



M & V Patel Department of Electrical Engineering

Analysis Report of Feedback Received from different Stack Holders

For the AY 2015-16

Students:

All of the students gave the positive feedback about the curriculum. Most of the students had tick mark on very good, Excellent or outstanding column. Very few student tick mark for either average or good column. Most of students like the inclusion of Project based courses, more practical knowledge, and communication subjects in curriculum. They are satisfied and happy with the educational goals included in curriculum.

Some students have given feedback on inclusion of project work, only industrial training based final semester in the existing curriculum. Major number of students wanted the increase in placement activity.

Alumni:

Alumni gave the positive feedback about the curriculum. Most of the students are happy with curriculum. One alumni insist about more industry based courses.

Experts from Academia:

Expert from other institutes and own institute tick in great column in feedback form. All aspects to develop technical skill are taken care. Very well developed curriculum but still there is scope of improvement on more practical based study.

Experts from Industry:

Expert from industry are satisfied with the curriculum.

Certified By:

P. Dhatt
HEAD OF DEPARTMENT
Dept. of Electrical Engg.
Jr. Subhal S. Patel Institute of Technology
& Co. Changa-388421., Ta. Petlad,
Dist. : Anand. (Gujarat)

D
REGISTRAR
CHAROTAR UNIVERSITY OF SCIENCE AND TECHNOLOGY
CHARUSAT CAMPUS, CHANGA



M & V Patel Department of Electrical Engineering

Action taken report on the feedbacks received from different Stake Holders

For the AY 2015-16

The summary of the feedback and suggestions received from the stakeholder and corresponding action taken for AY 2015-2016 is as below.

Sr. No.	Suggestion Received	Action Taken	Annexure Page no.
1	Include Project work	"Minor Project I" and "Minor Project II" introduced from AY 2018-19	28,29,36
2	Final semester should only based on training	Form AY year 2019-20, final semester courses were reduced. Also, it is planned to offer only one course "Industrial Project" in final semester from AY 2022-23.	3,11
3	Include Industrial Training.	"Summer Internship I" introduced in Third Year from AY 2018-19, and "Summer Internship II" introduced in Fourth Year from AY 2019-20	28,36,53,62
4	Final semester should only based on training	Form AY year 2019-20, final semester courses were reduced. Also, it is planned to offer only one course "Industrial Project" in final semester from AY 2022-23.	3,11
5	Internship should be included in final year.	"Summer Internship I" introduced in Third Year from AY 2018-19, and "Summer Internship II" introduced in Fourth Year from AY 2019-20	28,36,53,62

Certified By:

P. Bhatt
HEAD OF DEPARTMENT
Dept. of Electrical Engg.
Chandubhai S. Patel Institute of Technology,
At & Po Changa-388421, Tal. Petlad,
Dist. Anand (Gujarat)

A
REGISTRAR
CHAROTAR UNIVERSITY OF SCIENCE AND TECHNOLOGY
CHARUSAT CAMPUS, CHANGA

Minutes –12th Board of Studies Meeting
M&V Patel Department of Electrical Engineering
Faculty of Technology & Engineering, CHARUSAT

Date : September 3, 2016, Saturday

Time : 10:00 am onwards

Venue: Room No: 102, HOD (EE), CSPIT, CHARUSAT Campus

The 12th meeting of Board of Studies, M & V Patel Department of Electrical Engineering, Faculty of Technology and Engineering (FTE), Charotar University of Science and Technology (CHARUSAT) was held on 3/9/2016 at 10:00 a.m. at M & V Patel Department of Electrical Engineering, CSPIT, CHARUSAT Campus. Following members were present:

1	Dr. Praghnesh Bhatt	Chairman;	Professor & Head, Department of Electrical Engineering,	
2	Dr. Kartik Pandya	Member;	Professor, Department of Electrical Engineering,	
3	Dr. Bhinal Mehta	Member;	Assistant Professor Department of Electrical Engineering,	
4	Mr. Nilay Patel	Member;	Assistant Professor Department of Electrical Engineering,	
5	Ms. Pankita Mehta	Member;	Assistant Professor Department of Electrical Engineering,	
6	Mr. Jivanadhar Joshi	Member;	Assistant Professor, Department of Electrical Engineering,	
7	Dr. Sanjay R. Joshi	External Member;	Principal Government Engineering College, Valsad	
8	Dr. Bhavik Suthar	External Member;	Associate Professor Government Engineering College, Modasa	
9	Dr. Santosh Vora	External Member;	Professor Department of Electrical Engineering Nirma University, Ahmedabad	
10	Dr. Vijay Shah	External Member;	R&D Specialist, BU-PPMV, Vadodara	
11	Mr. Kirat Pandya	External Member;	AGM, Schneider Electricals Ltd, Vadodara	
12	Mr. Sanjay Mahagaokar	External Member;	Dy General Manager Engineering and Technology Rotomag Power Drives Ltd	

Certified By:

[Minutes of 12th BoS Meeting 03/09/2016] 1


REGISTRAR
 CHAROTAR UNIVERSITY OF SCIENCE AND TECHNOLOGY
 CHARUSAT CAMPUS, CHANGA

Initiation:

Dr. Praghesh Bhatt welcomed all the members of Board of Studies.

Agenda Proceedings & Resolutions:-

Item 12.01:	To approve teaching and examination scheme of B. Tech program under Choice Based Credit System (CBCS) for 3 rd to 8 th Semester effective from ACY 2017-2018.
	<p><u>Proceedings 12.01:</u></p> <p>The teaching and examination scheme of B. Tech program under Choice Based Credit System (CBCS) for 3rd to 8th Semester effective from ACY 2017-2018 has been discussed in details.</p> <p>Suggestions Received:</p> <ul style="list-style-type: none"> ▪ The proposed structure of CBCS has been discussed in detail along with core and different elective courses. ▪ The courses are appropriately distributed among the major areas of electrical engineering such as power system, electrical machines, power electronics, microprocessors & microcontrollers along with required supplementary courses. ▪ It is appreciated to keep the more weightage to practical hours. ▪ The students must know the fundamental of the subjects and they must have knowledge about the various electrical products available in the market along with its specifications and prices. ▪ The students should have the opportunities to develop hardware based projects to learn the theoretical concepts more effectively. The preparation of the complete project report enhances their writing, presentation and communication skills. ▪ Power generation by renewable energy sources and its modeling concepts needs to be imparted as they are the present day demand. ▪ The operating paradigm of the distribution system has changed drastically and its concepts can be covered by offering the courses on smart grid, micro grid and distributed generation. ▪ Early exposure to practical/industrial training makes the students familiar with industrial developments and practices. The projects/training ▪ The department has purchased good number of licensed software. The knowledge of these licensed software will add values for industrial jobs as well as for the further studies.

Certified By:

[Minutes of 12th BoS Meeting 03/09/2016] 2


 REGISTRAR
 CHAROTAR UNIVERSITY OF SCIENCE AND TECHNOLOGY
 CHARUSAT CAMPUS, CHANGA

	<p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <ul style="list-style-type: none"> ▪ Handbooks, catalogs and IS & IEC standards, product manuals should be included for the course on Commissioning and Testing of Electrical Equipments. ▪ The curriculum structure of other universities such as GTU, Nirma, Amity, IITs, NIT, NUS, University of Illinois are also referred and discussed. The goal of designing curriculum structure is to prepare the students for GATE, other competitive exams and for further studies. ▪ The university core and elective courses are also reviewed and they are found suitable to inculcate values & ethics, to enhance critical thinking & logic, to improve communication skills and to increase basic analytical ability among the students. ▪ The vision and mission of the department, POs and PEOs are reviewed and redefined. For 2nd year courses effective from ACY 2017-2018, the individual course objectives and their outcomes are defined. <p>Resolution 12.01:</p> <ul style="list-style-type: none"> • Based on the extensive discussion and suggestion received from the BoS members, the teaching and examination scheme of B. Tech Program under CBCS is finalized and attached in Annexure 12.I.
<p>Item 12.02:</p>	<p>To review and approve the detailed syllabus of 1st and 2nd year B. Tech program under CBCS which will be effective from ACY 2017-2018.</p> <p>Proceedings 12.02:</p> <p>The detailed syllabus of the courses for B Tech – 2nd Year (3rd and 4th Semesters) effective from 2017-2018 are reviewed.</p> <p>Suggestions Received:</p> <ul style="list-style-type: none"> ▪ The depths of contents of different courses are discussed at length. ▪ The contact hours required to cover the proposed topics are verified and required changes are suggested. ▪ For EE281 (Electrical Engineering Materials) (University Elective I): The concepts of different conducting, insulating, magnetics and semiconductor material will be given. This will help students in later stage at designing of machines. ▪ For EE282 (Electrical Power Utilization and Traction) (University Elective II): Electric heating, welding, Fundamentals of illumination and traction can be covered in this course. ▪ For EE241: Analog and Digital Electronics, course contents are discussed and finalized.

Certified By:

[Minutes of 12th BoS Meeting 03/09/2016] 3


 REGISTRAR
 CHAROTAR UNIVERSITY OF SCIENCE AND TECHNOLOGY
 CHARUSAT CAMPUS, CHANGA

	<p>For this course, more useful and fundamental book “Design with Operational Amplifier and analog Integrated Circuits, Sergio Franco, McGraw Hill” is suggested. In addition to existing test kits in analog and digital electronics lab, “Analog Discovery Kit” is suggested.</p> <ul style="list-style-type: none"> ▪ For EE242: Circuit Theory, the contents are found suitable. Following new books for circuit theory are proposed. <ol style="list-style-type: none"> 1. Electric Circuit Analysis, K.S. Sureshkumar, Pearson Education, India 2. Basic Circuit Theory, Charles A. Desoer and Ernest S. Kuh, McGraw Hill ▪ For EE243: Electrical Measurements and Industrial Instrumentation, the conventional topics on measurement such as resistance measurement, different AC bridges, shunts and multipliers should be incorporated. The digital methods for power measurement should be discussed. ▪ For EE244: Electrical Power Generation and its Economics, the contents are found suitable. ▪ For EE245: Control System, state space methods should be limited as compared to other methods. The methods for designing controller structure and compensator designs are suggested to include. ▪ For EE246 Microprocessor & Microcontrollers, the syllabus is well designed. ▪ For EE247: Transformers and Induction Machines, the combination of two AC machines will work well; the portion of the commissioning of transformer and motors need not to be discussed at 4th semester. ▪ Revised course of MA241 Engineering Mathematics III, which is passed in respective BoS will be introduced in third semester of AY 2017-18 <p>Resolution 12.02:</p> <ul style="list-style-type: none"> ▪ The suggestions received from BoS members are incorporated and detailed syllabi for B Tech – 2nd Year (3rd and 4th Semesters) effective from 2017-2018 is approved and is attached in Annexure – 12.II.
Item 12.03	To approve the teaching and examination scheme of M. Tech program under Choice Based Credit System (CBCS) effective from ACY: 2016-2017
	<p>Proceedings 12.03:</p> <p>The teaching and examination scheme of M. Tech program under Choice Based Credit System (CBCS) effective from ACY: 2016-2017 is reviewed.</p> <p>Suggestions Received:</p> <ul style="list-style-type: none"> ▪ The different core and elective courses offered at university level are reviewed. The courses under program core, program electives and cluster electives are also reviewed. <p>Resolution 12.03:</p>

