INDEX

Criteria 1.1.1

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

REVISED ACADEMIC CALENDAR (2018-19)

FOR NON-AUTONOMOUS CONSTITUENT& AFFILIATED COLLEGES

B. TECH. II, III & IV YEARS I & II SEMESTERS

I SEM

S. No	EVENT	DATE	Duration
12.	Commencement of Instruction	9th July 2018	--
13.	First Mid Term Examinations	4th to 6th Sept. 2018	--
14.	Submission of First Mid Term Exam Marks to University on or before	15th Sept. 2018	--
15.	Parent-Teacher Meeting	13th Oct. 2018	--
16.	Dussehra recess	15th to 20th Oct. 2018	1 week
17.	Last date of Instruction	10th Nov. 2018	16 weeks
18.	Second Mid Term Examinations	12th to 14th Nov. 2018	--
19.	Preparation Holidays and Practical Examinations	15th to 24th Nov. 2018	1 week
20.	Submission of Second Mid Term Exam Marks to University on or before	24th Nov. 2018	--
21.	End Semester / Supplementary Examinations	26th Nov. to 8th Dec. 2018	2 weeks
22.	Semester Break	10th to 15th Dec. 2018	1 week

II SEM

S. No	EVENT	DATE	Duration
11.	Commencement of Instruction	24th Dec. 2018	--
12.	First Mid Term Examinations	18th to 20th Feb. 2019	--
13.	Submission of First Mid Term Exam Marks to University on or before	27th Feb. 2019	--
14.	Parent-Teacher Meeting	9th March. 2019	--
15.	Last date of Instruction	20th April 2019	16 weeks
16.	Second Mid Term Examinations	22nd to 24th April 2019	--
17.	Preparation Holidays and Practical Examinations	25th April to 4th May 2019	1 week
18.	Submission of Second Mid Term Exam Marks to University on or before	2nd May 2019	--
19.	End Semester / Supplementary Examinations	6th to 18th May 2019	2 weeks
20.	Summer Vacation	20th May to 13th July 2019	8 weeks

17.12.18

DIRECTOR

ACADEMIC & PLANNING, JNTUH

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GURU NANAK INSTITUTE OF TECHNOLOGY

City Office: B2, 2nd Flr, Above Bata, Vikrampuri Colony, Karkhana Road, Secunderabad-50009, Telangana, India.
Ph: +91-40-6632 3294, 6517 6117, Fax: +91-40-2789 2633

Campus: Ibrahimpatnam, R.R. District, Hyderabad-501506, Telangana, India. Ph: (0/95) 8414-20 21 20/21

Work Load for the A.Y 2018-19 (1st ,2nd, 3rd and 4th B. Tech) – II Sem

S.No.	Name of the Faculty & Designation	Subject / Lab Assigned								Lab II Person	Additional Workload/ Responsibilities, if any	Total Work load	Remarks
		1st Year		2nd Year		3rd Year		4th Year					
		Theory	Lab	Theory	Lab	Theory	Lab	Theory	Lab				
1	Dr. Mruthyunjay Das Professor & HOD-EEE			PS-I (II-EEE)							• Head of the Department • Coordinator for Academic and Discipline • IEEE Coordinator • NATS Coordinator • NAAC Coordinator	06	
2	Dr. K. Shanti Professor	BEE (I-ECE-B)	BEE LAB (I-ECE-B)								• Disciplinary Co-Ordinator • Department II Person • IEEE Conference Incharge	11	
3	Mr.Kuldip Singh Assistant Professor	BEE (I-ECE-A)								EM-II LAB (II-EEE)	• Academic Co-Ordinator • Project Coordinator • Control System Lab In-charge • Laboratory Equipment Purchasing I/C	11	
4	Mr. K.Janardhan Rao Associate Professor			EM-II (II-EEE)			PE LAB (III-EEE)				• Department I Person • Academic Co-Ordinator • NSS Co-Ordinator • Machines Lab-II In charge • IEEE Conference Incharge – I • EDC Co-ordinator	12	

5	**Mr.T.Manidhar** Associate Professor		**BEE LAB (I-ECE-A)**	**CS (II-EEE)**							• Department II Person • Project Coordinator • Control System Lab In-charge • Laboratory Equipment purchasing I/C • Disciplinary Co-Ordinator • NAAC Co-Coordinator • Canteen Committee Member	**12**	
6	**Mr.D.K.Chaitanya** Assistant Professor							**RES (IV-EEE)**		**BEE LAB (I-ECE-B)**	• GNIT Online Attendance Main Coordinator • IEEE Students Member Ship Co-ordinator • Industrial Visits Co-ordinator • Placement I/C Person • Dept. Website	**12**	
7	**Mrs.Lizi Joseph** Assistant Professor				**EM-II LAB (II-EEE)**	**SGP (II-EEE)**					• Simulation Lab Incharge • NPTEL& Internet Incharge • Dept.Alumni Co-Ordinator • DAA I/C	**12**	
8	**Ms. M. Saritha** Assistant Professor							**HVDC (IV-EEE)**		**PS LAB (III-EEE)**	• Electrical Measurements Lab In charge • IV Year Mentor • NAAC Dept. Co-ordinator	**12**	
9	**Mr.Ch.Sriram** Assistant Professor					**PSA (II-EEE)**	**PS LAB (III-EEE)**				• Time Table Co-ordinator • Dept. Exam Branch Incharge • NAAC Co-Coordinator • Machines -I Lab Incharge	**12**	
10	**Mr.R.Jagan** Assistant Professor					**ESS (III-CE-A&B)**					• Power Electronics Lab In-Charge • III Year Mentor • Dept. Communique Co-ordinator	**12**	
11	**Mr.A.Ranganadh** Assistant Professor					**PE (II-EEE)**		**ACS (IV-EEE)**		**CS LAB (II-EEE)**	• Library Incharge • Seminars and Workshops Coordinator • II Year Mentor	**12**	

