DRIVES
1	Advanced Power Electronics
2	Advanced Electrical Drives
3	HVDC & FACTS
4	Power Quality
5	Hybrid Electrical Vehicles
	TRACK -3 CONTROL SYSTEMS
1	State Estimation & System Identification
2	Digital Control Systems
3	Non Linear Control Systems
4	Optimal Control Systems
5	Adaptive Control Systems
	TRACK -4 ENERGY SYSTEMS
1	Energy Conservation & Audit
2	Utilization of Electrical Energy
3	Solar & Fuel cell Energy Systems
4	Wind & Biomass Energy Systems
5	Nuclear, Geothermal & Tidal Energy Systems

Out of these above four tracks the student has to select only **one** track with four courses.

4. New Courses Introduced:

- a) The board discussed on the topics / units mentioned in all courses of the III/IV Semester-I & II. The external members were mostly satisfied with the topics proposed for various courses and suggested certain modifications in some courses.
- b) The following Table presents the list of new courses added in regulation R-19 for III/IV Semester-I & II.

	R-19
PE-1 (3-1)	1) Embedded Systems
PE-3 (3-2)	1) Optimization Techniques
OE-1 (3-1)	1) Python 2) Computer Architecture and Organization
OE-2 (3-2)	1) IoT

- c) The board has discussed and resolved to continue the same course of R-19 in R-20 for II/IV Semester-I & II.

5. New Topics Added:

- a) The following Table presents the list of courses and topics added for R-19 in comparison with R-15 of III/IV Semester-I & II.

S.No.	Subject	Topics Added
1.	Renewable Energy Technologies (PE-1)	<ul style="list-style-type: none"> Thermoelectric power conversion & Thermionic power conversion- Principle of working, Performance and limitations.
2.	Performance of Linear and Induction Machines	<ul style="list-style-type: none"> Linear Induction Motor & Properties. Magnetic Levitation.
3.	Power Transmission & Distribution	<ul style="list-style-type: none"> Necessity of neutral grounding, various methods of neutral grounding. Composite insulators. HV & EHV graded cables.
4.	Electrical Drives & Traction (PE-2)	<ul style="list-style-type: none"> Direct Torque Control of 3-phase Induction Motors.
5.	Digital control Systems (PE-2)	<ul style="list-style-type: none"> Effect of Pole-Zero Placements. Detectability.
6.	ANN & Fuzzy systems (PE-3)	<ul style="list-style-type: none"> MATLAB Implementation of Fuzzy Systems.
7.	Power Electronics	<ul style="list-style-type: none"> Buck converter. Boost Converter. Buck-Boost converter.
8.	Power System Analysis	<ul style="list-style-type: none"> Concept of Voltage Stability

2. The following Table presents the list of course and topics added for R-20 in comparison with R-19 of II/IV Semester-I & II.

S.No.	Subject	Topics Added
1.	Network Theory	<ul style="list-style-type: none"> AC Transients.
2.	Microprocessors & Micro Controllers	<ul style="list-style-type: none"> Instruction Format. Memory Organization.
3.	Electromagnetics	<ul style="list-style-type: none"> Poynting Theorem. Energy Conservation.
4.	Performance of DC Machines & Transformers	<ul style="list-style-type: none"> All-day Efficiency. Open-delta connection. Parallel operation of 3-phase Transformers.
5.	Electrical Power Generation & Utilization	<ul style="list-style-type: none"> Diesel Power Plants. Electric Traction.

6. Any other item with the permission of the Chair.

- The board has discussed and resolved to continue the same structure for **M.Tech. (Control Systems)** during 2021-22. The board discussed and recommended to include “**Research Methodology**” as a non-credit course and “**Design Thinking**” as a Professional Elective-1” along with the regular courses.
- The board has discussed to introduce value added courses in R-19 for III/IV Semester-II. Following Table presents the list of value added courses:

Course Code	R-19
EEE 3210	MATLAB Essential tools for research applications
EEE 3211	Fuel Cell Technologies for Hybrid Vehicles

Date: 19-06-2021

C/s to: 1. The Principal

R. Subanth
Convener, IQAC
 Anil Neerukonda Institute of
 Technology & Sciences
 Sangivalasa-531 162
 Visakhapatnam Dist.

Dr. G. Raja Rao
 Principal
 Anil Neerukonda Institute of
 Technology & Sciences
 Sangivalasa-531 162
 Visakhapatnam Dist.

S. Raja Rao
Dr. G. RAJA RAO
 Professor & HOD of EEE
 Head of the Department
 ELECTRICAL & ELECTRONICS ENGINEERING
 ANITS, Sangivalasa,
 Visakhapatnam-531 162

Dr. G. Raja Rao
 Principal
 Anil Neerukonda Institute of
 Technology & Sciences
 Sangivalasa- 531 162
 Visakhapatnam Dist.



Anil Neerukonda Institute of Technology & Sciences (Autonomous)

(Affiliated to AU, Approved by AICTE & Accredited by NBA & NAAC with 'A' Grade)

Sangivalasa-531 162, Bheemunipatnam Mandal, Visakhapatnam District

Phone: 08933-225083/84/87

Fax: 226395

Website: www.anits.edu.in

email: principal@anits.edu.in

Department of Information Technology

List of new courses introduced in the BoS meeting held on 19-06-2021 for the academic year 2021-22

S.No	Name of the Course	Course Code	Year & Sem
1.	Internship in Industry-I	IT3110	III/IV Sem-1
2.	Constitution of Indian & - Intellectual Property Rights	IT3111	III/IV Sem-1
3.	Business Automation	IT322 (C)	III/IV Sem-II
4.	Embedded Systems	IT322 (D)	III/IV Sem-II
5.	Management Information Systems	IT322 (E)	III/IV Sem-II
6.	Operation Research	IT 323 (C)	III/IV Sem-II
7.	ETL Tools	IT 327 (A)	III/IV Sem-II
8.	DEVOpps	IT 327 (B)	III/IV Sem-II
9.	ADV.Java	IT 327 (C)	III/IV Sem-II
10.	DesignThinking	IT325	III/IV Sem-II
11.	Internet of Things Lab	IT328	III/IV Sem-II

P. D.

Members
Dr. M. Rakesh Sundar

M. Vinay Kumar

Dr. K. Shyama

Sam Basu

A. D. R. Sridhar
Convener, IQAC
Anil Neerukonda Institute of
Technology & Sciences
Sangivalasa-531 162
Visakhapatnam Dist.

M. Shashi

Prof. M. SHASHI M.E., Ph.D.
Computer Science & Systems Engineering
Andhra University
VISA KHAPATNAM-530 003
INDIA


Principal
Anil Neerukonda Institute of
Technology & Sciences
Sangivalasa- 531 162
Visakhapatnam Dist

B.Tech – IT (Honors)

SNo.	Course Name	L-T-P	CR	Prerequisites	Offered to
POOL-1					
1	Practical Cryptography in Python	3-1-0	4	Python	IT
2	Practical Machine Learning with Python	3-1-0	4	Python	IT
3	Parallel Programming	3-1-0	4	Data structures Programming	IT
4	Enterprise Architecture Foundations	3-1-0	4	Software Engineering	IT
POOL-2					
1	Computer Forensics and Cyber Crime	3-1-0	4	Security	IT
2	Business Intelligence	3-1-0	4	Data Science	IT
3	Distributed and Cloud Computing: From Parallel Processing to IoT	3-1-0	4	Parallel Programming	IT
4	Software Design	3-1-0	4	Software Engineering	IT
POOL-3					
1	Cyber Laws and Ethics	3-1-0	4	Cyber Crime	IT
2	Reinforcement Learning	3-1-0	4	Machine Learning	IT
3	Cloud Networking	3-1-0	4	Cloud Computing Networks	IT
4	Software Quality Analysis	3-1-0	4	Scripting Languages	IT
POOL-4					
1	Blockchain Fundamentals	3-1-0	4	Security	IT
2	Computer Vision	3-1-0	4	Graphics Programming	IT
3	Cloud Security and Privacy	3-1-0	4	Cloud Computing Security	IT
4	Agile Software Development	3-1-0	4	Software Engineering	IT

Streams

1. Security & Forensics
2. Data Engineering
3. Distributed and Cloud Computing
4. Software Engineering


 Convener, IQAC
Anil Neerukonda Institute of Technology & Sciences
 Sangivalasa-531 162
 Visakhapatnam Dist.


 Principal
Anil Neerukonda Institute of Technology & Sciences
 Sangivalasa- 531 162
 Visakhapatnam Dist

ANNEXURE - III


DEPARTMENT OF INFORMATION TECHNOLOGY


Generalized Minors in Information Technology

SNo.	Course Name	L-T-P	CR	Prerequisites
1	Linux fundamentals	3-1-0	4	Programming
2	Internet Technology & Web Design	3-1-0	4	Basics of Web
3	GitHub Essentials	3-1-0	4	Programming
4	Relational Database Implementation	3-1-0	4	Databases
5	Mobile Technology	3-1-0	4	Programming
6	Insight to Cloud Computing	3-1-0	4	Databases

Specialized Minor Tracks in Information Technology

SNo.	Course Name	L-T-P	CR	Prerequisites
Track-1 Web Semantics				
1	HTML 5 & CSS	3-1-0	4	Programming
2	XML&PHP	3-1-0	4	HTML Basics
3	JavaScript	3-1-0	4	Programming
4	UI & UX Design fundamentals	3-1-0	4	Design Principles
Track-2 Networking & Security				
1	Cryptography	3-1-0	4	Mathematics
2	Network Security	3-1-0	4	Cryptography
3	Computer Forensics	3-1-0	4	Security
4	Blockchain Fundamentals	3-1-0		Security
Track-3 Cloud Computing				
1	Fundamentals of Cloud Computing	3-1-0	4	Fundamentals of Programming
2	Cloud Networking	3-1-0	4	Cloud Computing
3	High Performance Computing	3-1-0	4	C Language
4	Data Virtualization	3-1-0	4	Cloud Computing


Convener, IQAC
Anil Neerukonda Institute of
Technology & Sciences
Sangivalasa-531 162
Visakhapatnam Dist.


Principal
Anil Neerukonda Institute of
Technology & Sciences
Sangivalasa- 531 162
Visakhapatnam Dist.



Minutes of the Board of Studies meeting held (online mode) on 19th June 2021

Members Present:

S.No	Name	Designation	Category
1	PROF. D. RAVI KUMAR	Prof., Dept of Mech. Engg. IIT-Delhi	Academic Council Nominee
2	PROF. N. RAMANAIAH	Professor, Dept. of Mech. Engg. AUCE(A). Vishakapatnam.	University Nominee
3	Mr. K. VENKATA POORNESH	Sr. Engineer, BHEL, Vishakapatnam.	Industry Nominee
4	Mr. CH. SURYA TEJA	Assistant Director Naval Armament Services	Alumni Member
5	PROF. T.V. HANUMANTHA RAO	Principal, ANITS & Professor of Mechanical Engineering	Honorary Member
6	PROF. N. INDRAKIRAN	Prof., Dept. of Mech. Engg. ANITS	Member
7	Dr. K.SIVA PRASAD	Prof., Dept. of Mech. Engg. ANITS	Member
8	Dr. RAJESH GHOSH	Assoc. Prof., Dept. of Mech. Engg. ANITS	Member
9	M. RAJA ROY	Assoc. Prof., Dept. of Mech. Engg. ANITS	Member
10	R. CHANDRAMOULI	Assoc. Prof., Dept. of Mech. Engg. ANITS	Member
11	G. UMAMAHESWARA RAO	Sr. Asst. Prof., Dept. of Mech. Engg. ANITS	Member
12	M.S.S. SRINIVAS RAO	Sr. Asst. Prof., Dept. of Mech. Engg. ANITS	Member
13	DR. K. SATYANARAYANA	Asst. Prof., Dept. of Mech. Engg. ANITS	Member
14	DR. VINODH BABU MARRI	Asst. Prof., Dept. of Mech. Engg. ANITS	Member
15	DR. K. NARESH KUMAR	Asst. Prof., Dept. of Mech. Engg. ANITS	Member
16	DR. M. PRASANTH KUMAR	Asst. Prof., Dept. of Mech. Engg. ANITS	Member
17	DR. M. SRINIVASA RAO	Asst. Prof., Dept. of Mech. Engg. ANITS	Member
18	DR. V. BINDU NEEHARIKA	Asst. Prof., Dept. of Mech. Engg. ANITS	Member
19	DR. LENIIN V R	Asst. Prof., Dept. of Mech. Engg. ANITS	Member
20	D S S RAVI KIRAN	Asst. Prof., Dept. of Mech. Engg. ANITS	Member
21	P. RAMYA	Asst. Prof., Dept. of Mech. Engg. ANITS	Member
22	K. V. RUKMINI	Asst. Prof., Dept. of Mech. Engg. ANITS	Member
23	S. PHANI KUMAR	Asst. Prof., Dept. of Mech. Engg. ANITS	Member
24	K.S. LALITHA SOUJANYA	Asst. Prof., Dept. of Mech. Engg. ANITS	Member
25	M. SAILAJA	Asst. Prof., Dept. of Mech. Engg. ANITS	Member
26	LAKSHMI PRASAD B.S.	Asst. Prof., Dept. of Mech. Engg. ANITS	Member
27	B KRISHNA PRAFULLA	Asst. Prof., Dept. of Mech. Engg. ANITS	Member
28	BEHERA V. RAVI TEJA	Asst. Prof., Dept. of Mech. Engg. ANITS	Member
29	CH. MAHESWARA RAO	Asst. Prof., Dept. of Mech. Engg. ANITS	Member

32	R.D.V.PRASAD	Asst. Prof., Dept. of Mech. Engg. ANITS	Member
33	PERURI SIVA V N B GUPTA	Asst. Prof., Dept. of Mech. Engg. ANITS	Member
34	GOWRISANKAR KAITHA	Asst. Prof., Dept. of Mech. Engg. ANITS	Member
35	S. RAMANJANEYULU	Asst. Prof., Dept. of Mech. Engg. ANITS	Member
36	B. PRADEEP KUMAR	Asst. Prof., Dept. of Mech. Engg. ANITS	Member
37	G NARESH	Asst. Prof., Dept. of Mech. Engg. ANITS	Member
38	A P S V R SUBRAHMANYAM	Asst. Prof., Dept. of Mech. Engg. ANITS	Member
39	BODA GEETA CHANDRA SEKHAR	Asst. Prof., Dept. of Mech. Engg. ANITS	Member
40	P. BALA DIVYA	Asst. Prof., Dept. of Mech. Engg. ANITS	Member
41	R. VARAPRASAD	Asst. Prof., Dept. of Mech. Engg. ANITS	Member
42	J MAHESH	Asst. Prof., Dept. of Mech. Engg. ANITS	Member
43	PAVAN KUMAR IJJADA	Asst. Prof., Dept. of Mech. Engg. ANITS	Member
44	PROF. E. NAGARAJU	HOD, Dept. of Mech. Engg. ANITS	Chairman- Board of Studies (Mechanical)

Agenda:

1. Third year B.Tech Mech Engg. Curriculum under R19 regulations
2. Second year B.Tech Mech Engg. Curriculum under R20 regulations
3. Finalization of subjects exclusively for B.Tech Honor/minor/specialized minor as per APSCHE Guidelines
4. Any other item

The Board of studies meeting was held in the online mode on Google meet platform on 19th June 2021 in the department of Mechanical engineering. The agenda for the meeting is as stated above. The HOD initialized the meeting by exchanging greetings with the faculty of the department and external BOS members. He cordially invited the Principal and external BOS members to the meeting. He introduced Mr. Surya Teja, a distinguished Alumni of our department who has excelled in Indian Engineering Services by securing 15th rank at the All-India level as a new entrant to the BOS. He then placed the agenda before the committee members for discussion. The Salient points that came up in the meeting after purviewing the syllabus by the external BOS members are as follows:

1. In R-15 regulations, the course structure contained fixed subjects from the industrial engineering stream. It is decided that the students should be given a choice in selecting a subject of his choice from a spectrum of Industrial engineering related subjects depending on his interest. With this objective, a **Humanities elective** is introduced with four choices given to the student. This approach is in-line with CBCS. **Supply chain management** is newly introduced in the list of subjects pertaining to this stream.
2. Prof. Ravikumar, external BOS member from IIT-Delhi pinpointed that the number of lecture, tutorial & practical hours are not in conformance with the number of credits for some subjects placed before the committee. The Principal and HOD took a serious note of this lapse and advised the faculty to be highly vigilant in framing the syllabus, finalization of COs and mapping with the POs & PSOs and also the minor details like number of periods, credits etc.
3. The subject of **Design Thinking** was deliberated in the meeting from the perspective of whether to consider it as Theory (or) Practical. This was expressed by Prof. Ramaniah as the syllabus contained theoretical concepts and case studies. This subject was newly introduced

- involved in developing new products. This was cleared by the chairman who said that this subject will be considered as Theory and internal evaluation will be based on the activities (case studies) performed by the students as regular assignments. However the external evaluation will be completely based on theoretical principles.
4. An external BOS member stated that the concepts related to Gerber's theory has to be included in the first unit of DMM-II, which was accepted.
 5. It was suggested by the expert members that the subject of NDT should contain practical sessions, wherein the students are given an exposure to the ND techniques being adopted in the industry. The industrial expert from BHEL, Vizag said that he will certainly help the students in the practical sessions as the BHEL has excellent Non-Destructive testing facilities.
 6. The subjects **NDT & Additive Manufacturing** is newly introduced into the R-19 curriculum as professional elective and the board was satisfied with the syllabus.
 7. The Mechanical Engineering Labs-I & II which were a part of R-15 regulations is split into two different labs. The experiments in this lab are divided into thermal & design streams and introduced into the corresponding new labs rechristened as **Thermal Engineering lab & Applied mechanics lab**. By splitting the original lab into two, the number of experiments are also increased. The newly introduced Applied mechanics lab adds value to the practical exposure offered to the students. This lab is equipped with experimental setups drawn from the streams of kinematics, dynamics of machinery & design. This newly established facility is a feather in the cap of the mechanical engineering department as it can provide an opportunity for the faculty and students to execute projects practically which was not available earlier.
 8. The newly introduced skill development course titled **Computer Aided Modelling** and its course contents in R-20 curriculum were thoroughly debated in the meeting. The external BOS members were initially not convinced with the title. Moreover the contents being introduced were also found to be marginally short of the requirements of a full-fledged CAD course. The Chairman put forth the idea behind introducing this subject, which meets the guidelines given by APSCHE. APSCHE has directed the autonomous institutions to introduce at least five skill development courses in their course structure. The computer aided modelling is one such course and gives a comprehensive overview and practise using CAD software for producing real-time 3D machine components and their Assemblies. This approach will be a complete replacement of producing 2D machine components and their assemblies by conventional drawing. Further the syllabus will also be revised as per the instructions of expert members to include topics on Boolean operations and other basics of CAD.
 9. The percentage of **new courses added to the curriculum in R-20 regulation is around 7%** as compared to R-19 regulations. Similarly the number of **new courses added in R-19 regulations as compared to R-15 regulations stands at around 13%**. The percentage of syllabus revised in some of the courses for this academic year and **newly introduced courses are as given in the Annexure-1&2.**
 10. The AP state government has given a blueprint of the programmes that are being introduced from this academic year (2021-22). The HOD apprised the external BOS members on this blueprint provided by APSCHE and said that three additional programmes are being added to the existing B.Tech programme. The newly introduced programmes are (a) **B.Tech (Hon.)**, (b) **B.Tech with MAJOR in Mechanical and GENERALIZED MINOR in any other branch**, (c) **B.Tech in Mechanical with SPECIALIZED MINOR in any other branch**. The student has the opportunity to choose any of the four programmes being offered by the department which includes the normal B.Tech Mechanical.

The department of Mechanical engineering should therefore offer a B.Tech/B.Tech (Hon.) programme for its students, and a Generalized/Specialized Minor programmes in Mechanical for students of other branches.

11. The department has developed course structures for all the three new programmes and placed in the BOS for review. The experts after perusing the contents gave the following suggestions:

10.1- It is necessary to first layout the prerequisite subjects that a student has to complete in the preceding semester before encountering the subjects programmed in **B.Tech Honours**. This will ensure a free flow of the subject knowledge without any hitches.

10.2- The subjects introduced for mechanical minor courses were thoroughly examined by the external members and they felt that the normal stream subjects like machine design, Engineering mechanics etc., will not create interest in the students to opt for this programme. They advised either to introduce such subjects like Product Design, Statistical Quality Control etc., to make the programme relevant to their discipline (or) substitute this programme with a specialized minor in Industrial engineering. The chairman has taken note of this comment and said that the final decision will be taken.

10.3- The BOS members were satisfied with the programme being offered in **Robotics** as a specialized minor in mechanical engineering.

The external BOS members appreciated the efforts put in by the HOD and the faculty in preparing the course structures for the new programmes and syllabus for the subjects in R-19 & R-20 course structures. The newly introduced course structure and syllabus of subjects pertaining to III-Year (R-19) and II-year (R-20) were ratified by the BOS. The chairman finally thanked the external BOS members and all the faculty for their participation in the meeting.

MECH. ENGG.

CC to: 1) Principal

(for kind information)

2) Controller of examinations

Annexure-1&2 enclosed

To
file of BOS Book

24-6-21
PROFESSOR & HEAD
Department of Mechanical Engineering
JSSR INSTITUTE OF TECHNOLOGY & SCIENCE
Srinivasa-51 via VEDAKHAPATNAM Dist. A.P.



ANIL NEERUKONDA INSTITUTE OF TECHNOLOGY & SCIENCES (A)
DEPARTMENT OF MECHANICAL ENGINEERING

(Permanently Affiliated to Andhra University, AICTE, Accredited by NBA NAAC with 'A' Grade)
 Sangivalasa-531162, Bheemunipatnam Mandal, Visakhapatnam Dt.
 Phone 08933-225084, 226395

ANNEXURE-1

The following modifications in the syllabus were made in the R-20 curriculum for II-Year & R-19 curriculum for III-year compared to the previous curriculum.

Modifications made in R-20 curriculum compared to R-19 curriculum

Sl.No	R-19 course code	Course name	R-20 Course Code	Course name	% change in syllabus	Remarks
1	MEC 211	Engineering Mathematics - III	MEC 211	Engineering Mathematics - III	0	
2	MEC 212	Material science & Metallurgy	MEC 212	Material science & Metallurgy	0	No change
3	MEC 213	Engineering Mechanics	MEC 213	Engineering Mechanics	0	Topics from one unit are shifted to another unit and vice-versa.
4	MEC 214	Mechanics of solids	MEC 214	Mechanics of solids	5	Removed the topic on columns with eccentric loading
5	MEC 215	Basic Thermodynamics	MEC 215	Basic Thermodynamics	5	second law efficiency added in 3rd unit, Gibbs and Helmholtz Functions, Maxwell Relations, general expression for Cp and Cv added in 4th unit.
6	MEC 216	Manufacturing Processes	MEC 216	Manufacturing Processes	0	Textbooks, Reference books and web references were modified.
7	MEC 217	Mechanics of solids-Lab	MEC 217	Mechanics of solids-Lab	0	
8	MEC 218	Manufacturing-Lab	MEC 218	Manufacturing-Lab	0	
9	MEC 221	Engineering Mathematics -IV	MEC 221	Engineering Mathematics - IV	0	
10	MEC	Basic Electrical	MEC	Basic Electrical	0	

11	222 MEC 223	Engineering Applied Thermal Engineering-I	222 MEC 223	Engineering Applied Thermal Engineering-I	0	
12	MEC 224	Kinematics of Machinery	MEC 224	Kinematics of Machinery	25	In R-19, unit-2 is combined with unit-IV and two topics in unit-IV are removed and one topic in unit-2 is removed, and thus One unit (unit-III) is added in R-20 curriculum. Thus there will be 25% change in syllabus.
13	MEC 225	Metal cutting, Machine Tools & Metrology	MEC 225	Metal cutting, Machine Tools & Metrology	0	<p>1. In comparison to R 19, where mechanics of metal cutting was divided into Unit-1 & Unit-2, in R20 both these units were merged to as one unit (Unit-1). Also, the 'Introduction to surface finish' part has been removed from Unit-1 and placed in Unit-5.</p> <p>2. In R20, Unit's 2 & 3 topics are not altered. Except that, these were 3rd & 4th units in R19 syllabus.</p> <p>3. In R19, the Unit-5 part was totally Metrology part, which now is divided into 2 parts in R20 syllabus as Unit-4 & Unit-5.</p>
14	MEC 226	Mechanical Engineering Drawing (subject removed in R- 20)	MEC 226	Computer Aided Modelling	100	New skilled course introduced
15	MEC 227	Machine Tools Lab	MEC 227	Machine Tools Lab	25	<p>1. The experiment which is "Measurement of cutting forces on Milling Machine" in R19 regulations is now changed as "Spur gear cutting in machine"</p> <p>2. The experiment which is "Measurement of torque and thrust on Drilling machine" in R19 regulations is now changed as "Drilling and tapping on Radial Drilling machine".</p> <p>3. New experiment is added in R20 regulations i.e. "Surface roughness measurement by Talysurf surface roughness tester".</p>
16	MEC 228	**Basic Electrical & Electronics Engineering-Lab	MEC 228	**Basic Electrical & Electronics Engineering-Lab	0	

Modifications made in R-19 curriculum compared to R-15 curriculum

Sl.No	R-15 course code	Course name	R-19 Course Code	Course name	% change in syllabus	Remarks
1	MEC311	Open Elective-I	MEC311	***OpenElective-I	0	
			MEC312	HumanitiesElective		
2	MEC412	Managerial Economics and Financial Analysis	MEC312 (A)	Managerial Economics and Financial Analysis	0	
3	MEC322	Industrial Engineering and Management	MEC312 (B)	Industrial Engineering and Management	5	-In second unit of R15 last topic Computerized layout planning methods were removed.
4	MEC 416-IV	Entrepreneurship Development	MEC 312(C)	Entrepreneurship Development	0	
5			MEC 312(D)	Supply chain management	100	New course introduced
6			MEC313	DesignThinking	100	New course introduced
7	MEC314	Theory of Machines – II	MEC314	DynamicsofMachinery	20	In unit 2 (graphical method of dynamic analysis is removed) In unit 3 (balancing of uncouples locomotives) changed to (primary and secondary unbalanced forces of reciprocating masses. balancing of inline, v and radial engines are removed In unit V (Bifilar suspension) removed, Torsional vibration on Geared system removed.
8	MEC324	Engineering Thermodynamics- III	MEC315	AppliedThermalEngineeri ng-II	0	
9	MEC315	Design of Machine Elements-I	MEC316	DesignofMachineElement s-I	0	
10	MEC319	Verbal and Quantitative Aptitude –I	MEC317	QuantitativeAptitude- I&VerbalAptitude	0	

11	MEC328	Mechanical Engineering Lab – II	MEC318	Thermal Engineering Lab	50	ME-I & ME-II labs of R-15 are combined together as one lab
12			MEC319	Applied Mechanics-Lab	100	New lab introduced
13	MEC411	Open elective –II	MEC 321	***Open Elective-II	0	
	MEC326	Dept Elective-I	MEC 322	Professional Elective-I		
14	MEC 326-IV	Production Planning and Control	MEC322 (A)	Production Planning & Control	20	Manufacturing resource planning (MRP-II), Capacity requirement planning, Gantt charts are added & Just in time inventory, line of balance, applications of computer in PPC are removed. Industrial Engineering & Production Management by ManandTelsangtext book is added in place of PPC by M. Mahajan, Operations Research by S. D. Sharma.
15	MEC 415-I	Gas Turbines and Jet Propulsion	MEC 322(B)	Gas Turbines & Jet Propulsions	0	
16			MEC 322(C)	Additive Manufacturing	100	New course introduced
17			MEC322 (D)	Non-Destructive Testing	100	New course introduced
	MEC415	Dept Elective –II	MEC 323	Professional Elective-II		
18	MEC 416-I	Refrigeration and Air Conditioning	MEC323 (A)	Refrigeration & Air-conditioning	3	Added one topic in IV Unit (Vortex tube refrigeration)
	MEC 422-IV	Statistical Quality Control	MEC 323(B)	Statistical Quality Control	5	Crosby's Juran's quality philosophies are added & ku chart, use of Dodge-Romig tables are removed.
19	MEC 422-III	Computational Fluid Dynamics	MEC 323(C)	Computational Fluid Dynamics	0	
20	MEC 416-V	Nano Technology	MEC323 (D)	Nano Technology	0	
21	MEC325	Operations Research	MEC 324	Operations Research	5	In first unit added introduction to advanced optimization techniques and third unit removed resources smoothing
22	MEC312	Hydraulic Machinery and Systems (This subject is combined with fluid	MEC 325	Fluid Mechanics & Hydraulic Machinery	60	Introduced a new subject covering only fundamental and important topics of Fluid Mechanics (II-2) and Hydraulic Machines (III-1) and hence syllabus has been modified in all units.