Certified By:

[Minutes of 12th BoS Meeting 03/09/2016] 4


 REGISTRAR
 CHAROTAR UNIVERSITY OF SCIENCE AND TECHNOLOGY
 CHARUSAT CAMPUS, CHANGA

	<p>University elective courses are introduced.</p> <p>The teaching and examination scheme of M. Tech program under Choice Based Credit System (CBCS) effective from ACY: 2016-2017 is approved and attached in Annexure – 12.III.</p>
Item 12.04	<p>To review and approve the detailed syllabus of 1st and 2nd year M. Tech program under CBCS effective from ACY 2016-2017.</p> <p>Proceedings 10.04:</p> <p>The detailed syllabus of 1st and 2nd year M. Tech program under CBCS effective from ACY 2016-2017 is reviewed.</p> <p>Suggestions Received:</p> <p>EE781 Optimization Techniques and EE782</p> <p>The contents of all the course of 1st and 2nd semester of M. Tech are discussed at length. The courses under program electives and cluster electives are good and syllabus contents are well designed.</p> <p>Very good university electives are constructed by various BoS and listed in annexure IV.</p> <p>Resolution 12.04:</p> <p>The detailed syllabus of 1st and 2nd year M. Tech program under CBCS effective from ACY 2016-2017 is approved and attached in Annexure – 12.IV.</p>
Item 12.05	<p>To review and approve (a) T&E scheme and the detailed syllabus of 3rd year B. Tech program for a batch of 2015 entry and (b) T&E scheme and detailed syllabus of 4th year B. Tech program for a batch of 2014 entry</p> <p>Resolution 10.05:</p> <p>(a) T&E scheme and the detailed syllabus of 3rd year B. Tech program for a batch of 2015 entry and (b) T&E scheme and detailed syllabus of 4th year B. Tech program for a batch of 2014 entry are approved and attached in Annexure 12.V and Annexure 12.VI.</p>
Item 12.06	<p>Discussion on effective implementation of Outcome Based Education (OBE) and ICT based Teaching-Learning</p> <p>Suggestions Received:</p> <ul style="list-style-type: none"> ▪ All faculty members must aware about each criteria defined by NBA. ▪ The proper understanding of mapping of POs, PEOs, COs and their assessment tools is required. ▪ Faculty contribution should be increased for publication, funded projects and consultancy. ▪ The usage of open course ware from NPTEL, MIT and BISAC must be increased.
Item 12.07	<p>Introducing the new PG program in Electrical Engineering</p> <p>Suggestions Received:</p> <p>Following PG programs in Electrical Engineering are proposed.</p> <ol style="list-style-type: none"> (1) Power Electronics and Drives (2) Renewable Energy (3) Automation and Control
Item 12.08	<p>Suggestion regarding new UG programs in new Institute of Technology of Faculty of</p>

Certified By:

[Minutes of 12th BoS Meeting 03/09/2016] 5


REGISTRAR
CHAROTAR UNIVERSITY OF SCIENCE AND TECHNOLOGY
CHARUSAT CAMPUS, CHANGA

	Technology and Engineering, CHARUSAT
	Suggestions Received: Following new UG programs in can be proposed along with CE, IT, ICT. (1) Mechanical Engineering (2) Instrumentation and Control (3) Bio Informatics
Item 12.09	Discussion regarding recent approval from NBA and scope for the improvement
	All invited BoS members congratulated the University, Institute and Department for getting "A" graded from NAAC and KCG as well as for getting NBA for three departments
Item 12.10	Approval of Examiners' Panel
	The examiners panels for B. Tech and M. Tech have been reviewed and approved. The approved examiner panel is attached in Annexure 12.VII.

Additional Items

Sr. No	Agenda	Discussion/Suggestions
1	Review of Exam Question Papers	Question papers of internal and university examination have been reviewed. The briefings about the continuous evaluation, freedom for pedagogy selection for faculty and execution of the practical sessions have been given to external BoS members. The quality of question papers are found satisfactory, but it is suggested to increase the weightage on the questions that can increase the analytical and logical thinking ability of students.
2	Review of Result Analysis	The records of result analysis of both internal and university exam are maintained. The results of both the exams are generally discussed and analyzed in the department meeting as soon as the exam gets over and the necessary actions are decided. The YoY comparisons of the results are also discussed and the figures are acceptable. The efforts should be given to again improve the results at all levels. The conduction of the remedial coaching for weaker students has been appreciated by the members.
3	Review of Placement Records	The campus placement of the student needs to be increased. More efforts are required to invite the companies for placement. The aptitude sessions organized for the students are appreciated. It is advised to keep extra technical session to prepare the students for technical skills.
4	Review of B. Tech and M. Tech Projects works	The project titles for B. Tech and M. Tech are reviewed and found satisfactory. It is suggested to give more emphasis on hardware based projects at B. Tech level. For M. Tech, the extensive use of licenses software may help the students to solve/reproduce the IEEE journal papers. Paper presentation for M. Tech students should be made compulsory.
5	Review of Feedback from Students, Identification of slow learners, Counseling	Review pattern for the students feedback and actions after the feedback have been explained. It is an useful component to improve the performance of teacher and T-L practices. The student counseling activities are very appreciated by all the members.

Certified By:

[Minutes of 12th BoS Meeting 03/09/2016] 6


REGISTRAR
CHAROTAR UNIVERSITY OF SCIENCE AND TECHNOLOGY
CHARUSAT CAMPUS, CHANGA

activities

Dr. Praghmesh Bhatt
Chairman
Board of Studies (EE)

P. Bhatt
HEAD OF DEPARTMENT
Dept. of Electrical Engg.
Chandubhai S. Patel Institute of Technology
At. & Po. Changa-388421., Ta. Petlad,
Dist. : Anand. (Gujarat)

Certified By:

D
REGISTRAR
CHAROTAR UNIVERSITY OF SCIENCE AND TECHNOLOGY
CHARUSAT CAMPUS, CHANGA

HS122A/HS131A	Values and Ethics/Philosophy	2	2	2	30	70				100
MA241	Engineering Mathematics III	4	0	4	30	70				100
EE241	Analog and Digital Electronics	4	2	6	30	70	25	25	25	150
EE242	Circuit Theory	4	2	6	30	70	25	25	25	150
EE243	Electrical Measurements and Industrial Instrumentation	4	2	6	30	70	25	25	25	150
XXXXXX	University Elective- I	2	0	2	30	70				100
	Assignment Practices/Student counseling/Remedial classes/Library/Sports/Extra-curricular & co curricular			10						
		20	6	36	180	420	75	75	75	750
HS127.01A/HS133A/HS123.01A	Communication Skills-2/ Creativity, problem Solving and Innovation/ Critical Thinking and Logic	2		2	50	50				100
EE244	Electrical Power Generation and its Economics	4	0	4	30	70				100
EE245	Control Systems	4	2	6	30	70	25	25	25	150
EE246	Microprocessor & Microcontrollers	4	2	6	30	70	25	25	25	150
EE247	Transformers and Induction Machines	4	4	8	30	70	50	50	50	200
XXXXXX	University Elective- II	2	0	2	30	70				100
	Assignment Practices/Student counseling/Remedial classes/Library/Sports/Extra-curricular & co curricular			7						
		20	8	35	200	400	100	100	100	800

Level 2

Certified By:

[Minutes of 12th BoS Meeting 03/09/2016]

9



REGISTRAR

 CHAROTAR UNIVERSITY OF SCIENCE AND TECHNOLOGY
 CHARUSAT CAMPUS, CHANGA

HS124.01A	Professional Communication I	2		2	2	2	30	70	100
		4	2						
EE341	Electrical Power Transmission and Distribution	4	2	6	5	30	25	25	150
EE342	Synchronous and DC Machines	4	4	8	6	30	50	50	200
EE343	Power Electronics & Drives I	4	2	6	5	30	25	25	150
EE344	Minor Project I	0	4	4	2		50	50	100
EE345	Electrical Product Survey				2		50	50	100
EE350	Summer Internship I		.3	3	3		75	75	150
EE371-EE372	Programme Elective I	3	2	5	4	30	25	25	150
	Assignment Practices/Student counseling/Remedial classes/Library/Sports/Extra-curricular & co curricular			6					
		17	14	37	26	120	255	295	950
HS125A	Society, Governance and International Studies		2	2	2	25	25	25	100
EE346	Digital Signal Processing	3	2	5	4	30	25	25	150
EE347	Programmable Logic Controllers and Industrial Automation	3	2	5	4	30	25	25	150
EE348	Power Electronics & Drives II	3	2	5	4	30	25	25	150
EE349	Fault Analysis and Switchgear	4	2	6	5	30	25	25	150
EE360	Minor Project II	0	4	4	2	0	50	50	100
EE376-EE377	Programme Elective II	3	2	5	4	30	25	25	150

Level 3

Certified By:



REGISTRAR

 CHAROTAR UNIVERSITY OF SCIENCE AND TECHNOLOGY
 CHARUSAT CAMPUS, CHANGA

	Assignment Practices/Student counseling/Remedial classes/Library/Sports/Extra-curricular & co curricular	18	14	36	25	175	375	200	200	950
	EE441 Power System Operations and Control	4	2	6	5	30	70	25	25	150
	EE442 Power System Protection	4	2	6	5	30	70	25	25	150
	EE443 Electrical Machine Design	4	4	8	6	30	70	25	25	150
	EE444 Simulation Lab	0	2	2	1			50	50	100
	EE445 Summer Practical Training				3			50	50	100
	EE471-EE472 Programme Elective III	4	2	6	5	30	70	25	25	150
	Assignment Practices/Student counseling/Remedial classes/Library/Sports/Extra-curricular & co curricular			2						
	EE446 Commissioning and Testing of Electrical Equipment	4	2	6	5	30	70	25	25	150
	EE447 Modeling and Control of Renewable Energy Sources	4	2	6	5	30	70	25	25	150
	EE473-EE474 Programme Elective IV	4	2	6	5	30	70	25	25	150
		12	6	18	27	90	210	325	325	950

Level 4

Certified By:

[Minutes of 12th BoS Meeting 03/09/2016] 11


 REGISTRAR
 CHAROTAR UNIVERSITY OF SCIENCE AND TECHNOLOGY
 CHARUSAT CAMPUS, CHANGA

CHAROTAR UNIVERSITY OF SCIENCE & TECHNOLOGY (CHARUSAT)						
	Hours			Credits	Marks	
	Theory	Practical	Total			
	137	78	264	192	1180	6700
LIST OF ELECTIVES FOR B TECH PROGRAMME IN ELECTRICAL ENGINEERING						
University Electives for Level 2						
	UNIVERSITY ELECTIVE 1			UNIVERSITY ELECTIVE 2		
EE281	Electrical Engineering Materials			EE282	Electrical Power Utilization and Traction	
Electives for Level 3						
	PROGRAMME ELECTIVE 1			PROGRAMME ELECTIVE 2		
EE371	Advanced Microcontrollers			EE376	Special Electrical Machines and Applications	
EE372	VLSI Technology and Design			EE377	Embedded System	
Electives for Level 4						
	PROGRAMME ELECTIVE 3			PROGRAMME ELECTIVE 4		
EE471	Power Electronics Applications in Power System			EE473	Smart Grid and Distribution Generation	
EE472	Advances in Power System			EE474	Energy Auditing and Management	

Certified By:

[Minutes of 12th BoS Meeting 03/09/2016] 12

University Elective I & II: Occupational Health and Safety, IPR, Regulatory Affairs, Contract Management,
 (Will be available in a Common Slot) Energy Management, Research Methodology, Entrepreneurship, Project Management, First Aid and Life Support
 Risk Management, Disaster Management, Scientific Instrumentation & Measurement, Operation Research,
 Business Environment, Quality Assurance, Computer Programming, Numerical Analysis, Web Designing, Cyber Security etc

Annexure 12.III & IV TEACHING AND EXAMINATION SCHEME FOR M Tech in Electrical Engineering (Electrical Power Systems)

Semester	Course Code	Course Title	Teaching Scheme			Credit	Examination Scheme				
			Theory	Practical/Tutorial	Total		Theory		Practical		Total
							Internal	External	Internal	External	
Sem 1	EE741	Modeling & Simulation of Electrical Machines (PC - 1)	4	2	6	5	30	70	25	25	150
	EE742	Modern Power System Operations (PC - 2)	3	2	5	4	30	70	25	25	150
	EE743	Advanced Power Electronics in Power Systems (PC - 3)	3	2	5	4	30	70	25	25	150
	EE7XX	Programme Elective-1 (PE - 1)	3	2	5	4	30	70	25	25	150
	EE7XX	Program Cluster Elective - 1 (PCT - 1)	3	2	5	4	30	70	25	25	150
	HS701	Advanced Critical Thinking & Logic (UC - 1)	2	0	2	2	30	70	0	0	100
	XXXXXX	University Elective 1 (UE - 1)	2	0	2	2	30	70	0	0	100
			20	10	30	25	210	490	125	125	950
Sem 2	EE744	Advanced Power System Dynamics & Stability (PC - 4)	4	2	6	5	30	70	25	25	150
	EE745	FACTS & HVDC Transmission (PC - 5)	3	2	5	4	30	70	25	25	150

Checked By:

[Minutes of 12th BoS Meeting 03/09/2016] 13

EE746	Advanced Power System Protection (PC - 6)	3	2	5	4	30	70	25	25	150
EE7XX	Programme Elective - 2 (PE - 2)	3	2	5	4	30	70	25	25	150
EE7XX	Program Cluster Elective – 2skills	3	2	5	4	30	70	25	25	150
HS702	Academic Writing & communication (UC-2)	0	2	2	2	0	0	30	70	100
XXXXXX	University Elective 2 (UE - 2)	2	0	2	2	30	70	0	0	100
		18	12	30	25	180	420	155	195	950
Programme Electives of Semester 1 and 2										
Programme Electives 1 (PE 1) for Semester 1		Programme Electives 2 (PE 2) for Semester 2								
EE761	Control System Engineering		EE763	Modeling and Simulation of Renewable Energy Sources						
EE762	Engineering Optimization Techniques		EE764	Distributed Generation and Smart Grid						
Cluster Electives of Semester 1 and 2										
Program Cluster Electives 1 (CT 1) for Semester 1		Program Cluster Electives 2 (CT 2) for Semester 2								
EE771	Digital Signal Processing & its Application		EE772	Restructuring & Deregulation of Power Systems						
IT767	Micro device Programming		IT768	Applied Cryptography						
EC767	Embedded System Design		EC768	Digital Image & Speech Processing						
CE767	Operating System Design & Concepts		CE768	Software Project Management & Quality Assurance						
University Electives of Semester 1 and 2										
University Electives (UE 1) for Semester 1		University Electives (UE 2) for Semester 2								
MA771	Reliability and Risk Analysis		EE782	Energy Audit and Management						
EE781	Optimization Techniques		CE771	Project Management						
ME781	Occupational Health and Safety		IT771	Cyber Security and Laws						
CE772	Research Methodology		CA 842	Mobile Application Development						
CA730	Internet & Web Designing		PT796	Fitness & Nutrition						
PT795	Health & Physical Activity		NR 752	Epidemiology and Community Health						
NR 751	Women's Health		OC733	Introduction to Polymer Science						
RD701	Introduction to Analytical Techniques		MB651	Software based Statistical Analysis						
RD702	Introduction to Nano science& Technology		PH826	Intellectual Property Rights						


[Minutes of 12th BoS Meeting 03/09/2016] 14


 REGISTRAR
 CHAROTAR UNIVERSITY OF SCIENCE AND TECHNOLOGY
 CHARUSAT CAMPUS, CHANGA

MB650	Creative Leadership	MA772	Design of Experiments
PH825	Community Pharmacy Ownership		

Semester	Course Code	Course Title	Credit	Examination Scheme					Total	
				Internal		External				
				Progress Report		Progress Seminar	Report	Seminar		Viva
Sem 3	EE811	Project Preliminaries	4	50		50	0	50	50	200
	EE812	Project Phase 1	18	100		100	100	100	100	500
			22	150		150	100	150	150	700
Sem 4	EE813	Project Phase 2	30	200		200	200	200	200	1000
			30	200		200	200	200	200	1000
		Grand Total	102							3600

Certified By:


 REGISTRAR
 CHAROTAR UNIVERSITY OF SCIENCE AND TECHNOLOGY
 CHARUSAT CAMPUS, CHANGA

Annexure 12.V TEACHING AND EXAMINATION SCHEME FOR Final Year B Tech in Electrical Engineering Entry Year: 2014

Sem	Course Code	Course title	Teaching Scheme				Credits	Examination Scheme				Total
			Contact Hrs.		Theory			Theory		Practical		
			Theory	Practical	Total	Internal		External	Internal	External		
Final Sem-VII	EE 401.01	Electrical Machine Design - I	3	2	5	4	30	70	25	25	150	
	EE 402	Electrical Power System - IV	3	2	5	4	30	70	25	25	150	
	EE 403	Power Electronics & Drives - II	4	2	6	5	30	70	25	25	150	
	EE 404	Energy Conservation and Management	3	0	3	3	30	70			100	
	EE 405	Power System Protection	4	2	6	5	30	70	25	25	150	
		Elective - I	4	2	6	5	30	70	25	25	150	
			21	10	31	26	180	420	125	125	850	
Final Sem-VIII	EE 406.01	Electrical Machine Design - II	3	2	5	4	30	70	25	25	150	
	EE 407	Commissioning of Electrical Equipments	3	2	5	4	30	70	25	25	150	
	EE 408	Power System Stability & Control	4	2	6	5	30	70	25	25	150	
	EE 409	Digital Signal Processing	3	2	5	4	30	70	25	25	150	
		Elective - II	4	2	6	5	30	70	25	25	150	
	EE 410.01	Project	0	6	6	3	0	0	50	100	150	
			17	16	33	25	150	350	175	175	900	
Code	Elective - I											
EE 414	Power System Operations						EE 415	Advances in Power System				
EE 418	Applications of Advanced Microcontrollers in Electrical Engineering-I						EE 419	Applications of Advanced Microcontrollers in Electrical Engineering-II				

Certified By:

REGISTRAR
 CHAROTAR UNIVERSITY OF SCIENCE AND TECHNOLOGY
 CHARUSAT CAMPUS, CHANGA

Annexure 12.VI TEACHING AND EXAMINATION SCHEME FOR THIRD Year B Tech in Electrical Engineering Entry Year: 2015

Sem	Course Code	Course Title	Teaching Scheme					Examination Scheme				
			Contact Hours			Credit	Theory		Practical		Total	
			Theory	Practical	Tutorial		Total	Internal	External	Internal		External
TY Sem- V	EE301	Electrical Machines-II	4	2	0	6	5	30	70	25	25	150
	EE302.01	Electrical Power System-II	4	0	0	4	4	30	70	0	0	100
	EE303.01	Microcontrollers and Applications	3	2	0	5	4	30	70	25	25	150
	EE304.01	Industrial Instrumentation	3	2	0	5	4	30	70	25	25	150
	EE305	Power Electronics & Drives-I	4	2	0	6	5	30	70	25	25	150
	EE311	Simulation Lab-I	0	2	0	2	1	0	0	25	25	50
	HS124.01A	Professional Communication	2	0	0	2	2	0	0	30	70	100
			20	10	0	30	25	150	350	155	195	850
	EE306.01	Electrical Machines-III	4	2	0	6	5	30	70	25	25	150
	EE307	Electrical Power System-III	4	2	0	6	5	30	70	25	25	150
TY Sem- VI	EE308.01	High Voltage Engineering	3	2	0	5	4	30	70	25	25	150
	EE309.01	Electrical Power Utilisation & Traction	3	0	0	3	3	30	70			100
	EE310.01	Programmable Logic Controllers and Industrial Automation	4	2	0	6	5	30	70	25	25	150
	EE312	Simulation Lab-II	0	2	0	2	1	0	0	25	25	50
	HS125.01A/ HS130A/ HS134A	Society, Governance and International Studies/ Law and Justice/ Contributor Personality Development	2	0	0	2	2	25	25	25	25	100
			Certified By:									

[Minutes of 12th BoS Meeting 03/09/2016] 17

Annexure 12.VII Examiner Panel List for B. Tech and M. Tech Examination

Examiner Panel for Electrical Engineering (External Examiners)