12	**Mr.K.Venkatesh** Assistant Professor				**CS LAB** **(II-EEE)**					**PE LAB** **(III-EEE)**	• ECS Lab Incharge	12	
13	**Ms.L.Vandana** Assistant Professor				**GS LAB** **(II-EEE)**					**BEE LAB** **(I-ECE-A)**		08	

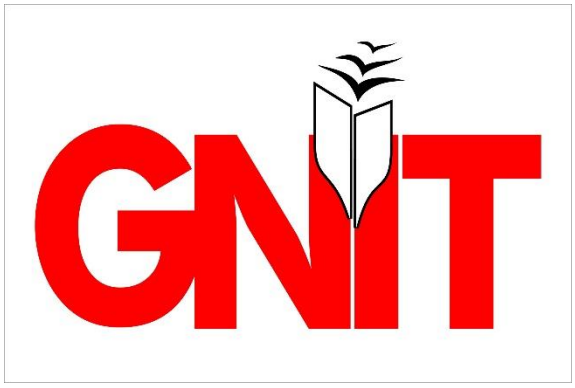
I/C Time Table HOD- EEE Time Table Co-Ordinator Dean-Academics PRINCIPAL

Department of
Electrical and Electronics Engineering

POWER SYSTEMS - II

(EE502PC)

III B Tech – I Semester [Branch: EEE]



Mr. CH. SRIRAM
Assistant Professor

GURU NANAK INSTITUTE OF TECHNOLOGY
Ibrahimpatnam, R.R.District – 501 506 (T.S)

GNIT GURU NANAK INSTITUTE OF TECHNOLOGY
e: B2, 2nd Flr, Above Bata, Vikrampuri Colony, Karkhana Road, Secunderabad-50009, Telangana, India. Ph: +91-40-6632 3294, 6517 6117, Fax: +91-40-2789 2633
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VISION AND MISSION OF THE INSTITUTION

The vision of Institute is

To be a world –class educational and research institution in the service of humanity by promoting high quality Engineering and Management Education.

Institute Mission in pursuance of its Vision is:

M1: Imbibe soft skills and technical skills.

M2: Develop the faculty to reach the international standards.

M3: Maintain high academic standards and teaching quality that promotes the analytical thinking and independent judgment.

M4: Promote research, innovation and Product development by collaboration with reputed foreign universities.

M5: Offer collaborative industry programs in emerging areas and spirit of enterprise.

HOD-EEE

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DEPARTMENT OF ELECTRICAL &ELECTRONICS ENGINEERING

VISION

The Vision of the Electrical&Electronics Engineering department is:

To be recognized as one of the best EEE departments in the region and to develop the department to a level of par excellence that produces Electrical Engineers who can be an asset to the country.

MISSION

The Mission of the Electrical&Electronics Engineering department is:

- To nurture young individual into knowledge, skillful and ethical professionals in their pursuit of knowledge.
- To promote academic growth by offering state of the art programmes for the students and faculties.
- To develop human potential to its fullest extent so that intellectuals capable of being an asset to the country can emerge.
- To nurture the faculty and expose them to world class infrastructure.
- To sustain performance by excellence in teaching, research and innovations.
- To extensive partnership and collaborations with foreign universities for technology up gradation.

QUALITY POLICY

GNIT is committed to provide quality education through dedicated and talented Faculty, World-class infrastructure, Labs and Advanced Research Center to the students.

HOD-EEE

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PROGRAM EDUCATIONAL OBJECTIVES (PEOs)

1. The main objective of Electrical and Electronics Engineering Program is the upliftment of rural students through technical education. These technocrats should be able to apply basic and contemporary science, engineering, experimentation skills to identify Electrical/Electronic problems in the industry and academia and be able to develop practical solutions to them and also, gain employment as an Electrical and Electronics professional.
2. The graduates of Electrical and Electronics Engineering Program should be able to establish themselves as practicing professionals in Electrical Transmission & Distribution, Electrical grid, Generating Plant, or sustain a lifelong career in related areas. Also, the graduates of Electrical & Electronics Engineering Program should be able to use their skills with a strong base to prepare them for higher education.
3. The graduates of Electrical and Electronics Engineering Program should be able to develop an ability to analyze the requirements, understand the technical specifications, design and provide economical &social acceptable engineering solutions and produce efficient product designs of equipments by means of organized training or self learning in areas related to Electrical and Electronics Engineering.
4. The graduates of Electrical and Electronics Engineering Program should have an exposure to emerging cutting edge technologies, adequate training and opportunities to work as team on multidisciplinary projects with effective communication skills, individual, supportive and leadership qualities and also be able to establish an understanding of professionalism, ethics, public policy and aesthetics that allows them to become good professional engineers.

PROGRAM OBJECTIVES (POs)

1. Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
2. Problem analysis: Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
3. Design/development of solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
4. Conduct investigations of complex problems: Use research based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
5. Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.
6. The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
7. Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
8. Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

9. Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
10. Communication: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations and give and receive clear instructions.
11. Project management and finance: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
12. Lifelong learning: Recognize the need for, and have the preparation and ability to engage in independent and lifelong learning in the broadest context of technological change.

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SYLLABUS

III Year B.Tech EEE I-Sem

L	T/P/D	C
4	1/-/-	4

POWER SYSTEMS – II (EE502PC)

Objective: This course is an extension of Power systems-I course. It deals with basic theory of transmission lines modeling and their performance analysis. Also this course gives emphasis on mechanical design of transmission lines, cables and insulators.