		mechanics in R19)				
23	MEC223	Fluid Mechanics				
24	MEC323	Design of Machine Elements-II	MEC 326	Design of Machine Elements-II	5	In Unit-1 Wording has been changed In Unit-3 Disc brakes are added
25	MEC329	Verbal and Quantitative Aptitude -II	MEC 327	Quantitative Aptitude-II & Soft Skills	50	Soft skills lab included
26	MEC316	FMM Lab	MEC 328	Fluid Mechanics & Hydraulic Machinery - Lab	10	Two experiments in the list removed
27	MEC327	Metrology & Mechatronics Lab	MEC 329	Metrology & Mechatronics-Lab	35	In R-15 we have 14 sets of experiments, out of which 4 are removed (3 from mechatronics(2 are removed and 1 Expt. is combined with the other) & 1 from metrology) and 1 Expt in metrology is made into 3 Expt by including extra analysis, so totally 5 changes out of 14 = 35%
28	MEC321	Manufacturing Technology - III			0	Subject removed
29	MEC317	Manufacturing Technology Lab-II			0	Already appeared in II-year-II-sem, MEC 227 as Machine Tools-lab
30	MEC318	Soft Skills lab			0	Merged with MEC 327
31	MEC313	Engineering Thermodynamics - II			0	Already appeared in II-year-II-sem, MEC 223 as Applied Thermal engineering-I

24/6/2
HOD
Mech. Engg

PROFESSOR & HEAD
Department of Mechanical Engineering
Sri Venkateswara Engineering College
Sri Venkateswara Engineering College
Sri Venkateswara Engineering College



ANIL NEERUKONDA INSTITUTE OF TECHNOLOGY & SCIENCES (A)

DEPARTMENT OF MECHANICAL ENGINEERING

(Permanently Affiliated to Andhra University, AICTE, Accredited by NBA NAAC with 'A' Grade)
Sangivalasa-531162, Bheemunipatnam Mandal, Visakhapatnam Dt.
Phone 08933-225084, 226395

ANNEXURE-2

New subjects introduced in R-20 Curriculum compared to R-19 curriculum

Sl.No	Subject Code	Name of the subject
1.	MEC 125	Advanced Engineering Graphics
2.	MEC 226	Computer Aided Modelling
3.	MEC 312(B)	Statistical Quality Control
4.	MEC 328	Computer aided Design and Manufacturing Lab
5.	MEC 414(D)	Product Design & Manufacturing

Revised course titles in R-20 Curriculum compared to R-19 curriculum

S No	Course title as per R -19 regulations	Course title as per R-20 regulations
1	Engineering Drawing	Engineering Graphics
2	Basic Electrical Engineering Lab	Basic Electrical & Electronics Engineering Lab
3	Applied Mechanics Lab	Kinematics and Dynamics of Machinery Lab

New subjects introduced in R-19 Curriculum compared to R-15 curriculum

Sl.No	Subject Code	Name of the subject
1.	MEC 114	Biology for Engineers
2	MEC 124	Basics of Electronics Engineering
3	MEC 312(D)	Supply chain management
4	MEC313	Design Thinking
5	MEC319	Applied Mechanics Lab
6	MEC 322(C)	Additive Manufacturing
7	MEC322(D)	Non-Destructive Testing
8	MEC 412(C)	Unconventional Machining Process
9	MEC 412(D)	Quality & Reliability Engineering
10	MEC 413(B)	Alternate Fuels
11	MEC 413(C)	Industrial Tribology

Revised course titles in R-19 Curriculum compared to R-15 curriculum

S No	Course title as per R -15 regulations	Course title as per R-19 regulations
1	Engg. Thermodynamics -I	Basic Thermodynamics
2	Engg. Thermodynamics - II	Applied Thermal Engineering -I
3	Engg. Thermodynamics -III	Applied Thermal Engineering -II
4	Theory of Machines -I	Kinematics of Machinery
5	Theory of Machines -II	Dynamics of Machinery

6	Manufacturing Technology - I	Manufacturing Processes
7	Manufacturing Technology - II	Metal cutting, Machine Tools & Metrology
8	Machine Drawing	Mechanical Engineering Drawing
9	Computer Aided Design	Computer Aided Design & Manufacturing
10	Computer Aided Design Lab	Computer Aided Design & Manufacturing Lab
11	Manufacturing Technology Lab -I	Manufacturing Lab
12	Manufacturing Technology Lab -II	Machine Tools Lab
13	Strength of Materials Lab	Mechanics of Solids Lab

17/24/21
 H.O.D
 Dept. of Mech.Engg.

PROFESSOR & HEAD
 Department of Mechanical Engineering
 ANL NEERUKONDA INSTITUTE OF TECHNOLOGY & SCIENCE
 Sangivalasa-531 102 VISAKHAPATNAM Dist. A.P.



ANIL NEERUKONDA INSTITUTE OF TECHNOLOGY & SCIENCES

(Autonomous)

(permanently Affiliated to Andhra University, Accredited by NBA & NAAC with "A" grade)

Sangivalasa 531162, Bheemunipatnam Mandal, Visakhapatnam Dist

Phone: 958933-226395, 225084, 225085

DEPARTMENT OF MECHANICAL ENGINEERING

Honor subjects offered by the department of Mechanical Engineering (R20)

I. Honor subjects:

a. Manufacturing pool

- i. Micro Electro Mechanical Systems (MEMS)
- ii. Advanced Manufacturing Methods
- iii. Design for Manufacturing & Assembly
- iv. Machine Tool Design

b. Thermal Engineering pool

- i. Fuels and Combustion Thermodynamics
- ii. Energy Audit and Management
- iii. Advanced Technologies in Automotive Engines
- iv. Advanced Fluid Mechanics

c. Design pool

- i. Composite materials
- ii. Introduction to Fracture Mechanics
- iii. Mechanics of Machinery
- iv. Engineering Tribology

d. Industrial Engineering pool

- i. Work system Design
- ii. Manufacturing planning and control
- iii. Quality engineering and management
- iv. Inventory control and supply chain management

PROFESSOR & HEAD
Department of Mechanical Engineering
ANIL NEERUKONDA INSTITUTE OF TECHNOLOGY & SCIENCES
Sangivalasa 531162 VISAKHAPATNAM Dist

24-6-21



ANIL NEERUKONDA INSTITUTE OF TECHNOLOGY & SCIENCES
(Autonomous)

(permanently Affiliated to Andhra University, Accredited by NBA & NAAC with "A" grade)
Sangivalasa 531162, Bheemunipatnam Mandal, Visakhapatnam Dist

Phone: 958933-226395, 225084, 225085

DEPARTMENT OF MECHANICAL ENGINEERING

Minor subjects offered by the department of Mechanical Engineering (R20)

I. Generalized Minor subjects:

- i. Elements of Mechanical Engineering
- ii. Principles of Manufacturing processes
- iii. Fundamentals of Mechanical Design
- iv. Operations Research
- v. Automobile Engineering
- vi. Waste to energy conversion

II. Specialized minor in Robotics:

- i. Principles of Robotics
- ii. Elements of Mechatronics
- iii. Computer-Aided Manufacturing
- iv. Autonomous Vehicles
- v. Pneumatics and Hydraulics
- vi. Flexible Manufacturing Systems

R. Seikamth

Convener, IQAC
Anil Neerukonda Institute of
Technology & Sciences
Sangivalasa-531 162
Visakhapatnam Dist.

AS

Principal
Anil Neerukonda Institute of
Technology & Sciences
Sangivalasa- 531 162
Visakhapatnam Dist.

24-6-21

PROFESSOR & HEAD
Department of Mechanical Engineering
ANIL NEERUKONDA INSTITUTE OF TECHNOLOGY & SCIENCES
Sangivalasa-531 162 VISAKHAPATNAM Dist. A.P.

Board of Studies

(BOS)

AY 2020-21



ANIL NEERUKONDA INSTITUTE OF TECHNOLOGY & SCIENCES
(UGC Autonomous)

(Affiliated to AU, Approved by AICTE & Accredited by NBA & NAAC with 'A' Grade)
Sangivalasa 531 162, Bheemunipatnam Mandal, Visakhapatnam Dist

Date: 30-05-2020

Dear Prof. P.S.T. Sai,

Professor, Department of Chemical Engineering

IIT M, Chennai

Sub: ANITS – Meeting of the Board of Studies on 6th June, 2020

Greetings from ANITS,

Trust this finds you in good health & spirits. As you would recall ANITS under autonomous status had been paving successful path for the last five academic years with your expert guidance and advice.

Now, in order to continue the same spirit and zeal, the sixth meeting of Board of Studies is scheduled to be held on **Saturday, the 6th June, 2020 at 10:00 AM** through online.

The agenda of the meeting is to finalize the 2nd year syllabus of R – 2019 under the autonomous status from the academic year 2020-21 and any other issue with the permission of the chair.

We shall be grateful if you kindly make it convenient to give your august presence in the meeting. The draft curriculum and the syllabus shall be sent soon for your peer review.

With warm regards,

Prof. T. V. Hanumantha Rao

PRINCIPAL



ANIL NEERUKONDA INSTITUTE OF TECHNOLOGY & SCIENCES

(UGC AUTONOMOUS)

(Affiliated to AU, Approved by AICTE & Accredited by NBA & NAAC with 'A' Grade))

Sangivalasa 531 162, Bheemunipatnam Mandal, Visakhapatnam Dist

DEPARTMENT OF CHEMICAL ENGINEERING

06-06-2020

Minutes of the meeting of the Board of Studies, Department of Chemical engineering (UG) held on 06-06-2020 at 10.00 AM through online (Skype platform).

Members present:

- | | |
|---------------------------|-------------------------------------|
| 1. Dr. Ch. Anil | Chairman, BOS, Chemical Engineering |
| 2. Prof. S. Subba Rao | Member |
| 3. Prof. R. Srikanth | Member |
| 4. Dr. M. Shiva Naresh | Member |
| 5. Prof. P.S.T. Sai | Member, Academic council nominee |
| 6. Prof S. V. Naidu | Member, Andhra University nominee |
| 7. Dr. A. Srinivasa Kumar | Member, Industry / Research |

Resolutions:

Chairman welcomed all the members for the BoS meeting.

- 1) The modifications made in the structure were presented to the members to make it inline with the AICTE model curriculum.
- 2) Syllabi for II/IV B. Tech. Chemical Engineering I and II Semesters were discussed and the experts felt satisfactory about the same.
- 3) Dr. A. Srinivas Kumar felt to include nanotechnology related separation techniques in MO theory or Lab course. Dr. M. Shiva Naresh informed that an elective course on Nanotechnology will be offered in final year where the students will be exposed to these techniques. Prof. S.V. Naidu asked to change the title of 2nd unit in MO theory course.
- 4) Prof. S.V. Naidu suggested to name the title of the 2nd part of the 5th unit of Numerical Methods in Chemical Engineering course as Numerical solutions of PDEs and include "Introductory methods of Numerical Analysis" by S. S. Sastry as text book. He also suggested to see that there will be no repetition of topics in Engineering Mathematics – IV and Numerical Methods in Chemical Engineering.
- 5) Prof. S. V. Naidu suggested to include solving of PDEs in Computational lab course. Dr. A. Srinivas Kumar advised to test the depth of understanding in computational lab instead of teaching many tools. Dr. Ch. Anil informed that one of the tools will be taught in the course and care will be taken to focus on depth of understanding.
- 6) Prof. P.S.T. Sai enquired whether credits will be given based on O column in the course structure. Dr. Ch. Anil informed that the O is just to indicate the students to

study those hours at home. They will not be taken into consideration for the allocation of credits.

- 7) The committee, in view of pandemic COVID – 19 suggested to follow the guidelines made by UGC / AICTE in conducting classes, examinations and in adopting evaluation procedures.

With these modifications, the committee approved the 2nd year syllabus.

Dr. Anil
(Dr. Ch. Anil)
Chairman, BOS

HEAD,
DEPARTMENT OF CHEMICAL
ENGINEERING

Principal
Principal

Anil Neerukonda Institute of
Technology & Sciences
Sangivalasa- 531 162
Visakhapatnam Dist

R. Sridhar
Convener, IQAC
Anil Neerukonda Institute of
Technology & Sciences
Sangivalasa-531 162
Visakhapatnam Dist.



Anil Neerukonda Institute of Technology & Sciences (Autonomous)

(Affiliated to AU, Approved by AICTE & Accredited by NBA & NAAC with 'A' Grade)

Sangivalasa-531 162, Bheemunipatnam Mandal, Visakhapatnam District

Phone: 08933-225083/84/87

Fax: 226395

Website: www.anits.edu.in

email: principal@anits.edu.in

Department of Civil Engineering



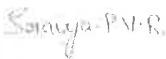
List of new courses introduced and approved in the BoS meeting held on 30/03/2019 for the academic year 2019-2020.

Regulation: R19

S.No	Name of the Course	Course Code	Year & Sem
1.	Building Technology	CIV114	I/IV, Sem-I

BOS External Members list

S.No	Name & Designation	Signature
1	Prof. G. Apparao Professor, Dept. of Civil Engineering, IIT, Chennai - 600036, Tamilnadu, INDIA	
2	Dr. B.V.S. Viswanadham, Professor, Department of Civil Engineering, IIT, Bombay, Mumbai, Maharashtra - 400076	
3	Dr. C. N. V. Satyanarayana Reddy, Professor, Department of Civil Engineering, Andhra University College of Engineering (A), Visakhapatnam - 530003	
4	Dr. B.N.D. Narasinga Rao Professor & Head-Civil, ANITS Chairman (BoS-Civil)	
5	Prof. A. Rama Mohana rao, Professor of Civil engineering, ANITS	
6	Sri J. Vikranth, Associate Professor of Civil engineering, ANITS	

7	Sri T.V.V Teja, Assistant Professor of Civil engineering, ANITS	
8	Sri I. Kiran kumar Assistant Professor of Civil engineering, ANITS	
9	Sri P.V.R Sravya, Assistant Professor of Civil engineering, ANITS	

Date: 31.05.2020

Minutes of BoS Meeting (Online via Skype) held on 31st May, 2020

Members Present:

- | | |
|----------------------------------|---|
| 1. Dr. B V S Viswanadham | Professor, IIT(B), External Member |
| 2. Dr. G Appa Rao | Professor, IIT(M), External Member |
| 3. Dr. C N V Satyanarayana Reddy | Professor, AU, University Nominee |
| 4. Sri. D Kasi Visvesvara Rao | Industry Member |
| 5. Dr. J Vikranth | Assoc. Professor |
| 6. Mr. M K S S K Chaitanya | Asst. Professor |
| 7. Mrs. P V R Sravya | Asst. Professor |
| 8. Mr. T V Viswa Teja | BoS-Civil Coordinator, Asst. Professor |
| 9. Mr. M Prem Chand | Asst. Professor |
| 10. Mr. Ch Srinivas | Asst. Professor |
| 11. Mr. K Suryanarayana | Asst. Professor |
| 12. Mr. J Harshavardhana Reddy | Asst. Professor |
| 13. Mr. N A N P Vital | Asst. Professor |
| 14. Dr. B.N.D. Narasinga Rao | Asst. Professor
Professor & HoD (In Chair) |

Agenda:

- 1) Consideration of 4-Year Course structure for B.Tech. (Civil Engineering) under R-19 Regulations
- 2) Consideration of Syllabus for II Year I Semester and II Year II Semester B.Tech. (Civil Engineering) under R-19 Regulations
- 3) Paper setters for II Year I semester and II semester B.Tech (Civil Engineering)
- 4) Online examinations during lockdown
- 5) Any other item with the permission of the chair

Discussions & Resolutions:

1. The 4-Year Course structure for B.Tech. (Civil Engineering) under R-19 Regulations, circulated earlier by email is ratified.
2. Considered the detailed syllabus for II Year I semester and II semester B.Tech Civil Engineering under R-19 Regulations, for discussion and approved the same with necessary minor corrections.
3. The Board has authorized the Head of Department, Civil Engineering, ANITS to make minor changes in the syllabus, if deemed necessary, based on the feedback given by the concerned subject faculty member(s), keeping 90% to 95% of the overall content same.


4. Changes in syllabus effected is as given below

R20 - I B.Tech syllabus - No change


R19 - II B.Tech syllabus

CIV 212 - Building Planning and Drawing - 10 %

5. List of paper setters for II Year B.Tech. Civil Engineering under R-19 Regulations is considered and approved. The Board, however, has authorized the Head of Department, Civil Engineering, ANITS to add or modify the list wherever necessary.
6. Members were informed that in view of lockdown due to COVID19, the Mid-II examinations for II and III Year II Semester students were conducted online in open book model. Members were also informed that the Project work end semester Viva examination was also conducted online through Skype based on UGC lockdown guidelines.
7. Discussed the innovative Teaching and Evaluation Techniques.


(Dr. B.N.D. NARASINGARAO)
Professor & Head
Dept. of Civil Engineering

Dr. B.N.D. Narasingarao
Professor & Head
Department of Civil Engineering
Neerukonda Institute of Technology and Sciences
Sangivalasa, Eluru, West Godavari Dist.
Visakhapatnam - 531162


Convener, IQAC
Anil Neerukonda Institute of
Technology & Sciences
Sangivalasa-531 162
Visakhapatnam Dist.


Principal
Anil Neerukonda Institute of
Technology & Sciences
Sangivalasa- 531 162
Visakhapatnam Dist.



ANIL NEERUKONDA INSTITUTE OF TECHNOLOGY & SCIENCES

'UGC AUTONOMOUS'

(Permanently Affiliated to Andhra University, Approved by AICTE, Accredited by NBA & NAAC with 'A' Grade)

SANGIVALASA - 531 162, BHEEMUNIPATNAM MANDAL, VISAKHAPATNAM DIST.,

Phones : 08933 - 225083, 225084, 226131, Fax: 08933 - 226395

Website : www.anits.edu.in

e-mail : principal@anits.edu.in

Minutes of the meeting of the Board of Studies Dept. of CSE (UG & pg)

Held on 23-05-2020

Department of Computer Science & Engineering

Members Present:

S. No	Name of the faculty	Designation	Category	Signature of the member
1.	Dr. R.Sivaranjani	HoD & Professor, CSE, ANITS	Chairman, BOS, CSE	
2.	Dr M Rama Krishna Murty	Professor, CSE, ANITS	Member	
3.	Mr. S. Ratan Kumar	Associate. Professor, CSE, ANITS	Member	
4.	Dr J Hyma, Associate	Professor, CSE, ANITS	Member	
5.	Dr K S Deepthi	Associate. Professor., CSE, ANITS	Member	
6.	Mr. G.Jagadish	Assistant. Professor., CSE, ANITS	Member	
7.	Dr. K. Suresh	Assistant. Professor., CSE, ANITS	Member	
8.	Dr. B Prajna	Professor, CSE, AUCE	University Nominee	
9.	Dr. KVSVN RAJU	Professor, CSE, GVPC Degree & PG Courses	Member	
10.	Mr. T. ShyamVamsi	IBM , Chennai, Alumni	Industry	
11.	Dr. S. Raja	Scientist "G", Ex Associate Director, NSTL, Visakhapatnam	Industry	
12.	Roy Antony Arnold George Charles	Manager, Campus Connect, Infosys Technologies, Hyd	Industry	

**Anil Neerukonda Institute of Technology and Sciences
(Autonomous)**

(Affiliated to AU, Approved by AICTE, Accredited by NBA and NAAC with 'A' Grade)

Minutes of Board of Studies Meeting

Department of CSE

Minutes of the Meeting:

Subject : Board of Studies-Bachelor of Technology (CSE)
Date : 23-05-2020
Agenda : 1) Overview of B Tech CSE with Data Science Course Structure -R20
2) Overview of B Tech CSE with AI & ML Course Structure -R20
3) 2/4 B Tech CSE Syllabus in R19

The following members were present in the meeting:

- Dr. R. Sivaranjani, HoD & Professor, CSE, ANITS Chairman, BOS, CSE *RS*
- Dr. M. Rama Krishna Murthy, Professor, CSE, ANITS, Member *g*
- Mr. S. Ratan Kumar, Associate Professor, CSE, ANITS, Member *R*
- Dr. J. Hyma, Associate Professor, CSE, ANITS, Member
- Dr. K. S. Deepthi, Associate Professor, CSE, ANITS, Member - *Deepthi*
- Mr. G. Jagadish, Assistant Professor, CSE, ANITS, Member - *GJ*
- Dr. K. Suresh, Assistant Professor, CSE, ANITS, Member *KS*
- Dr. B. Prajna, Professor, CSE, AUCE University Nominee
- Dr. KVSVN RAJU, Professor, Department of Computer Science And Engineering, GVPC Degree & PG Courses Member
- Mr. T. Shyam Vamsi, IBM, Chennai, Alumni, Industry
- Dr. S. Raja, Scientist "G", Associate Director, NSTL, Visakhapatnam, Industry
- Roy Antony Arnold George Charles, Manager, Campus Connect, Infosys Technologies, Hyd, Industry

Chairman BOS officially welcomed all the internal and external members of the Board of Studies committee for the BOS meeting of B. Tech-CSE, 2020.

Anil Neerukonda Institute of Technology and Sciences (Autonomous)

(Affiliated to AU, Approved by AICTE, Accredited by NBA and NAAC with 'A' Grade)

On behalf of CSE, ANITS, Mr. S. Ratan Kumar, Assoc. Prof., Dept. of CSE welcomed the BOS committee and deliberated a quick view on R15 and R19 course structures which are modified to 160 credits according to the guidelines of AICTE and APSCHB.

The discussion started with the presentation of course structures of specialization courses (Data Science and AI&ML) with a detailing of their necessity in the current emerging scenario. It was mentioned 20 out of 160 credits are allotted for mandate courses of specialization. The four-year course structure is presented with a comparison to R19 BTech, in specific to number of professional and open electives.

The in-detail presentation started with---

- **Agenda 1: B Tech CSE with Data Science Course Structure -R20**

On this the external members have made the following deliberations:

- When it comes to the specialization course, the functional points like strategy for taking student input, course execution by department in various aspects have to carefully monitored.
- The core subjects of the CSE should not be neglected in view of accommodating the space for specialization courses.
- Cloud Computing subject syllabus has to be prepared inline with the industry requirements.
- Scope of the subject has to be reverified in Embedded Control Design.
- 4G/5G Networks can be introduced in place of Parallel Computing.
- Human Computer Interaction can be replaced with some other better option.
- In track 7, NOSQL can be introduced
- Track name "Natural Language Processing" can be changed to Speech and Text Processing or with some other better option.

- **Agenda 2: B Tech CSE with AI & ML Course Structure -R20 is presented.**

On this the external members have made the following deliberations:

- AI & ML Specialization and Data Science Specialization is close to each other, as there will be a chance of getting overlap in the course contents, it is suggested to carefully plan the tracks and other mandate subjects with respect to each other.
- Experiments in Deep Learning and Machine Learning should be properly framed without any overlap.
- Data Analysis course and lab can be replaced with some other option related to AI, provided there is no much dependency with AI and ML.
- In place of Data Analysis lab, lab courses related to the Industrial needs like creation of Bots etc can be revisited.

Anil Neerukonda Institute of Technology and Sciences (Autonomous)

(Affiliated to AU, Approved by AICTE, Accredited by NBA and NAAC with 'A' Grade)

- Robotics and Robotics Lab in place of Data Analysis is suggested and needs to be finalized.
- Agenda 3: 2/4 B Tech CSE Syllabus in R19 is presented.

Following the resolutions are taken after a rigorous discussion, debate among the members.

SEMESTER- 3

- Prescribed text book for Data Structures is suggested to take by Mark Allen Weiss.
- In JAVA, UNIT-4 and UNIT-5 are suggested to replace by OOPs with JAVA and J2EE.
- For Data Communication the prescribed and reference books are suggested to be interchanged and title also should be according to that.
- In the syllabus of Data Communication asked to check for the possibility to introduce IOT related protocols, Short range networks.
- Design thinking must be handled with different activities. If possible bring experts from Outside to handle the course.
- Java Lab experiments must be designed as case studies


SEMESTER- 4

- In Microprocessor subject recent processor study has to be incorporated.

General Suggestions given by the external committee:-

- Number of prescribed textbooks should not be more than 1, it should be limited to maximum of 2 when the syllabus highly demands.
- Design Techniques in R19 subject has to be taught by computer science faculty to get an its application perspective to the Computer Science domain.
- Competitive programming in R19 should not be language specific and logic building part needs to addressed more.
- In labs scenario-based experiments have to be framed.
- Julia Programming can be introduced if possible.
- Proctoring system has to be improved. Like each proctor can take 5 second year students ,5 3rd Year students and 5 from final year not like in the existing system where each proctor is assigned with 15 from the same section.

Finally, the meeting ended with vote of thanks by BOS chairman.


Prof. (Dr) R Sivaranjani
Chairman
BOS-CSE



Anil Neerukonda Institute of Technology & Sciences (Autonomous)

(Affiliated to AU, Approved by AICTE & Accredited by NBA & NAAC with 'A' Grade)
Sangivalasa-531 162, Bheemunipatnam Mandal, Visakhapatnam District
Phone: 08933-225003/84/87 Fax: 226395
Website: www.anits.edu.in email: principal@anits.edu.in

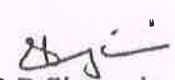
Department of Computer Science & Engineering

List of new courses introduced in the Board of Studies (BoS) meeting held on 23-05-2020 for the academic year 2020-21

S. No	Name of the Course	Course Code	Year & Semester
1.	DESIGN THINKING & PRODUCT INNOVATION	CSE216	II/IV, Sem -1



(R. SIVARAJANI)


(K. S. V. RAO)


Prof. (Dr) R Sivarajani,
Chairman,
BOS-CSE Dept.

Head of the Department of
Computer Science & Engineering
Anil Neerukonda Institute of
Technology & Sciences
Sangivalasa, Visakhapatnam Dist


Convener, IQAC
Anil Neerukonda Institute of
Technology & Sciences
Sangivalasa-531 162
Visakhapatnam Dist.


Principal
Anil Neerukonda Institute of
Technology & Sciences
Sangivalasa- 531 162
Visakhapatnam Dist

6th BOS Meeting

Created by: Dr. Rajya lakshmi Valluri

Time

9:30am - 11am (India Standard Time - Kolkata)

Guests

- ✓ cbraokota.ece@jntukucev.ac.in
- ✓ Dr. Rajya lakshmi Valluri
- ✓ prakriya2212@gmail.com
- director@iiitt.ac.in
- ECE

Date

Wed May 27, 2020

Description

6th meeting of the BOS, Department of ECE (UG) held on 27.05.2020 at 9.30 AM through video conference.