Sr.No.	Examiner Name	Institute	Contact No	Email id
1	Dr. B.R.Parekh	BVM Engg. College	9879256663	brp_bvm@yahoo.co.in
2	Dr. S.R.Joshi.	S.R Gandhi Engg. College.Surat.	9429265099	sanjayjoshi@gmail.com
3	Dr. Naran M Pindoriya	IIT Gandhinagar	8511673572	naran@iitgn.ac.in
4	Dr. S K Joshi	MSU	9427055862	skjoshi_59@yahoo.com
5	Dr. Vivek J Pandya	PDPU	9824225220	vivek_pandya@soi.pdpu.ac.in
6	Prof. N.G. Mishra	BVM Engg. College	9998284763	nidhish57@yahoo.co.in
7	Dr. B.R.Bhalja	IIT Roorkee	9639471375	bhaveshbhalja@gmail.com
8	Dr. C.D. Kotwal	SVIT Vasad	9909006055	chetan.kotwal@gmail.com
9	Kuman R Shidhapura	Darshan Eng College	9427229262	kuman_vvp@yahoo.com
10	Nirav D Karelia	Omsanti Eng college	9924300789	nirav_karelia@yahoo.com
11	Alpesh S Adeshara	VVP	982585800	alpeshsays@yahoo.com
12	Chirag K Vibhakar	VVP	9173698555	chiragkvi@yahoo.co.in
13	Chirag N Jasani	OM Santi Eng college	9898632410	chiragjasani@yahoo.com
14	Vineeta S. Chauhan	Indus University	9638251076	vineetachauhan.ee@iite.edu.in
15	Ketan Kadivar	Govt. Polytechnic, Morvi	9979445080	ketankadivar@gmail.com
16	C.V.Sheth	GCET	9879776483	dhruvraj1234@gmail.com
17	Ujjaval patel	ADIT	9879879746	ujjaval58@rediffmail.com
18	BhavesH Hindocha	GCET	9898852530	bhaveshindocha@gcet.ac.in
19	Jaydip Baria	B.V.M. Engg. College	9426839988	jcbaria@bvmengineering.ac.in
20	A. R. Patel	B.V.M. Engg. College	9879296030	ashish_patel@bvmengineering.ac.in
21	A.D. Joshi	L.D. Engg. College	9825288607	joshishish22@yahoo.co.in
22	D.P. Maheshwari	L.D. Engg. College	9825797155	d_pmaheshwari@yahoo.co.in
23	Hitesh K. Mehta	S.C.E.T., Surat	9825726206	hitesh.mehta@scet.ac.in
24	S B Patel	G H Patel College of Engg.	9879298992	patelsb_14@yahoo.co.in, sameerpatel@gcet.ac.in
25	Ritesh Patel	GCET	9429664064	r2patel@yahoo.com
26	Rakesh Patel	GCET	9375850177	rakeshmpatel@gcet.ac.in
27	Ishaq A Sheikh	G H Patel College of Engg.	9427078457	ishaqsheikh@gcet.ac.in

Certified By

[Minutes of 12th BoS Meeting 03/09/2016] 19

28	Anil Navle	Vidyabharti Trust, Inst. Of Tech. & Research, Bardoli	9998973508	anil.navle@gmail.com
29	Dipesh M Patel	Babaria Inst. Of Tech.	9925369767	dipesh_cc@yahoo.co.in
30	Hiren Patel	Indus Inst. Of Tech.	9662020667	hirenpatel.ec@iite.edu.in
31	Dharita Patel	BVM Engg. College	9925365442	dharita@gmail.com
32	Megha Trivedi	SVIT	9428479867	mghtrivedi@yahoo.com
33	Anant H. Parmar	LDRP	9998216254	akki.vs@gmail.com
34	Gaurang Sharma	BVM Engg. College	9824918977	gksharma@bvmengineering.ac.in
35	Bindu Kansara	ADIT	9228875539	bindu_kansara@yahoo.co.in
36	Nimish Zaveri	CK Pithawala	9925024133	zaverinimish@yahoo.com
37	Jenish Macwan	Nirma	9408479830	jenish.macwan@nirmauni.ac.in
38	Jasmin James	ICCT	9227134379	jasminajith@gmail.com
39	Paresh Modha	ADIT	9998567827	paresh312@gmail.com
40	Tejas Zaveri	C K Pitthawala, Surat	9909110232	zaveritejas@yahoo.com
41	Kothari Nishant	PDP	9998174741	Nishant.Kothari@sot.pdpu.ac.in
42	Falgun Thakkar	GCET, V.V.Nagar	9904355301	falgunthakkar@gcet.ac.in
43	Mukeshbhesaniya	GCET, V.V.Nagar	9429335875	mukeshbhesaniya@gcet.ac.in
44	Milind Trivedi	C K Pithawala	9824477044	milind.trivedi@ckpct.ac.in
45	Janak Patel	NIT Surat	9825964665	ijp@eed.svnit.ac.in
46	Viren Pandya	LDCE	9377504840	virenpandya@gmail.com
47	Jignesh Bhatti	GP Himatnagar	9427355379	jigneshbhatti@indiatimes.com
48	Pragnesh H Shah	ADIT	9824842268	ee.praghesh.shah@adit.ac.in
48	Vijay Makawana	GCET	9825783644	vijaymakawana@gcet.ac.in
49	Dr. Bhavik Suthar	LDCE	9428695543	bhavik.suthar@yahoo.co.in
50	Tejas Maniar	LDCE	9898439683	maniaritejas@gmail.com
51	Bhuvnesh A Oza	PDP	9723456236	bhuvanesh.oza@sot.pdpu.ac.in
52	Dr. Ketan Badgujar	GEC Modasa	8153941900	ketan@gcemodasa.org
53	Chintan Patel	GCET	9428089485	chintanpatel@gcet.ac.in
54	Sneha Bhavsar	Navrachna	8128130132	s_bhavsar132@yahoo.co.in
55	Mitesh Astik	ADIT	9624039278	miteshastik@yahoo.com
56	Manish Simha	BVM	9427081017	manishsimha77@yahoo.co.in
57	Manish Pandya	PIET Waghodia	9879698932	manishpandya25@yahoo.com
58	Dr. M.C.Chudasama	SS GEC Bhavnagar	9408967676	mahipalsinh.chudasama.5@facebook.com
59	Dr. S.N. Pandya	LDCE	9428498628	saunipandya@gmail.com

Co-Ordinator By:

[Minutes of 12th BoS Meeting 03/09/2016] 20

60	Dr. Nilesh Chothani	ADIT	9426421425	chothani_nilesh@rediffmail.com
61	Dr. J J Patel	GCET	9586647501	jjpatelgcet@gmail.com
62	Ajay Patel	BVM	9426386858	ajaypatelp@yahoo.com
63	Shital Pujara	SVIT	9825707091	smpujara4@yahoo.co.in
64	Tapan Trivedi	Marwadi Inst	9723093483	trivedi.tapan2007@gmail.com
65	Pulin Purohit	PDPU	9574737182	polin.purohit88@gmail.com
66	Dr. J G Jaminani	PDPU	9824336397	jjg.jaminani@sot.pdpu.ac.in
67	Vatsal Shah	PDPU	9033082442	vatsal.s@sot.pdpu.ac.in
68	Dr. Pimal R. Gandhi	SVIT, Vasad		pimalgandhi@gmail.com
69	Nilesh K. Jaiswal	SVIT, Vasad	9428465745	nkjaiswal_svii@yahoo.com
70	Nirali A. Rathod	SVIT, Vasad		nirali_ee@yahoo.co.in
71	Nilay N. Shah	SVIT, Vasad	9574704473	nilnshah_svii@yahoo.com
72	Rakesh C. Gajjar	SVIT, Vasad		rc_engineer@yahoo.co.in
73	Surabhi Bhatnagar	SVIT, Vasad	9925018629	surabhi0706@gmail.com
74	Mulav P. Rathod	SVIT, Vasad		rathodmulav_er@yahoo.co.in
75	Nirav A. Chauhan	SVIT, Vasad	9428658638	niravachauhan@gmail.com
76	Heli A. Shah	Babaria Inst. Of Tech. , Vadodara	0265-2303991	heligolwala@gmail.com
77	Amit V. Sant	P D PU, Gandhinagar	0265-2303991	amitvsant@gmail.com
78	Amita Rathod	Babaria Inst. Of Tech. , Vadodara	0265-2303991	Amita.rathod53@yahoo.in
79	Kalpesh Chudasama	ADIT, V V Nagar	9426505898	kjc_jalpan@yahoo.co.in
80	Brijesh Patel	ADIT, V V Nagar		bmp1412@gmail.com
81	Chandani Parmar	ADIT, V V Nagar	9898065624	chand_343@yahoo.co.in
82	Hardik R. Pathak	GCET, V V Nagar	9998040035	hardikpathak@gcet.ac.in
83	Mukesh M. Bhesaniya	GCET, V V Nagar	9429335875	mukeshbhesaniya@gcet.ac.in
84	Ankit P. Shahpatel	GCET, V V Nagar	9409402834	ankitshahpatel@gcet.ac.in
85	Manish B. Prajapati	SPEC, V V Nagar	9998017947	prajapatimanish04@gmail.com
86	Dr. Archana Nanoty	DJMIT, Mogar	9099063481	principal@djmit.ac.in
87	Mr. Jigar Jain	DJMIT, Mogar	9998270521	jjjain85@gmail.com
88	Vipul Rajput	DJMIT, Mogar	9725851836	vipul.rajput@djmit.ac.in
89	Sarika S Kanojia	Nirma Institute of Technology, Ahmedabad	7930642408	sarika.kanojia@nirmauni.ac.in
90	Shanker Godwal	Nirma Institute of Technology, Ahmedabad	7930642408	shanker.godwal@nirmauni.ac.in

[Minutes of 12th BoS Meeting 03/09/2016] 21

By: 
 REGISTRAR
 CHAROTAR UNIVERSITY OF SCIENCE AND TECHNOLOGY
 CHARUSAT CAMPUS, CHANGA

91	Dhara M. Mehta	Nirma Institute of Technology, Ahmedabad	7930642408	dhara.mehta@nirmauni.ac.in
92	Mr. Siddharth Joshi	School of Technology (PDPU), Gandhinagar	9427729739	siddharth.joshi@sot.pdpu.ac.in
93	Mr. Kapildev N Arora	Parul Institute of Technology, Vadodara	7405527767	kapil_arora_31@yahoo.com
94	Mrs. Rital R Gajjar	Parul Institute of Technology, Vadodara	9427941055	ritu_engineer@yahoo.co.in
95	Shiv Kumar	Parul Institute of Engg & Technology, Vadodara	9099325288	sivakumar_veera@yahoo.com
96	Chintan Mehta	Nirma Institute of Technology, Ahmedabad	9824393292	chintan.mehta@nirmauni.ac.in
97	H D Mehta	L D College of Engineering	9879426925	hdm732000@yahoo.com
98	Mihir Shah	Nirma Institute of Technology, Ahmedabad	9687367687	mihir_shah@nirmauni.ac.in
99	Yogesh Prajapati	BVM Engg. College	9925044099	yrp_ee@yahoo.co.in
100	Ankit Prajapati	BIT, Vadodara	9925171781	ankit_elect27@yahoo.co.in
101	Kinjal Shah	VIER, Vadodara	9429953742	skinjal21@gmail.com
102	Divyesh Vaghela	Nirma Institute of Technology, Ahmedabad	9033437058	divyesh.vaghela@nirmauni.ac.in