UNIT-I TRANSMISSION LINE PARAMETERS

Types of conductors - calculation of resistance for solid conductors - Calculation of inductance for single phase and three phase, single and double circuit lines, concept of GMR & GMD, symmetrical and asymmetrical conductor configuration with and without transposition, Numerical Problems.
Calculation of capacitance for 2 wire and 3 wire systems, effect of ground on capacitance, capacitance calculations for symmetrical and asymmetrical single and three phase, single and double circuit lines, Numerical Problems.

UNIT-II PERFORMANCE OF SHORT, MEDIUM AND LONG TRANSMISSION LINES

Classification of Transmission Lines - Short, medium and long line and their model - representations - Nominal-T, Nominal-Pie and A, B, C, D Constants for symmetrical and Asymmetrical networks, Numerical Problems. Mathematical Solutions to estimate regulation and efficiency of all types of lines - Numerical Problems.
Long Transmission Line-Rigorous Solution, evaluation of A,B,C,D Constants, Interpretation of the Long Line Equations, Incident, Reflected and Refracted Waves-Surge Impedance and SIL of Long Lines, Wave Length and Velocity of Propagation of Waves– Representation of Long lines – Equivalent T and Equivalent π network models (numerical problems)

UNIT – III POWER SYSTEM TRANSIENTS AND FACTORS GOVERNING THE PERFORMANCE OF TRANSMISSION LINES

Types of System Transients - Travelling or Propagation of Surges - Attenuation, Distortion, Reflection and Refraction Coefficients - Termination of lines with different types of conditions - Open Circuited Line, Short Circuited Line, T-Junction, Lumped Reactive Junctions (Numerical Problems). Bewley's Lattice Diagrams (for all the cases mentioned with numerical examples).
Skin and Proximity effects- Description and effect on Resistance of Solid Conductors-Ferranti effect-Charging Current- Effect on Regulation of the Transmission Line. Corona-Description of the phenomenon, factors affecting corona, critical voltages and power loss, Radio Interference.

UNIT-IV OVERHEAD LINE INSULATORS AND SAG, TENSION CALCULATIONS

Insulators, String efficiency and Methods for improvement, Numerical Problems - voltage distribution, calculation of string efficiency, Capacitance grading and Static Shielding.
Sag and Tension Calculations with equal and unequal heights of towers, Effect of Wind and Ice on weight of Conductor, Numerical Problems - Stringing chart and sag template and its applications.

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UNIT-V UNDERGROUND CABLES

Types of Cables, Construction, Types of Insulating materials, Calculations of Insulation resistance and stress in insulation, Numerical Problems. Capacitance of Single and 3-Core belted cables, Numerical Problems. Grading of Cables - Capacitance grading, Numerical Problems, Description of Inter-sheath grading, HV cables.

TEXT/REFERENCE BOOKS:TITLE/AUTHORS/PUBLICATION

TEXT BOOKS	
T	Electrical power systems - by C.L.Wadhwa, New Age International (P) Limited, Publishers
T	Electrical Power Systems, PSR. Murthy, BS Publications
REFERENCE BOOKS	
R	A Text Book on Power System Engineering by M.L.Soni, P.V.Gupta, U.S.Bhatnagar, A.Chakrabarthy, Dhanpat Rai & Co Pvt. Ltd.
R	Power System Engineering by R. K. Rajput, Laxmi Publications, 1st Edition.
R	Electrical Power Generation, Transmission and Distribution, S.N.Singh, PHI.
R	Principles of Power Systems, V.K.Mehta and Rohit Mehta S.Chand Company Pvt.Ltd.
R	Power System Engineering, I.J.Nagarath and D.P.Kothari, Tata McGraw Hill, 2nd Edition.
R	Power System Analysis and Design by B.R.Gupta, S. Chand & Co, 6th Revised Edition, 2010.
R	Power System Analysis , Operation and control, AbijitChakrpabarti.
R	Electric Power Transmission System Engineering: Analysis and Design, by TuranGonen, 2nd Edition, CRC Press.

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COURSE OUTCOMES:

S.NO.	DESCRIPTION At the end of the course, the student will be able to:	PO MAPPING
PS.CO1	Students will be able to understand the different types of conductors and calculation of inductance and capacitance for different systems.	1,2
PS.CO2	Students will be able to able to solve different problems on concept of GMR and GMD.	3,4
PS.CO3	Students will be able to understand the performance of short, medium and long transmission lines.	4,7
PS.CO4	Students will be able to understand the concept of surge impedance, SIL and velocity of propagation of waves, the concepts of reflection and refraction coefficients and travelling or propagation of surges.	4,5,6
PS.CO5	Student will be able to understand the concepts of different types of effects in transmission and the factors affecting the corona,concepts of different types of insulators, string efficiency, sag, tension and effect of wind and ice on weight of conductor.	1,7,11
PS.CO6	Students will be able toknow about the different types of cables and its construction.	7,10,11

PROGRAM OUTCOMES (PO's):

1. Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
2. Problem analysis: Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
3. Design/development of solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
4. Conduct investigations of complex problems: Use research based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
5. Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.

HOD-EEE

6. The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
7. Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
8. Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
9. Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
10. Communication: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations and give and receive clear instructions.
11. Project management and finance: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
12. Lifelong learning: Recognize the need for, and have the preparation and ability to engage in independent and lifelong learning in the broadest context of technological change.