Agenda:

1. To finalize the 2nd year syllabus of R-19
2. New M.Tech Program in VLSI Design and Embedded Systems--Dept of ECE
2. Any other item with the permission of the chair

My Notes

ANIL NEERUKONDA INSTITUTE OF TECHNOLOGY & SCIENCES
(UGC AUTONOMOUS)

(Affiliated to AU, Approved by AICTE & Accredited by NBA)
Sangivalasa-531162, Bheemunipatnam Mandal, Visakhapatnam Dt.
Phone: 08933- 225084.226395

Website: www.anits.edu.in

email: principal@anits.edu.in

Minutes of the 6th meeting of the Board of Studies, Dept. of ECE(UG) held on 27.05.2020 at 09:30 AM through video conference

S.No	Name of the member	Designation	Category
1.	Dr. V. Rajya Lakshmi	Head, ECE, ANITS	Chairman, BOS, ECE
2.	Dr.K.MuraliKrishna	Prof., ECE, ANITS	Member
3.	Dr. G.ManmadhaRao	Prof., ECE, ANITS	Member
4.	Mr. S. Balaramamurthy	Assoc. Prof., ECE, ANITS	Member
5.	Dr.B.SomaSekhar	Assoc. Prof., ECE, ANITS	Member
6.	Dr.ChPraveeenBabu	Assoc. Prof., ECE, ANITS	Member
7.	Dr.S.Srinivas	Assoc. Prof., ECE, ANITS	Member
8.	Dr.P.MurgaPandiyan	Assoc. Prof., ECE, ANITS	Member
9.	Dr.S.Ravi	Assoc. Prof., ECE, ANITS	Member
10.	Dr.D.EaswaraChaitanya	Asst. Prof. ECE, ANITS	Member
11.	Mr. D. Anilprasad	Asst. Prof. ECE, ANITS	Member
12.	Mr. J. BhaskaraRao	Asst. Prof. ECE, ANITS	Member
13.	Mr. A. Lakshminarayana	Asst. Prof. ECE, ANITS	Member
14.	Mr. Vijaya Kumar Sahu	Asst. Prof. ECE, ANITS	Member
15.	Mr.N.Srinivasa Naidu	Asst. Prof. ECE, ANITS	Member
16.	Prof. P. Ramakrishna Rao	Advisor, ANITS	Academic council nominee
17.	Prof K. Chandra BhusahanRao	Prof., Dept of ECE, JNTUV	Academic council nominee
18.	Prof.N.V.S.N.Sharma	Prof., Dept of ECE, NITW	University Nominee
19.	Mr.N.Srinivas	Avantel, Visakhapatnam	Industry
20.	Mr. M. Durga Prasad	JTO, BSNL	Alumni
21.	Prof.K.S.RangaRao	Prof., ECE, ANITS	Member
22.	D.Tarun Rama sai	Student	Member
23.	P.Harsha Vardhan	Student	Member
24.	R.Lahari	Student	Member

Approval for R-20 Scheme- F
S
i Valluri <hod_ece@an

Thu, Dec 17, 2020 a
ece@jntukucev.ac.in>, I

char
, srinivas s
sa Naidu
, "Dr.A.Lakshmi Narayan
JITS
lu.in>, prasanna ece

nics. With your valuable
approved by BOS and Ac

), Internship(PR)-2nd an
Science(ES), Open
redits.

uring the summer vacati

nor changes in V, VI, VII

e) along with APSCE

e (SC)
in internship during sum

redits

ar Internship/Project in



(UGC AUTONOMOUS)
(Affiliated to AU, Approved by AICTE & Accredited by NBA)
Sangivalasa-531162, Bheemunipatnam Mandal, Visakhapatnam Dt.

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Minutes of the 6th meeting of the BOS, Department of ECE (UG) held on 27.05.2020 at 9.30 AM through video conference.

1. To finalize the 2nd year syllabus of R-19
2. New M.Tech Program in VLSI Design and Embedded Systems—dept of ECE
3. Any other item with the permission of the chair

The chairperson, Dr.V.Rajya Lakshmi, HOD, dept of ECE, ANITS hosted the online meeting conducted through video conference and welcomed all the BOS members present. The Committee discussed the contents in the 2nd year syllabus of R-19 and made the following recommendations/suggestions subject wise.

1. a) EM-III

Prof. NVSN Sharma, Director IIIT, Trichy advised to modify Partial Differential Equations & Fourier series in view of applications of Electronic Circuits suggested including one URL Link in references section.

b) Computer Architecture and Organization

Prof. NVSN Sharma, Director IIIT, Trichy advised to handle CAO course by ECE faculty. Prof.K.ChandraBhusan Rao, JNTUV, suggested to ensure that the prerequisites are to be met before commencement of any course. He also advised to check the mismatch in CO-PO Mapping table of CAO from that of other courses.

c) Digital Logic Design

Prof. NVSN Sharma, Director IIIT, Trichy advised to incorporate code converters in the syllabus that are being dealt in any DC course.

d) Signals & Systems

Prof. NVSN Sharma, Director IIIT, Trichy, suggested that faculty who handles that course need to discuss all the Time Varying Systems in advance and then linear time variant systems, DFT & DTFT in detail. He also advised to add topics on identifying a system and to how to diagnose it along with incorporating Matlab oriented Books in references. He suggested discussing more about Under Sampling in Unit-V for its demand in recent applications.

Prof. P. Ramakrishna Rao, Advisor, ANITS, suggested to include the topic Complex variable theory in course EM-III.

e) ECA-I

Prof. NVSN Sharma, Director IIIT, Trichy, advised to elaborate the contents in topic attenuators.

f) ECA-I LAB

Prof. NVSN Sharma, Director IIIT, Trichy, advised to combine experiments 3,4 & 5 and name it as Rectifiers in different configurations and advised to remove reference books in Lab course.

g) Simulation LAB

Prof. NVSN Sharma, Director IIIT, Trichy, advised to include digital clock type of projects after all experiments. He advised to replace the title of VHDL with HDL.

Prof.K.ChandraBhusan Rao, JNTUV, suggested adding online resources in references.

h) Human Values and Professional Ethics

Prof. NVSN Sharma, Director IIIT, Trichy, advised to mention the name of department handling that course.

Prof. P. Ramakrishna Reddy, Advisor, ANITS, suggested to teach the course by guest lectures.

i) EM-IV

Prof. NVSN Sharma, Director IIIT, Trichy, advised to frame Mathematics syllabus in such a way that it should support the core branch Electronics and Communication Engineering. He suggested to finalizing the syllabus after undergoing a thorough discussion among faculty belonging to Mathematics and ECE.

j) Control Systems

It is informed by chairperson that the syllabus is framed by department of EEE in accordance with syllabus in GATE EXAM and it is being taught by EEE faculty

k) ECA-II

Prof. NVSN Sharma, Director IIIT, Trichy, informed that the faculty has to avoid Black Board and use ICT Teaching methods to cover syllabus in time, and also suggested to classify the Power Amplifiers & MOSFET's considering present applications.

l) Analog Communication

Prof. NVSN Sharma, Director IIIT, Trichy, advised to include the topics Pre-emphasis and De-emphasis at circuit level along with applications. He also suggested to add capturing effect in FM.

m) EMFT

Prof. NVSN Sharma, Director IIIT, Trichy, suggested modifying the title of the course as "Electromagnetic Waves & Transmission Lines". He also informed that starting the course with transmission lines is advisable and suggested to reorder the units accordingly.

n) MPMC

Prof. NVSN Sharma, Director IIIT, Trichy, suggested to include topics like interfacing video camera or communication related device instead of stepper motor.

o) ECA-II LAB

Prof. NVSN Sharma, Director IIIT, Trichy, suggested to rename the experiments related to feedback amplifiers in order avoid ambiguity. Also advised to include an experiment to determine the output impedance of a given amplifier and oscillator.

p) MPMC LAB

Prof. NVSN Sharma, Director IIIT, Trichy, suggested including experiments that enable better understanding of Micro controller in this lab.


q) Prof. NVSN Sharma, Director IIIT, Trichy, informed that specifying marks in the syllabus has no significance in credit-based programs and advised to write the maximum marks for which internal exams and external exams are being conducted with duration of time.


r) External BOS members advised to encourage students to consider this lockdown to be good opportunity for Startups to ask recruiters for conducting sessions to encourage students during this lockdown.

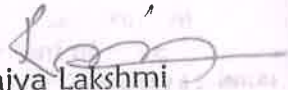
2. BOS recommended the proposal of starting an M.Tech course in VLSI Design and Embedded Systems in Electronics and Communication Engineering Department of the Institute.

3. Chairperson appraised all members about pass percentage of 19 batch & placements of 20 batch and activities of faculty during lockdown, she also informed members that mid2 exams, project viva voce conducted online.

Meeting concluded with a vote of thanks presented by Mr.D.Anil Prasad, Academic Coordinator, to all the members.


Convener, IQAC
Anil Neerukonda Institute of
Technology & Sciences
Sangivalasa-531 162
Visakhapatnam Dist.


Principal
Anil Neerukonda Institute of
Technology & Sciences
Sangivalasa- 531 162
Visakhapatnam Dist


Dr.V.Rajya Lakshmi
Chairperson, BOS & HOD, EC
ANITS
Head of the Department
Department of ECE
Anil Neerukonda Institute of Technology & Sciences
Sangivalasa-531 162



6th meeting of the BOS, Department of ECE (UG) held on 27.05.2020 at 9.30 AM through video conference.

Lined area for notes or minutes.



ANIL NEERUKONDA INSTITUTE OF TECHNOLOGY & SCIENCES

(Permanently Affiliated to Andhra University, Approved by AICTE)

Sangivalasa-531 162, Bheemunipatnam Mandal, Visakhapatnam District

DEPARTMENT OF **ELECTRICAL & ELECTRONICS ENGINEERING**

Accredited by NBA

Minutes of the online meeting of the Board of Studies, Department of EEE (UG) held on 12th June 2020 at 3.00 PM. (Under Autonomous System)

MEMBERS PRESENT:

S. No.	Name	Designation	Category	Signature of the members
1	Dr. Guntu Raja Rao	Head, EEE, ANITS	Chairman,	Attended online
2	Dr. J. Vijaya Kumar	Professor, EEE,	Member	
3	Dr. V. Murali	Assoc. Prof., EEE,	Member	
4	Mr. S. Balamurali	Assoc. Prof., EEE,	Member	
5	Mrs. K.V.R. Swathi	Asst. Prof., EEE,	Member	
6	Mr. Kavala Kiran Kumar	Asst. Prof., EEE,	Member	
7	Mr. B. Rajasekhar	Asst. Prof., EEE,	Member	
8	Mr. R. Satish	Asst. Prof., EEE,	Member	
9	Mrs. Lavanya	Asst. Prof., EEE,	Member	
10	Dr. Ch. V. N. Raja	Asst. Prof., EEE,	Member	
11	Mr. M. Sudheer Kumar	Asst. Prof., EEE,	Member	
12	Mr. K. Trinadh Babu	Asst. Prof., EEE,	Member	
13	Mr. L. Dinesh	Asst. Prof., EEE,	Member	
14	Mr. S. Harish	Asst. Prof., EEE,	Member	
15	Mr. L. Vijay	Asst. Prof., EEE,	Member	
16	Mrs. D. Srilakshmi	Asst. Prof., EEE,	Member	
17	Mr. V. Anil Kumar	Asst. Prof., EEE,	Member	
18	Mr. N. Kiran	Asst. Prof., EEE,	Member	
19	Mrs. T. V. Subhashini	Asst. Prof., EEE,	Member	
20	Prof. Deba Priya Das	Professor	Academic Council Nominee	
21	Sri. B. Srinivasa Reddy	GM (Electrical), RINL	Industry	
22	Sri. P.Santosh Kumar	Sr.Manager, L&T	Alumni	



ANIL NEERUKONDA INSTITUTE OF TECHNOLOGY & SCIENCES
(Permanently Affiliated to Andhra University, Approved by AICTE)
Sangivalasa-531 162, Bheemunipatnam Mandal, Visakhapatnam District
DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING
Accredited by NBA

Minutes of the Board of Studies (BOS of EEE) online meeting held on
12th June 2020 (Friday) at 3.00 PM.

MEMBERS PRESENT:

1. Prof. Debapriya Das, Professor, Dept. of Electrical Engg., IIT Kharagpur.
2. Sri B. Srinivasa Reddy, General Manager (Electrical), RINL, VSP.
3. Mr. P. Santosh Kumar, Sr. Manager, L&T.
4. Prof. J. Vijaya Kumar, Professor, ANITS.
5. Dr. V. Murali, Assoc. Prof., ANITS.
6. Mr. S. Balamurali, Assoc. Prof., ANITS.
7. Mrs. K.V.R. Swathi, Asst. Prof., ANITS.
8. Mr. Kavala Kiran Kumar, Asst. Prof., ANITS.
9. Mr. B. Rajasekhar, Asst. Prof., ANITS.
10. Mr. R. Satish, Asst. Prof., ANITS.
11. Mrs. K. Lavanya, Asst. Prof., ANITS.
12. Dr. Ch.V.N. Raja, Asst. Prof., ANITS.
13. Mr. M. Sudheer Kumar, Asst. Prof., ANITS.
14. Mr. K. Trinadh Babu, Asst. Prof., ANITS.
15. Mr. L. Dinesh, Asst. Prof., ANITS.
16. Mr. S. Harish, Asst. Prof., ANITS.
17. Mr. L. Vijay, Asst. Prof., ANITS.
18. Mrs. D. Srilakshmi, Asst. Prof., ANITS.
19. Mr. V. Anil Kumar, Asst. Prof., ANITS.
20. Mr. N. Kiran, Asst. Prof., ANITS.
21. Mrs. T. V. Subhashini, Asst. Prof., ANITS.
22. Prof. G. Raja Rao (Chairperson), Professor & HOD of EEE, ANITS.

1. Owing to the COVID-19 lock down, the BOS meeting is conducted online. The Chairperson welcomed all the BOS members and thanked the members for the support they have rendered.
2. The board has approved and ratified the online mode of internal/ sessional examinations conducted by the department/Institute in view of the lock down.

3. The Committee has mainly discussed on the scheme and syllabi of 2nd year 1st semester and 2nd semester courses to be taught by EEE faculty under R19 regulations. As resolved in last BOS meeting, introduction to BLDC motors is included in the PDMT course.
4. Mr. B. Srinivas Reddy suggested to include transducers topic in Electrical Measurements course.
5. Prof. Debapriya Das & Mr. B. Srinivas Reddy have suggested to include units of illumination and measurement of illumination in EPGU course.
6. The external members suggested to conduct objective type online examinations for the present final years so that the eligible students can get their degrees early as it got delayed already.

HOD of EEE



Dr. G. RAJA RAO

Handwritten signature
Principal
Anil Neerukonda Institute of
Technology & Sciences
Sangivalasa-531 162
Visakhapatnam Dist

Date: 13-06-2020

C/s to: 1. The Principal

Handwritten signature
Convener, IQAC
Anil Neerukonda Institute of
Technology & Sciences
Sangivalasa-531 162
Visakhapatnam Dist.

Handwritten signature
Principal
Anil Neerukonda Institute of
Technology & Sciences
Sangivalasa- 531 162
Visakhapatnam Dist



Anil Neerukonda Institute of Technology & Sciences (Autonomous)

(Affiliated to AU, Approved by AICTE & Accredited by NBA & NAAC with 'A' Grade)

Sangivalasa-531 162, Bheemunipatnam Mandal, Visakhapatnam District

Phone: 08933-225083/84/87

Fax: 226395

Website: www.anits.edu.in

email: principal@anits.edu.in

Department of Information Technology

List of new courses introduced in the BoS meeting held on 27-05-2020 for the academic year 2020-21

S.No	Name of the Course	Course Code	Year & Sem
1.	Microprocessors	IT215	II/IV Sem-1
2.	Microprocessor Lab	IT217	II/IV Sem-1

A.S.

*Sri: harsha N
(Sr. technical lead)*

M. Shashi

Prof. M. SHASHI M.E., Ph.D.
Computer Science & Systems Engineering
Andhra University
VISAKHAPATNAM-530 003
INDIA

*Abhishek
(Dr. M. Rekha Sundari)*

D. P. K.

Ch. Sankar

M. Vinay Kumar

R. Jeyanthi
Convener, ICAC
Anil Neerukonda Institute of
Technology & Sciences
Sangivalasa-531 162
Visakhapatnam Dist.

Principal
Anil Neerukonda Institute of
Technology & Sciences
Sangivalasa- 531 162
Visakhapatnam Dist



Minutes of Board of studies meeting held on 23-05-2020 via online Google Meet video conferencing

In View of Global Pandemic-Covid-19, Board of Studies Meeting is held online through video conferencing. At the outset, the chairman of BoS, Prof. B. Nagaraju, welcomed the expert members and the faculty of the department. The agenda for this meeting is the discussion to be held on the syllabus for II-year (both semesters) as per R-19 course structure.

In order to provide an exposure to the changing trends in the modern day industry the department has brought about a metamorphic change in the course structure of R19 regulations. The subjects were modified accordingly by introducing new and latest topics and also by including new courses. The list of new courses introduced in the II- year (R19) are as mentioned below:

1. Metal cutting, Machine tools And Metrology
2. Basic Electrical Engineering.
3. Basic Electrical Engineering-Lab

In terms of percentage, the new courses added in the 2nd year course structure is 25% approx. as compared to previous regulations (R15)

The syllabus for the pertinent subjects was framed by the concerned faculty and was put before the Board of Studies for their comments and suggestions. The following observations/suggestions made by the members are given below subject wise:

Semester - 1

1. Material Science & Metallurgy:

1.1 Unit-II

Along with Iron-Carbon Phase diagram, binary phase diagrams for Al-Cu, Cu-Zn may be included provided the quantum of syllabus is within limits.

1.2 Unit-III

Al and Mg based alloys may be included if feasible. It is also suggested to add micro structures of steel and Cast Iron in the same unit.

2. Mechanics of Solids :

2.1 It is suggested to add Stress-Strain curve for both ductile & brittle materials instead of stress-strain curve for mild steel alone.

3. Manufacturing Processes :

3.1 Unit II

It is suggested to rearrange the topics of this unit in this order:

Permanent mould casting- Die & Centrifugal casting; Investment casting & Vacuum casting.
Continuous casting & Ingot casting.

3.1.1 It is advised to include the topics on

a. Vacuum casting & Melting and b. Furnaces- Electric arc furnace & Induction furnace.

These modifications will be duly considered in revising the syllabus.

These modifications will be duly considered in revising the syllabus.

3.2 UNIT III

It was advised by the members to include the topic on weld defects testing. It was also advised to rearrange the different welding processes in the order- MMAW, SAW, PAW etc.

4. MFT Lab :

4.1 It is suggested to add a demonstration experiment on 3-D printing as the students are learning it in the theory. It is also advised to look at the feasibility of including at least one experiment in Forming.

Semester - 2

5. Metal cutting & Machine tools And Metrology:

5.1 Manufacturing processes is a prerequisite for studying this subject and hence it may be included.

5.2 Unit-V:

a. It is suggested to add **Line standards & End standards** in this unit.

5.3 In the reference books, 1) Manufacturing engineering and technology by Serope Kalpakjian 2) Fundamentals of Modern Manufacturing by Mikell P. Groover may be included.

6. Machine Tools Lab:

It is suggested to modify the experiment titled " Study of chip formation" to include measurement of physical quantities pertaining to the chip.

The Chairman BoS informed the members that in view of lockdown due to COVID19, the Mid-II examinations for II and III Year II Semester students were conducted online through Moodle, as per UGC Lockdown guidelines. Further also informed that the Project work end semester Viva examination was conducted online through Google Meet based on UGC lockdown guidelines.

The meeting concluded with the chairman thanking the members of the Board for their valuable suggestions.


(HOD- Mechanical)

CC to: 1) Principal

2) Dean of examinations

} for kind information

To
File in Book of
B.O.S.

(Dr. B. Nagalaxmi)

23.5.20


Convener, IQAC
Anil Neerukonda Institute of
Technology & Sciences
Sangivalasa-531 162
Visakhapatnam Dist.


Principal
Anil Neerukonda Institute of
Technology & Sciences
Sangivalasa- 531 162
Visakhapatnam Dist

Board of Studies (BOS)

AY 2019-20

ANIL NEERUKONDA INSTITUTE OF TECHNOLOGY & SCIENCES

(UGC AUTONOMOUS)

(Affiliated to AU, Approved by AICTE & Accredited by NBA & NAAC with 'A' Grade))
Sangivalasa 531 162, Bheemunipatnam Mandal, Visakhapatnam Dist



DEPARTMENT OF CHEMICAL ENGINEERING

30-03-2019

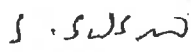
Minutes of the meeting of the Board of Studies, Department of Chemical engineering (UG) held on 30th March, 2019 at 10:30 AM.

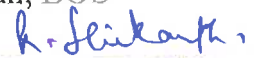
Members present:

- | | |
|---------------------------|-------------------------------------|
| 1. Prof. S. Subba Rao | Chairman, BOS, Chemical Engineering |
| 2. Dr. Ch. Anil | Member |
| 3. Dr. M. Shiva Naresh | Member |
| 4. Prof. P.S.T. Sai | Member, Academic council nominee |
| 5. Prof S. V. Naidu | Member, Andhra University nominee |
| 6. Dr. A. Srinivasa Kumar | Member, Industry / Research |

Resolutions:

- 1) Structure for B. Tech. Chemical Engineering and Syllabus for I/IV B. Tech. Chemical Engineering I and II Semester were discussed and the experts felt satisfactory about the same.
- 2) Prof P.S.T Sai and Prof. S. V. Naidu felt that it would be good to students if Engineering Physics and Engineering Physics lab are shifted from I Sem to II Sem and English and Language lab are shifted from II Sem to I Sem.
- 3) The external members felt happy about the inclusion of "Biology for Engineers" which is a mandatory course in AICTE and APSCHE syllabus of Chemical Engineering. Prof S. V. Naidu informed the board that they also included "Biology for Engineers" in the curriculum of Dept of Chemical Engineering, Andhra University.
- 4) The committee felt that "Process Instrumentation" can be removed and combined with Process Dynamics and Control. They also felt that the load for students in final semester should be either minimized or the subjects in eighth semester can be shifted to seventh semester, so that students can focus on internships and projects.
- 5) The committee suggested to conduct an induction programme for one week before commencement of the I year class work.


(Prof. S. Subba Rao)
Chairman, BOS


Anil Neerukonda Institute of
Technology & Sciences
Sangivalasa-531 162
Visakhapatnam Dist.


Principal
Anil Neerukonda Institute of
Technology & Sciences
Sangivalasa- 531 162
Visakhapatnam Dist



ANIL NEERUKONDA INSTITUTE OF TECHNOLOGY & SCIENCES
 (Affiliated to AU, Approved by AICTE & Accredited by NBA)
 SANGIVALASA-531162, Bheemunipatnam Mandal, Visakhapatnam District
 Phone: 08933-225083/84/87 Fax: 226395 Email: hod_civil@anits.edu.in

www.anits.edu.in

DEPARTMENT OF CIVIL ENGINEERING

**Minutes of Board of Studies Meeting held on 30-03-2019
 Autonomous Regulations (2019)**

Date : March 30, 2019
 Time : 11:00 AM
 Venue : Civil Engineering Department, ANITS



- Agenda:
- To finalize the course structure of R - 2019
 - To finalize the 1st year syllabus of R - 2019
 - Any other item with the permission of the chair

Members Present:

- Dr.C.N.V.Saranarayana Reddy, Professor, Civil, Andhra University
- Dr. G.Appa Rao, Professor of Civil Engg., IIT Chennai
- Dr. B.V.S.Viswanadham, Professor of Civil Engg., IIT Bombay
- Prof. A.Ram Mohana Rao, Professor of Civil Engg.
- Sri.J.Vikrant, Associate Professor of Civil Engg.
- Sri.T.V.V.Tea, Assistant Professor of Civil Engg.
- Sri.T.Kiran Kumar, Assistant Professor of Civil Engg.
- Mrs.P.V.R.Savya, Assistant Professor of Civil Engg.
- Sri.M.Premchand, Assistant Professor of Civil Engg.
- Dr.B.N.D.Narasinga Rao, Professor and HoD, Dept. of Civil Engg. (In Chair)

Minutes:

- Considered the Four years Course Structure under R-19 Regulations and resolved the following:
 - To move Open Elective Course from III - 1 to IV - 1 as there are more subjects in III - 1.
 - To give 1 extra credit to the subject RCS - II.
 - To approve the revised Course Structure as enclosed.
- Considered the list of paper setters for 1 year courses and approved the same. The HoD-Civil is however authorized to add or modify the list when necessary.

(Dr.B.N.D.Narasinga Rao)
 Chairman - Board of Studies
 Civil Engineering - ANITS

R. K. K. K.
 Convener, IQAC
 Anil Neerukonda Institute of
 Technology & Sciences
 Sangivalasa-531162
 Visakhapatnam Dist.

aw
 Principal
 Anil Neerukonda Institute of
 Technology & Sciences
 Sangivalasa- 531162
 Visakhapatnam Dist



ANIL NEERUKONDA INSTITUTE OF TECHNOLOGY & SCIENCES 'UGC AUTONOMOUS'

(Permanently Affiliated to Andhra University, Approved by AICTE, Accredited by NBA & NAAC, with 'A' Grade)
SANGIVALASA - 531 162, BHEEMUNIPATNAM MANDAL, VISAKHAPATNAM DIST.

Phones : 08933 - 225083, 225084, 226131, Fax: 08933 - 226395

Website : www.anits.edu.in

e-mail : principal@anits.edu.in

Minutes of the meeting of the Board of Studies Dept. of CSE(UG&PG)

30.08.2019

Members Present:

Dept. Of CSE

S. No	Name	Designation	Category	Signature of the member
1	Dr. R.Sivaranjani	HoD&Professor, CSE, ANITS	Chairman, BOS, CSE	
2	Mr. S. Ratan Kumar	Assoc. Prof., CSE, ANITS	Member	
3	Dr. Tusarkanti Mishra	Assoc. Prof., CSE, ANITS	Member	
4	Dr M Rama Krishna Murthy	Assoc. Prof., CSE, ANITS	Member	
5	Dr J Hyma	Assoc. Prof., CSE, ANITS	Member	
6	Mr. B.Ravi kiran	Asst. Prof., CSE, ANITS	Member	
7	Dr K S Deepthi	Asst. Prof., CSE, ANITS	Member	
8	Mr. G.Jagadish	Asst. Prof., CSE, ANITS	Member	
9	Mr. Ch. SeshadriRao	Asst. Prof., CSE, ANITS	Member	
10	Mr. K. Suresh	Asst. Prof., CSE, ANITS	Member	
11	Dr. B. Majhi	Professor, CSE, NIT, Rourkela	Academic Council Nominee	
12	Dr. Rajib Mall	Professor, CSE, IIT Khargpur	Academic Council Nominee	
13	Dr. B Prajna	Professor, CSE, AUCE	University Nominee	
14	Dr. KSVN RAJU	Professor Department of Computer Science And Engineering, GVPC Degree & PG Courses	Member	
15	Mr. T. Shyam Vamsi	IBM, Chennai	Alumni	
16	Dr. S. Raja,	Scientist "G", Associate Director, NSTL, Visakhapatnam	Industry	
17	Roy Antony Arnold George Charles	Manager, Campus Connect, Infosys Technologies, Hyd	Industry	

Anil Neerukonda Institute of Technology and Sciences
(Autonomous)
(Affiliated to AU, Approved by AICTE, Accredited by NBA and NAAC with 'A' Grade)

Minutes of Board of Studies Meeting

Department of CSE

Minutes of the Meeting:

Subject	:	Board of Studies-Bachelor of Technology (CSE)
Venue	:	LAB 2, Dept. of CSE
Date	:	30-3-2019
Agenda	:	1) Overview of B Tech Course Structure –R15 2) Overview of B Tech Course Structure –R19 3) Revising Course Outcomes –R15

The following members were present in the meeting:

- Dr. R. Sivaranjani, HoD & Professor, CSE, ANITS Chairman, BOS, CSE
- Mr. S. Ratan Kumar, Assoc. Prof., CSE, ANITS, Member
- Dr. Tusarkanti Mishra, Assoc. Prof., CSE, ANITS,
- Dr. M. Rama Krishna Murthy, Assoc. Prof., CSE, ANITS, Member
- Dr. J. Hyma, Assoc. Prof., CSE, ANITS, Member
- Mr. B. Ravi kiran, Sr. Asst. Prof., CSE, ANITS Member
- Dr. K. S. Deepthi, Asst. Prof., CSE, ANITS, Member
- Mr. G. Jagadish, Asst. Prof., CSE, ANITS, Member
- Mr. Ch. Seshadri Rao, Asst. Prof., CSE, ANITS, Member
- Mr. K. Suresh, Asst. Prof., CSE, ANITS, Member
- Dr. B. Prajna, Professor, CSE, AUCE University Nominee
- Dr. KVSUN RAJU, Professor, Department of Computer Science And Engineering, CVPC Degree & PG Courses Member
- Mr. T. Shyam Vamsi, IBM, Chennai, Alumni, Industry
- Dr. S. Raja, Scientist "G", Associate Director, NSTL, Visakhapatnam, Industry
- Roy Antony Arnold George Charles, Manager, Campus Connect, Infosys Technologies, Hyd, Industry

Apologies:

1. Dr. B. Majhi, Professor, CSE, NIT-Rourkela, Academic Council Nominee
2. Dr. Rajib Mall, Professor, CSE, IIT-Kharagpur, Academic Council Nominee

Anil Neerukonda Institute of Technology and Sciences **(Autonomous)**

(Affiliated to AU, Approved by AICTE, Accredited by NBA and NAAC with 'A' Grade)

Chairman BOS officially welcomed all the members for the BOS B. Tech-CSE, B. Tech. She also informed the house, the absents of other members due to some unavoidable circumstances.