Examiner Panel for Electrical Engineering (Internal Examiners)

Sr.No.	Examiner Name	Institute	Contact No	Email id
1	Dr. Praghnesh J Bhatt	CSPIT	9427339896	pragneshbhatt.ee@charusat.ac.in
2	Dr. Kartik S Pandya	CSPIT	9427856115	kartikpandya.ee@charusat.ac.in
3	Dr. Bhinaikumar B Mehta	CSPIT	9427045058	bhinaimehta.ee@charusat.ac.in
4	Pankita A Mehta	CSPIT	9427857154	pankitamehta.ee@charusat.ac.in
5	Nilaykumar A Patel	CSPIT	9825548275	nilaypatel.cem@charusat.ac.in
6	Mihir A Bhatt	CSPIT	9913277673	mihirbhatt.ee@charusat.ac.in
7	Dipa J Kapupara	CSPIT	9537105568	dipakapupara.ee@charusat.ac.in
8	Maulik J Shah	CSPIT	9978441457	maulikshah.ee@charusat.ac.in
9	Dhaval G Patel	CSPIT	8401982045	dhavalpatel.ee@charusat.ac.in
10	Jigar Sharda	CSPIT	9016418230	jigarsarda.ee@charusat.ac.in
11	Vibha Parmar	CSPIT	9426501707	vibhaparmar.ee@charusat.ac.in
12	Jivanadhar Joshi	CSPIT	9099896476	jivanjoshi.ee@ecchnaga.ac.in
13	Saiyad Mahammadsoaib	CSPIT	9898204501	mahammadsoaibsayyad.ee@charusat.ac.in
14	Vineetha Ravindran	CSPIT	9427406614	vineetharavindran.ee@charusat.ac.in
15	Pratik Mochi	CSPIT	9974916313	pratikmochi.ee@charusat.ac.in
16	Ankur Patel	CSPIT	9978782503	ankurpatel.ee@charusat.ac.in
17	Pratik Panchal	CSPIT	9429773733	pratikpanchal.ee@charusat.ac.in
18	Kamal Patel	CSPIT	9624796641	kamalpatel.ee@charusat.ac.in

Certified By:


 REGISTRAR
 CHAROTAR UNIVERSITY OF SCIENCE AND TECHNOLOGY
 CHARUSAT CAMPUS, CHANGA

[Minutes of 12th BoS Meeting 03/09/2016] 22

19	Krishnakant Kamble	CSPIT	9408156441	krishnakamble.ee@charusat.ac.in
20	Jil Sutaria	CSPIT	9537906897	jilsutaria.ee@charusat.ac.in
21	Dharmesh Dabhi	CSPIT	8000232103	dharmeshdabhi.ee@charusat.ac.in
22	Mihir R Patel	CSPIT	9723315488	mihirpatel.ee@charusat.ac.in
23	Jignesh Patel	CSPIT	9978794997	jigneshpatel.ee@charusat.ac.in
24	Mihir Mehta	CSPIT	7405856957	mihirmehta.ee@charusat.ac.in
25	Rahul Soni	CSPIT	9601716689	rahulsoni.ee@charusat.ac.in

Certified By:


 REGISTRAR
 CHAROTAR UNIVERSITY OF SCIENCE AND TECHNOLOGY
 CHARUSAT CAMPUS, CHANGA

Minutes – 12th Board of Studies Meeting
M&V Patel Department of Electrical Engineering
Faculty of Technology & Engineering, CHARUSAT

Date : September 3, 2016, Saturday

Time : 10:00 am onwards

Venue: Room No: 102, HOD (EE), CSPIT, CHARUSAT Campus

The 12th meeting of Board of Studies, M&V Patel Department of Electrical Engineering, Faculty of Technology and Engineering (FTE), Charotar University of Science and Technology (CHARUSAT) was held on 3/9/2016 at 10:00 a.m. at Department of Electrical Engineering, CSPIT, CHARUSAT Campus. Following members were present:

1	Dr. Praghnesh Bhatt	Chairman;	Professor & Head, Department of Electrical Engineering,	<i>[Signature]</i>
2	Dr. Kartik Pandya	Member;	Professor, Department of Electrical Engineering,	<i>[Signature]</i>
3	Dr. Bhinal Mehta	Member;	Assistant Professor Department of Electrical Engineering,	<i>[Signature]</i>
4	Mr. Nilay Patel	Member;	Assistant Professor Department of Electrical Engineering,	<i>[Signature]</i>
5	Ms. Pankita Mehta	Member;	Assistant Professor Department of Electrical Engineering,	<i>Pankita</i>
6	Mr. Jeevanadhar Joshi	Member;	Assistant Professor, Department of Electrical Engineering,	<i>[Signature]</i>
7	Dr. Sanjay R. Joshi	External Member;	Principal Government Engineering College, Valsad	<i>[Signature]</i>
8	Dr. Bhavik Suthar	External Member;	Associate Professor Government Engineering College, Modasa	<i>[Signature]</i>
9	Dr Santosh Vora	External Member;	Professor Department of Electrical Engineering Nirma University, Ahmedabad	<i>[Signature]</i>
10	Dr Vijay Shah	External Member;	R&D Specialist, BU-PPMV, Vadodara	<i>[Signature]</i>
11	Mr. Kirat Pandya	External Member;	AGM, Schneider Electricals Ltd, Vadodara	<i>[Signature]</i>
12	Mr. Sanjay Mahagaokar	External Member;	Dy General Manager Engineering and Technology Rotomag Power Drives Ltd	<i>[Signature]</i>

Certified By:

[Signature]
REGISTRAR
CHAROTAR UNIVERSITY OF SCIENCE AND TECHNOLOGY
CHARUSAT CAMPUS, CHANGA

Minutes –14th Board of Studies Meeting
M&V Patel Department of Electrical Engineering
Faculty of Technology & Engineering, CHARUSAT

Date : August 26, 2017, Saturday

Time : 10:00am onwards

Venue: Room No: 102, HOD (EE), CSPIT, CHARUSAT Campus

The 14th meeting of Board of Studies, M&V Patel Department of Electrical Engineering, Faculty of Technology and Engineering (FTE), Charotar University of Science and Technology (CHARUSAT) was held on 26/8/2017 at 10:00 a.m. at M&V Patel Department of Electrical Engineering, CSPIT, CHARUSAT Campus. Following members were present:

1	Dr. Praghnesb Bhatt	Chairman;	Professor & Head, Department of Electrical Engineering,	
2	Dr. KartikPandya	Member;	Professor, Department of Electrical Engineering,	
3	Dr. Bhinal Mehta	Member;	Assistant Professor Department of Electrical Engineering,	
4	Mr. Nilay Patel	Member;	Assistant Professor Department of Electrical Engineering,	
5	Mr. Maulik Shah	Member;	Assistant Professor Department of Electrical Engineering,	
6	Mr. Mhir Bhatt	Member;	Assistant Professor Department of Electrical Engineering,	
7	Mr. Jivanadhar Joshi	Member;	Assistant Professor, Department of Electrical Engineering,	
8	Mr. Pratik Mochi	Member;	Assistant Professor, Department of Electrical Engineering,	
9	Dr. Sanjay R. Joshi	External Member;	Principal Government Engineering College, Valsad	
10	Dr. BhavikSuthar	External Member;	Associate Professor Government Engineering College, Modasa	
11	Dr. Santosh Vora	External Member;	Professor, Department of Electrical Engineering Nirma University, Ahmedabad	
12	Dr. Vijay Shah	External Member;	R&D Specialist, BU-PPMV, Vadodara	
13	Mr. Kirat Pandya	External Member;	AGM, Schneider Electricals Ltd, Vadodara	

Certified By:

[Minutes of 14th BoS Meeting 26/08/2017] 1


REGISTRAR
 CHAROTAR UNIVERSITY OF SCIENCE AND TECHNOLOGY
 CHARUSAT CAMPUS, CHANGA

14	Mr. Sanjay Mahagaokar	External Member;	Dy General Manager Engineering and Technology, Rotomag Power Drives.	
----	-----------------------	-------------------------	---	--

Initiation:

Dr. Kartik Pandya welcomed all the members of Board of Studies.

Agenda Proceedings & Resolutions:-

Item 14.01:	To review the T & E scheme for entire B TECH and MTECH programs under CBCS. Suggestions are invited to change T & E scheme of 3 rd -8 th semester of BTECH
	<p><u>Proceedings 14.01:</u></p> <p>The teaching and examination scheme of B. Tech and M. Tech. programs under Choice Based Credit System (CBCS) for 3rd to 8th Semester effective from ACY 2017-2018 had been discussed in details.</p> <p>Suggestions Received:</p> <ul style="list-style-type: none"> ▪ The proposed structure of CBCS has been discussed in detail along with core and different elective courses. ▪ The courses are appropriately distributed among the major areas of electrical engineering such as power system, electrical machines, power electronics, microprocessors & microcontrollers along with required supplementary courses. ▪ More program electives should be incorporated in the third year and final year of B. Tech. program. ▪ The students must know the fundamental of the subjects and they must have knowledge about the various electrical products available in the market along with its specifications and prices. ▪ The students should have the opportunities to develop hardware-based projects to learn the theoretical concepts more effectively. The preparation of the complete project report enhances their writing, presentation and communication skills. ▪ Power generation by renewable energy sources and its modeling concepts needs to be imparted, as they are the present day demand. ▪ The operating paradigm of the distribution system has changed drastically and its concepts can be covered by offering the courses on smart grid, micro grid and distributed generation. ▪ Early exposure to practical/industrial training makes the students familiar with industrial developments and practices. The projects/training ▪ The curriculum structure of other universities such as GTU, Nirma, Amity, IITs, NIT, NUS, and University of Illinois are also referred and discussed. The goal of designing curriculum structure is to prepare the students for GATE, other competitive exams and for further studies.