CO-PO MAPPING

CO/PO	1	2	3	4	5	6	7	8	9	10	11	12
PS.CO1	✓	✓										
PS.CO2			✓	✓								
PS.CO3				✓			✓					
PS.CO4				✓	✓	✓						
PS.CO5							✓				✓	
PS.CO6	✓						✓			✓	✓	

HOD-EEE

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LESSON PLAN

Subject	**Power Systems (EE502PC)**
Faculty	**Mr.CH.SRIRAM**

Text Books (to be acquired by the Students)

T 1	Electrical power systems - by C.L.Wadhwa, New Age International (P) Limited, Publishers
T 2	Electrical Power Systems, PSR. Murty, BS Publications

Reference Books

R1	A Text Book on Power System Engineering by M.L.Soni, P.V.Gupta, U.S.Bhatnagar, A.Chakrabarthy, Dhanpat Rai & Co Pvt. Ltd.
R2	Power System Engineering by R. K. Rajput, Laxmi Publications, 1st Edition.
R3	Electrical Power Generation, Transmission and Distribution, S.N.Singh, PHI.
R4	Principles of Power Systems, V.K.Mehta and Rohit Mehta S.Chand Company Pvt.Ltd.

Unit	**Topic**	**Chapters in Book**					**No of Classes**
		T1	**T2**	**R1**	**R2**	**R3**	**R4**	
I	Transmission Line Parameters	1,2	1	2	1	1	3	8
II	Performance of Short, Medium, and Long Transmission Lines	6,7	4	4	2	2		14
III	Power System Transients & Factors governing the performance of transmission lines	5	7	4	6	5	7	12
IV	Overhead Line Insulators & Sag, Tension Calculations	15,16						14
V	Under Ground Cables	3,13	6					7
							Contact classes for syllabus coverage	**55**
							Tutorial Classes	**03**
							Lectures Beyond Syllabus	**02**
							Special Descriptive Tests	**02**
							Remedial/NPTELClasses	**04**
							Contact classes for syllabus coverage	**66**

HOD-EEE

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Micro Lesson Plan

Year-III B.Tech I semester EEE Subject-PS-II (CH.SRIRAM)

Sl. No.	Name of the Topic	No. of Classes required	Cumulative number of periods	Teaching Aid	References
	UNIT – I : TRANSMISSION LINE PARAMETERS				
1.	Introduction to conductors and types of conductors:	01	1	PPT	T1
2.	Calculation of resistance for solid conductor:	01	2	Chalk & Talk	T1
3.	Calculation of inductance for 1-φand 3-φ lines:	01	3	Chalk & Talk	T2
4.	Calculation of single and double ckt lines, concept of GMR&GMD:	01	4	PPT	T1
5.	Symmetrical and asymmetrical networks with and without transposition:	01	5	Chalk & Talk	T2
6.	Calculation of capacitance for 2wire and 3wiresystems &effect of capacitance on Ground:	01	6	NPTEL	
7.	Calculation of capacitance for Symmetrical and asymmetrical(1φ and3φ)	01	7	Chalk & Talk	T1 & T2
8.	Single circuit line	01	8	Chalk & Talk	T1 & T2
9.	Double circuit line	01	9	Chalk & Talk	T1
10.	Numerical Problems	01	10	Tutorial	-
	UNIT – II : PERFORMANCE OF SHORT AND MEDIUM AND LONG LENGTH TRANSMISSION LINES				
10.	Classification of Tr.lines and their model representation: problems	02	12	Chalk & Talk	T2
11.	Nominal-T and nominal-pie representation:	01	13	Chalk & Talk	T2
12.	Sending end condenser and load end condenser methods	01	14	LBS	T2
12.	A,B,C,D constants for Symmetrical and asymmetrical networks:	01	15	PPT	T1
13.	Numerical problems:	01	16	Chalk & Talk	T2
14.	Mathematical solution to estimate regulation and efficiency of all lines:	01	17	Chalk & Talk	T1
15.	Numerical problems:	01	18	PPT	T1
16.	Long Transmission line-rigorous method:	01	19	Chalk & Talk	T1
17.	Evaluation of A,B,C,D constants:	01	20	Chalk & Talk	T2
18.	Interpretation of long lines equation:	01	21	Chalk & Talk	T1
19.	Incident, Reflected, Refracted waves=surge impedance and SIL of long lines:	01	22	PPT	T1
20.	Wave length and velocity of propagation of waves:	01	23	PPT	T1 & T2
21.	Representation of long lines with equivalent T and pie network models:	01	24	PPT	T1 & T2
22.	Numerical problems:	01	25	Chalk & Talk	T1 & T2
23.	Special Descriptive Test	01	26	-	-
	UNIT – III : POWER SYSTEM TRANSIENTS AND VARIOUS FACTORS GOVERNING THE PERFORMANCE OF TRANSMISSION LINES				
23.	Types of transients- travelling or	01	27	Chalk & Talk	T1