Mr. S. Ratan Kumar, Assoc. Prof., Dept. of CSE presented the details of B Tech Program offered in R15 and Proposed B Tech Course Structure in R19. Members deliberated on the design of the curriculum based on resolutions taken on the joint board of studies of all departments.

Following the resolutions are taken after a rigorous discussion, debate among the members.

All members approved vision & mission statements, program educational objectives (PEO), program outcomes (PO) and program specific outcomes (PSO) of CSE department.

SUMMARY OF BTECH COURSE

- The overall summary of the B.Tech course is presented for feedback.
- Comparison of CSE curriculum with APSCHE(2019), AICTE-(2018) proposals is displayed.
- The total credits offered is 160 as per the guidelines of AICTE, APSCHE.

SEMESTER- I

- No changes mentioned

SEMESTER- 2

- No changes mentioned

SEMESTER- 3

- Introduction of JAVA theory & Lab in place of C++ theory & Lab to accommodate Python programming in Semester 5.

SEMESTER- 4

- Placing OS theory & Lab in place of JAVA theory & Lab

SEMESTER- 5

- Introduction of Python Programming theory & Lab in place of OS Theory & Lab.
- Python syllabus must be framed including Python Structured Programming & Object Oriented Programming Concepts

SEMESTER- 6

- OS must be completed before DBMS.
- STL in C++ (Version 17) must be introduced in CP (Competitive Programming Course)

**Anil Neerukonda Institute of Technology and Sciences
(Autonomous)**

(Affiliated to AU, Approved by AICTE, Accredited by NBA and NAAC with 'A' Grade)

SEMESTER- 7

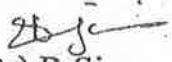
- In WT course HTML5, CSS3 must be covered.
- Project 1 deliverables must include SRS and Test Cases.
- Application oriented projects must be encouraged along with Research Oriented Projects

SEMESTER- 8

- Electives presented in Tracks was well taken by the members.
- Freedom must be given in selecting any elective from any track.
- Introduction of User Experience Design in Track 1
- Introduction of Business Intelligence and Social Network Analysis in Track 2.
- Introduction of IOT in Track 3.
- Introduction of Edge Computing in Track 4.
- Introduction of Docker in the course " Virtual machine Essentials".
- Introduction of Gamification in Track 5.
- If possible introduce "Digital Signal Processing " Course .
- No repetition must be there in any of the tracks.

All members approved the revised course outcomes for the courses offered in R15.

Finally the meeting ended with vote of thanks BOS chairman.


Prof. (Dr) R Sivaranjan
Chairman
BOS-CSI




Anil Neerukonda Institute of Technology & Sciences
(Autonomous)

(Affiliated to AU, Approved by AICTE & Accredited by NBA & NAAC with 'A' Grade)
Sangivalasa-531 162, Bheemunipatnam Mandal, Visakhapatnam District
Phone: 08922-225082/84/87 Fax: 226205

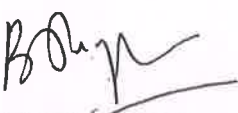
Department of Computer Science & Engineering

List of new courses introduced in the Board of Studies (BoS) meeting held on 30-3-2019 for the academic year 2019-20


S. No	Name of the Course	Course Code	Year & Semester
1.	Problem solving with C	CSE115	I/IV, Sem -1
2.	Problem solving with C Lab	CSE117	I/IV, Sem -1


Prof. (Dr) R Sivaranjani,
Chairman,
BOS-CSE Dept.

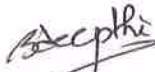
**Head of the Department of
Computer Science & Engineering**
Anil Neerukonda Institute of
Technology & Sciences
Sangivalasa, Visakhapatnam Dist



PROFESSOR

DEPT. OF COMPUTER SCIENCE
& SYSTEMS ENGINEERING
COLLEGE OF ENGINEERING
ANDHRA UNIVERSITY
VISAKHAPATNAM


(Dr. M. Ramakrishna Murthy)


Shyam/Vamsi.T






Principal

Anil Neerukonda Institute of
Technology & Sciences
Sangivalasa- 531 162
Visakhapatnam Dist


Convener, IQAC
Anil Neerukonda Institute of
Technology & Sciences
Sangivalasa-531 162
Visakhapatnam Dist.

ANIL NEERUKONDA INSTITUTE OF TECHNOLOGY & SCIENCES (UGC AUTONOMOUS)

(Affiliated to AU, Approved by AICTE & Accredited by NBA)
Sangivalasa-531162, Bheemunipatnam Mandal, Visakhapatnam Dt.
Phone: 08933- 225084.226395

Website: www.anits.edu.in

email: principal@anits.edu.in

Minutes of the 5th meeting of the Board of Studies, Dept. of ECE (UG) held on 30.03.2019 at 10:30 AM.

Name of the member	Designation	Category	Signature of the member
Dr. V. Rajya Lakshmi	Head, ECE, ANITS	Chairman, BOS, ECE	
Dr.K.MuraliKrishna	Prof., ECE, ANITS	Member	
Dr. G.Manmadha Rao	Prof., ECE, ANITS	Member	
Mr. S. Balaramamurthy	Assoc. Prof., ECE, ANITS	Member	
Dr.B.SomaSekhar	Assoc. Prof., ECE, ANITS	Member	S.B.
Dr. Ch Praveen Babu	Assoc. Prof., ECE, ANITS	Member	
Dr.S.Srinivas	Assoc. Prof., ECE, ANITS	Member	
Dr.P.MurgaPandiyan	Assoc. Prof., ECE, ANITS	Member	
Dr.S.Ravi	Assoc. Prof., ECE, ANITS	Member	P.H.
Dr.D.Easwara Chaitanya	Asst. Prof. ECE, ANITS	Member	
Dr. D. Anilprasad	Asst. Prof. ECE, ANITS	Member	
Dr. J. Bhaskara Rao	Asst. Prof. ECE, ANITS	Member	
Dr. A. Lakshminarayana	Asst. Prof. ECE, ANITS	Member	
Dr. Vijaya Kumar Sahu	Asst. Prof. ECE, ANITS	Member	
Dr. N.Srinivasa Naidu	Asst. Prof. ECE, ANITS	Member	
Dr. P. Ramakrishna Rao	Advisor, ANITS	Academic council nominee	
Dr. K. Chandra Bhusahan Rao	Prof., Dept of ECE, JNTUV	Academic council nominee	
Dr. N.V.S.N.Sharma	Prof., Dept of ECE, NITW	University Nominee	
Dr. Srinivas G. BHASKAR	Avantel, Visakhapatnam	Industry	NOT ATTENDED
Dr. M. Durga Prasad	JTO, BSNL	Alumni	

Dr. K. S. Ranga Rao

Dr. Sujatha Student member
Dr. Vinay Student member
Dr. Deepthi Student member

Dr. Sujatha
Dr. Vinay
Dr. Deepthi



ANIL NEERUKONDA INSTITUTE OF TECHNOLOGY & SCIENCES
(UGC AUTONOMOUS)

(Affiliated to AU, Approved by AICTE & Accredited by NBA)

Sangivalasa-531162, Bheemunipatnam Mandal, Visakhapatnam Dt.

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Minutes of the 5th meeting of the BOS, Department of ECE (UG) held on 30.03.2019 at 10.30 AM in the DSP lab with the following agenda.

1. To finalize the course structure of R-2019
2. To finalize the 1st year syllabus of R-2019
3. Any other item with the permission of the chair

The chairperson, Dr.V.Rajya Lakshmi, HOD, dept of ECE, ANITS welcomed all the BOS members present in the meeting. The Committee discussed the points given in the agenda submitted by the Dr.V.Rajyalakshmi and made the following recommendations/suggestions.

1. a) Prof. P. Ramakrishna Rao and Prof.K.Chandra Bhusahan Rao, expressed that Engineering is an extension of physics and it would be helpful to the students if course "Physics" is studied in First year I semester rather than in II semester.
b) Prof.K.Chandra Bhusahan Rao suggested the course "Basic Electronics Engineering" should be in First year II semester
c) Prof.P. Ramakrishna Rao, expressed that it will be difficult to ensure maximum student participation in Mandatory non-credit course. Prof. V.Rajya Lakshmi replied that maximum student participation in any Mandatory non-credit course can be achieved through preparation of the timetable in such a way that Mandatory non credit course is in between any other two credit courses.
d) Prof.K.Chandra Bhusahan Rao suggested the name of the "simulation lab" has to be very specific such that student's specific skills can be evident in their marks sheet for the purpose of getting into higher studies/placements.
e) Prof.K.MuraliKrishna, expressed that ICA Lab may be interchanged with AC & DC Lab as Analog Communications and Digital communications are covered in previous semesters.
f) Mr.G.Bhaskar, Aventel, expressed that "Speech processing" Professional Elective-3 can be interchanged with "WSN" in Professional Elective-5 as Speech processing required to be studied after Digital signal processing which is in Third year II semester.

i) Prof. K. Chandra Bhusahan Rao suggested that prescribed textbooks need to be followed by faculty and in order to ensure the same, it is advised to ask the faculty to submit coverage plan for the courses of all basic sciences in advance signed by head of department.

j) Prof. K. Chandra Bhusahan Rao expressed that physics syllabus is heavy and suggested the text book Halliday / Resnick, to be made as prescribed text book in the course ECE 122 (Physics) and to ensure redundancy of the contents is not present.

k) Prof. V. Rajya Lakshmi informed the members that in the course "Workshop" soldering and PCB Design are introduced keeping in view of ECE graduates and all members agreed that it is very essential to the ECE students in the current trend.


l) Prof. K. S. Ranga Rao, expressed that PCB design can be renamed as Layout design on PCB.


m) Prof. K. Murali Krishna, said that soldering can be done in the Electronic circuits Laboratory


n) Prof. P. Ramakrishna Rao, expressed that the faculty who are likely to teach course "Ethics" should have good communication skills.

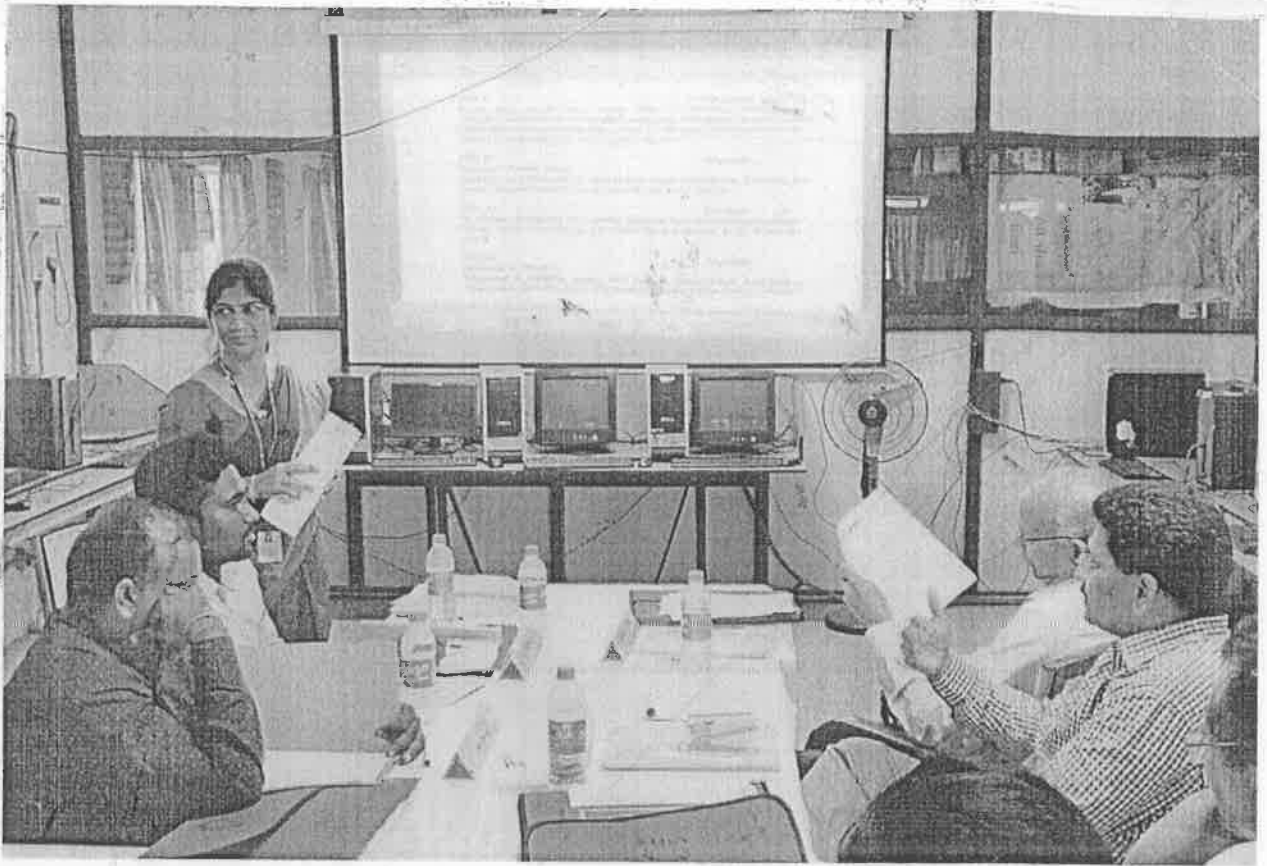
The chairperson thanked all the members for their active participation and valuable suggestions. She informed that all modifications suggested will be incorporated in the proposed structure for curriculum regulations 2019 and sent to the members for their approval.

Mr. S. Balaramamurthy, proposed the vote of thanks.


Dr. V. Rajya Lakshmi
Chairperson, BOS & HOD, ECE
ANITS
Anil Neerukonda Institute of Technology & Sciences
Sangivalasa-531 162


Convener, IQAC
Anil Neerukonda Institute of
Technology & Sciences
Sangivalasa-531 162
Visakhapatnam Dist.


Principal
Anil Neerukonda Institute of
Technology & Sciences
Sangivalasa- 531 162
Visakhapatnam Dist



5th BOS Meeting of ECE held on 30-03-2019 : left: Mr.G.Bhaskar, Aventel, Mr.M.DurgaPrasad, JTO, BSNL , Prof.V.Rajyalakshmi, Chairperson. Right: Prof.K.Chandra Bhusahan Rao, Professor, JNTUV, Prof. P. Ramakrishna Rao, Advisor, ANITS



5th BOS Meeting of ECE held on 30-03-2019 at , DSP Lab, department of ECE



ANIL NEERUKONDA INSTITUTE OF TECHNOLOGY & SCIENCES
(Permanently Affiliated to Andhra University, Approved by AICTE)
Sangivalasa-531 162, Bheemunipatnam Mandal, Visakhapatnam District
DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING
Accredited by NBA

Minutes of the meeting of the Board of Studies, Department of EEE (UG)
held on 30th March 2019 at 11.30 AM.
(Under Autonomous System)

MEMBERS PRESENT:

S. No.	Name	Designation	Category	Signature of the members
1	Dr. Guntu Raja Rao	Head, EEE, ANITS	Chairman, BOS	
2	Mr. V. Murali	Assoc. Prof., EEE, ANITS	Member	
3	Mr. S. Balamurali	Assoc. Prof., EEE, ANITS	Member	Absent
4	Dr. J. Vijaya Kumar	Assoc. Prof., EEE, ANITS	Member	
5	Mrs. K.V.R. Swathi	Asst. Prof., EEE, ANITS	Member	
6	Mr. Kavala Kiran Kumar	Asst. Prof., EEE, ANITS	Member	
7	Mr. B. Rajasekhar	Asst. Prof., EEE, ANITS	Member	
8	Mr. R. Satish	Asst. Prof., EEE, ANITS	Member	
9	Mrs. Lavanya	Asst. Prof., EEE, ANITS	Member	
10	Mr. Ch. V. N. Raja	Asst. Prof., EEE, ANITS	Member	
11	Mr. M. Sudheer Kumar	Asst. Prof., EEE, ANITS	Member	
12	Mr. L. Dinesh	Asst. Prof., EEE, ANITS	Member	
13	Mr. L. Vijay	Asst. Prof., EEE, ANITS	Member	
14	Mr. A. Dhanamjay	Asst. Prof., EEE, ANITS	Member	
15	Mr. K. Trinadh Babu	Asst. Prof., EEE, ANITS	Member	
16	Mr. J. Uday Venkatesh	Asst. Prof., EEE, ANITS	Member	
17	Mrs. V. Rangavalli	Asst. Prof., EEE, ANITS	Member	
18	Mr. V. Anil Kumar	Asst. Prof., EEE, ANITS	Member	Absent
19	Mr. S. Harish	Asst. Prof., EEE, ANITS	Member	
20	Mrs. T. V. Subhashini	Asst. Prof., EEE, ANITS	Member	
21	Ms. D. Srilakshmi	Asst. Prof., EEE, ANITS	Member	
22	Mr. N. Kiran	Asst. Prof., EEE, ANITS	Member	
23	MR. T. Subrahmanyam	Asst. Prof., EEE, ANITS	Member	
24	Prof. Deba Priya Das	Professor	Academic Council Nominee	
25	Prof. B.M. Mohan	Professor	Academic Council Nominee	
26	Prof. G.V. Siva Krishna Rao	Professor	University Nominee	Absent
27	Sri. B. Srinivasa Reddy	AGM (Electrical), RINL	Industry	
28	Sri. K. Anil Kumar	Asst. Manager (Electrical), RINL	Special Invitee & Alumnus	



**Minutes of the Board of Studies (BOS of EEE) meeting held on
30th March 2019 (Saturday) at 11.30 AM.**

MEMBERS PRESENT:

1. Prof. Debapriya Das, Professor, Dept. of Electrical Engg., IIT Kharagpur.
2. Prof. B.M. Mohan, Professor, Dept. of Electrical Engg., IIT Kharagpur.
3. Sri B. Srinivasa Reddy, Asst. General Manager (Electrical), RINL, VSP.
4. Sri K. Anil Kumar, Asst. Manager (Electrical), RINL, VSP.
5. Mr. V. Murali, Assoc. Prof., ANITS.
6. Mr. S. Balamurali, Assoc. Prof., ANITS.
7. Mr. J. Vijaya Kumar, Assoc. Prof., ANITS.
8. Mrs. K.V.R. Swathi, Asst. Prof., ANITS.
9. Mr. Kavala Kiran Kumar, Asst. Prof., ANITS.
10. Mr. B. Rajasekhar, Asst. Prof., ANITS.
11. Mr. R. Satish, Asst. Prof., ANITS.
12. Mrs. K. Lavanya, Asst. Prof., ANITS.
13. Mr. Ch.V.N. Raja, Asst. Prof., ANITS.
14. Mr. M. Sudheer Kumar, Asst. Prof., ANITS.
15. Mr. L. Dinesh, Asst. Prof., ANITS.
16. Mr. L. Vijay, Asst. Prof., ANITS.
17. Mr. A. Dhanamjay, Asst. Prof., ANITS.
18. Mr. K. Trinadh Babu, Asst. Prof., ANITS.
19. Mr. J. Uday Venkatesh, Asst. Prof., ANITS.
20. Mrs. V. Rangavalli, Asst. Prof., ANITS.
21. Mr. V. Anil Kumar, Asst. Prof., ANITS.
22. Mr. S. Harish, Asst. Prof., ANITS.
23. Mrs. T. V. Subhashini, Asst. Prof., ANITS.
24. Ms. D. Srilakshmi, Asst. Prof., ANITS.
25. Mr. N. Kiran, Asst. Prof., ANITS.
26. Mr. T. Subrahmanyam, Asst. Prof., ANITS.
27. Prof. G. Raja Rao (Chair person), Professor & HOD of EEE, ANITS.

* * *

1. The Chair person welcomed all the BOS members of the department and thanked the members for the support they have rendered to the department during the last four years.
2. The board has approved the course 'Competitive Programming' which was offered as an additional elective in Professional Elective – 1 in 3rd year 2nd semester during 2018-19. It is also resolved to continue to offer the same course for the coming batches.

3. The Committee has mainly discussed on the scheme and syllabi of 1st year 1st semester and 2nd semester courses to be taught by EEE faculty.
4. The external members from IIT Kharagpur have suggested to introduce NPTEL course on C – programming in support of course “Programming for Problem Solving” in 1st year 2nd semester.
5. The board has discussed and resolved to include BLDC motors in the syllabus of PDMT course in 2nd year 2nd semester.
6. As the future power demand will mostly be met by non conventional energy sources, the board has resolved to give special emphasize on fuel cells and batteries by including these topics in RET course or some other appropriate course.
7. Mr. B. Srinivasa Reddy and Prof. Debapriya Das have suggested to offer Power Quality, HVDC & FACTS, Smart Grid as professional electives.
8. Prof. B.M. Mohan & Mr. K. Anil Kumar have suggested to include ‘Machine Learning’ as one of the PEs or OEs.
9. The board has discussed in full length and resolved to introduce ‘Comprehensive Viva’ for 2 credits at the end of 4th year 2nd semester. However, to accommodate these 2 credits the final project work credits have been reduced from 8 to 6 credits.
10. The board members were happy about the modifications and the scheme & syllabi of 1st year.

Date: 01-04-2019

[Handwritten Signature]
Principal
Anil Neerukonda Institute of
Technology & Sciences
Sangivalasa-531 162
Visakhapatnam Dist.

C/s to: 1. The Principal

HOD of EEE

[Handwritten Signature]
Dr. G. RAJA RAO

Head of the Department
ELECTRICAL & ELECTRONICS ENGG
ANITS, Sangivalasa
VISAKHAPATNAM - 531 162

[Handwritten Signature]
Convener, IQAC
Anil Neerukonda Institute of
Technology & Sciences
Sangivalasa-531 162
Visakhapatnam Dist.

[Handwritten Signature]
Principal
Anil Neerukonda Institute of
Technology & Sciences
Sangivalasa- 531 162
Visakhapatnam Dist

ANIL NEERUKONDA INSTITUTE OF TECHNOLOGY & SCIENCES
"UGC AUTONOMOUS"

(Affiliated to Andhra University, Approved by AICTE & Accredited by NBA)

Sangivalasa-531 162, Bheemunipatnam Mandal, Visakhapatnam Dt.

DEPARTMENT OF INFORMATION TECHNOLOGY

ANITS

3rd Board of Studies Meeting Held on 30-03-2019

Department of Information Technology

Minutes of the Meeting:-

Subject: Board of studies – Bachelor of Technology (IT)

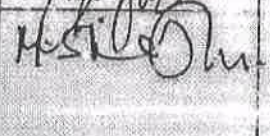
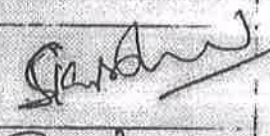
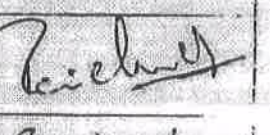
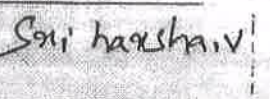
Venue: Conference Hall, Main Block, ANITS.


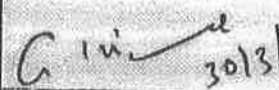
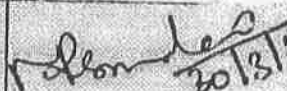

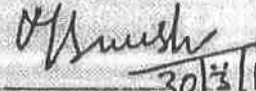
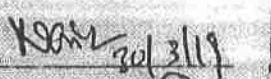
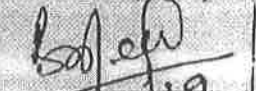
Date: 30 – 03 – 2019


Agenda:-

1. R19 Course Structure and 1st year syllabus finalization.
2. Scheme for 2019 admitted batch.
3. Any other item with the permission of the chair.

The following members were present in the meeting:

Sl No	Name	Designation	Signature
1	Prof. Suresh Chittineni	Chairman, BOS, IT. HoD, IT, ANITS	
2	Prof. M Shashi	Professor, Department of CS&SE, A.U. College of Engineering (A).	
3	Prof. S Krishna Rao	Professor & HoD of IT, CRR College of Engineering.	
4	Mr. Ravichandra Kolluru	Location Head, Tech Mahindra, Visakhapatnam.	
5	Mr. Varadha Sri Harsha	Technical Lead, IBM, Visakhapatnam.	

Sl No	Name	Designation	Signature
6	Prof. P Padmaja	Prof., IT, ANITS.	 30/3/19
7	Dr. G Srinivas	Assoc. Prof., IT, ANITS.	 30/3/19
8	Dr. M Rekha Sundari	Assoc. Prof., IT, ANITS.	 30/3/19
9	Dr. K Sharada	Asst. Prof., IT, ANITS.	 30/3/19
10	Dr. V Suresh	Asst. Prof., IT, ANITS.	 30/3/19
11	Mr. Ch Demudu Naidu	Sr. Asst. Prof., IT, ANITS.	 30/3/19
12	Mrs. B Meena	Asst. Prof., IT, ANITS.	 30/3/19


Chairman, BOS, IT.
HoD, IT, ANITS

Minutes of Board of Studies Meeting
Department of Information Technology

Minutes of the Meeting:

Subject: Board of Studies-Bachelor of Technology (IT)

Venue: Conference Hall, Main Block, ANITS.

Date: 30-3-2019.

Agenda:

1. R19 Course Structure and 1st year syllabus finalization.
2. Scheme for 2019 admitted batch.
3. Any other item with the permission of the chair.

The following members were present in the Meeting:

1. Prof. Suresh Chittineni , Chairman, BOS, IT, HoD, IT, ANITS
2. Prof. M Shashi, Professor, Department of CS&SE, A.U. College of Engineering (A). H.S.I
3. Prof. S Krishna Rao , Professor & HoD of IT, CRR College of Engineering.
4. Mr. Ravichandra Kolluru, Location Head, Tech Mahindra, Visakhapatnam.
5. Mr. Varadha Sri Harsha, Technical Lead, IBM, Visakhapatnam. Sri Harsha
6. Prof. P Padmaja, Prof., IT, ANITS.
7. Dr. G Srinivas ,Assoc. Prof., IT, ANITS.
8. Dr. M Rekha Sundari, Assoc. Prof., IT, ANITS.
9. Dr. K Shārada, Asst. Prof., IT, ANITS.
10. Dr. V Suresh, Asst. Prof., IT, ANITS.
11. Mr. Ch Demudu Naidu, Sr. Asst. Prof., IT, ANITS.
12. Mrs. B Meena, Asst. Prof., IT, ANITS.

Discussions:

- Prof. Suresh Chittineni, Chairman BOS and HoD, IT officially welcomed all the members for the third BOS B.Tech-IT and presented objective, achievements and future endeavors of the Department
- Mrs. B. Meena, Assistant Professor presented the draft curriculum of B.Tech II Regulations 2019
- Members deliberated on the design of the new curriculum based on resolutions taken on the joint board of studies of all departments.

Following are the resolutions are taken after a rigorous discussion among the members.

Suggestions from BOS :

- The I/IV sem 1 "Problem solving with C lab" set 2 experiments can be arranged Low, Medium and High Level separately. The students can be given an opportunity to come with their own case study and solve it.
- The course "Computer Communications" which is offered in III/IV Sem 1 can be renamed as "Computer Networks"
- **The lab Internet of Things has been introduced in III/IV sem 2**
- **Labs related to one of the electives is introduced in IV/IV sem 1**
- Certain courses are swapped in the proposed curriculum They are as follows:
 - The Course Software Engineering and UML & Testing Lab with Database Management Systems and Database Management Systems Lab
 - The course Formal Languages Automata Theory with the course Design & Analysis of Algorithms
 - The course Compiler Design with Cryptography & Network security
- The members suggested various stream of electives as follows:

YEAR - SEM	III/IV SEM 1	IV/IV SEM 1	IV/IV SEM 2
ELECTIVE-STREAM	Professional Elective - 1	PE-III	PE-V
Stream 1 : Networks	Unix Network Programming	Mobile Adhoc Networks	Storage Area Networks
Stream 2: Data Engineering	Data Warehousing and Data Mining	Machine Learning	Big Data
Stream 3 : Management	Business Automation	Software Project Management	Principles of Economics Management
Stream 4 : Security & Embedded	Embedded Systems	Cyber Security	Malware Analysis
Stream 5 : Software Engineering	Management Information Systems	Software Testing Methodologies	Design Patterns
ELECTIVE-STREAM	PE-II	PE-IV	PE-VI
Stream 1 : Networks	Distributed Operating Systems	Cloud Computing	Network Management Systems
Stream 2: Data Engineering	Artificial Intelligence	Soft Computing	Deep Learning
Stream 3 : Management	Operation Research	Intellectual Property Rights	E-Commerce
Stream 4 : Security & Embedded	Internet Of Things	Digital Forensics	Law & Ethical issues of Security
Stream 5 : Software Engineering	Dev Apps	Software Project Management	User Experience(UX)

Proposed MOOC courses
Data Visualization with tableau
modeling and simulation using MATLAB
Mongo DB for developers
Rasberri pi platform

Paichu H. S. D.