Certified By: [Minutes of 14th BoS Meeting 26/08/2017] 2

	<ul style="list-style-type: none"> ▪ The university core and elective courses are also reviewed and they are found suitable to inculcate values & ethics, to enhance critical thinking & logic, to improve communication skills and to increase basic analytical ability among the students. <p>New subjects of Humanities are incorporated in second year level from AY 2017-18 as the courses were discussed in respective BoS. The courses are listed as under.</p> <p>HS131A Philosophy</p> <p>HS122A Values and Ethics</p> <p>HS133A Creativity, Problem Solving and Innovation</p> <p>HS127.01 Communication Skills II</p> <p>HS123.01 Critical Thinking and Logic</p> <p><u>Resolution 14.01:</u></p> <ul style="list-style-type: none"> ▪ Based on the extensive discussion and suggestion received from the BoS members, the teaching and examination scheme of B. Tech Program under CBCS is finalized and attached in Annexure 14.I.
<p>Item</p> <p>14.02:</p>	<p>To prepare and review the detailed syllabus of 3rd year B.TECH program under CBCS.</p> <p><u>Proceedings 14.02:</u></p> <p>The detailed syllabus of the courses for B Tech – 3rdYear (5thand 6thSemesters) is reviewed.</p> <p>Suggestions Received:</p> <p><u>EE341: Electrical Power Transmission and Distribution</u></p> <ol style="list-style-type: none"> 1 Role of vector group for design purpose should be included. 2 Before design of transmission line, transmission line geometry and type of field should be included. 3 Visit to sub-station should be reflected in syllabus. 4 Most of experiments are study experiments. 5 Study of cable should be included. 6 Restrict the transmission line parameters to lower values. <p><u>EE342: Synchronous and DC Machines</u></p> <ol style="list-style-type: none"> 1 Four hour of lab session is good decision. 2 Applications of machines should be included by case study. 3 DC machine should be covered first and then Synchronous machine later in the syllabus. 4 Chapter numbers should be changed accordingly. 5 Subject is too long. 6 Machine winding portion should be excluded from theory and should be included in lab. 7 Number of lab experiments can be increased up to 20.

Certified By: [Minutes of 14th BoS Meeting 26/08/2017] 3

- 8 A small topic of machine materials and permanent magnet can be included.
- 9 Universal motor should be included in this course.
For visualization, a print or drawing sheet can be prepared for machine
- 10 winding.
- 11 Machine re-winder can be demonstrated in lab.
- 12 Visit can be arranged for students to see winding process of machine.
Transform theory should be included in this course so it can help in Drives.

EE343:Power Electronics & Drives I

- 1 Define subtopics of MOSFET and IGBTs.
- 2 Addition of datasheets of All devices.
- 3 Experiments should be hands on like Choppers, Controlled rectifier.
- 4 Addition of experiments based on driver circuits and SCR firing circuits.
- 5 Real time Application should be included.
- 6 AC-DC converter is for 10 hours which is very less.
- 7 Mention components in detail in syllabus. Define attributes.
- 8 comparative analysis of various component should be included.

EE344: Minor Project I

- 1 Students will be given minor project.
- 2 The level of project should be primary knowledge level.

EE345: Electrical Product Survey

- 1 Specification, market survey, identification of different products like wire, cable, switchgear can be done.
- 2 Electronic component and IC data sheets can be studied by students.
Student groups should be formed to understand above concepts and evaluated based on
- 3 presentation.

EE350: Summer Internship I

- 1 This course can be added in 5th semester.
Summer break between 4th and 5th semester can be effectively utilized by
- 2 students.

EE371: Advanced Microcontroller (Programme Elective I)

- 1 Embedded C Language Programming for Microcontroller and keil will be taught.
- 2 PCA and its application and communication protocol can be added in syllabus.

EE372: VLSI Technology and Design (Programme Elective I)

- 1 Introduction and fabrication of MOSFET must be covered.

Certified By:[Minutes of 14th BoS Meeting 26/08/2017] 4

- 2 MOS combination and sequential circuits can be added in this course.

EE346: Digital Signal Processing

- 1 There should be a separate compulsory subject for learning science of ' Signals & System's'
- 2 Its not better idea to cover the above as a part of a chapter in course of Digital Signal Processing.
- 3 The Last chapter may be removed with more emphasis on first chapter.

EE347: Programmable Logic Controllers and Industrial Automation

- 1 Syllabus should have Fulfillment/justification of course title.
- 2 It can be an Elective Course.
- 3 Ladder diagram portion can be reduced in terms of time.
- 4 Include SMI, graphical Language.

EE348: Power Electronics & Drives II

- 1 Syllabus is very compressive.
- 2 Adding of Advanced Power Electronics in Elective courses. So multilevel inverters and other advanced topics can be include in this course.

EE349: Fault Analysis and Switchgear

- 1 Symmetrical component should be given less hour.
- 2 Time can be increased for Types of CB.
- 3 More reference books can be added.

EE360: Minor Project II

- 1 Students will be given minor project.
- 2 The level of project should be moderate knowledge level.
Arduino based/ microcontroller based project will enhance the skill of students.
- 3

EE376: Special Electrical Machines and Applications (Programme Elective II)

- 1 Basics of magnetic theory and need of magnets should be included.
- 2 More text book to be included for Induction Generator.
- 3 More time should be given to permanent magnet materials and PM motors.
- 4 Schrage motor portion can be given less time.
Servo motor should be given more time regarding their characteristic, response time etc.
- 5 For special machine, a book entitled "Special Electrical Machine" by D. G. Miller can be included.
- 6
- 7 Stepper motor, servo-motor, PM motor should be in lab experiment.
- 8 Switched reluctance motor should be included as a topic in details.

Certified By: [Minutes of 14th BoS Meeting 26/08/2017] 5

	<p>9 BLDC motor connected with solar power should be included. 10 Use of special machine with renewable energy can be included.</p> <p><u>EE377: Embedded System (Programme Elective II)</u></p> <p>1 The syllabus is well organized and almost covering everything required in simpler manner.</p> <p><u>Resolution 14.02:</u></p> <ul style="list-style-type: none"> ▪ The suggestions received from BoS members are incorporated and detailed syllabi for B Tech – 3rdYear (5thand 6thSemesters) effective from 2018-2019 is approved and is attached in Annexure – 14.I.
<p>Item 14.03</p>	<p>To review the detailed syllabus of 1st year M.TECH program under CBCS for any necessary changes.</p>
	<p><u>Proceedings 14.03:</u></p> <p>The teaching and examination scheme of M. Tech program under Choice Based Credit System (CBCS) effective from ACY: 2016-2017 is reviewed.</p> <p>T & E scheme and courses of M. Tech. (PE) are discussed. This program may start from AY 2018-19.</p> <p>Suggestions Received:</p> <p><u>EE751: Power Electronics Devices and Circuits</u></p> <ol style="list-style-type: none"> 1 Basics of all semiconductors must be included 2 Time can be increased for Design of magnetics circuits. 3 Resonant convertors should cover all convertors. 4. Driver circuits should be cover more topics. <p><u>EE766: Power Quality</u></p> <ol style="list-style-type: none"> 1 Harmonics should be given more weightage. 2 Power frequency and high frequency phenomena should be included 3 Importance of power quality issue should be introduced. <p><u>EE767: Digital Control Systems</u></p> <ol style="list-style-type: none"> 1 Time response and frequency response topic will be given more importance 2 State-space analysis should be given more weightage. 3 Controller design. <p><u>EE756: Control of Electric Drives</u></p>

Certified By: [Minutes of 14th BoS Meeting 26/08/2017] 6

	<p>1 Syllabus designed is fine</p> <p><u>EE757: Advanced Power Electronic Convertors</u></p> <p>1 Syllabus designed is fine 2 More books can be suggested</p> <p><u>EE768: Power Electronics for Renewable Energy Sources</u></p> <p>1 Power convertors for Solar and PV should be discussed in depth. 2 Reference theory concept must be included.</p> <p><u>EE769: Control of Special Electrical Machines</u></p> <p>1 Syllabus designed is fine 2. More time can be spend for basic topics.</p> <ul style="list-style-type: none"> ▪ New subjects of Humanities are incorporated from AY 2017-18 as the courses were discussed and approved in respective BoS. ▪ HS704A Academic Speaking ▪ HS705A Academic Writing <p><u>Resolution 14.03:</u></p> <p>The suggestions received from BoS members are incorporated and the teaching and examination scheme of M. Tech (Electrical Power System) program under Choice Based Credit System (CBCS) effective from ACY: 2016-2017 is approved and attached in Annexure – 14.II.</p> <p>The teaching and examination scheme of M. Tech (Power Electronics) program under Choice Based Credit System (CBCS) effective from ACY: 2016-2017 is approved and attached in Annexure – 14.III.</p>
<p>Item 14.04</p>	<p>Discussion on effective implementation of Outcome Based Education (OBE) and ICT based Teaching-Learning</p> <p>Suggestions Received:</p> <ul style="list-style-type: none"> ▪ All faculty members must aware about each criteria defined by NBA. ▪ The proper understanding of mapping of POs, PEOs, Cos and their assessment tools is required. ▪ Faculty contribution should be increased for publication, funded projects and consultancy. ▪ The usage of open course ware from NPTEL, MIT and BISAC must be increased.
<p>Item</p>	<p>Introducing the new PG program in Electrical Engineering</p>

Certified By: [Minutes of 14th BoS Meeting 26/08/2017] 7

14.05	Suggestions Received: Following PG programs in Electrical Engineering are proposed. (1) Power Electronics and Drives (2) Renewable Energy (3) Automation and Control
Item 14.06	Discussion regarding recent approval from NBA and scope for the improvement
	All invited BoS members congratulated the University, Institute and Department for getting "A" graded from NAAC and KCG as well as for getting NBA for three departments
Item 14.07	Approval of Examiners' Panel
	The examiners panels for B. Tech and M. Tech have been reviewed and approved. The approved examiner panel is attached in Annexure 14.VII .