	propagation of surges:				
24.	Attenuation, distortion, reflection and refraction coefficients:	01	28	PPT	T2
25.	Termination of lines with different types of conditions-open circuited, short circuited lines:	01	29	PPT	T2
26.	T-junction, lumped reactive junctions:	01	30	PPT	T1
27.	Numerical problems:	01	31	Chalk & Talk	T1
28.	Bewley's lattice diagrams and problems:	01	32	Chalk & Talk	T2
29.	Skin proximity effects-description and effect on resistance of solid conductors:	01	33	PPT	T1
30.	Ferranti effect-charging current:	01	34	Chalk & Talk	T1
31.	Effect on regulation of the Transmission line, shunt compensation:	01	35	PPT	T1
32.	Corona-description of the phenomenon, factors affecting corona:	01	36	PPT	T1
	Damped Vibrators	01	37	LBS	
33.	Critical voltages,	01	38	NPTEL	-
34.	Power loss and radio interference:	02	40	Chalk & Talk	T1
	Numerical problems:	01	41	Tutorial	
	UNIT – IV: OVER HEAD LINE INSULATORS AND SAG, TENSION CALCULATIONS				
35.	Types of insulators:	02	42	PPT	T1
36.	String efficiency and methods for improvements:	02	44	Chalk & Talk	T2
37.	Voltage distribution,calculation of string efficiency:	02	46	Chalk & Talk	T1
38.	Capacitance grading and static shielding	01	47	PPT	T1
39.	Numerical problems:	01	48	PPT	T1
40.	Introduction to sag and tension:	01	49	Chalk & Talk	T1
41.	Calculation with equal heights of towers:	01	50	PPT	T1
42.	Calculation with unequal heights of towers:	02	52	Chalk & Talk	T1 & T2
43.	Effect of wind and ice on weight of conductor:	01	53	PPT	T1 & T2
44.	Numerical problems:	01	54	NPTEL	-
45.	String chart and sag template and its applications:	01	55	Chalk & Talk	T1 & T2
	Special Descriptive Test	01	56	-	-
	UNIT – V: UNDERGROUND CABLES				
46.	Types of cables and construction details:	01	57	Chalk & Talk	T1 & T2
47.	Types of insulating materials	01	58	PPT	T1
48.	Calculation of insulation resistance and stress in insulation:	01	59	PPT	T1 & T2
49.	Capacitance of single and 3 core belted cables:	01	60	NPTEL	-
50.	Grading of cables	01	61	Chalk & Talk	T1
51.	Capacitance grading	01	62	PPT	T1

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52.	Inter- sheath grading	01	63	PPT	T1
51.	HV Cables	02	65	Chalk & Talk	T1
51.	Numerical Problems	01	66	Tutorial	-

HOD-EEE

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING
GURU NANAK INSTITUTE OF TECHNOLOGY – IBRAHIMPATNAM

II EEE

II B.TECH II SEMESTER TIME TABLE (2018 – 2019)

Room No: A-101

With effect from: **17/12/2018**

Period	1	2	3.	4	BREAK 12.45 - 01.30	5	6	7
Day	09:20 -10:15	10:15 –11:05	11:05 –11:55	11:55 -12.45		01:30 – 2:20	02:20 – 3:10	3:10-04:00
MON	EC LAB BATCH A / EM-II LAB BATCH B			CS		PS-I	BEFA	STLD
TUE	CS	PS-I	COUNCELLING	STLD		EM-II	GS LAB	BEFA
WED	STLD	EM-II	PS-I	NPTEL/INTERNET		CS	BEFA	LIBRARY
THU	CS LAB BATCH B / EC LAB BATCH A			EM-II		BEFA	STLD	GS LAB
FRI	EM-II	PS-I	CS	STLD		CS LAB BATCH B / EM-II LAB BATCH A		
SAT	BEFA	CS	PS-I	SPORTS		EM-II	DAA	

TEACHING FACULTY

S. No.	*Sub Code*	*Name of the Subject*	*Sub ABBV*	*Name of the Faculty*
1	EC401ES	Switching Theory & Logic Design	STLD	*Mrs. S. Vasanthi*
2	EE402ES	Power Systems I	PS I	*Dr.Mrutyunjay Das*
3	EE403ES	Electrical Machines II	EM-II	*Mr. K. Janardhan Rao*
4	EE404ES	Control Systems	CS	*Mr. T. Manidhar*
5	SM405MS	Business Economics and Financial Analysis	BEFA	*Mr. Madhusudhan Rao*
6	EE406ES	Control Systems Lab	CS LAB	*Mr. K. Venkatesh / Mr. A. Ranganadh*
7	EE407ES	Electrical Machines Lab II	EM-II LAB	*Mrs. Lizi Joseph / Dr.Mrutyunjay Das*
8	EE408ES	Electronic Circuits Lab	EC LAB	*Mrs. S. Vasanthi / Mrs. Mythili Devi*
9	MC400HS	Gender Sensitization Lab	GS LAB	*Ms. L. Vandhana*
		NPTEL/Internet	*NPTEL/INT*	*Mrs.Lizi Joseph*
		Sports	*SPT*	*Mr. A. Ranganadh*
		Library	*LIB*	*Mr. K. Venkatesh*
		Counselling	*COUN*	*Mr. T. Manidhar / Mrs. Lizi Joseph / Mr. A. Ranganadh*
		Department Association Activities	*DAA*	*Mr.A.Ranganadh / Mr.D.K.Chaithanya*

Class Mentor: Mr. A. Ranganadh

DC Time Table | HOD- EEE | Time Table Co-Ordinator | Dean-Academics | PRINCIPAL

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING
GURU NANAK INSTITUTE OF TECHNOLOGY – IBRAHIMPATNAM

III EEE

III B.TECH II SEMESTER TIME TABLE (2018 – 2019)

Room No: A-103

With effect from: **17/12/2018**

Period	1	2	3.	BREAK 11.55- 12.40	4	5	6	7
Day	09:20 -10:15	10:15 –11:05	11:05 –11:55		12:40 – 01:30	01:30 -02:20	02:20 – 3:10	3:10-04:00
MON	**PE**	**IPR**	**PSA**		**PSA**	**SGP**	**PE**	**SPORTS**
TUE	**AECS LAB BATCH A / PE LAB BATCH B**				**SGP**	**PE**	**COUNSELLING**	**LDICA**
WED	**LDICA**	**PE**	**IPR**		**SGP**	**PS LAB BATCH B / PE LAB BATCH A**		
THU	**SGP**	**PSA**	**LIBRARY**		**PE**	**PSA**	**LDICA**	**IPR**
FRI	**AECS LAB BATCH B /PS LAB BATCH A**				**NPTEL/INTERNET**	**LDICA**	**IPR**	**PSA**
SAT	**IPR**	**PE**	**PSA**		**LDICA**	**SGP**	**DAA**	