Prof. Suresh Chittineni



Anil Neerukonda Institute of Technology & Sciences (Autonomous)

(Affiliated to AU, Approved by AICTE & Accredited by NBA & NAAC with 'A' Grade)

Sangivalasa-531 162, Bheemunipatnam Mandal, Visakhapatnam District

Phone: 08933-225083/84/87

Fax: 226395

Website: www.anits.edu.in

email: principal@anits.edu.in

Department of Information Technology

List of new courses introduced in the BoS meeting held on 30-03-2019 for the academic year 2019-20

S.No	Name of the Course	Course Code	Year & Sem
1.	Fundamentals of Information Technology	IT114	I/IV, Sem-I
2.	(Mandatory non-credit course)	IT 129	I/IV, Sem-I
3.	Problem solving with C	IT 115	I/IV, Sem-I
4.	Problem solving with C Lab	IT 117	I/IV, Sem-I

Ch. Suresh
(HOD, IT)

head of the Department
Department of IT
ANITS, Visakhapatnam

M. S. D. N.
PROFESSOR
DEPT. OF COMPUTER SCIENCE
& SYSTEMS ENGINEERING
COLLEGE OF ENGINEERING
ANDHRA UNIVERSITY
VISAKHAPATNAM

Sri. Harshavardhan

R. Sridhar
Convener, IQAC
Anil Neerukonda Institute of
Technology & Sciences
Sangivalasa-531 162
Visakhapatnam Dist.

Principal
Anil Neerukonda Institute of
Technology & Sciences
Sangivalasa- 531 162
Visakhapatnam Dist

B. B. ...
(DR. P. PADMAJYA)
M. ...
CDR. M. Rekha Sundari

...



ANIL NEERUKONDA INSTITUTE OF TECHNOLOGY & SCIENCES

'UGC AUTONOMOUS'

(Permanently Affiliated to Andhra University, Approved by AICTE, Accredited by NBA & NAAC with 'A' Grade)

SANGIVALASA - 531 162, BHEEMUNIPATNAM MANDAL, VISAKHAPATNAM DIST.

Phones : 08933 - 225083, 225084, 226131, Fax: 08933 - 226395

Website : www.anits.edu.in

e-mail : principal@anits.edu.in

Members of Board of studies (Dept. of Mechanical Engineering)

(UG&PG held on 30-03-2019 at 10:30AM)

S.No	Name	Designation	Category	Signature
1	PROF. D. RAVI KUMAR	Prof., Dept. of Mech. Engg, IIT-Delhi	Academic Council Nominee	<i>[Signature]</i>
2	PROF. N. RAMANAIAH	Professor, Dept. of Mech. Engg., AUCE(A). Vishakapatnam.	University Nominee	<i>[Signature]</i> 30/3/19
3	PROF. CH. RATNAM	Prof. & HOD, Dept. of Mech. Engg. AUCE(A). Vishakapatnam.	Academic Council Nominee	<i>[Signature]</i>
4	MR. K. VENKAT POORNESH	Sr. Engineer, Production Division, BHEL, Vishakapatnam	Alumni & Industry Nominee	<i>[Signature]</i> 30-03-19
5	PROF. T.V. HANUMANTHA RAO	Dean Academics, ANITS & Professor of Mechanical Engineering	Honorary Member	<i>[Signature]</i>
6	PROF. D. PRASADA RAO	Prof., Dept. of Mech. Engg., Dean and Controller of Examination, ANITS	Honorary Member	<i>[Signature]</i> 28/3/19
7	Dr. N. INDRAKIRAN	Prof., Dept. of Mech. Engg., ANITS	Member	<i>[Signature]</i>
8	Dr. K. SIVA PRASAD	Prof., Dept. of Mech. Engg. ANITS	Member	<i>[Signature]</i>
9	Dr. M. RAJA ROY	Assoc. Prof., Dept. of Mech. Engg. ANITS	Member	<i>[Signature]</i>
10	Dr. RAJESH GHOSH	Assoc. Prof., Dept. of Mech. Engg., ANITS	Member	<i>[Signature]</i>
11	R. CHANDRAMOULI	Assoc. Prof., Dept. of Mech. Engg. ANITS	Member	<i>[Signature]</i> 30/3/19
12	G. UMAMAHESWARA RAO	Sr. Asst. Prof., Dept. of Mech. Engg. ANITS	Member	<i>[Signature]</i>
13	M.S.S. SRINIVAS RAO	Sr. Asst. Prof., Dept. of Mech. Engg. ANITS	Member	<i>[Signature]</i>
14	M PRASANTH KUMAR	Asst. Prof., Dept. of Mech. Engg. ANITS	Member	<i>[Signature]</i>
15	J.V. BHANU TEJ	Asst. Prof., Dept. of Mech. Engg. ANITS	Member	<i>[Signature]</i>
16	M PREM DHEERAJ	Asst. Prof., Dept. of Mech. Engg. ANITS	Member	<i>[Signature]</i>
17	PROF. B. NAGARAJU	HOD, Dept. of Mech. Engg., ANITS	Chairman- Board of Studies (Mechanical)	<i>[Signature]</i> 30-3-19

30-3-19
PROFESSOR & HEAD
Department of Mechanical Engineering

Principal



ANIL NEERUKONDA INSTITUTE OF TECHNOLOGY & SCIENCES (A)

DEPARTMENT OF MECHANICAL ENGINEERING

(Permanently Affiliated to Andhra University, AICTE, Accredited by NBA NAAC with 'A' Grade)
Sangivalasa-531162, Bhimunipatnam Mandal, Visakhapatnam Dt.
Phone 08933-225084, 226395

Minutes of Board of studies meeting held on 30-03-2019

Agenda:

Review and ratification of B.Tech and M.Tech (Machine design) course structures and B.Tech first year syllabus under autonomous scheme.

Suggestions & Resolutions:

The members of board of studies met on this day in metrology lab, Mechanical engineering department, ANITS to review the course structures (R-19 regulations) and B.Tech I year syllabus under autonomous scheme and suggest suitable modifications wherever necessary. At the outset, the chairman of BOS Prof. P. Nagaraju, welcomed the gathering and initiated the process. The review of the course structure was taken up as an immediate agenda and was done semester wise. The following observations/suggestions were made by the members:

1. It was suggested by the expert members not to include extended contact hours and outside contact hours in the curriculum as they do not carry any credits. But the extended contact hours may be included in the time table to cover the syllabus holistically.
2. It was suggested to transfer **Engineering Workshop** from first semester to second semester in the first year curriculum so as to reduce the number of labs from 3 to 2 in the beginning semester. Hence the total number of credits for first semester is **18.5** and **19.5** for the second semester of the first year.
3. The titles of the following courses were suggested to be modified which was accepted by the board.
 - a) 'Elements of Mechanical Engineering' changed to '**Basics of Mechanical Engineering**'.
 - b) 'Production technology' modified to '**Manufacturing Processes**'.
 - c) 'Production Technology Lab' modified to '**Manufacturing Lab**'.
 - d) 'Metal cutting & Machine Tools' modified to '**Metal cutting, Machine Tools & Metrology**'.
 - e) 'Machine and Production Drawing' modified to '**Mechanical Engineering Drawing**'.
 - f) 'Applied Mechanics Lab' modified to '**Machines and Mechanisms Lab**'.

PROFESSOR & HEAD
Department of Mechanical Engineering

30-3-19

4. It is strongly observed by the expert members that 'Verbal Aptitude' and 'Quantitative Aptitude' cannot be considered as Mechanical Engineering courses and hence they cannot be part of Mechanical Engineering curriculum. However, if these two courses are required for placement drives, the number of credits shall be limited to 1 credit each. The chairman BOS said that this will be conveyed to the Principal and the decision on this suggestion has to be taken at institution level.
5. The following suggestions were given by the external members with regards to professional electives.
 - a) Dr Ravi Kumar said that the list of professional electives may be reorganised to the maximum possibility such that every professional elective has one subject each from the four specialisations.
 - b) 'Managerial Economics & Financial Analysis' course shall be replaced by 'Supply Chain Management'.
 - c) 'Advanced Materials' course shall be replaced by 'Advanced Mechanics of Materials'.
 - d) 'Rapid Prototyping' course shall be replaced by 'Unconventional Machining'.
 - e) 'Energy Conversion & Management' course shall be replaced by 'Processing of Plastics & Composites'.
6. The expert members opined that since 'Material Science & Metallurgy' is one of the courses being offered by the department, it will be worthwhile to include few experiments on metallurgy in the Mechanics of Solids Lab. This was accepted by the board for implementation.
7. Some minor modifications / suggestions were given by the external members with regards to the syllabus of Engineering drawing, Advanced Engineering drawing & engineering work shop which has to be reviewed.
8. It was suggested by the external members to include a unit on basics of materials instead of principles of steel making. They further suggested to include steel making processes in **Metallurgy and Material science** in the 2nd year 1st semester.

30.3.19

PROFESSOR & HEAD
Department of Mechanical Engineering
MILANTRIKONDA INSTITUTE OF TECHNOLOGY & SCIENCE
Rangireddy 531 162 VISAKHAPATNAM Dist. A.P.

9. Regarding M.Tech course structure external members suggested to include **Theory of Elasticity & Plasticity** as a core subject in the first year first semester. They also suggested to introduce **Research Methodology** as a non-credit course.

The chairman thanked the members of the board for their valuable suggestions. The UG & PG course structures were ratified by the board of studies after including the minor corrections.

17/30.3.16
(HOD, Mechanical)

CC to: 1) Principal
2) Dean of examinations } for the kind information

Head of the Department
Department of Mechanical Engineering
Anji Neerukonda Institute of Technology & Sciences
Sangivalasa - 531162



Anil Neerukonda Institute of Technology & Sciences (Autonomous)

(Affiliated to AU, Approved by AICTE & Accredited by NBA & NAAC with 'A' Grade)

Sangivalasa-531 162, EluruMunipatnam Mandal, Visakhapatnam District

Phone: 08933-225083/84/87

Fax: 226395

Website: www.anits.edu.in

email: principal@anits.edu.in

Department of Mechanical Engineering

List of new courses introduced in the Board of Studies (BoS) meeting held on 30-03-2019 for the academic year 2019-20

S. No	Name of the Course	Course Code	Year & Semester
1.	Biology for Engineers	MEC 114	I/IV, Sem -1
2.	Basic Electronics Engineering	MEC 124	I/IV, Sem -2
3.	Problem Solving with C	MEC 125	I/IV, Sem- 1
4.	Problem Solving with C Lab	MEC 127	I/IV, Sem -1
5.	Research Methodology	MECMD117	I/II M.Tech, Sem-1
6.	Seminar-II	MECMD128	I/II M.Tech, Sem-2

(Ch. Ratnam)

30.3.19
Prof. B. NagaRaju,
Chairman BOS,
Mech. Engg. Dept.

(Prof. N. Ramanaiah)

PROFESSOR & HEAD
Department of Mechanical Engineering
ANIL NEERUKONDA INSTITUTE OF TECHNOLOGY & SCIENCES
Sangivalasa 531 162 VISAKHAPATNAM Dist. A.P.

30/3/19

30/3/19

30/3/19

R. Subrah
Convener, IQAC
Anil Neerukonda Institute of
Technology & Sciences
Sangivalasa-531 162
Visakhapatnam Dist.

(Kalla. Venkata Poornima)

Principal
Anil Neerukonda Institute of
Technology & Sciences
Sangivalasa- 531 162
Visakhapatnam Dist

Board of Studies
(BOS)

AY 2018-19



**ANIL NEERUKONDA INSTITUTE OF TECHNOLOGY & SCIENCES
(UGC AUTONOMOUS)**

(Affiliated to AU, Approved by AICTE & Accredited by NBA & NAAC with 'A' Grade)
Sangivalasa 531 162, Bheemunipatnam Mandal, Visakhapatnam Dist

DEPARTMENT OF CHEMICAL ENGINEERING

Minutes of the meeting of the Board of Studies, Department of Chemical engineering (UG) held on 28th April, 2018 at 11.00 AM.

Members present:

- | | |
|----------------------------|-------------------------------------|
| 1. Prof. S. Subba Rao | Chairman, BOS, Chemical Engineering |
| 2. Prof. G. Hanumantha Rao | Member |
| 3. Dr. Ch. Anil | Member |
| 4. Dr. M. Shiva Naresh | Member |
| 5. Prof. P.S.T. Sai | Member, Academic council nominee |
| 6. Prof. S.V. Naidu | Member, Andhra University nominee |
| 7. Dr. A. Srinivasa Kumar | Member, Industry/Research |

Resolutions:

1. Autonomous Syllabi for IV/IV B.Tech. Chemical Engineering I and II semesters were discussed and the experts felt satisfactory about the overall contents.
2. The committee felt that few topics like mass transfer with chemical reaction may be added in the course CHE 412 Transport phenomena. The committee also suggested to delete some books in the reference section of the subject Transport phenomena.
3. The committee recommended removing the references 4 and 5 in the course CHE 413 Process Dynamics and Control and also in the course CHE 414 Process Modelling and Simulation as they are not so relevant to UG level.
4. Prof. P.S.T. Sai suggested to recheck the syllabus of the elective CHE 422 (B) Process Optimization to avoid the repetition of the topics covered in the previous semester mathematics subjects.
5. Dr. A. Srinivas Kumar suggested to include topics like refining of hard carbon in Unit II in elective CHE 422(C) Energy Engineering.

6. The committee felt that the title of CHE 423 Chemical Process Equipment Design Laboratory be modified as Process Equipment Design Laboratory.
7. The committee discussed in detail the curriculum of AICTE for Chemical Engineering. The committee felt that there are no major changes with the existing structure of chemical engineering.
8. The committee suggested to modify the syllabi of physics and chemistry. Topics like electrochemistry, few topics on physical and inorganic chemistry were suggested to be included in Chemistry –I syllabus and organic chemistry in Chemistry –II.
9. The committee suggested to modify the physics syllabus with more orientation to chemical engineers like introduction to thermodynamics and basic electronics. After rigorous discussion the committee felt the existing autonomous physics syllabus may be preferable.
10. The committee finally discussed the Biology syllabus which is to be introduced for first year AICTE curriculum and suggested to add few more prescribed books oriented to engineering.



(Prof. S. Subba Rao)
Chairman, BOS


Convener, IQAC
Anil Neerukonda Institute of
Technology & Sciences
Sangivalasa-531 162
Visakhapatnam Dist.


Principal
Anil Neerukonda Institute of
Technology & Sciences
Sangivalasa- 531 162
Visakhapatnam Dist



DEPARTMENT OF CIVIL ENGINEERING

Minutes of Board of Studies Meeting held on 28-04-2018
Autonomous Regulations (2015)

Date : April 28, 2018
Time : 10:30 AM
Venue : Civil Engineering Department, ANITS

Agenda:

1. To Consider IV/IV B.Tech I semester and II semester (Civil Engineering) Syllabus
2. To Discuss the AICTE Model Curriculum and the Course Structure prepared based on these guidelines
3. Any other item with the permission of the chair

Members Present:

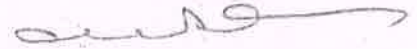
1. Dr.C.N.V.Satyanarayana Reddy, Professor, Civil, Andhra University - *C.N.V. Satyanarayana*
2. Dr. G.Appa Rao, Professor of Civil Engg., IIT Chennai *G. Appa Rao*
3. Sri.D.Kasiweswara Rao, Chief Engineer, Visakhapatnam *Absence on leave*
4. Prof. A.Rama Mohana Rao, Professor of Civil Engg. *A. Rama Mohana Rao*
5. Sri.J.Vikranth, Associate Professor of Civil Engg. *J. Vikranth*
6. Sri T.V.V.Teja, Assistant Professor of Civil Engg. *T.V.V. Teja*
7. Sri.T.Kiran Kumar, Assistant Professor of Civil Engg. *T. Kiran Kumar*
8. Mrs.P.V.R.Sravya, Assistant Professor of Civil Engg. *P.V.R. Sravya*
9. Dr.B.N.D.Narasinga Rao, Professor and HoD, Dept. of Civil Engg. (In Chair) *B.N.D. Narasinga Rao*

Minutes:

1. Considered the detailed syllabus for IV Year I semester and II semester B.Tech Civil Engineering for discussion and approved the same.
2. Dr. G. Appa Rao and Dr. C.N.V. Satyanarayana Reddy suggested deferring implementation of AICTE Model Curriculum by One year to enable through discussion of the course structure keeping the interest and limitations of students of ANITS (A).

B.N.D. Narasinga Rao
(Dr.B.N.D.Narasinga Rao)
Chairman – Board of Studies
Civil Engineering – ANITS
Dr. B.N.D. Narasinga Rao
ME PHD FIE FIGS
Professor & Head
Department of Civil Engineering
Anil Neerukonda Institute of Technology & Sciences

3. List of paper setters for IV Year B.Tech Civil Engineering is considered and approved. The Board, however, has authorized the Head of Department, Civil Engineering, ANITS (A) to add or modify the list wherever necessary.
4. Discussed the innovative Teaching and Evaluation Techniques.



(Dr.B.N.D.Narasinga Rao)
Chairman – Board of Studies
Civil Engineering - ANITS

Dr. B.N.D. Narasinga Rao

ME PhD FIE FIGS

Professor & Head

Department of Civil Engineering

Anil Neerukonda Institute of Technology and Sciences

Sangivalasa, Bheemunipatnam Mandal

Visakhapatnam - 531162



Anil Neerukonda Institute of Technology & Sciences (Autonomous)

(Affiliated to AU, Approved by AICTE & Accredited by NBA & NAAC with 'A' Grade)

Sangivalasa-531 162, Bheemunipatnam Mandal, Visakhapatnam District

Phone: 08933-225083/84/87

Fax: 226395

Website: www.anits.edu.in

email: principal@anits.edu.in

Department of Civil Engineering


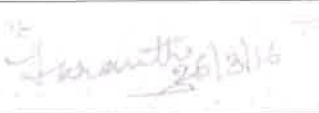


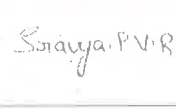
List of new courses introduced and approved in the BoS meeting held on 28/04/2018 for the academic year 2018-2019.

Regulation: R15

S.No	Name of the Course	Course Code	Year & Sem
1.	Project work-I	CIV419	IV/IV, Sem-I
2.	Engineering Economics & Finance	CIV423	IV/IV, Sem-II

BOS External Members list

S.No	Name & Designation	Signature
1	Prof. G. Appārao Professor, Dept. of Civil Engineering, IIT, Chennai - 600036, Tamilnadu, INDIA	
2	Dr. B.V.S. Viswanadham, Professor, Department of Civil Engineering, IIT, Bombay, Mumbai, Maharashtra - 400076	
3	Dr. C. N. V. Satyanarayana Reddy, Professor, Department of Civil Engineering, Andhra University College of Engineering (A), Visakhapatnam - 530003	
4	Sri. D. Kasi Visweswara Rao, Chief Engineer (Retd.), CRDA, Visakhapatnam	
5	Dr. B.N.D. Narasinga Rao Professor & Head-Civil, ANITS Chairman (BoS-Civil)	

5	Prof. A. Rama Mohana rao, Professor of Civil engineering, ANITS	
6	Sri J. Vikranth, Associate Professor of Civil engineering, ANITS	
7	Sri T.V.V Teja, Assistant Professor of Civil engineering, ANITS	
8	Sri T. Kiran kumar Assistant Professor of Civil engineering, ANITS	
9	Sri P.V.R Sravya, Assistant Professor of Civil engineering, ANITS	


Convener, IQAC
Anil Neerukonda Institute of
Technology & Sciences
Sangivalasa-531 162
Visakhapatnam Dist.


Principal
Anil Neerukonda Institute of
Technology & Sciences
Sangivalasa- 531 162
Visakhapatnam Dist



ANIL NEERUKONDA INSTITUTE OF TECHNOLOGY & SCIENCES 'UGC AUTONOMOUS'

(Permanently Affiliated to Andhra University, Approved by AICTE, Accredited by NBA & NAAC with 'A' Grade)
SANGIVALASA - 531 162, BHEEMUNIPATNAM MANDAL, VISAKHAPATNAM DIST.,

Phones : 08933 - 225083, 225084, 226131, Fax: 08933 - 226395

Website : www.anits.edu.in

e-mail : principal@anits.edu.in

Minutes of the meeting of the Board of Studies Dept. of CSE(UG&PG)

Held on 28.4.2018

Department of computer Science & Engineering

Members Present:

S. No	Name	Designation	Category	Signature of the member
1	Dr. R.Sivaranjani	HoD&Professor, CSE, ANITS	Chairman, BOS. CSE	
2	Dr. Tusarkanti Mishra	Assoc. Prof., CSE, ANITS	Member	
3	Mr. S. Ratan Kumar	Assoc. Prof., CSE, ANITS	Member	
4	Dr. M.Rama Krishna Murthy	Assoc. Prof., CSE, ANITS	Member	
5	Mr. Ch. SeshadriRao	Asst. Prof., CSE, ANITS	Member	
6	Mrs. PriteeParwekar	Asst. Prof., CSE, ANITS	Member	
7	Mr. B.Ravi kiran	Asst. Prof., CSE, ANITS	Member	
8	Mr. K. Suresh	Asst. Prof., CSE, ANITS	Member	
9	Mrs. Keerthi Lingam	Asst. Prof., CSE, ANITS	Member	
10	Mr. G.jagadish	Asst. Prof., CSE, ANITS	Member	
11	Ms. K.S.Deepthi	Asst. Prof., CSE, ANITS	Member	
12	Dr. B. Majhi	Director, IIT , Kanchipuram	Academic Council Nominee	
13	Dr. Prajna Bodapati	Professor, CSE,AUCE	University Nominee	
14	Dr. DVLN SOMAYAJULU	Professor NIT, Warangal	Member	
15	Mr. T. Shyam Vamsi	IBM ,Chennai	Alumni	
16	Dr. S. Raja.	Scientist "G",Associate Director,NSTL, Visakhapatnam	Special Invitee	
17	Dr KSVSN Raju	Professor, CSE, GVPDC	Special Invitee	
18	Dr. C. Srinagesh	Manager, Campus Connect, Infos Technologies .Hvd	Industry	



(Autonomous)

(Permanently Affiliated to AU, Approved by AICTE, Accredited by NBA & NAAC with 'A' Grade

Sanglivalasa-531 162, BheemunipatnamMandal, Visakhapatnam Dt.

DEPT OF COMPUTER SCIENCE AND ENGINEERING

Date : 28-04-2018

Minutes of Board of Studies Meeting

Department of CSE

Minutes of the Meeting

Subject : Board of studies / Bachelor of Technology (CSE)
Venue : LAB 2, Dept of CSE
Date : 28-04-2018

Agenda :

1. To finalize 4th year scheme of instruction of curriculum and syllabus for 2018-2019 academic year.
2. Implementation of AICTE proposed model curriculum – structure and first year syllabus.

The following members were present in the meeting:

- Dr. R.Sivaranjani HoD&Professor, CSE. ANITS Chairman. BOS. CSE
- Dr. Tusarkanti Mishra Assoc. Prof.. CSE. ANITS Member
- Mr. S. Ratan Kumar Assoc. Prof.. CSE. ANITS Member
- Dr. M.Rama Krishna murthy Assoc. Prof.. CSE. ANITS Member
- Mr. Ch. SeshadriRao Asst. Prof.. CSE. ANITS Member
- Mrs.K.S.Deepthi, Asst. Prof., CSE. ANITS Member
- Mrs. PriteeParwekar Asst. Prof., CSE. ANITS Member
- Mr. B.Ravi kiran Asst. Prof.. CSE. ANITS Member
- Mr. K. Suresh Asst. Prof.. CSE. ANITS Member
- Mrs. Keerthi Lingam Asst. Prof.. CSE. ANITS Member
- Mr. G.jagadish Asst. Prof.. CSE. ANITS Member
- Dr. B. Majhi, Director, IIT, Kanchipuram, Academic council nominee
- Dr. Prajna Bodapati, Professor, CSE, AUCE, University Nominee
- Dr. DVLLN Somayajulu, Professor, NIT Warangal, Member
- Mr. T Shyam Vamsi, IBM Chennai, Alumni
- Dr. S. Raja, Scientist "G" Associate Director, NSTL, Visakhapatnam, Special Invitee
- Dr. KVSVN Raju, Professor CSE, GVPDC, Special Invitee

Apologies:

- Dr. C. Srinagesh, Manager, Campus Connect, Infosys Technologies, Hyderabad, Industry.

Before start of the meeting



DEPT OF COMPUTER SCIENCE AND ENGINEERING

- Overview was given about the syllabus is given.
- Made a comparison on 2015 data with various colleges, total credits in ANITS 189
- Parent university comparison also made with AU.
- Shown the syllabus of all years' semester wise

Suggestions given by BOS members

In Open elective II

Cloud computing title correction need to remove overview

3 /4 DEM-II Department elective

Remove space between No SQL

It was proposed to add AI subject in elective

4th year SEM-II

CNS

Spelling mistakes in CNS course need to be corrected

Include Year of publication for books

Also include MOOC for the course

CNS – LAB

Some topics can be given as case studies will be experiment 9 & 10.

Mention algorithm names as DES, RSA etc

Allow the student choose the programming language for the algorithms

Experiment 5 has suggestions as server setup has to be done

OOAD

- No suggestions

Elective

- Year of publication need to be mentioned for all books of all electives

Mobile Computing

- No suggestions

DOS

- No suggestions

AOS

- Don't offer DOS & AOS both, only offer one

[Handwritten signature]

[Handwritten signature]

[Handwritten signature]

[Handwritten signature]

[Handwritten signature]

[Handwritten signature]



ANIL NEERUKONDA INSTITUTE OF TECHNOLOGY AND SCIENCES

(Autonomous)

(Permanently Affiliated to AU, Approved by AICTE, Accredited by NBA & NAAC with 'A' Grade)

Sanglivalasa-531 162, Bheemunipatnam Mandal, Vatakhatnam DL.

DEPT OF COMPUTER SCIENCE AND ENGINEERING

Neural Networks

- Neural Networks and deep learning is a better course
- Or AI and Deep Learning is a better course
- You should ignite the minds of student
- Add Fundamentals of deep learning concepts in other chapters also
- Information security and auditing

Human Computer Interaction (HCI)

- No suggestions

Pattern Recognition

- Total classes reduced to 58

Computer Vision

- No suggestions

Embedded Systems: Case study title in Embedded Systems need to be added

Data warehousing and Data Mining (DWDM)

- DWDM itself is heavy course its suggested not to add too many things into like 'R' language instead of making student making program, teacher can show demo in tutorials in 'R' language.
- Ask students to implement the concepts in JAVA instead of 'R' for better understanding and verify results in 'R'.
- Give them assignment and give some weightage as 30% or 20%
- Give tutorials for solving problems
- Remove 'R' from syllabus
- What defines a data mining tasks? – need to be remove

Machine Learning

- Make sub group of electives to avoid duplication

Cyber Security

- Encourage students through this course and send them to Hackathons based on security
- In unit -IV add ethical hacking

1/4 SEM-II – ELECTIVES

J.S. Ramy

Ravi

Sw

BOA

Shyamkumari

ANIL NEERUKONDA INSTITUTE OF TECHNOLOGY AND SCIENCES

(Autonomous)



(Permanently Affiliated to AU, Approved by AICTE, Accredited by NBA & NAAC with 'A' Grade

Sangivalasa-531 162, BheemunipatnamMandal, Visakhapatnam Dt.

DEPT OF COMPUTER SCIENCE AND ENGINEERING

Client Server Computing

- No suggestions

Augmented Reality

- No suggestions

Semantic Web

- Check course outcomes for spelling mistakes
- CO4- correction in language
- Include word net in semantic web

Big data

- Give a proper title – Big data analytics
- All should be covered as Hadoop, Map Reduce, HDFS
- Some tools can be given , need to include lab , for map reduce function
- Instruction hours need to be changed to 1+3
- Ask the students and faculty to take training and certification for this course

Information Security and Auditing

- No suggestions

Social Network Analysis

- No suggestions

Network Management

- No suggestions

Fuzzy Computing

- No suggestions

Wireless Sensor Networks (WSN)

- No suggestions

Cloud Computing (CC)

- Case studies to be added Monolithic architecture Vs Micro services

4/4 SEM-I OPEN ELECTIVES --

Cloud Computing overview

- Suggested to remove the word overview

Digital Image Processing

Shyamkanti.T

J.P.S. Ramy

B. S. S. S.

D. S. S. S.

B. S. S. S.

[Signature]



DEPT OF COMPUTER SCIENCE AND ENGINEERING

- No suggestions

Introduction to soft computing

- No suggestions

Web Designing

- Suggested to change the title to Web Design

General Suggestions

- Put some MOOC courses which is not part of the syllabus
- Ask them to listen to videos and come to class and let them solve problems
- Encourage students and faculties to join MOOC courses
- Do not give too many credits initially to MOOC , slowly you can increase the credits.
- Cloud Computing and introduction to soft computing will be tough for the other branch students – need to think on it
- In computer vision add some topics of Robotics vision.

Board suggested to send a mail for comparison with the AICTE & autonomous syllabus after seeing the mail they will give suggestions.

At the end of the meeting, all board members were thanked for their suggestions

Bua
25/4/2018
Dw

Shyam Vamsi .T

J. S. Arun

BON



Anil Neerukonda Institute of Technology & Sciences

(Autonomous)

(Affiliated to AU, Approved by AICTE & Accredited by NBA & NAAC with 'A' Grade)

Sangivalasa-531162, Bheemunipatnam Mandal, Visakhapatnam District

Phone: 08933-225083/84/87

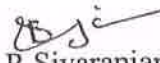
Fax: 226395

Department of Computer Science & Engineering

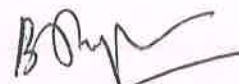
List of new courses introduced in the Board of Studies (BoS) meeting held on 28-4-2018 for the academic year 2018-19

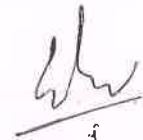
S. No	Name of the Course	Course Code	Year & Semester
1.	Mobile Computing	CSE414A	IV/IV, Sem -1
2.	Neural Networks & Deep Learning	CSE414C	IV/IV, Sem -1
3.	Human Computer Interaction	CSE414D	IV/IV, Sem -1
4.	Pattern Recognition	CSE414E	IV/IV, Sem -1
5.	Computer vision	CSE415A	IV/IV, Sem -1
6.	Machine Learning	CSE415D	IV/IV, Sem -1
7.	Cyber Security	CSE415E	IV/IV, Sem -1
8.	CRYPTOGRAPHY & NETWORK SECURITY LAB	CSE416	IV/IV, Sem -1
9.	PROJECT I	CSE418	IV/IV, Sem -1
10.	Client Server Computing	CSE421A	IV/IV, Sem -2
11.	Augmented Reality	CSE421B	IV/IV, Sem -2
12.	Semantic Web	CSE421C	IV/IV, Sem -2
13.	Big Data Analytics	CSE421D	IV/IV, Sem -2
14.	Information Security & Auditing	CSE421E	IV/IV, Sem -2
15.	Social Network Analysis	CSE421F	IV/IV, Sem -2
16.	Network Management	CSE422A	IV/IV, Sem -2
17.	Fuzzy Computing	CSE422B	IV/IV, Sem -2
18.	Wireless Sensor Networks	CSE422C	IV/IV, Sem -2


19.	Cloud Computing	CSE422D	IV/IV, Sem -2
20.	MOOC	CSE422A	IV/IV, Sem -2

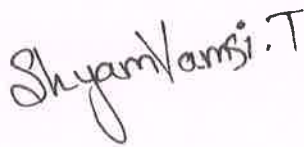

 Prof. (Dr) R Sivaranjani,
 Chairman,
 BOS-CSE Dept.

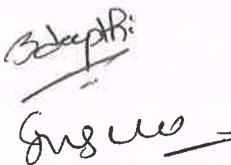
**Head of the Department of
 Computer Science & Engineering**
 Anil Neerukonda Institute of
 Technology & Sciences
 Sangivalasa, Visakhapatnam Dist


 PROFESSOR
 DEPT. OF COMPUTER SCIENCE
 & SYSTEMS ENGINEERING
 COLLEGE OF ENGINEERING
 ANDHRA UNIVERSITY
 VISAKHAPATNAM



 Prof. KVSUN Raju


 (Dr. M. Ramakrishna Murthy)


 Shyam/amsi.T


 G. S. S. S.


 Convener, IQAC
 Anil Neerukonda Institute of
 Technology & Sciences
 Sangivalasa-531 162
 Visakhapatnam Dist.


 Principal
 Anil Neerukonda Institute of
 Technology & Sciences
 Sangivalasa- 531 162
 Visakhapatnam Dist



ANIL NEERUKONDA INSTITUTE OF TECHNOLOGY & SCIENCE (AUTONOMOUS)

(Affiliated to AU, Approved by AICTE & Accredited by NBA & NAAC with 'A' Grade)
SANGIVALASA-531 162, Bheemunipatnam Mandal, Visakhapatnam District
Phone: 08933-225083/84/87 Fax: 226395

website: www.anits.edu.in

email: principal@anits.edu.in

4th

Minutes of the meeting of the Board of Studies, Dept of ECE (UG) held on 28-04-2018 at
10:30 AM.

Members present:

S. No	Name	Designation	Category	Signature of the member
1.	Dr. V. Rajya Lakshmi	Head, ECE, ANITS	Chairman, BOS, ECE	
2.	Dr. Shankar Prakriya	Professor, IIT, Delhi	Special invitee	
3.	Prof.N.V.S.N.Sharma	Prof., Dept of ECE, NITW	University Nominee	
4.	Prof. P. Ramakrishna Rao,	Advisor, ANITS	Academic council nominee	
5.	Mr.N.Srinivas	Avantel, Visakhapatnam	Industry	
6.	Mr. M. Durga Prasad	JTO, BSNL	Alumni	
7.	Dr.K.MuraliKrishna	Prof., ECE, ANITS	Member	
8.	Dr. K. S. Ranga Rao,	Prof., ECE, ANITS	Member	
9.	Mr. S. Balaramamurthy	Assoc. Prof., ECE, ANITS	Member	
10.	Dr.B.SomaSekhar	Assoc. Prof., ECE, ANITS	Member	
11.	Dr.Praveen Babu Choppala	Assoc. Prof., ECE, ANITS	Member	
12.	Mr. D. Anilprasad	Asst. Prof. ECE, ANITS	Member	
13.	Mr. J. Bhaskara Rao	Asst. Prof. ECE, ANITS	Member	
14.	Mr. A. Lakshminarayana	Asst. Prof. ECE, ANITS	Member	
15.	Mr. Vijaya Kumar Sahu	Asst. Prof. ECE, ANITS	Member	
16.	Mr.N.Srinivasa Naidu	Asst. Prof. ECE, ANITS	Member	
17.	Dr.D.Easwara Chaitanya	Asst. Prof. ECE, ANITS	Member	
18.	D. Bhargavi	Student	member	
19.	N. Sravanti	Student	member	
20.	U. Bhavana	Student	member	



ANIL NEERUKONDA INSTITUTE OF TECHNOLOGY & SCIENCES
(UGC AUTONOMOUS)

(Affiliated to AU, Approved by AICTE & Accredited by NBA)
Sangivalasa-531162, Bheemunipatnam Mandal, Visakhapatnam Dt.

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Minutes of the 4th meeting of the BOS, Department of ECE (UG) held on 28.04.2018 at 10.30 AM in the DSP lab with the following agenda.

1. Review of Autonomous syllabus(4th year semester-I & II)

2. AICTE Model Curriculum

The Committee discussed the various points given in the agenda submitted by the Dr.V.Rajyalakshmi and made the following recommendations/suggestions.

The chairperson, Dr.V.Rajya Lakshmi, HOD, dept of ECE, ANITS welcomed all the BOS members present in the meeting and appraised the members about the department through power point presentation. During the presentation, the agenda has been discussed by the members in detail.

1. a) Prof. NVSN Sharma suggested the text book William Stallings, "Data and Computer Communication" to be made as prescribed text book instead of reference book in the course ECE 412 (Computer Network Engineering).

Mr. DurgaPrasad, JTO, BSNL suggested to introduce contents related to network administration and accommodate the topics such as MPLS in the course if possible.

b) Prof. NVSN Sharma suggested to include hardware related experiments with respect to Software Defined Radio (which are KITS based experiment) for both Communication Laboratory and DSP Laboratory. He suggested to advise the students to do experiments in Matlab before they do experiments using Kits.

c) Prof. NVSN Sharma suggest to revise UNIT-IV and UNIT-V in the course ECE 414(a) (Advanced Digital Signal Processing) and introduce signal Processing Algorithms and Processors. Prof. Shankar Prakriya expressed that concepts of Filters is missing in UNIT-II of the course. He suggested to replace the text book S. M .Kay, "Modern Spectral Estimation" as prescribed text book instead of reference book in the course and to remove the text book authored by Salivahanan.

d) Prof. NVSN Sharma suggested to change the title of the course ECE 414(c) "Digital IC Design through verilog" as Digital IC Design using HDL. He suggested to ensure that only two text books were prescribed for each course to the maximum extent possible.

- (e) Prof. NVSN Sharma & Prof. Shankar Prakriya advised to introduce video processing in UNIT-V of the course ECE 414(d) (Digital Image Processing). They also suggested to include compression standard in the course.
- f) Prof. V.Rajya Lakshmi informed the members that Elective lab is introduced for the first time to facilitate the students necessary background with respect to modern simulation tools which will help them in improving their performance in doing their project work. She said that Elective lab consists of four(4) labs such as VLSI Design Laboratory, Signal & Image Processing Laboratory, Virtual Instrumentation Laboratory and Antenna Design Laboratory. Prof. NVSN Sharma suggested to replace the title of course ECE 416(a) "VLSI Design Lab" to "VLSI Lab" as the list of experiments does not relate to design. Prof. NVSN Sharma suggested to buy at least 15 No's of Signal Processing Kits and advised to introduce experiments based on Software Defined Radio in the course ECE 416(b) "Signal and Image Processing Lab". He added that the same kits can be used to perform all the experiment related to Communication Laboratory and DSP Laboratory also. Prof. Shankar Prakriya asked about the advantage of the elective lab ECE 416(c) "Virtual Instrumentation Lab". Mr. R. Ravikumar explained the importance of it. Prof. NVSN Sharma suggested to include a one demo type of Virtual Lab collaborated with IIT's. Prof. NVSN Sharma suggested to procure ADS simulation soft ware for the elective lab ECE 416(d) "Antenna Design Lab"
- g) Prof. NVSN Sharma suggested to accommodate experiments related to the course ECE 421 (Cellular and Mobile Communication) in any of the laboratories. He also advised to remove the topics such as Integrating GEO, LEO, MEO satellite and terrestrial mobile systems from UNIT-V and to introduce the basics of OFDM.
- h) Prof. NVSN Sharma recommended to purchase the network analyzer and suggested to buy mixed domain oscilloscope which gives digital as well as analog signals. He also suggested to buy Microstrip component to be used in the course ECE 424 Microwave Engineering Laboratory. Also said WDM demo kit should also be purchased for the department.
- i) Prof. NVSN Sharma expressed the syllabus of the course ECE 422(a) Phased Array Systems is heavy for UG level and advised to modify the syllabus and make it as simple as possible. He suggested the text book Peter J. Kahrilas, "Electronics Scanning Radar Systems Desing Handbook" to be made as prescribed text book instead of reference book.

While text book R.C.Hansen, "Phased Array Antennas" should be made as reference text book.

j) Prof. NVSN Sharma suggested to include defibrillators, pulse oximeters in the course ECE 422(c) and to remove smart sensors from UNIT-II. He also suggested to interchange the ordering of the text books.

k) Prof. NVSN Sharma suggested to replace the text book Qing Li, Caroline Yao, Real-Time Concepts for Embedded Systems as reference text book instead of prescribed text book in the course and to remove the text book authored by Raj Kamal

l) Prof. NVSN Sharma suggested text book by K. Raja Rao which includes numerous problems. He also suggested to include Satellite phone as topic in the last UNIT-V of the

course and advised to reduce GPS. Prof. Shankar Prakriya has suggested to introduce the INRSS which is better than GPS

m) Prof. NVSN Sharma suggested to include text book by Md. Jhao and juih as the 1st text book of the course ECE 423(c). He also suggested to modify the content of the course as it

is too heavy for the students at UG level and to introduce the concepts like C. Tiny OS Lite OS, Synchronization, TDOA, energy management and concepts like Leech.

n) Prof. NVSN Sharma suggested to change title of the course ECE 423(d) Principles of Software Defined Radio as "Cognitive Radio" or as "Software Defined Radio". He advised to introduce the concepts like white spaces, Black spaces. Cognitive Radio and suggested the text book Paul Burns, "Software Defined Radio for 3G" to be made a prescribed text book instead of reference book in the course ECE 423(d)(Principles of Software Defined Radio).

o) Prof. NVSN Sharma suggested to follow some guidelines, standards in choosing MOOCS course by the students. He suggested to follow some pre-screening process before a student can opt for the course.

2. Prof. NVSN Sharma & Prof. Shankar Prakriya provided their remarks and suggestions on AICTE Model Curriculum which are as follow:

a) To introduce a course on Basics of Measurements and Instrumentation as an open elective which is generic such that there would be more scope for the students to opt.

b) To change the title of the course "Wavelets" as Transform Techniques which will enhance the scope of discussing various transform techniques.

- c) To change the title of the course "Error correcting codes" as Coding Theory
- d) To reduce the credits that are being awarded to Project Stage -I
- e) To replace the elective course MEMS (course offered by Mechanical) with "W Technology" or "APP Development" offered by CSE such that all electives are from C department.
- f) To change the title of the courses related to Digital Signal Processing Laboratory as Signal Processing Laboratory and Microwave Laboratory as Microwave Engineering Laboratory
- g) To include text book by Annapurna Das & Sisir K Das in the course Microwave Engineering
- h) Skill development course should be conducted by faculty of the respective department on technical aspect of various subjects which will enhance the technical skills of the students and help them in facing the technical interview during the Campus Placement Selections.
- i) Prof. NVSN Sharma suggested to change the course code of the courses taught by other department with their domain. Prof. V. Rajya Lakshmi, HOD, ECE, clarified that it is common practice being followed within the Institute.
- j) Prof. Shankar Prakriya enquired about the coverage of gate syllabus in the new ANITS model curriculum by the 3rd Year 2nd Sem.
- k) To change the titles of course Antenna & Wave Propagation as Antennas and Propagations and Simulation Laboratory as Electronic Design and Automation Laboratory
- l) The concepts of Probability in this particular course PTRP should be taught by faculty from Dept. of Mathematics for their Strong foundation in the subject.
- m) To take the statistical data about the Alumni (regarding their area of the work) and feed back in preparing the syllabus as per the industry needs

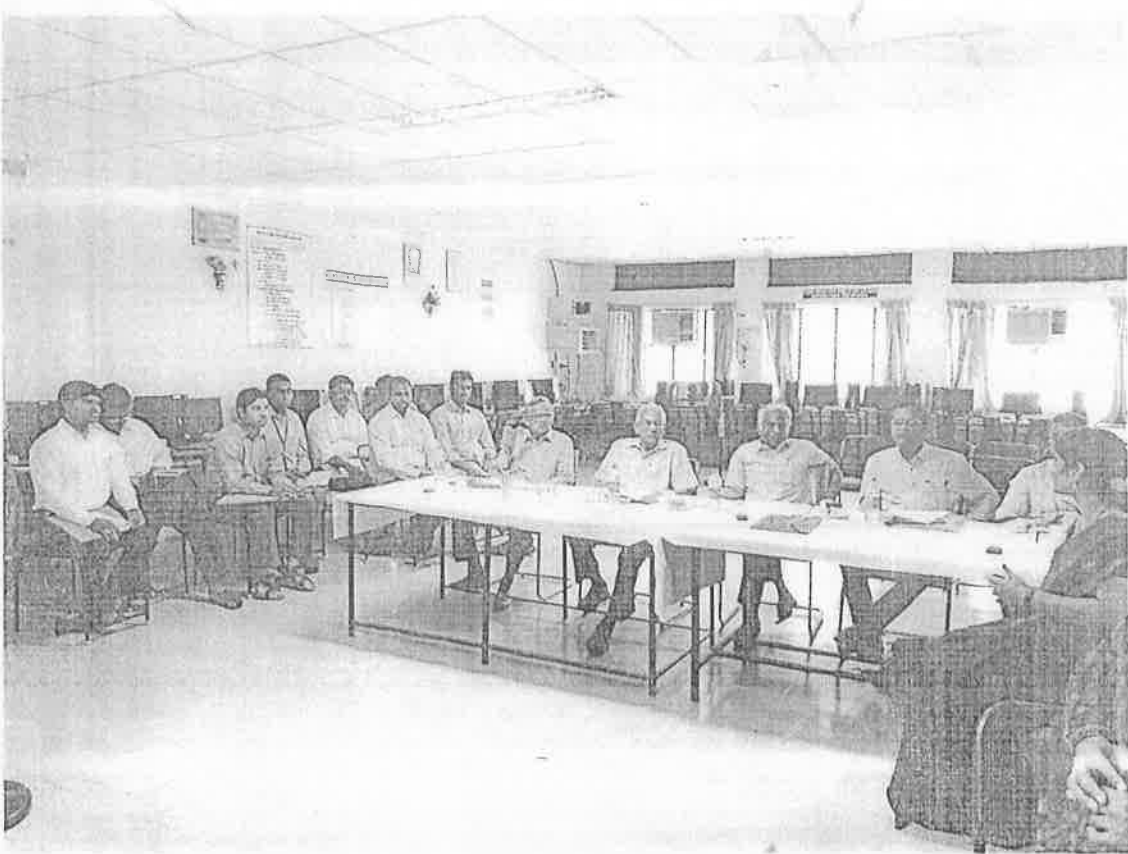
The chairperson thanked all the members for their active participation and valuable suggestions.

Mr. S. Balaramamurthy, proposed the vote of thanks.

R. Subanth
 Convener, IQAC
 Anil Neerukonda Institute of
 Technology & Sciences
 Sangivalasa-531 162
 Visakhapatnam Dist.

V. Rajya Lakshmi
 Dr. V. Rajya Lakshmi
 Chairperson, Department of ECE
 ANITS
 Anil Neerukonda Institute of Technology & Sciences
 Sangivalasa-531 162

Principal
 Principal
 Anil Neerukonda Institute of
 Technology & Sciences
 Sangivalasa- 531 162
 Visakhapatnam Dist



4th Meeting of the BOS, Department of ECE(UG) held on 28-04-2018.



4th Meeting of the BOS, Department of ECE(UG) held on 28-04-2018.

2018-2019



ANIL NEERUKONDA INSTITUTE OF TECHNOLOGY & SCIENCES

(Permanently Affiliated to Andhra University, Approved by AICTE)

Sangivalasa-531 162, Bheemunipatnam Mandal, Visakhapatnam District

DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

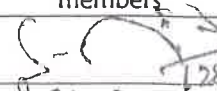
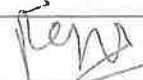
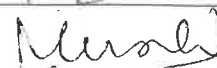
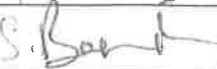
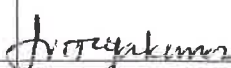
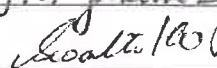
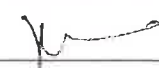



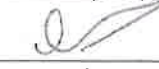
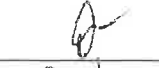

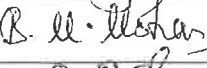
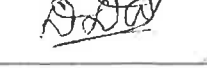

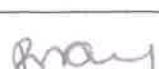
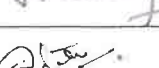
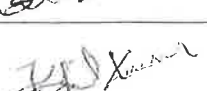
Accredited by NBA

Minutes of the meeting of the Board of Studies, Department of EEE (UG)

held on 28th April 2018 at 10.30 AM.

(Under Autonomous System)

MEMBERS PRESENT:

S. No.	Name	Designation	Category	Signature of the members
1	Dr. Guntu Raja Rao	Head, EEE, ANITS	Chairman, BOS	
2	Prof. R. Govardhana Rao	Professor, EEE, ANITS	Member	
3	Mr. V. Murali	Assoc. Prof., EEE, ANITS	Member	
4	Mr. S. Balamurali	Assoc. Prof., EEE, ANITS	Member	
5	Dr. J. Vijaya Kumar	Assoc. Prof., EEE, ANITS	Member	
6	Mrs. K.V.R. Swathi	Asst. Prof., EEE, ANITS	Member	
7	Mr. Kavala Kiran Kumar	Asst. Prof., EEE, ANITS	Member	
8	Mr. B. Rajasekhar	Asst. Prof., EEE, ANITS	Member	
9	Mr. R. Satish	Asst. Prof., EEE, ANITS	Member	
10	Mr. Ch.V.N. Raja	Asst. Prof., EEE, ANITS	Member	
11	Mr. M. Sudheer Kumar	Asst. Prof., EEE, ANITS	Member	
12	Mr. L. Dinesh	Asst. Prof., EEE, ANITS	Member	
13	Mr. L. Vijay	Asst. Prof., EEE, ANITS	Member	
14	Prof. B.M. Mohan	Professor, IIT- Kharagpur	Academic Council Nominee	
15	Prof. Debapriya Das	Professor, IIT- Kharagpur	Academic Council Nominee	
16	Prof. G.V. Siva Krishna Rao	Professor, Andhra University	University Nominee	
17	Sri B. Srinivasa Reddy	AGM (Electrical), RINL, Visakhapatnam.	Industry	
18	Sri P. Santosh Kumar	Manager, L&T, Chennai.	Alumni	
19	Sri K. Anil Kumar	Asst. Manager (Electrical), RINL, VSP.	Special Invitee	



**Minutes of the Board of Studies (BOS of EEE) meeting held on
28th April 2018 (Monday) at 10.30 AM.**

MEMBERS PRESENT:

1. Prof. R. Govardhana Rao, Professor, ANITS.
2. Prof. B.M. Mohan, Professor, Dept. of Electrical Engg., IIT Kharagpur.
3. Prof. Debapriya Das, Professor, Dept. of Electrical Engg., IIT Kharagpur.
4. Prof. G.V. Siva Krishna Rao, Professor, Andhra University.
5. Sri B. Srinivasa Reddy, Asst. General Manager (Electrical), RINL, VSP.
6. Sri P. Santosh Kumar, Manager, L&T, Chennai.
7. Sri K. Anil Kumar, Asst. Manager (Electrical), RINL, VSP.
8. Mr. V. Murali, Assoc. Prof., ANITS.
9. Mr. S. Balamurali, Assoc. Prof., ANITS.
10. Mr. J. Vijaya Kumar, Assoc. Prof., ANITS.
11. Mrs. K.V.R. Swathi, Asst. Prof., ANITS.
12. Mr. Kavala Kiran Kumar, Asst. Prof., ANITS.
13. Mr. B. Rajasekhar, Asst. Prof., ANITS.
14. Mr. R. Satish, Asst. Prof., ANITS.
15. Mr. Ch.V.N. Raja, Asst. Prof., ANITS.
16. Mr. M. Sudheer Kumar, Asst. Prof., ANITS.
17. Mr. L. Dinesh, Asst. Prof., ANITS.
18. Mr. L. Vijay, Asst. Prof., ANITS.
19. Prof. G. Raja Rao (Chair person), Professor & HOD of EEE, ANITS.

* * *

1. The Chair person welcomed all the BOS members of the department and thanked the members for the support they have rendered to the department.
2. The Committee has mainly discussed on two points. One on finalization of fourth year first & second semesters courses under Autonomous Scheme. Second one on finalization of four years scheme and first year syllabus under new AICTE structure.
3. The board discussed on the topics / units mentioned in all courses of the IV/IV Semester-I & II. The external members were mostly satisfied with the topics proposed for various courses and suggested some additional text / reference books for some courses. They suggested to change the name of EEE 423 course from Energy Control & Management to **Energy Management & Control**.
4. Mr. B. Srinivasa Reddy and Mr. P. Santosh Kumar have suggested to offer a course on 'Project Management' for all final years of all branches as a mandatory course or as an open elective.

5. Prof. B.M. Mohan has suggested to include some experiments on transducers either in control systems lab or in measurements lab.
6. Regarding the AICTE new scheme the committee discussed on the overall four year scheme and first year courses in particular. Under this, the committee discussed on the syllabus framed in BEE for all branch students in their first year. It is resolved not to include electronics chapter in BEE as it gets diluted.
7. In this regard, Prof. Debapriya Das has suggested to remove three phase circuits for the Unit-II on A.C. Circuits.
8. Prof. B.M. Mohan has suggested to include 'Electrical Instrumentation' as one of the courses in PE-I with a brief introduction on Transducers, Sensors, Signal Conditioning, Encoders & Decoders, etc.

Date: 01-05-2018

Principal
Principal
Anil Neerukonda Institute of
Technology & Sciences
Sangivalasa-531 162
Visakhapatnam Dist.

C/s to: 1. The Principal

HOD of EEE

S. G. RAO
Dr. G. RAJA RAO

Dr. G. RAJA RAO
Professor & HOD of EEE,
ELECTRICAL & ELECTRONICS ENGG.,
ANITS, Sangivalasa
VISAKHAPATNAM - 531 162

R. Srikanta
Convener, IQAC
Anil Neerukonda Institute of
Technology & Sciences
Sangivalasa-531 162
Visakhapatnam Dist.

Principal
Principal
Anil Neerukonda Institute of
Technology & Sciences
Sangivalasa- 531 162
Visakhapatnam Dist



Anil Neerukonda Institute of Technology & Sciences (Autonomous)

(Affiliated to AU, Approved by AICTE & Accredited by NBA & NAAC with 'A' Grade)

Sangivalasa-531 162, Bheemunipatnam Mandal, Visakhapatnam District

Phone: 08933-225083/84/87

Fax: 226395

Website: www.anits.edu.in

email: principal@anits.edu.in

Department of Information Technology

List of new courses introduced in the BoS meeting held on 28-04-2018 for the academic year 2018-19

S.No	Name of the Course	Course Code	Year & Sem
1.	Data Analytics	IT413	IV /IV, Sem-I
2.	Artificial Intelligence and Robotics	IT414-1	IV /IV, Sem-I
3.	Parallel computing	IT414-2	IV /IV, Sem-I
4.	Data Ware Housing And Mining	IT414-3	IV /IV, Sem-I
5.	Software Project Management	IT414-4	IV /IV, Sem-I
6.	Machine Learning	IT415-1	IV /IV, Sem-I
7.	Storage Area Networks	IT415-2	IV /IV, Sem-I
8.	User Experience (Ux)	IT415-3	IV /IV, Sem-I
9.	Intellectual property right & patents	IT415-4	IV /IV, Sem-I
10.	Analytics Lab	IT416	IV /IV, Sem-I
11.	Network Security Lab	IT417	IV /IV, Sem-I
12.	Soft computing	IT421-1	IV /IV, Sem-II
13.	Cognitive computing	IT421-2	IV /IV, Sem-II
14.	Cloud computing	IT421-3	IV /IV, Sem-II
15.	E commerce	IT421-4	IV /IV, Sem-II
16.	Image Processing	IT422-1	IV /IV, Sem-II

16.	Image Processing	IT422-1	IV /IV, Sem-II
17.	Cyber Security	IT422-2	IV /IV, Sem-II
18.	Enterprise Resource Planning	IT422-3	IV /IV, Sem-II
19.	Internet of Things	IT422-4	IV /IV, Sem-II
20.	Massive Open Online Course	IT424	IV /IV, Sem-II

Ch. Suresh

(HOD, IT)

head of the Department
Department of IT
ANITS, Visakhapatnam

A. Lakshmi

Convener, IQAC
Anil Neerukonda Institute of
Technology & Sciences
Sangivalasa-531 162
Visakhapatnam Dist.