TEACHING FACULTY

S. No.	*Sub Code*	*Name of the Subject*	*Sub ABBV*	*Name of the Faculty*
1	EE601PC	Power System Analysis	PSA	*Mr. Ch. Sriram*
2	EE602PC	Power Electronics	PE	*Mr. A. Ranganadh*
3	EE603PC	Switch Gear and Protection	SGP	*Mrs. Lizi Joseph*
4	CE623OE	Intellectual Property Rights	IPR	*Ms. K. Apoorva*
5	EE613PE	Linear and Digital IC Applications	LDICA	*Mrs. Mythili Devi*
6	EE604PC	Power Systems Lab	PS LAB	*Mr. Ch. Sriram / Ms. M. Saritha Reddy*
7	EE605PC	Power Electronics Lab	PE LAB	*Mr. K. Janardhan Rao / Mr. R. Jagan*
8	EN606HS	Advanced English Communications Skills Lab	AECS LAB	*Mrs. A. Swapna*
		NPTEL/Internet	*NPTEL/INT*	*Mrs.Lizi Joseph*
		Sports	*SPT*	*Mr.Ch.Sriram*
		Library	*LIB*	*Ms. L. Vandhana*
		Counselling	*COUN*	*Mr. R. Jagan / Mr. Ch. Sriram / Mr. K. Venkatesh*
		Department Association Activities	*DAA*	*Mr. R. Jagan / Mr. K. Venkatesh*

Class Mentor: Mr. R. Jagan

DC Time Table | HOD- EEE | Time Table Co-Ordinator | Dean-Academics | PRINCIPAL

GURUNANAK INSTITUTE OF TECHNOLOGY

DEPARTMENT OF ELECTRICAL ENGINEERING

ACTION PLAN for I Semester of Academic Year 2017 -2018

Date: 04/07/2017

JNTUH Academic Calendar 2017-18 I Semester		
S.No.	**Event**	**Dates**
1	Commencement of Instruction	12th July 2017
2	I Spell of Instruction	12th July 2017 to 5th September 2017
3	First Mid Examinations	6th September 2017 to 8th September 2017
4	II Spell of Instruction	9th September 2017 to 7th November 2017
5	Second Mid Examinations	8th November 2017 to 10th November 2017
6	Last date of Instruction	10th November 2017
7	Start of End Semester & Supply Examinations	20th November 2017

Academic Calendar Week No.	Date	Work / Event Planned	Assigned to (if Applicable)	Resources required / By Date: Remarks
Week 0				
0	03-07-2017 to 08-07-2017	Department staff meeting-01 (regarding the class commencement)	H.O.D	
		Information passing to students and parents for regularity in attending classes right from start	Mentors	
		Lab Manual Verification	H.O.D & V.Swetha Reddy	Completed
		Subject Course File Verification	H.O.D & T.Manidhar	Completed

Week 1				
1	10-07-2017 to 15-07-2017	Class work commencement	H.O.D	
		Academic Meeting-01	K.Janardhan Rao Academic Co-ord.	
		Discipline Meeting – 01	T.Manidhar Disciplinary Co-ord.	
		Information passing to parents for absenties of students	Mentors	
Week 2				
2	17-07-2017 to 22-07-2017	CR's meeting-01	HOD	
		Counseling of irregular students	Class Mentors & Counselors	
		Mini Project Review 01 (only for IV Years)	Project Co-ord.	
Week 3				
3	24-07-2017 to 29-07-2017	Dept Staff Meeting -2 (to set planning activities)	H.O.D	
		Verbal feedback – 01	H.O.D	
		Submission of Assignments for Unit-I(2^{nd} , 3^{rd} & 4^{th} years)	Concerned sub Faculty	Report should be submitted to HOD on 31/07/2017
		Industrial Visit to Malkaram 220/132/22 kV Substation for II Years	D.K.Chaitanya & R.Jagan	
Week 4				
4	31-07-2017 to 05-08-2017	Evaluation & Submission of Lab Records by all students	Lab In-charges	
		Class Mentors and C R's meeting -02 regarding discipline	T.Manidhar Discipline Co-ordinator	
		Special Descriptive Test(SDT) –I	Concerned sub Faculty	During Class Hours
		Organizing Work Shop on LAB VIEW	D.K.Chaithanya & Lizi Joseph	

		Industrial visit to Kothagudem Thermal Power Station(KTPS) for III Years	D.K.Chaitanya & Ch.Sriram	
		Monthly report submission to Principal-1	H.O.D	
		Submission of Attendance Report & Syllabus Coverage Report	Mentors & HOD	1st Fortnight
Week 5				
5	07-08-2017 to 12-08-2017	Written feedback – 01	H.O.D	
		Mini project Review-02(only for IV Years)	Project Co-ord.	
		Conducting Parents meeting for poor attendance & performance of students	Class Mentors	
		1st Retest of Special Descriptive Test –I	Concerned sub Faculty	4.00 PM to 4.45 PM
Week 6				
6	14-08-2017 to 19-08-2017	Department Staff meeting-03	H.O.D	
		IEEE Activities	HOD & D.K.Chaitanya	
		2nd Retest of Special Descriptive Test –I	Concerned sub Faculty	4.00 PM to 4.45 PM
		Expert Lecture on Network Theory by Dr. Muneendhar for II EEE Students	R.Jagan & Monika Singh	Dr.Muneendhar, Professor, Kakatiya University.
		Verification of Final Mini Project Report(IV Years)	Project Co-ord. & Project Guides	
		Submission of Attendance Report & Syllabus Coverage Report	Mentors	2nd Fortnight
Week 7				
7	21-08-2017 to 26-08-2017	Industrial visit to Power Grid Corporation of India Limited(PGCIL) for IV year students	D.K.Chaitanya & V.Swetha Reddy	
		Submission of Assignments for Unit-II(2nd,3rd,4th years)	Concerned sub Faculty	Report should be submitted to HOD on 28/08/2017