Ch. Demuru Naidu
(CH. DEMURU NAIDU)

Ch. P. Suresh
(C.P. Suresh)

M. V. Krishna
(M. V. Krishna)

Sec. Hareesh

QW

Principal
Anil Neerukonda Institute of
Technology & Sciences
Sangivalasa- 531 162
Visakhapatnam Dist



ANIL NEERUKONDA INSTITUTE OF TECHNOLOGY & SCIENCES

'UGC AUTONOMOUS'

(Permanently Affiliated to Andhra University, Approved by AICTE, Accredited by NBA & NAAC with 'A' Grade)

SANGIVALASA -531 162, BHEEMUNIPATNAM MANDAL, VISAKHAPATNAM DIST.,

Phones : 08933 - 225083, 225084, 226131 Fax : 08933 - 226395

Minutes of the meeting of the Board of Studies, Dept. of mechanical Engineering
(UG & PG) held on 28th April 2018 at 10:00AM

S.No	Name	Designation	Category	Signature
1	PROF. D. RAVI KUMAR	Prof., Dept. of Mech. Engg, IIT-Delhi	Academic Council Nominee	
2	PROF. CH. RATNAM	Prof. & HOD, Dept. of Mech. Engg. AUCE(A).	Academic Council Nominee	
3	PROF. N. RAMANAI AH	Professor, Dept. of Mech. Engg. AUCE(A). Vishakapatnam.	University Nominee	
4	Dr. A. SHYAM SUNDAR	Dy. General Manger, R&D, RINL, Vishakapatnam.	Industry Nominee	
5	VENKATA POORNESH	Sr. Engineer, BHEL, Visakhapatnam	Alumni Member	
6	PROF. T.V. HANUMANTHA RAO	Principal, ANITS & Professor of Mechanical Engineering	Honorary Member	
7	PROF. D. PRASADA RAO	Prof., Dept. of Mech. Engg, Dean and Controller of Examination, ANITS	Honorary Member	
8	PROF. N. INDRAKIRAN	Prof., Dept. of Mech. Engg. ANITS	Member	
9	R. CHANDRAMOULI	Assoc. Prof., Dept. of Mech. Engg. ANITS	Member	
10	Dr. K.SIVA PRASAD	Assoc. Prof., Dept. of Mech. Engg. ANITS	Member	
11	Dr. RAJESH GHOSH	Assoc. Prof., Dept. of Mech. Engg. ANITS	Member	
12	G.UMAMAHESWARA RAO	Sr. Asst. Prof., Dept. of Mech. Engg. ANITS	Member	
13	M. RAJA ROY	Sr. Asst. Prof., Dept. of Mech. Engg. ANITS	Member	
14	M.S.S. SRINIVAS RAO	Sr. Asst. Prof., Dept. of Mech. Engg. ANITS	Member	
15	J.V. BHANU TEJ	Asst. Prof., Dept. of Mech. Engg. ANITS	Member	
16	M. PREM DHEERAJ	Asst. Prof., Dept. of Mech. Engg. ANITS	Member	
17	BASA NAGARAJU	Asst. Prof., Dept. of Mech. Engg. ANITS	Member	
18	PROF. B. NAGARAJU	HOD, Dept. of Mech. Engg. ANITS	Chairman- Board of Studies (Mechanical)	



ANIL NEERUKONDA INSTITUTE OF TECHNOLOGY & SCIENCES(A)
(Affiliated to Andhra University, Accredited by NBA)

Sangivalasa 531 162, Bheemunipatnam Mandal, Visakhapatnam Dist.

MECHANICAL ENGINEERING DEPARTMENT

Minutes of Board of studies meeting held on 28-04-2018

Agenda: Review and ratification of Final year syllabus under autonomous scheme.

The members of board of studies met on this day in metrology lab, Mechanical engineering department, ANITS to review the syllabus and suggest suitable modifications wherever necessary for ratification. At the outset, the chairman of BOS Prof. B. Nagaraju, welcomed the gathering and initiated the process. The review of the syllabus was taken up as an immediate agenda and was done semester wise. The following observations were made by the members:

1. It was suggested by Prof. D. Ravi Kumar that the minimum number of tutorial classes should be one for every unit.
2. The following comments were made regarding the theory subject "**Product Design and Manufacturing**":
 - 2.1 The criteria for material selection should be included in the first unit before studying about product design.
 - 2.2 The unit II which is concerned with "**Failure theories**" seems to be highly fundamental in nature and should be modified.
 - 2.3 The Units III, IV & V are not framed properly and have to be elaborated by including sub topics.
3. It was observed by the experts that the syllabus of "**Finite Element Analysis**" needs to be reviewed to remove such topics which are advanced for UG course.
4. The syllabus of CNCM&CAM requires minor modifications as suggested by the expert team which are elaborated below.
 - 4.1 The contents of Unit-I have to be reduced.
 - 4.2 A topic on **Automatic part programming** to be included in Unit-II.
 - 4.3 Some of the sub topics in unit-V are abbreviated, which have to be elaborated.
5. It is suggested by Dr. Ravi Kumar that since Nano-Technology is being offered by the physics department as an open elective, it is need less to offer the same course as

professional elective by the department. It may be replaced by a suitable contemporary course when the course structure comes for review.

6. It was felt by the members to remove the topic PLC and its applications from the syllabus of **Instrumentation & control systems**.

The chairman thanked the members of the board for their valuable suggestions, which will be given due consideration in modifying the syllabus. The 4th year Mechanical Engineering syllabus with these modifications included was finally ratified.

CC to: 1) Principal
2) Dean of examinations

} for the kind information

28.4.18
(HOD. Mechanical)
Dr. B. Naga Raju
M.Tech, M.E., Ph.d
Professor & HOD
Dept. of Mechanical Engineering
ANITS, Sangivalasa,
Visakhapatnam-531 152.



Anil Neerukonda Institute of Technology & Sciences (Autonomous)

(Affiliated to AU, Approved by AICTE & Accredited by NBA & NAAC with 'A' Grade)

Sangivalasa-531 162, Bheemunipatnam Mandal, Visakhapatnam District

Phone: 08933-225083/84/87

Fax: 226395

Website: www.anits.edu.in

email: principal@anits.edu.in

Department of Mechanical Engineering

List of new courses introduced in the Board of Studies (BoS) meeting held on 28-04-2018 for the academic year 2018-19

S. No	Name of the Course	Course Code	Year & Semester
1.	Product Design and Manufacturing	MEC 415(B)	IV/IV, Sem -1
2.	Entrepreneurship Development	MEC 416 (D)	IV/IV, Sem -1
3.	Nano Technology	MEC 416 (E)	IV/IV, Sem- 1
4.	Project Phase-I	MEC 420	IV/IV, Sem -1
5.	Condition Monitoring	MEC 422(B)	IV/IV, Sem -2
6.	MOOCS	MEC 424	IV/IV, Sem -2

Char. RA. Nain
(CH. RA. NAIN)

N. Ramanaiah
(Prof. N. Ramanaiah)

R. Shankar
Convener, IQAC
Anil Neerukonda Institute of
Technology & Sciences
Sangivalasa-531 162
Visakhapatnam Dist.

G. Venkatesh
28/4/2018

R. S.
28/4/18

K. VenkataPoornesh
(Kalla VenkataPoornesh)

28-4-18
Prof. B. NagaRaju,
Chairman BOS,
Mech. Engg. Dept.

PROFESSOR & HEAD
Department of Mechanical Engineering
ANIL NEERUKONDA INSTITUTE OF TECHNOLOGY & SCIENCES
Sangivalasa-531 162 VISAKHAPATNAM Dist. A.P.

Principal
Principal
Anil Neerukonda Institute of
Technology & Sciences
Sangivalasa- 531 162
Visakhapatnam Dist

Board of Studies (BOS)

AY 2017-18



ANIL NEERUKONDA INSTITUTE OF TECHNOLOGY & SCIENCES

'UGC AUTONOMOUS'

(Permanently Affiliated to Andhra University, Approved by AICTE, Accredited by NEA & NAAC with 'A' Grade)

SANGIVALASA - 531 162, SHEEMUNIPATNAM MANDAL, VISAKHAPATNAM DIST.

Phones : 08933 - 225083, 225084, 226131, Fax: 08933 - 226395

Website : www.anits.edu.in

e-mail : principal@anits.edu.in

Ref: ANITS/Gen-12/Circular/Notice /2016-17

Date: 15th March 2017

MEETING NOTICE

The third meeting of the **Board of Studies** is scheduled to be held on Saturday the 25th March, 2017 at our college premises at Visakhapatnam as per following schedule. All the members are requested to attend the meeting.

Schedule for BOS meeting

Joint Board of Studies Meeting:

Agenda:

1. To finalize the 3rd year scheme of instruction of curriculum and the syllabus for 2017-2018 academic year

Venue: CRT Hall, **Chemical Engineering** Block

Time: 09:30 AM

Individual Departments' Board Meeting: 10:30 AM to 01:00 PM in the respective Depts.

Lunch: 01:00 PM to 02:00 PM

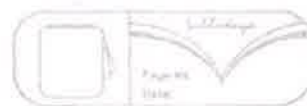
Conclusion Session: 02:00 PM

To:
All the Members of BOS
Special Invitees
Directors & Deans
All HoDs
Placement & Library
Master file & BOS file



Anil
PRINCIPAL

Principal
Anil Neerukonda Institute of
Technology & Science
Sangivalasa - 531 162
Visakhapatnam Dist.



7:

Dept. of Chemical

S.No	Name of the member	Designation	Category	Signature of the member
1.	Prof. S. Subba Rao	HoD, Chemical, ANITS	BOS. Chairman	
2.	Prof. G. Hanumantha Rao	Professor, Chemical, ANITS	Member	
3.	Dr. Ch. Anil	Associate Professor, Chemical, ANITS	Member	
4.	Dr. M. Shiva Naresh	Associate Professor, Chemical, ANITS	Member	
5.	Prof. P.S.T. Sai.	Dept. of Chemical Engineering, IIT, Chennai,	Academic council Nominee	
6.	Prof. S.V.Naidu	Dept. of Chemical Engineering, AUCE (A), VSP	Academic council Nominee	
7.	Prof. V. Sujatha	Department of Chemical Engineering AUCE (A) AU, VSP	University Nominee	
8.	Dr. A. Srinivas Kumar	Scientist 'G' & Technology Director NSTL, DRDO, VSP	Industry	

ANIL NEERUKONDA INSTITUTE OF TECHNOLOGY & SCIENCES

(UGC AUTONOMOUS)

(Affiliated to AU, Approved by AICTE & Accredited by NBA & NAAC with 'A' Grade))
Sangivalasa 531 162, Bheemunipatnam Mandal, Visakhapatnam Dist



DEPARTMENT OF CHEMICAL ENGINEERING

Minutes of the meeting of the Board of Studies, Department of **Chemical engineering** (UG) held on 25th March, 2017 at 10.30 AM.

Members present:


- | | |
|----------------------------|-------------------------------------|
| 1. Prof. S. Subba Rao | Chairman, BOS, Chemical Engineering |
| 2. Prof. G. Hanumantha Rao | Member |
| 3. Dr. Ch. Anil | Member |
| 4. Dr. M. Shiva Naresh | Member |
| 5. Prof. P.S.T. Sai | Member, Academic council nominee |
| 6. Prof. S.V. Naidu | Member, Andhra University nominee |
| 7. Dr. A. Srinivasa Kumar | Member, Industry/Research |


Resolutions:

1. As per the decision taken in the combined Board of Studies, it is resolved to go with other branches of engineering with the changes suggested by the experts in the subjects CHE 319 and CHE 329 Quantitative and Verbal Aptitude I and II respectively.
2. Syllabi for III/IV B.Tech. Chemical Engineering I and II semesters including Open Electives were discussed and the experts felt satisfactory about the content.
3. The experts suggested to earmark the periods separately as Lectures (L) and Tutorials (T) instead of total periods in the syllabi.

4. The committee felt that the title of the course CHE 328 Chemical Technology and Pollution control Laboratory be changed to "Chemical Technology Laboratory". Similarly the title of the professional elective CHE 316 (E) Technology of Soaps and Detergents be changed to "Soap and Detergent Technology" in line with the titles of other technologies in the list of electives.
5. The committee felt that the case studies in all the units of the subject CHE321 Mass Transfer-II, may be grouped together and mentioned at the end of the syllabus which should be dealt for internal assessment only.

6. Prof P.S.T. Sai suggested to delete the reference of reading material prepared for AU School of Distance Education for the subject CHE323 Material Science and Engineering.
7. Prof S. V. Naidu suggested to include the text book authored by Dr. B. Viswanadthan for Open Elective-I : CHE 311(C) Fuel Cell Technology.
8. Dr. A. Srinivas Kumar suggested to include some more topics in *electric safety* in Open Elective-I: CHE 311(A) Industrial Safety and Hazard Management.
9. The committee felt that the book Shreve's, *Chemical Process Industries*, be included as reference instead of prescribed text book for the subject CHE 324 Chemical Technology.
10. The committee felt that **Open Elective-I: CHE 311(D) Design of Experiments** be excluded as it is too advanced for B.Tech. students. In this context, Prof G. Hanumantha Rao suggested to explore the possibility of offering the courses like **"Applied Statistics for Engineers and Environmental Biotechnology"** as Open Electives.


(Prof. S. Subba Rao)
Chairman, BOS


Convener, IQAC
Anil Neerukonda Institute of
Technology & Sciences
Sangivalasa-531 162
Visakhapatnam Dist.


Principal
Anil Neerukonda Institute of
Technology & Sciences
Sangivalasa- 531 162
Visakhapatnam Dist



ANIL NEERUKONDA INSTITUTE OF TECHNOLOGY & SCIENCES
(Affiliated to AU, Approved by AICTE & Accredited by NBA)
SANGIVALASA-531162, Bheemunipatnam Mandal, Visakhapatnam District
Phone: 08933-225083/84/87 Fax: 226395

www.anits.edu.in

Email: hod_civil@anits.edu.in

DEPARTMENT OF CIVIL ENGINEERING

**Minutes of Board of Studies Meeting held on 25-03-2017
Autonomous Regulations (2015)**

Date : March 25, 2017
Time : 10:30 AM
Venue : Civil Engineering Department, ANITS

Agenda:

1. Draft syllabus for III Year I semester and II semester B.Tech (Civil Engineering)
2. List of Electives for III/IV and IV/IV B.Tech
3. Paper setters for III Year I semester and II semester B.Tech (Civil Engineering)
4. Innovative Teaching and Evaluative Techniques
5. Any other item with the permission of the chair

Members Present:

1. Dr. B.V.S.Viswanadham, Professor of Civil Engg., IIT Mumbai *B.V.S. Viswanadham 25/3/17*
2. Dr.T.V.Praveen, Professor, Civil, Andhra University
3. Dr. G.Appa Rao, Professor of Civil Engg., IIT Chennai *G. Appa Rao 25/3/17*
4. Sri.R.Nageswara Rao, Superintending Engineer, Visakhapatnam *R. Nageswara Rao 25/03/17*
5. Prof. A.Rama Mohana Rao, Professor of Civil Engg. *A. Rama Mohana Rao*
6. Sri.J.Vikranth, Associate Professor of Civil Engg. *J. Vikranth*
7. Sri T.V.V.Teja, Assistant Professor of Civil Engg. *T.V.V. Teja*
8. Sri.T.Kiran kumar, Assistant Professor of Civil Engg. *T. Kiran Kumar 25/03/17*
9. Ms.P.V.R.Sravya, Assistant Professor of Civil Engg. *P.V.R. Sravya 25/3*
10. Dr.B.N.D.Narasinga Rao, Professor and HoD, Dept. of Civil Engg. (In Chair) *B.N.D. Narasinga Rao*

Minutes:

1. Considered the detailed syllabus for III Year I semester and II semester B.Tech Civil Engineering for discussion and approved the same.
2. Considered the List of Electives, including Open Electives, for III/IV and IV/IV B.Tech Civil Engineering along with detailed syllabus for discussion and approved the same.
3. List of paper setters for III Year B.Tech Civil Engineering is considered and approved. The Board, however, has authorized the Head of Department, Civil Engineering, ANITS to add or modify the list wherever necessary.
4. Discussed the innovative Teaching and Evaluation Techniques.

B.N.D. Narasinga Rao
(Dr.B.N.D.Narasinga Rao)
Chairman – Board of Studies
Civil Engineering - ANITS

5. Members suggested to increase the weekly load to 4 + 1 for the subject Fluid Mechanics – II in III Year – I Semester and also to increase the credits to 4 from 3 in view of the quantum of syllabus involved. It is proposed to maintain the total credits for the program constant by decreasing the credits for Project Work – I (IV Year – I Semester) from 4 to 3.
6. Considered the Course structure and detailed syllabus for M.Tech. (Soil Mechanics), which is proposed to be introduced w.e.f. 2017-18, and approved the same after discussion.



(Dr. B.N.D. Narasinga Rao)
Chairman – Board of Studies
Civil Engineering – ANITS
Head of the Department
Department of Civil Engineering
Anil Neerukonda Institute of Technology and Sciences
Sangivalasa, Bheemunipatnam
Visakhapatnam - 531162


Convener, IQAC
Anil Neerukonda Institute of
Technology & Sciences
Sangivalasa-531 162
Visakhapatnam Dist.


Principal
Anil Neerukonda Institute of
Technology & Sciences
Sangivalasa- 531 162
Visakhapatnam Dist.



Anil Neerukonda Institute of Technology & Sciences (Autonomous)

(Affiliated to AU, Approved by AICTE & Accredited by NBA & NAAC with 'A' Grade)

Sangivalasa-531 162, Bheemunipatnam Mandal, Visakhapatnam District

Phone: 08933-225083/84/87

Fax: 226395

Website: www.anits.edu.in

email: principal@anits.edu.in



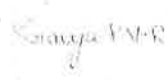
Department of Civil Engineering

List of new courses introduced in the BoS meeting held on 25/03/2017 for the academic year 2017-2018.

Regulation: R 15

S.No	Name of the Course	Course Code	Year & Sem
1.	Basic Civil Engineering	CIV311-A	III/IV, Sem-I
2.	Building Planning and Construction	CIV311-B	III/IV, Sem-I
3.	Technical Seminar *	CIV3111	III/IV, Sem-I
4.	Computer applications in Civil Engineering lab - I	CIV328	III/IV, Sem-II

S.No	Name & Designation	Signature
1	Prof. G. Apparao Professor, Dept. of Civil Engineering, IIT, Chennai - 600036, Tamilnadu, INDIA	
2	Dr. B.V.S. Viswanadham, Professor, Department of Civil Engineering, IIT, Bombay, Mumbai, Maharashtra - 400076	
3	Dr. T.V. Praveen, Professor, AUCE (A), VSP.	
4	Sri. R. Nageswara Rao, Superintending Engineer, Irrigation & CAD	
5	Dr. B.N.D. Narasinga Rao Professor & Head-Civil, ANITS Chairman (BoS-Civil)	
6	Prof. A. Rama Mohana rao, Professor of Civil engineering, ANITS	

7	Sri J. Vikranth, Associate Professor of Civil engineering, ANITS	
8	Sri T.V.V Teja, Assistant Professor of Civil engineering, ANITS	
9	Sri T. Kiran kumar Assistant Professor of Civil engineering, ANITS	
10	Sri P.V.R Sravya, Assistant Professor of Civil engineering, ANITS	



ANIL NEERUKONDA INSTITUTE OF TECHNOLOGY & SCIENCES

'UGC AUTONOMOUS'

(Permanently Affiliated to Andhra University, Approved by AICTE, Accredited by NBA & NAAC with 'A' Grade)

SANGIVALASA - 531 162, BHEEMUNIPATNAM MANDAL, VISAKHAPATNAM DIST.,

Phones : 08933 - 225083, 225084, 226131, Fax: 08933 - 226395

Website : www.anits.edu.in

e-mail : principal@anits.edu.in

Minutes of the meeting of the Board of Studies Dept. of CSE(UG&PG) held on 25.03.2017

Members Present:

Dept. Of CSE

S. No	Name	Designation	Category	Signature of the member
1	Dr. R.Sivaranjani	HoD&Professor, CSE, ANITS	Chairman, BOS, CSE	
2	Dr. K.VSVN Raju	Professor, CSE, ANITS	Member	
3	Dr. Tusarkanti Mishra	Assoc. Prof., CSE, ANITS	Member	
4	Mr. S. Ratan Kumar	Assoc. Prof., CSE, ANITS	Member	
5	Mr. Ch. Seshadri Rao	Asst. Prof., CSE, ANITS	Member	
6	Mrs. Pritee Parwekar	Asst. Prof., CSE, ANITS	Member	
7	Mr. B.Ravi Kiran	Asst. Prof., CSE, ANITS	Member	
8	Mr. K. Suresh	Asst. Prof., CSE, ANITS	Member	
9	Mrs. Keerthi Lingam	Asst. Prof., CSE, ANITS	Member	
10	Mr. G.Jagadish	Asst. Prof., CSE, ANITS	Member	
11	Dr. H. Majhi	Professor, CSE, NIT, Rourkela	Academic Council Nominee	
12	Dr. Itajib Mall	Professor, CSE, IIT Khargpur	Academic Council Nominee	
13	Dr. D. Lalitha Bhaskari	Professor, CSE, AUCE(W)	University Nominee	
14	Dr. C. Srinagesh	Manager, Campus Connect, Infosys Technologies, Hyd	Industry	
15	Mr. T. Shyam Vamsi	IBM, Chennai	Alumni	
16	Sri. K. Lakshminarayana	Former Regional Offices, AICTE	Special Invitee	
17	Sri. K.V.S.S. Rajeswara Rao	General Manager, IT, Vizag Steel Plant	Special Invitee	

Anil Neerukonda Institute of Technology and Sciences
(Autonomous)
(Affiliated to AU, Approved by AICTE, Accredited by NBA and NAAC with 'A' Grade)

Minutes of Board of Studies Meeting

Department of CSE

Minutes of the Meeting:

Subject	:	Board of Studies-Bachelor of Technology (CSE)
Venue	:	LAB 2, Dept. of CSE
Date	:	25-3-2016
Agenda	:	III/IV B. Tech Syllabus & Contents. IV/IV Sem-I Open Electives

The following members were present in the Meeting:

- Prof. (Dr.) R Sivaranjani- Chairperson-Board of Studies- CSE-ANITS.
- Prof. K.V.S.V.N.Raju- Member- CSE-ANITS.
- Prof. D. Lalitha Bhaskari- Professor-University Nominee-Dept. of CS&SE-AUCOEW
- Dr. Tusar Kanti Mishra - Member - CSE-ANITS.
- Mr. S. Ratan Kumar-Member- CSE-ANITS.
- Mr. Ch. SeshadriRao-Member- CSE-ANITS
- Mrs. PriteeParwekar-Member- CSE-ANITS.
- Mr.B.Ravi Kiran- Member- CSE-ANITS.
- Mrs. Keerthi Lingam -Member- CSE-ANITS.
- Mr.G.Jagadish- Member- CSE-ANITS.
- Dr. S. Lakshminarayana- Special Invitee-Principal Scientist-CSIR-NIO, Vizag.
- Sri KVSS RajeswaraRao-Special Invitee- GM-IT-Vizag Steel Plant, VSP.
- Mr.T.Shyam Vamsi -IBM, Chennai – Alumni
- Dr. B. Majhi-Professor-Academic Council Nominee-Dept. of CSE-NIT Rourkela.

Apologies:

- Dr. C. Sri Nagesh-Industry-Manager- Campus Connect-Infosys Technologies, Hyd.
- Dr. Rajib Mall- Professor-Academic Council Nominee-Dept. of CSE-IIT Kharagpur.
- Mr.K.Suresh- Member- CSE-ANITS.

Chairman BOS officially welcomed all the members for the BOS B. Tech-CSE, B. Tech. He also informed the house, the absents of other members due to some unavoidable circumstances.

Mr. S. Ratan Kumar, Assoc. Prof., Dept. of CSE presented the draft curriculum and syllabus for III/IV B. Tech CSE. Members deliberated on the design of the curriculum for the third year based on resolutions taken on the joint board of studies of all departments. Following the resolutions are taken after a rigorous discussion, debate among the members.

11

**Anil Neerukonda Institute of Technology and Sciences
(Autonomous)**

(Affiliated to AU, Approved by AICTE, Accredited by NIIA and NAAC with 'A' Grade)

VISION & MISSION

ANITS and CSE department vision and mission statements are presented to the committee for their feedback.

- In the college vision instead of "ANITS envisions to emerge" it can be stated as "To emerge" as it is being stated as vision in heading so it will be duplication.
- In the department vision instead of changing Computer Science technology it can be stated as challenges of CST.

PROGRAM EDUCATIONAL OBJECTIVES (PEO)

Committee has suggested to change the order of the PEO's which is as follows:

- Lifelong
- Entrepreneur
- Higher Studies
- Employability

PROGRAM OUTCOMES (PO)

The PO's are presented for the feedback and they suggested to include Research word in them.

PROGRAM SPECIFIC OUTCOMES

No suggestions given by the committee.

SUMMARY OF BTECH COURSE

- The overall summary of the B.Tech course is presented for feedback. Committee enquired about the process of final year projects. 90% of projects are handled by the faculty and rest 10% outside (internships).
- Comparison of CSE curriculum with NIT Warangal , NIT Rourkela etc are displayed
- Committee suggested to include summer course same as BITS Pilani.
- Project Part I, Project Part B can be changed to Project I, Project II.

3/4 SEM-I SYLLABUS

3/4 B.tech Sem-1 syllabus is presented for suggestions.
Departmental electives must be named as Professional Electives.

Data Communications

- Data Communications title should be changed to Data Communication if possible.

Computer Operating Systems

- Title to be changed to Operating Systems instead of Computer Operating Systems if possible.

**Anil Neerukonda Institute of Technology and Sciences
(Autonomous)**

(Affiliated to AU, Approved by AICTE, Accredited by NBA and NAAC with 'A' Grade)

DBMS (Open Elective)

- As DBMS in regular and open elective syllabus are different then the title should be different like DBMS and File Systems
- This elective is for non-cse branch students so the syllabus can be kept simple. Objective is to get the knowledge of the subject. Functional dependency can be included and other details of transactions can be removed.

Computer Operating Systems (Open Elective)

- Suggestions were given not to keep the references of youtube links.
- Go for online courses as a reference.
- Instead of windows XP specify as windows OS scheduling.
- Give students assignment as case study to know the current operating systems.

OOP (Open Elective)

- Syllabus is very heavy for non-cse branch students.
- Suggestion was given to divide the subject in two parts.

CG (Open Elective)

- Suggestions were given to add Books of Indian authors i.e Zhigang Xiang, Roy A.Pladdock, " Computer graphics" ,schaum's outline series, adapter by P.S.Avadhani, The McGrawHill companies.

Design and Analysis of Algorithms

- Syllabus should not be same for core and open electives.
- Can give this subject as open elective- as algorithm analysis as it is very important subject for other branches to understand. It forms the base of engineering subject.

CN Lab

- Instead of writing software – suggestion was given to write simulator or open source tools.

3/4 SEM-II SYLLABUS

3/4 B.tech Sem-2 syllabus is presented for suggestions.

- Suggested to include Business Analytics in electives

Compiler Design

- Need to remove the youtube link
- Suggested to add the book authored by Ravi Sethi as reference.

**Anil Neerukonda Institute of Technology and Sciences
(Autonomous)**

(Affiliated to AU, Approved by AICTE, Accredited by NBA and NAAC with 'A' Grade)

Software Engineering

- Need to remove youtube links
- Project Management can be given as a separate unit.

Web Technologies

- Check for difference between of syllabus in WT and web designing subject.
- Suggested to refer IMAD open courses developed by IITB.

Advance Computer Architecture

- Suggested to remove the word advance in the title and make it computer architecture.

Advanced Data Structure (Professional Elective)

- Change the title to Advanced Data Structures

Advanced Microprocessors (Professional Elective)

- Unit 4 & 5 syllabus are good.
- Suggested to add introduction of ES and make it as regular subject in 4/4 sem-I and make space for new elective and it can be named as
 - Smart System Design & Programming

PPI

- Suggested to modify web references

OST Lab

- Include advanced microprocessors concepts in this lab contents if possible.

CC (Open Elective)

- Give demo about how to load VMWare, how to do virtualization in class.

4/4 SEM-I OPEN ELECTIVES SYLLABUS


- Committee has suggested to replace python programming with Business Analytics or Web designing or Mobile Security or Cyber security in the electives which will be more useful for students.
- Also suggested to club all the electives and leave the option to students to choose any two of them.
- Instead of project part 1 it should be specified as project 1 and project 2

Anil Neerukonda Institute of Technology and Sciences
(Autonomous)

(Affiliated to AU, Approved by AICTE, Accredited by NBA and NAAC with 'A' Grade)

M.Tech SYLLABUS

- A new course (Information Security & Management) is added in M.tech Sem-2 to balance with the number of credits of other departments.
- Change the title of ISM to Security & Management and contents can be as follows :
 - Unit 1 : Threat Analysis
 - Unit 2 : Risk Management
 - Unit 3 : Information retrieval mechanism
 - Unit 4 : Cyber laws & IT Act
 - Unit 5 : ISO Standards
- Syllabus should be reframed and asked to mail the same to the committee for approval.
- Suggested to remove DOS as elective as the topics are already discussed in AOS and replace it with new elective like Approximation Algorithms.
- Include RTOS topics in ES subject.


Prof. (Dr) R Sivaranjani
Chairman
BOS-CSE



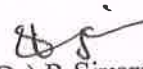
Anil Neerukonda Institute of Technology & Sciences (Autonomous)

(Affiliated to AU, Approved by AICTE & Accredited by NBA & NAAC with 'A' Grade)
Sangivalasa-531 162, Bheemunipatnam Mandal, Visakhapatnam District
Phone: 08933-225083/84/87 Fax: 226395
Website: www.anits.edu.in email: principal@anits.edu.in

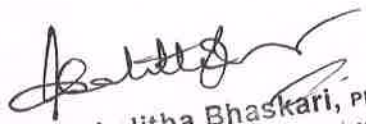
Department of Computer Science & Engineering


List of new courses introduced in the Board of Studies (BoS) meeting held on 25-3-2017 for the academic year 2017-18

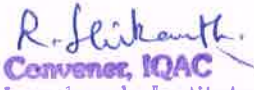
S. No	Name of the Course	Course Code	Year & Semester
1.	File Systems & Data Bases	CSE311(A)	III/IV, Sem -1
2.	Computer Operating Systems	CSE311(B)	III/IV, Sem -1
3.	Fundamentals of Computer Networks	CSE311(C)	III/IV, Sem -1
4.	COMPUTER NETWORK LAB	CSE317	III/IV, Sem -1
5.	Smart Systems Design & Programming	CSE325A	III/IV, Sem -2
6.	High Performance Computing	CSE325B	III/IV, Sem -2
7.	Advanced Data Structures	CSE325D	III/IV, Sem -2
8.	NoSQL Data Bases	CSE325F	III/IV, Sem -2
9.	OPEN SOURCE TECHNOLOGIES LAB	CSE326	III/IV, Sem -2
10.	QUANTATIVE & VERBAL APTITUDE I	CSE319	III/IV, Sem -1

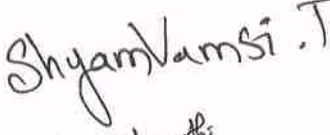



Prof. (Dr) R Sivaranjani,
Chairman,
BOS-CSE Dept.


Head of the Department of
Computer Science & Engineering
Anil Neerukonda Institute of
Technology & Sciences
Sangivalasa, Visakhapatnam Dist


Prof. D. Lalitha Bhaskari, Ph.D
Department of Computer Science & Systems Engineering
A.U. College of Engineering (A) Andhra University
Visakhapatnam - 530 003, (A.P.) INDIA


Prof. KVS N Raju


R. Srikanth
Convener, IQAC
Anil Neerukonda Institute of
Technology & Sciences
Sangivalasa-531 162
Visakhapatnam Dist.


Shyamkamsi .T

Sreedh

G. Suresh


Principal
Anil Neerukonda Institute of
Technology & Sciences
Sangivalasa- 531 162
Visakhapatnam Dist



ANIL NEERUKONDA INSTITUTE OF TECHNOLOGY & SCIENCES
UGC AUTONOMOUS

(Affiliated to AU, Approved by AICTE & Accredited by NBA & NAAC with 'A' Grade)
Sangivalasa-531162, Bheemunipatnam Mandal, Visakhapatnam Dt.
Phone: 08933- 225084,226395

Minutes of the 3rd meeting of Board of Studies, Dept. of ECE (UG)
held on 25.03.2017 at 10.30AM.

S. No	Name	Designation	Category	Signature
1	Dr. V. Rajya Lakshmi	Head, ECE, ANITS	Chairperson, BOS, ECE	
2	Dr.K.Raja Rajeswari	Prof., ECE, ANITS	Member	
3	Dr.K.S.Ranga Rao	Prof., ECE, ANITS	Member	
4	Dr.K.MuraliKrishna	Prof., ECE, ANITS	Member	
5	Mr. S. Balaramamurthy	Assoc. Prof, ECE,ANITS	Member	
6	Dr.L.Ganesh	Asst. Prof., ECE,ANITS	Member	
7	Mr.D.Anil Prasad	Asst. Prof., ECE,ANITS	Member	
8	Mr. J. Bhaskara Rao	Asst. Prof. ECE, ANITS	Member	
9	Mr. A. Lakshminarayana	Asst. Prof. ECE, ANITS	Member	
10	Mr. Vijaya Kumar Sahu	Asst. Prof. ECE, ANITS	Member	
11	Mr.N.Srinivasa Naidu	Asst. Prof. ECE, ANITS	Member	
12	Mr.Eswar Chaitanya	Asst. Prof., ECE, ANITS	Member	
13	Dr. Shankar Prakriya	Professor, IIT, Delhi	Special invitee	NOT ATTENDED
14	Prof. P. Ramakrishna Rao,	Advisor, ANITS	Academic council nominee	
15	Dr. P. Rajesh Kumar,	Prof. & HoD, ECE, AUCE(A), VSP	Academic council nominee	
16	Prof. A. Mallikarjuna Prasad	Dept. of ECE, JNTU, Kakinada	University Nominee	
17	Mr.N.Srinivas	Avantel, Visakhapatnam	Industry	
18	Mr. M. Durga Prasad	JTO, BSNL	Alumni	



DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Minutes of the 3rd meeting of the BOS, Department of ECE (UG) held on 25.03.2017 at AM in the DSP lab with the following agenda.

1. Finalization of Autonomous syllabus (3rd year, semester-I & II)
2. Any other item

The Committee discussed various points given in the agenda submitted by the HOD, Dr.V.Rajyalakshmi and made the following recommendations/suggestions.

The chairperson, Dr.V.Rajya Lakshmi, HOD of ECE, ANITS welcomed all the BOS members present in the meeting and appraised the members about the department through a point presentation. During the presentation, the agenda has been discussed by the members in detail.

1. Dr.V.Rajya Lakshmi, chairperson showed the Autonomous scheme of the 3rd year semester I & semester II to the members and said that it was discussed in the department advisory Committee meeting held on 20-02-2017 in the department of ECE. Also said that with the acceptance of the members in the Department Advisory Committee (DAC) meeting, slight modifications were made in the 3rd year semester I & semester II syllabus. The modifications were as follows:

3rd year, semester-I (Earlier scheme)		3rd year, semester-I (Modified scheme)	
Course code	Name of the course	Course code	Name of the course
ECE 311	Antennas & Wave Propagation	ECE 311	Open Elective-I
ECE 313	Advanced Microprocessors	ECE 313	Microprocessors and applications
ECE 316	Open Elective- I	ECE 316	Antennas & Wave Propagation
ECE 317	VHDL Laboratory	ECE 317	Microprocessors and applications laboratory

3rd year, semester-II (Earlier scheme)		3rd year, semester-II (Modified scheme)	
Course code	Name of the course	Course code	Name of the course
ECE 321	Microwave Engineering	ECE 321	Microwave & Radar Engineering
ECE 327	Microprocessors and Microcontrollers lab	ECE 327	Microcontrollers and Embedded systems lab

2. Dr.V.Rajya Lakshmi, chairperson said that course ECE 311 is the open elective to be offered by each department and showed the open electives offered by the department of ECE.
3. Dr.V.Rajya Lakshmi, chairperson said that as suggested by Prof.P.R.K. Rao, satellite communications systems is included in unit-IV of course ECE 312 (communication system engineering). Also said that course ECE 321 is renamed as Microwave and Radar engineering as Radar engineering is included in unit-V at an introductory level in the course.
4. Dr.V.Rajya Lakshmi, chairperson said that the syllabus is framed by the respective research groups giving similar weightage to each of the units present in the course. Also requested to see the modifications made in the scheme and to give suggestions and recommendations for its appropriateness.
5. Prof. A. Mallikarjuna Prasad, suggested to include "Introduction to Embedded systems" as an open elective instead of "Optoelectronics" in 3rd year semester-I.

10.30

Prof. A. Mallikarjuna Prasad, advised to interchange some of the contents in unit-IV and unit-V of the course ECE 313 (Microprocessors and applications) for better delivery of the content. Mr.G.Bhaskar, Project leader, R&D group, Avantel, expressed that no of hours in unit-V need to be increased. Prof.P. Rajesh Kumar, suggested to include 8257 if possible. Dr.V.Rajya Lakshmi, chairperson enquired about the possibility of including course ECE 313 as open elective. Prof. A. Mallikarjuna Prasad replied not to include as an open elective as it is at advanced level.

Prof.P. Rajesh Kumar, advised to combine the contents in unit-I and unit-II as one unit so as to facilitate Digital IC's as one unit in the course ECE 315 (Integrated circuits and applications). Prof. A. Mallikarjuna Prasad suggested text book Digital Design: Principles and Practices by John F.Wakerly for the Digital ICs.

Prof. K.Raja Rajeswari, Dean(Projects), ANITS advised to increase the no of hours in unit - III and unit-IV of the course ECE.322.

0. Prof. A. Mallikarjuna Prasad suggested to include Arduino related topics in the course ECE 323. Mr.G.Bhaskar, Project leader, R&D group, Avantel, replied that as basics were already included, topics related to Arduino may not be essential. Also said that experiments related to Arduino may be included in the concerned laboratory.

members
power
members

1. Mr. M. Durga Prasad, JTO, BSNL, said that the channel length modulation is missing in the course ECE 324 (Analog IC design). Mr.D.Anil Prasad, Asst.Professor replied that the content will be taught in the topic second order effects which is in unit-I.

year
ment
that
DAC
eme

2. Prof. K.S.Ranga Rao enquired about the contents of unit-V in the course ECE 324(Analog Integrated circuits Design). Mr.Anil Prasad, Asst.Professor replied that ECE 324 deals with MOSFET based op-amp design.

3. Mr. M. Durga Prasad, JTO, BSNL, enquired about contents like OFDM, GSM , MIMO etc whether included in the Digital communications course and suggested to include atleast OFDM in digital communications.

4. Prof.P.R.K. Rao expressed that including OFDM without coverage of transforms is not appropriate. Prof.K.Murali Krishna said these topics can be included in the course "Cellular and Mobile Communications"

5. Prof.P.R.K. Rao suggested to replace name of unit-II in course "Digital Communications" as Data reception instead of data transmission. Also advised to include cyclic codes in unit-V

6. Prof.P. Rajesh Kumar, advised to mention the list of experiments to be done on breadboard and through simulations separately stating minimum no of experiments to be done by the students in the course ECE 326.

The chairperson thanked all the members for their active participation and valuable suggestions.

Mr. Mr. S. Balaramamurthy, proposed the vote of thanks.

Dr.V.Rajya Lakshmi
Chairperson, **DAS** & HOD, ECE

ANITS
Head of the Department
Department of ECE

Anil Neerukonda Institute of Technology & Sciences
Principal Sangivalasa-531 162

Anil Neerukonda Institute of
Technology & Sciences
Sangivalasa- 531 162
Visakhapatnam Dist

A. Srikant
Convener, IQAC

Anil Neerukonda Institute of
Technology & Sciences
Sangivalasa-531 162



ANIL NEERUKONDA INSTITUTE OF TECHNOLOGY & SCIENCES
 (Permanently Affiliated to Andhra University. Approved by AICTE)
 Sangivalasa-531 162, Bheemunipatnam Mandal, Visakhapatnam District
DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING
 Accredited by NBA

Minutes of the meeting of the Board of Studies, Department of EEE (UG)
held on 25th March 2017 at 10.30 AM.
(Under Autonomous System)

MEMBERS PRESENT:

S. No.	Name	Designation	Category	Signature of the members
1	Dr. Guntu Raja Rao	Head, EEE, ANITS	Chairman, BOS	<i>[Signature]</i>
2	Prof. R. Govardhana Rao	Director (Admn), ANITS	Member	<i>[Signature]</i>
3	Mr. V. Murali	Assoc. Prof., EEE, ANITS	Member	on special leave
4	Mr. S. Balamurali	Assoc. Prof., EEE, ANITS	Member	<i>[Signature]</i>
5	Dr. J. Vijaya Kumar	Assoc. Prof., EEE, ANITS	Member	<i>[Signature]</i>
6	Mrs. K.V.R. Swathi	Asst. Prof., EEE, ANITS	Member	<i>[Signature]</i>
7	Mr. Kavala Kiran Kumar	Asst. Prof., EEE, ANITS	Member	<i>[Signature]</i>
8	Mr. B. Rajasekhar	Asst. Prof., EEE, ANITS	Member	<i>[Signature]</i>
9	Mr. R. Satish	Asst. Prof., EEE, ANITS	Member	<i>[Signature]</i>
10	Mr. M. Sudheer Kumar	Asst. Prof., EEE, ANITS	Member	<i>[Signature]</i>
11	Mr. L. Dinesh	Asst. Prof., EEE, ANITS	Member	<i>[Signature]</i>
12	Mr. A. Dhanamjaya Apparao	Asst. Prof., EEE, ANITS	Member	<i>[Signature]</i>
12	Prof. B.M. Mohan	Professor, IIT- Kharagpur	Academic Council Nominee	<i>[Signature]</i>
13	Prof. Debapriya Das	Professor, IIT- Kharagpur	Academic Council Nominee	- ABSENT -
14	Prof. Jayanta Pal	Professor, IIT- Bhubaneswar	University Nominee	- ABSENT -
15	Sri B. Srinivasa Reddy	AGM (Electrical), RINL, Visakhapatnam.	Industry	<i>[Signature]</i>
16	Sri P. Santosh Kumar	Deputy Manager, L&T, Chennai.	Alumni	- ABSENT -
18	Sri K. Anil Kumar	Asst. Manager (Electrical), RINL, VSP.	Special Invitee	<i>[Signature]</i>



**Minutes of the Board of Studies (BOS) meeting held on 25-03-2017
(Saturday) at 10.30 AM.**

MEMBERS PRESENT:

1. Prof. R. Govardhana Rao, Director (Admn.), ANITS.
2. Prof. B.M. Mohan, Professor, Dept. of Electrical Engg., IIT Kharagpur.
3. Sri B. Srinivasa Reddy, Asst. General Manager (Electrical), RINL, VSP.
4. Sri K. Anil Kumar, Asst. Manager, RINL, Visakhapatnam.
5. Mr. S. Balamurali, Assoc. Prof., ANITS.
6. Mr. J. Vijaya Kumar, Assoc. Prof., ANITS.
7. Mrs. K.V.R. Swathi, Asst. Prof., ANITS.
8. Mr. Kavala Kiran Kumar, Asst. Prof., ANITS.
9. Mr. B. Rajasekhar, Asst. Prof., ANITS.
10. Mr. R. Satish, Asst. Prof., ANITS.
11. Mr. M. Sudheer Kumar, Asst. Prof., ANITS.
12. Mr. L. Dinesh, Asst. Prof., ANITS.
13. Mr. A. Dhananjaya Apparao, Asst. Prof., ANITS.
14. Prof. G. Raja Rao (Chair person), Professor & HOD, ANITS.

* * *

1. The Chair person welcomed all the BOS members of the department and thanked the members for the support they have rendered to the department.
2. After having brief discussion, the committee has resolved to have 12 program outcomes (POs) in place of the previous existing 11 program outcomes. Also 2 new program specific outcomes (PSOs) have been formed for the program.
3. The board discussed on the topics / units mentioned in all courses of the III/IV Semester-I & II. The external members were mostly satisfied with the topics proposed for various courses and suggested certain modifications in some courses.
4. Mr. B. Srinivasa Reddy suggested to include 'Indian Electricity Regulations' in the last unit of EPGU course (course code: EEE 315).

5. Prof. B.M. Mohan suggested to include 'Evolutionary Algorithms' topic and accordingly advised to change the title of the Professional Elective-I 'ANN, Fuzzy & Genetic Algorithms' (EEE 321-4).
6. He also suggested to offer '**Electrical Instrumentation**' as one of the courses in PE-I with a brief introduction on Transducers, Sensors, Signal Conditioning, Encoders & Decoders, etc.
7. Mr. K. Anil Kumar explained 'Communication Protocols' being practiced in production industry such as RINL (Vizag Steel Plant) and suggested to introduce as one of the electives or at least to include in the syllabus of Distribution System Automation course (course code: EEE 413-1).
8. Mr. B. Srinivasa Reddy suggested to include Power System Harmonics in the final year course PSP (course code: EEE 416) as it is a vital aspect for an electrical engineer.
9. The BOS members have discussed in general some of the topics to be included in the final year courses to be proposed next year.


Date: 27-03-2017


C/s to: 1. The Principal
2. The Director (Admn.)

HOD of EEE


Dr. G. RAJA RAO

Head of the Department
ELECTRICAL & ELECTRONICS ENGG.
ANITS, Sangivalasa
VISAKHAPATNAM - 4 - 531 162


Convener, IQAC
Anil Neerukonda Institute of
Technology & Sciences
Sangivalasa-531 162
Visakhapatnam Dist.


Principal
Anil Neerukonda Institute of
Technology & Sciences
Sangivalasa- 531 162
Visakhapatnam Dist.



Anil Neerukonda Institute of Technology & Sciences (Autonomous)

(Affiliated to AU, Approved by AICTE & Accredited by NBA & NAAC with 'A' Grade)

Sangivalasa-531 162, Bheemunipatnam Mandal, Visakhapatnam District

Phone: 08933-225083/84/87

Fax: 226395

Website: www.anits.edu.in

email: principal@anits.edu.in

Department of Information Technology

List of new courses introduced in the BoS meeting held on 25-03-2017 for the academic year 2017-18

S.No	Name of the Course	Course Code	Year & Sem
1.	Unix Network Programming	IT313	III /IV, Sem-I
2.	Database Management Systems Lab	IT316	III /IV, Sem-I
3.	Unix Network Programming Lab	IT317	III /IV, Sem-I
4.	Object Oriented Analysis and design with uml	IT323	III /IV, Sem-II
5.	Mobile Computing and Application	IT324	III /IV, Sem-II
6.	Distributed Operating Systems	IT325-1	III /IV, Sem-II
7.	Technology management	IT325-2	III /IV, Sem-II
8.	Software Testing and Automation	IT325-3	III /IV, Sem-II
9.	Client Server Technologies	IT325-4	III /IV, Sem-II
10.	Mobile Computing and Application Development Lab	IT326	III /IV, Sem-II
11.	Web based open source technologies	IT327	III /IV, Sem-II
12.	Computer Aided Software Engineering tools Lab	IT328	III /IV, Sem-II

R. Jeyanthi.

Convener, IQAC

Anil Neerukonda Institute of
Technology & Sciences
Sangivalasa-531 162
Visakhapatnam Dist.

Ch. Srinivas

(HOD, IT)

head of the Department
Department of IT
ANITS, Visakhapatnam

ch. Demudu Naidu
(CH. DEMUDU NAIDU)

feleel
(G.P. Samuel)

M.V. Kishore
(M.V. Kishore)

QW

Principal

Anil Neerukonda Institute of
Technology & Sciences
Sangivalasa-531 162
Visakhapatnam Dist



ANIL NEERUKONDA INSTITUTE OF TECHNOLOGY & SCIENCES

'UGC AUTONOMOUS'

(Permanently Affiliated to Andhra University, AICTE, Accredited by NBA NAAC with 'A' Grade)

Sangivalasa-531162, BheenuipatnamMandal, Visakhapatnam Dt.
Phone 08933-225084, 226395

Minutes of the meeting of the Board of Studies, Department of Mechanical Engineering (UG&PG) held on 25-03-2017

S.No	Name	Designation	Category	Signature
1	PROF. D. RAVI KUMAR	Prof., Dept. of Mech. Engg. IIT-Delhi	Academic Council Nominee	
2	PROF. Ch. RATNAM	Prof. & HOD, Dept. of Mech. Engg. AUCE(A). Vishakapatnam.	University Nominee	
3	PROF. K. RAMJI	Prof., Dept. of Mech. Engg. AUCE(A). Vishakapatnam.	Academic Council Nominee	K. Ramji 25/03/2017
4	Dr. A. SHYAM SUNDAR	Dy. General Manger, R&D, RINL, Vishakapatnam.	Industry Nominee	
5	Dr. T.V. HANUMANTHA RAO	Principal, ANITS & Professor of Mechanical Engineering	Honorary Member	
6	Dr. N. INDRAKIRAN	Prof., Dept. of Mech. Engg. ANITS	Member	
7	R. CHANDRAMOULI	Assoc. Prof., Dept. of Mech. Engg. ANITS	Member	
8	Dr. K. SIVA PRASAD	Assoc. Prof., Dept. of Mech. Engg. ANITS	Member	
9	Dr. RAJESH GHOSH	Assoc. Prof., Dept. of Mech. Engg. ANITS	Member	
10	G. UMAMAHESWARA RAO	Sr. Asst. Prof., Dept. of Mech. Engg. ANITS	Member	
11	M. RAJA ROY	Sr. Asst. Prof., Dept. of Mech. Engg. ANITS	Member	
12	M.S.S. SRINIVASA RAO	Sr. Asst. Prof., Dept. of Mech. Engg. ANITS	Member	
13	K. NARESH KUMAR	Asst. Prof., Dept. of Mech. Engg. ANITS	Member	
14	M. PRASANTH KUMAR	Asst. Prof., Dept. of Mech. Engg. ANITS	Member	
15	M. SAILAJA	Asst. Prof., Dept. of Mech. Engg. ANITS	Member	
16	PROF. B. NAGARAJU	HOD, Dept. of Mech. Engg., ANITS	Chairman- Board of Studies (Mechanical)	



Minutes of Board of studies meeting held on 25-03-2017

Agenda: Review and ratification of Third year syllabus under autonomous scheme.

The members of board of studies met on this day in metrology lab, Mechanical engineering department, ANITS to review the syllabus and suggest suitable modifications wherever necessary for ratification. At the outset, the chairman of BOS Prof. B. Nagaraju. welcomed the gathering and initiated the process. The review of the syllabus was taken up as an immediate agenda and was done semester wise. The following observations were made by the members:

1. It was suggested by Prof. D. Ravi Kumar that the number of periods allotted per each unit should be split into two parts, comprising of lecture & tutorial classes. This would give a clear idea to the concerned faculty with regards to the actual number of lecture and tutorial classes available. This will be also inline with the periods per week mentioned in the course structure.
2. The external board member, Prof. D. Ravi Kumar suggested to include the topic microfluidics at fundamental level, if possible, in **Hydraulic machinery and systems** subject as a subtopic since fluidics is already included in the fifth unit. The internal members would look into this matter taking into account the available number of classes.
3. The external board member Prof. K. Ramji suggested that titles of the subject have to be changed such that they reflect the course content. However, Prof. T.V. Hanumantha Rao, Honorary member, said that though this is a valid suggestion, this change cannot be implemented as the four year course structure has already been approved by the earlier BOS and academic council of college. This modification will certainly be effected when the entire four year course structure comes for next review.
4. With regards to **MFT-II lab** experiments, it was commented by one of the members that the first 6 experiments do not meet any scientific objective and are merely meant for familiarizing with machine tools which do not serve any purpose. It was however felt by other senior board members that the measurement of cutting parameters is included from 7th to 12th experiment in the list. Further, the experiment on grinding of single point cutting tool will also include the study and measurement of tool signature.
5. It was suggested by the members to include a topic on "Coordinate Measuring Machine (CMM)" in unit-V of **MFT-III** syllabus, which was readily accepted by the committee.

6. Prof. K. Ramji advised to elaborate the unit-V of **IEM** syllabus mentioning the type of control charts. He also suggested to include "Supply chain management" in the syllabus.
7. Prof. K. Ramji advised to include two text books for each subject, one of them being of foreign author. He also suggested to include the latest edition of text books and reference books.
8. A rearrangement of topics between units III&V was suggested in **DME-II** syllabus, where in belt drives, chain drives have to be grouped as one unit and brakes, crane hook & wire ropes as another unit. Further, it was also commented to mention the various cross sections of crane hooks.
9. It was felt by all the members that there is a repetition of topics in unit I of the subject **AMOS**. The topic of Bi-axial stresses has to be completely removed and basics of theory of elasticity have to be included in its place. Prof. K. Ramji suggested to include the book titled *Mechanics of solids* by James Gere and Timoshenko (CBS publications) as text book.
10. The members across the board said that the syllabus of **PPC** contains some topics which are already part of **IEM & OR**. Hence the syllabus has to be reviewed and elaborated.
11. The members of the board suggested that a student representative preferably topper may be included as a member of **BOS**. This is customary in Outcome Based Education (OBE).
12. Prof. K. Ramji suggested to include one credit audit course to enhance the social awareness of the student and his technical capability to analyse and solve problems of society.

The chairman thanked the members of the board for their valuable suggestions, which will be given due consideration in modifying the syllabus. The 3rd year Mechanical Engineering syllabus with these minor modifications included was finally ratified.

CC to: 1) Principal
2) Dean of examinations } for the kind information

25.3.17
(HOD, Mechanical)

Dr. B. Naga Raju
M.Tech, M.E., Ph.D
Professor & HOD
Dept. of Mechanical Engineering
ANITS, Sangivalasa,
Visakhapatnam-531 162.



Anil Neerukonda Institute of Technology & Sciences (Autonomous)

(Affiliated to AU, Approved by AICTE & Accredited by NBA & NAAC with 'A' Grade)

Sangivalasa-531 162, Bheemunipatnam Mandal, Visakhapatnam District

Phone: 08933-225083/84/87

Fax: 226395

Website: www.anits.edu.in

email: principal@anits.edu.in

Department of Mechanical Engineering

List of new courses introduced in the Board of Studies (BoS) meeting held on 25-03-2017 for the academic year 2017-18

S. No	Name of the Course	Course Code	Year & Semester
1.	Robotics (Open Elective)	MEC 311-1	III/IV, Sem -1
2.	Computer Aided Design (Open Elective)	MEC 311-2	III/IV, Sem -1
3.	Verbal and Quantitative Aptitude - I	MEC 319	III/IV, Sem -1
4.	Automation in Manufacturing	MEC 326 (B)	III/IV, Sem -2
5.	Advanced Mechanics of Solids	MEC 326 (C)	III/IV, Sem -2
6.	Rapid Prototyping	MEC 326 (E)	III/IV, Sem -2
7.	Verbal and Quantitative Aptitude - II	MEC 329	III/IV, Sem -2

(Handwritten signature)
(M. R. Ramani)

25.3.17
Prof. B. NagaRaju,
Chairman BOS,
Mech. Engg. Dept.

PROFESSOR & HEAD
Department of Mechanical Engineering
ANIL NEERUKONDA INSTITUTE OF TECHNOLOGY & SCIENCES
Sangivalasa-531 162 VISAKHAPATNAM Dist. A.P.

K. Namji
(K. NAMJI)
25/3/2017

(Handwritten signature)
(R. Chandramani)
25/3/17

(Handwritten signature)
25/3/2017

R. Subrah

Convener,
Anil Neerukonda Institute of
Technology & Sciences
Sangivalasa-531 162
Dist.

(Handwritten signature)

(Handwritten signature)
Principal
Anil Neerukonda Institute of
Technology & Sciences
Sangivalasa-531 162
Visakhapatnam