		Submission of SDT marks with retest marks, improvements	Mentors	
		Expert Lecture on Power Systems-2 by Dr.G.S.Raju for III EEE students	Ch.Sriram & Monika Singh	Dr.G.S.Raju, Former Director & Dean, IIT-Banaras Hindu University, Varanasi.
Week 8				
8	28-08-2017 to 02-09-2017	IEEE Activities	HOD & D.K.Chaitanya	
		Expert Lecture on High Voltage Engineering by Professor Md.Habeeb Khan	A.Ranganadh & Monika Singh	Prof.Md.Habeeb Khan, HOD,Muffkumjah College of Engineering & Tech..
		Lab Internal Exam-01	Lab Incharges	
		A National work shop on Energy Estimation and Costing by Dr.Muthukumar incollaboration with NSIC	T.Manidhar & Monika Singh	
		Submission of Final Mini Project Report (IV Years)	Project Co-ord. & Project Guides	
		Submission of Attendance Report & Syllabus Coverage Report	Mentors	3rd Fortnight
		Monthly report submission to Principal-2	H.O.D	
Week 9				
9	04-09-2017 to 09-09-2017	Departmental Staff meeting-04	HOD	
		I Mid Exams for all Years (06/09/2017 to 08/09/2017)	Exam Branch	
Week 10				
10	11-09-2017 to 16-09-2017	I Mid Marks Submission	Concerned Faculty	
		Weak Students identification based on Attendance, SDT Marks & I Mid marks	Class Mentors	

		Guest lecture on Electrical Machines by Dr.T.Rama Subba Reddy for all years (2^{nd} ,3^{rd} .4^{th} years)	K.Janardhan Rao & Monika Singh	Dr.T.Rama Subba Reddy, Prof & HOD, Vignan Institute of Technology
		Targetted Result-Submission by all faculty	Mentors	
		Submission of Attendance Report & Syllabus Coverage Report	Mentors	4^{th} Fortnight
Week 11				
11	18-09-2017 to 23-09-2017	Verbal Feedback-02	H. O. D	
		Departmental Staff meeting-05 & Counseling the faculty	H. O. D	
		Lab Records submission	Lab In-charges	
		Remedial Classes for weak students(VIII hour)	Concerned Faculty	Till the end of semester 4.00 PM to 4.45 PM
Week 12				
12	25-09-2017 to 30-09-2017	**Dussehra Holidays**	-	-
Week 13				
13	02-10-2017 to 07-10-2017	Special Descriptive Test-02	Class Mentors	During Class Hours
		Submission of Assignments for Unit-III(2^{nd},3^{rd},4^{th} years)	Concerned Faculty	Report should be submitted to HOD on 09/10/2017
		Submission of Attendance Report & Syllabus Coverage Report	Mentors	5^{th} Fortnight
		Monthly report submission to Principal-3	H.O.D	

Week 14				
14	09-10-2017 to 14-10-2017	Departmental Staff meeting-06	H. O. D	
		Submission of Attendance Report & Syllabus Coverage Report-3	Mentors	
		Monthly report submission to Principal-3	H.O.D	
		Conducting Parents meeting for poor attendance & performance of students	Class Mentors	
		1st Retest of Special Descriptive Test-02	Concerned sub Faculty	
Week 15				
15	16-10-2017 to 21-10-2017	Submission of Assignments for Unit-IV (2nd ,3rd ,4th years)	Concerned sub Faculty	Report should be submitted to HOD on 23/10/2017
		2nd Retest of Special Descriptive Test-02	Concerned sub Faculty	
		Submission of Attendance Report & Syllabus Coverage Report	Mentors	6th Fortnight
Week 16				
16	23-10-2017 to 28-10-2017	Marks Submission – Special Descriptive Test II	Class Mentors	
		Comparison of each & every student about his performance	Class mentors	
		Guest Lecture on Electronics Instrumentation by Mr.Nilang Trivedi for all year students (2nd ,3rd ,4th years)	D.K.Chaitanya & Monika Singh	Mr.Nilang Trivedi, Scientist, DRDO, Min. of Defence, India
Week 17				
17	30-10-2017 to 04-11-2017	Final Lab Records submission for all years	Lab-in-Charges	
		Departmental Staff meeting-07	H. O. D	
		Lab Internals-II	Lab Incharges	

		Submission of Attendance Report & Syllabus Coverage Report	Mentors	7th Fortnight
		Monthly report submission to Principal-4	H.O.D	
Week 18				
18	06-11-2017 to 11-11-2017	Submission of Assignments for Unit-V (2nd ,3rd ,4th years)	Concerned sub Faculty	Report should be submitted to HOD on 13/11/2017
		II-Mid Exams (08/11/2017 to 10/11/2017)	Exam Branch	
Week 19				
19	13-11-2017 to 18-11-2017	Departmental Staff meeting-07	HOD	
		Final Attendance Report of the Semester	Mentors	
		Final Syllabus Coverage Report of the Semester	Mentors	
Week 20				
20	20-11-2017 to 25-11-2017	Final Submission of Lab Records	Class Mentors	
		Lab Externals	Lab Incharges	
		External Exams for all years	Exam Branch	

Summary Report

S.No.	Event Planned	Week	Count
1	No. of Guest Lectures	Week 10 and 16	2
2	No. of Expert Lectures	Week 6,7 and 8	3
3	No. of Workshops	Week 4 and 8	2
4	No. of Industrial Visits	Week 3,4 and 7	3

Prepared by
Mr.Ch.Sriram

Academic Co-ordinator
Mr.K.Janardhan Rao

HOD-EEE
Dr.R.Vinothkanna

PRINCIPAL
Dr.S.Sreenatha Reddy

GURU NANAK INSTITUTE OF TECHNOLOGY

DEPARTMENT OF MECHANICAL ENGINEERING

REPORT ON SYLLABUS COVERAGE

DEPARTMENT: MECHANICAL

Class : II Year II SEM A-SECTION

Period from : 24-12-18 to 31-1-19

Academic Year : 2018-19

Sl.no	Subject Title	Subject Code	Faculty Name	Number of Lectures/ Lab Sessions scheduled	Number of Lectures/ Lab Sessions conducted	Reasons for the shortfall, if any	Syllabus covered	Signature of the Faculty
1	Dynamics of Machinary	ME403ES	Mr.N.Nagendra Kumar	21	21	—	1½ unit	N.K
2	Fluid Mechanics and Hydraulic Machines	ME401ES	Mr.N.Yadagiri	22	22	—	1 unit	M
3	Machine Drawing	ME404ES	Mr.A.Yogesh, Mr.MD.Hameed	25	25	—	1½ units	
4	Manufacturing Process	ME405ES	Mr.I.S.N.V.R.Prashanth	18	18	—	1.5 units	
5	Buisuness Economics and Financial Analysis	SM405MS	Ms.G.Prasanna	22	21	—	1½ units	
6	KOM&DOM LAB	ME406ES	Mr.N.Nagendra Kumar 1, Mr.B.Praveen Kumar 2	4	4	—	3 exps	N.K
7	MP LAB	ME407ES	Dr.B.Vijaya Kumar1, Mr.M.Srihari 2	4	4	—	4 exps	
8	FMHM LAB	ME408ES	Mr.N.Yadagiri 1, Mr. B. Naresh 2	4	4	—	3 exps.	M
9	ENVIRONMENTAL SCIENCE	MC400ES	Mr.N.Naresh	11	11	—	1.5 units	

Remarks of HOD: Syllabus is lagging in FMHM concerned faculty is asked to cover the units by taking extra classes

Signature

GURU NANAK INSTITUTE OF TECHNOLOGY
DEPARTMENT OF MECHANICAL ENGINEERING
REPORT ON SYLLABUS COVERAGE

DEPARTMENT: MECHANICAL

Class : II Year II SEM B-SECTION

Period from : 24-12-18 **to** 30-01-19

Academic Year : 2018-19

Sl.no	Subject Title	Subject Code	Faculty Name	Number of Lectures/ Lab Sessions scheduled	Number of Lectures/ Lab Sessions conducted	Reasons for the shortfall, if any	Syllabus covered	Signature of the Faculty
1	Dynamics of Machinary	ME403ES	Mr.MD.Hameed	27	27		1Unit	
2	Fluid Mechanics and Hydraulic Machines	ME401ES	Mr.N.Yadagiri	23	23	—	1UNIT	
3	Machine Drawing	ME404ES	Mr.A.Yogesh, Mr.Vinay Kumar	27	27	—	1½ unit completed	
4	Manufacturing Process	ME405ES	Dr.B.Vijaya Kumar	23	15	Conferenceweek	1 Unit	
5	Buisuness Economics and Financial Analysis	SM405MS	Ms.G.Prasanna	18	22	-	1½unit completed	
6	KOM&DOM LAB	ME406ES	Mr.A.Yogesh 1, Mr.N.Nagendra Kumar 2	12	12	—	3Experiments completed	
7	MP LAB	ME407ES	Dr.B.Vijaya Kumar1, Mrs.P.Varalakshmi 2	12	12	—	2 exp completed	
8	FMHM LAB	ME408ES	Mr.A.Vijay Kumar 1, Ms.B.Sushma 2	12	12	—	3 exp completed	
9	ENVIRONMENTAL SCIENCE	MC400ES	Dr.P.Sudharani	14	14	—	1 unit Comp	

Remarks of HOD: FmHm, MP is lagging, Allocated faculty to cover 2½ units before 1 Mid Exam.

Signature

GNIT
GURU NANAK INSTITUTE OF TECHNOLOGY
City Office: B2, 2nd Flr, Above Bata, Vikrampuri Colony, Karkhana Road, Secunderabad-50009, Telangana, India.
Ph: +91-40-6632 3294, 6517 6117, Fax: +91-40-2789 2633
w.gnithyd.ac.in Campus: Ibrahimpatnam, R.R. District, Hyderabad-501506, Telangana, India. Ph: (0/95) 8414-20 21 20/21

Department of EEE

Course FILE STATUS

NAME OF THE FACULTY:	Remarks	Signature
SUBJECT:		
YEAR/SECTION		
Course Name		
Prepared by		
Dept		
Course file-Is it box file?		
Institute Vision/Mission		
Dept V/M/PEO/PO/PSO		
University syllabus		
Course Outcomes		
CO-PO Mapping with reason		
Gaps identified during mapping		
Topics beyond syllabus/Additional Experiments		
Student customization based on previous year/semester result		
Course outcome Assessment sheet		
Lecture notes		
OHP sheets/Presentations/CD		
Web references		
Charts		
Assignments		
Tutorial sheets		
Unit wise Question Bank		
Internal Q paper		
Key for Internal Q Paper		
University Q Paper		
Remedial Classes		
Result Analysis		
Learning Outcome Assessment		
Student feedback Analysis		
Lesson Plan		
Time Table		
Teacher log Updated?		
Internal, Assignment marks in Register?		
Sample Answer sheets		
Sample Assignment sheets		
Sample Tutorial sheets		
Audited by IQAC?		

ourse files Incharge

HOD-EEE