Additional Items

Sr. No	Agenda	Discussion/Suggestions
1	Review of Exam Question Papers	Question papers of internal and university examination have been reviewed. The briefings about the continuous evaluation, freedom for pedagogy selection for faculty and execution of the practical sessions have been given to external BoS members. The quality of question papers are found satisfactory, but it is suggested to increase the weightage on the questions that can increase the analytical and logical thinking ability of students.
2	Review of Result Analysis	The records of result analysis of both internal and university exam are maintained. The results of both the exams are generally discussed and analyzed in the department meeting as soon as the exam gets over and the necessary actions are decided. The YoY comparisons of the results are also discussed and the figures are acceptable. The efforts should be given to again improve the results at all levels. The conduction of the remedial coaching for weaker students has been appreciated by the members.
3	Review of Placement Records	The campus placement of the student needs to be increased. More efforts are required to invite the companies for placement. The aptitude sessions organized for the students are appreciated. It is advised to keep extra technical session to prepare the students for technical skills.
4	Review of B. Tech and M. Tech Projects works	The project titles for B. Tech and M. Tech are reviewed and found satisfactory. It is suggested to give more emphasis on hardware based projects at B. Tech level. For M. Tech, the extensive use of licenses software may help the students to solve/reproduce the IEEE journal papers. Paper presentation for M. Tech students should be made compulsory.
5	Review of	Review pattern for the students feedback and actions after the feedback have been

Certified By: [Minutes of 14th BoS Meeting 26/08/2017] 8

Feedback from Students, Identification of slow learners, Counseling activities	explained. It is an useful component to improve the performance of teacher and T-L practices. The student counseling activities are very appreciated by all the members.
--	--

Dr. Praghnesh Bhatt
Chairman
Board of Studies (EE)

Praghnesh Bhatt
HEAD OF DEPARTMENT
Dept. of Electrical Engg.
Chandubhai S. Patel Institute of Technology
At. & Po. Changa-388421., Ta. Petlad,
Dist. : Anand. (Gujarat)

Certified By:

P
REGISTRAR
CHAROTAR UNIVERSITY OF SCIENCE AND TECHNOLOGY
CHARUSAT CAMPUS, CHANGA

HS122A/HS131A	Values and Ethics/Philosophy	2	2	2	2	2	30	70		100
MA241	Engineering Mathematics III	4	0	4	4	30	70			100
EE241	Analog and Digital Electronics	4	2	6	5	30	70	25	25	150
EE242	Circuit Theory	4	2	6	5	30	70	25	25	150
EE243	Electrical Measurements and Industrial Instrumentation	4	2	6	5	30	70	25	25	150
XXXXXX	University Elective- I	2	0	2	2	30	70			100
	Assignment Practices/Student counseling/Remedial classes/Library/Sports/Extra-curricular & co curricular			10						
		20	6	36	23	180	420	75	75	750
HS123.01A/ HS127.01A/ HS133A	Critical Thinking and Logic/ Communication skill 2/ Creativity, Problem Solving and Innovation	2		2	2	50	50			100
EE244	Electrical Power Generation and its Economics	4	0	4	4	30	70			100
EE245	Control Systems	4	2	6	5	30	70	25	25	150
EE246	Microprocessor & Microcontrollers	4	2	6	5	30	70	25	25	150
EE247	Transformers and Induction Machines	4	4	8	6	30	70	50	50	200
XXXXXX	University Elective- II	2	0	2	2	30	70			100
	Assignment Practices/Student counseling/Remedial classes/Library/Sports/Extra-curricular & co curricular			7						
		20	8	35	24	200	400	100	100	800

Certified By:

[Minutes of 14th BoS Meeting 26/08/2017] 11

HS124-01A	Professional Communication	2	2	2		30	70	100
EE341	Electrical Power Transmission and Distribution	4	4	4	30	70		100
EE342	Synchronous and DC Machines	4	4	8	30	70	50	200
EE343	Power Electronics & Drives I	4	2	6	30	70	25	150
EE344	Minor Project I	0	4	4		50	50	100
EE345	Electrical Product Survey			2		50	50	100
EE 346	Supervised Practicals I		3	3		75	75	150
EE371-EE372	Programme Elective I	4	2	6	30	70	25	150
	Assignment Practices/Student counseling/Remedial classes/Library/Sports/Extra curricular & co curricular		3					
		17	14	36	120	280	255	1050
HSA134A	Contributor Personality Development	2		2			70	100
EE346	Digital Signal Processing	3	2	5	30	70	25	150
EE347	Programmable Logic Controllers and Industrial Automation	2	4	6	30	70	50	200
EE348	Power Electronics & Drives II	3	2	5	30	70	25	150
EE349	Fault Analysis and Switchgear	4	2	6	30	70	25	150
EE360	Minor Project II	0	4	4	0	0	50	100
EE376-EE377	Programme Elective II	3	2	5	30	70	25	150
	Assignment Practices/Student counseling/Remedial classes/Library/Sports/Extra curricular & co curricular		4					
		18	14	36	175	375	200	950


Certified By:

[Minutes of 14th BoS Meeting 26/08/2017] 12

EE441	Power System Operations and Control	4	2	6	5	30	70	25	25	150
EE442	Power System Protection	4	2	6	5	30	70	25	25	150
EE443	Electrical Machine Design	4	4	8	6	30	70	25	25	150
EE444	Simulation Lab	0	2	2	1			50	50	100
EE450	Summer Internship II				3			75	75	100
EE471-EE473	Programme Elective III	4	2	6	5	30	70	25	25	150
	Assignment Practices/Student counseling/Remedial classes/Library/Sports/Extra curricular & co curricular			2						
		16	12	30	25	120	280	200	200	800
EE446	Commissioning and Testing of Electrical Equipment	4	2	6	5	30	70	25	25	150
EE447	Modeling and Control of Renewable Energy Sources	4	2	6	5	30	70	25	25	150
EE448	Major Project				9			250	250	500
EE476-EE478	Programme Elective IV	4	2	6	5	30	70	25	25	150
		12	6	18	24	90	210	325	325	950

Certified By:

[Minutes of 14th BoS Meeting 26/08/2017] 13


 REGISTRAR
 CHAROTAR UNIVERSITY OF SCIENCE AND TECHNOLOGY
 CHARUSAT CAMPUS, CHANGA

CHAROTAR UNIVERSITY OF SCIENCE & TECHNOLOGY (CHARUSAT)

		Hours		Credits		Marks	
		Theory	Practical	Total			
		137	78	264	192	1180	6700

LIST OF ELECTIVES FOR B TECH PROGRAMME IN ELECTRICAL ENGINEERING

Electives for Level 2

UNIVERSITY ELECTIVE 1		UNIVERSITY ELECTIVE 2	
EE281	Electrical Engineering Materials	EE282	Electrical Power Utilization and Traction

Electives for Level 3

PROGRAMME ELECTIVE 1		PROGRAMME ELECTIVE 2	
EE371	Advanced Microcontrollers	EE376	Special Electrical Machines and Applications
EE372	VLSI Technology and Design	EE377	Embedded Systems

Electives for Level 4

PROGRAMME ELECTIVE 3		PROGRAMME ELECTIVE 4	
EE471	Power Electronics Applications in Power System	EE476	Advances in power system
EE472	Communication Engineering	EE477	Internet of Things
EE473	High Voltage Engineering	EE478	Energy Conservation and Management

University Elective I & II: Occupational Health and Safety, IPR, Regulatory Affairs, Contract Management,

(Will be available in a Common Slot)

Energy Management, Research Methodology, Entrepreneurship, Project Management, First AID and Life Support

Risk Management, Disaster Management, Scientific Instrumentation & Measurement, Operation Research, Business Environment, Quality Assurance, Computer Programming, Numerical Analysis, Web Designing, Cyber Security etc

Certified By:


 REGISTRAR
 CHARUSAT UNIVERSITY OF SCIENCE AND TECHNOLOGY
 CHARUSAT CAMPUS, CHANGA

[Minutes of 14th BoS Meeting 26/08/2023]

Annexure:14. II TEACHING AND EXAMINATION SCHEME FOR M Tech in Electrical Engineering (Electrical Power Systems)
Entry year 2017

Sem	Course Code	Course Title	Teaching Scheme			Credit	Examination Scheme				Total
			Theory	Practical/Tutorial	Total		Theory		Practical		
							Internal	External	Internal	External	
Sem 1	EE741	Modeling & Simulation of Electrical Machines (PC - 1)	4	2	6	5	30	70	25	25	150
	EE742	Modern Power System Operations (PC - 2)	3	2	5	4	30	70	25	25	150
	EE743	Advanced Power Electronics in Power Systems (PC - 3)	3	2	5	4	30	70	25	25	150
	EE7XX	Programme Elective-1 (PE - 1)	3	2	5	4	30	70	25	25	150
	EE7XX	Programme Cluster Elective - 1 (CT - 1)	3	2	5	4	30	70	25	25	150
	XXXX	University Elective 1 (UE - 1)	2	0	2	2	30	70	0	0	100
	HSXXX	HSS Elective -1	2		2	2	30	70	0	0	100
			20	10	30	25	210	490	125	125	950

Sem	Course Code	Course Title	Teaching Scheme			Credit	Examination Scheme				Total
			Theory	Practical/Tutorial	Total		Theory		Practical		
							Internal	External	Internal	External	
Sem 2	EE744	Advanced Power System Dynamics & Stability (PC - 4)	4	2	6	5	30	70	25	25	150
	EE745	FACTS & HVDC Transmission (PC - 5)	3	2	5	4	30	70	25	25	150
	EE746	Advanced Power System Protection (PC - 6)	3	2	5	4	30	70	25	25	150
	EE7XX	Programme Elective - 2 (PE - 2)	3	2	5	4	30	70	25	25	150
	EE7XX	Programme Cluster Elective - 2 (CT - 2)	3	2	5	4	30	70	25	25	150
	HS705A	Academic Writing	0	2	2	2	0	0	0	30	70
	XXXX	University Elective 2 (UE - 2)	2	0	2	2	30	70	0	0	100
			18	12	30	25	180	420	155	195	950

[Minutes of 14th BoS Meeting 26/08/2017] 15

By: _____



 REGISTRAR
 CHAROTAR UNIVERSITY OF SCIENCE AND TECHNOLOGY
 CHARUSAT CAMPUS, CHANGA

Semester	Course Code	Course Title	Credit	Examination Scheme						
				Internal			External			Total
				Progress Report	Progress Seminar	Report	Seminar	Viva		
Sem 3	EE811	Project Preliminaries/Summer Industrial Training	4	50	50	0	50	50	200	
	EE812	Project Phase 1	18	100	100	100	100	100	500	
			22	150	150	100	150	150	700	
Sem 4	EE813	Project Phase 2	30	200	200	200	200	200	1000	
			30	200	200	200	200	200	1000	
		Grand Total	102						3600	

Programme Electives of Semester 1 and 2	
Programme Electives 1 (PE 1) for Semester 1	
EE761	Control System Engineering
EE762	Engineering Optimization Techniques
Programme Electives 2 (PE 2) for Semester 2	
EE763	Modeling and Simulation of Renewable Energy Sources
EE764	Distributed Generation and Smart Grid

Cluster Electives of Semester 1 and 2	
Cluster Electives 1 (CT 1) for Semester 1	
EE771	Digital Signal Processing & its Application
IT767	Micro device Programming
EC767	Embedded System Design
CE767	Operating System Design & Concepts
Cluster Electives 2 (CT 2) for Semester 2	
EE772	Restructuring & Deregulation of Power Systems
IT768	Applied Cryptography
EC768	Digital Image & Speech Processing
CE768	Software Project Management & Quality Assurance

Certified By:



 REGISTRAR
 CHAROTAR UNIVERSITY OF SCIENCE AND TECHNOLOGY
 CHARUSAT CAMPUS, CHANGA

University Electives of Semester 1 and 2

University Electives (UE 1) for Semester 1		University Electives (UE 2) for Semester 2	
MA771	Reliability and Risk Analysis	EE782	Energy Audit and Management
EE781	Optimization Techniques	CE771	Project Management
ME781	Occupational Health and Safety	IT771	Cyber Security and Laws
CE772	Research Methodology	CA 842	Mobile Application Development
CA730	Internet & Web Designing	PT796	Fitness & Nutrition
PT795	Health & Physical Activity	NR 752	Epidemiology and Community Health
NR 751	Women's Health	OC733	Introduction to Polymer Science
RD701	Introduction to Analytical Techniques	MB651	Software based Statistical Analysis
RD702	Introduction to Nanoscience & Technology	PH826	Intellectual Property Rights
MB650	Creative Leadership	MA772	Design of Experiments
PH825	Community Pharmacy Ownership		

HSS Elective for Semester 1	
HS701 A	Advance Critical Thinking and Logic
HS703.01 A	Languages (French/ German)
HS704 A	Academic Speaking

Certified By:


REGISTRAR
CHAROTAR UNIVERSITY OF SCIENCE AND TECHNOLOGY
CHARUSAT CAMPUS, CHANGA

Annexure:14 III TEACHING AND EXAMINATION SCHEME FOR M Tech in Electrical Engineering (Power Electronics)
Entry year July 2018

CHAROTAR UNIVERSITY OF SCIENCE AND TECHNOLOGY

CHOICE BASED CREDIT SYSTEM SCHEME (July 2018)

Semester	Course Code	Course Title	Teaching Scheme				Credit	Examination Scheme				Total
			Theory	Practical/ Tutorial	Total	Internal		Theory External	Practical		Total	
									Internal	External		
Sem 1	EE741	Modeling & Simulation of Electrical Machines (PC - 1)	4	2	6	5	30	70	25	25	150	
	EE743	Advanced Power Electronics in Power Systems (PC-2)	3	2	5	4	30	70	25	25	150	
	EE751	Power Electronics Devices and Circuits (PC - 3)	3	2	5	4	30	70	25	25	150	
	EE7XX	Programme Elective-1 (PE - 1)	3	2	5	4	30	70	25	25	150	
	EE7XX	Cluster Elective - 1 (CT - 1)	3	2	5	4	30	70	25	25	150	
	HSXXX	HSS Elective -1	2	0	2	2	30	70	0	0	100	
	XXXXX	University Elective 1 (UE - 1)	0	2	2	2	30	70	0	0	100	
				30	25					950		
Sem 2	EE745	FACTS & HVDC Transmission (PC-4)	3	2	5	4	30	70	25	25	150	
	EE756	Control of Electric Drives (PC - 5)	3	2	5	4	30	70	25	25	150	
	EE757	Advanced Power Electronics Converters (PC-6)	4	2	6	5	30	70	25	25	150	
	EE7XX	Programme Elective - 2 (PE - 2)	3	2	5	4	30	70	25	25	150	
	EE7XX	Cluster Elective - 2 (CT - 2)	3	2	5	4	30	70	25	25	150	
HS705A	Academic Writing	0							30	70	100	

Certified By:

[Minutes of 14th BoS Meeting 26/08/2017] 18

REGISTRAR

CHAROTAR UNIVERSITY OF SCIENCE AND TECHNOLOGY
CHARUSAT CAMPUS, CHANGA

XXXXXX	University Elective 2 (UE - 2)	2	0	2	2	30	70	0	0	100
				30	25					950

Programme Electives of Semester 1 and 2		Programme Electives 2 (PE 2) for Semester 2								
Programme Electives 1 (PE 1) for Semester 1										
EE766	Power Quality									
EE767	Digital Control Systems									
EE768	Power Electronics for Renewable Energy Sources									
EE769	Control of Special Electrical Machines									

Cluster Electives of Semester 1 and 2		Cluster Electives 2 (CT 2) for Semester 2								
Cluster Electives 1 (CT 1) for Semester 1										
EE771	Digital Signal Processing & its Application									
IT767	Micro device Programming									
EC767	Embedded System Design									
CE767	Operating System Design & Concepts									
EE772	Restructuring & Deregulation of Power Systems									
IT768	Applied Cryptography									
EC768	Digital Image & Speech Processing									
CE768	Software Project Management & Quality Assurance									

University Electives of Semester 1 and 2		University Electives (UE 2) for Semester 2								
University Electives (UE 1) for Semester 1										
MA771.01	Reliability and Risk Analysis									
EE781.01	Optimization Techniques									
ME781.01	Occupational Health and Safety									
CE772.01	Research Methodology									
CA730	Internet & Web Designing									
PT795.01	Health & Physical Activity									
NR 755	First Aid and Life Support									
		EE782.01 Energy Audit and Management								
		CE771.01 Project Management								
		IT771.01 Cyber Security and Laws								
		CA 842 Mobile Application Development								
		PT796.01 Fitness & Nutrition								
		NR 752.01 Epidemiology and Community Health								
		PT795.01 Introduction to Polymer Science								

[Minutes of 14th BoS Meeting 26/08/2017] 19

RD701.01	Introduction to Analytical Techniques	MB651	Software based Statistical Analysis
RD702.01	Introduction to Nanoscience & Technology	PH892	Intellectual Property Rights
MB650	Creative Leadership	MA772.01	Design of Experiments
PH891	Community Pharmacy Ownership		

HSS Elective for Semester I	
HS701 A	Advance Critical Thinking and Logic
HS703.01 A	Languages (French/ German)
HS704 A	Academic Speaking

Semester	Course Code	Course Title	Credit	Examination Scheme						Total
				Internal			External			
				Progress Report	Progress Seminar	Report	Seminar	Viva		
Sem 3	EE811	Project Preliminaries	4	50	50	0	50	50	50	200
	EE812	Project Phase 1	18	100	100	100	100	100	100	500
			22	150	150	100	150	150	150	700
Sem 4	EE813	Project Phase 2	30	200	200	200	200	200	200	1000
			30	200	200	200	200	200	200	1000
		Grand Total	102							3600

Certified By:


 REGISTRAR
 CHAROTAR UNIVERSITY OF SCIENCE AND TECHNOLOGY
 CHARUSAT CAMPUS, CHANGA

Annexure 14.VII Examiner Panel List for B. Tech and M. Tech Examination

Examiner Panel for Electrical Engineering (External Examiners)

Sr.No.	Examiner Name	Institute	Contact No	Email id
1	Dr. B.R.Parekh	BVM Engg. College	9879256663	bvp_bvm@yahoo.co.in
2	Dr. S.R.Joshi.	S.R Gandhi Engg. College,Surat.	9429265099	sanjayjoshi@gmail.com
3	Dr. Naran M Pindoriya	IIT Gandhinagar	8511673572	naran@iitgn.ac.in
4	Dr. S K Joshi	MSU	9427055862	skjoshi_59@yahoo.com
5	Dr. Vivek J Pandya	PDPU	9824225220	vivek.pandya@sot.pdpu.ac.in
6	Prof. N.G. Mishra	BVM Engg. College	9998284763	nidhish57@yahoo.co.in
7	Dr. B.R.Bhalja	IIT Roorkee	9639471375	bhaveshbhalja@gmail.com
8	Dr. C.D. Kotwal	SVIT Vasad	99099006055	chetan.kotwal@gmail.com
9	Kuman R Shidhapura	DarshanEng College	9427229262	kuman_vvp@yahoo.com
10	Nirav D karelia	OmsantiEng college	9924300789	nirav_karelia@yahoo.com
11	Alpesh S Adeshara	VVP	982585800	alpeshsays@yahoo.com
12	Chirag K Vibhakar	VVP	9173698555	chiragkvi@yahoo.co.in
13	Chirag N Jasani	OM SantiEng college	9898632410	chiragjasani@yahoo.com
14	Vineeta S. Chauhan	Indus University	9638251076	vineetachauhan.ee@iite.edu.in
15	KetanKadivar	Govt. Polytechnic, Morvi	9979445080	ketankadivar@gmail.com
16	C.V.Sheth	GCET	9879776483	dhruvraj1234@gmail.com
17	Ujjavalpatel	ADIT	9879879746	ujjaval58@rediffmail.com
18	BhaveshHindocha	GCET	9898852530	bhaveshhindocha@gcet.ac.in
19	JaydipBaria	B.V.M. Engg. College	9426839988	jbbaria@bvmengineering.ac.in
20	A. R. Patel	B.V.M. Engg. College	9879296030	ashish.patel@bvmengineering.ac.in
21	A.D. Joshi	L.D. Engg. College	9825288607	joshiashish22@yahoo.co.in
22	D.P. Maheshwari	L.D. Engg. College	9825797155	d_pmaheshwari@yahoo.co.in
23	Hitesh K. Mehta	S.C.E.T., Surat	9825726206	hitesh.mehta@sacet.ac.in
24	S B Patel	G H Patel College of Engg.	9879298992	patelsb_14@yahoo.co.in, sameerpatel@gcet.ac.in
25	Ritesh Patel	GCET	9429664064	r2patel@yahoo.com
26	Rakesh Patel	GCET	9375850177	rakeshmpatel@gcet.ac.in

[Minutes of 14th BoS Meeting 26/08/2017] 21


 REGISTRAR
 CHAROTAR UNIVERSITY OF SCIENCE AND TECHNOLOGY
 CHARUSAT CAMPUS, CHANGA

27	Ishaq A Sheikh	G H Patel College of Engg.	9427078457	ishaqsheikh@gcet.ac.in
28	Anil Navle	Vidyabharti Trust, Inst. Of Tech. & Research, Bardoli	9998973508	anil.navle@gmail.com
29	Dipesh M Patel	Babarua Inst. Of Tech.	9925369767	dipesh_ee@yahoo.co.in
30	Hiren Patel	Indus Inst. Of Tech.	9662020667	hirenpatel.ee@iite.edu.in
31	Dharita Patel	BVM Engg. College	9925365442	dharita@gmail.com
32	Megha Trivedi	SVIT	9428479867	mgtrivedi@yahoo.com
33	Anant H. Parmar	LDRP	9998216254	akki.vs@gmail.com
34	Gaurang Sharma	BVM Engg. College	9824918977	gksharma@bvmengineering.ac.in
35	BinduKansara	ADIT	9228875539	bindu_kansara@yahoo.co.in
36	NimishZaveri	CK Pithawala	9925024133	zaverinimish@yahoo.com
37	JenishMacwan	Nirma	9408479830	jenish.macwan@nirmauni.ac.in
38	Jasmin James	ICCT	9227134379	jasminajith@gmail.com
39	ParashModha	ADIT	9998567827	paresh312@gmail.com
40	TejasZaveri	C K Pitthawala, Surat	9909110232	zaveritejas@yahoo.com
41	Kothari Nishant	PDPU	9998174741	Nishant.Kothari@sot.pdpu.ac.in
42	FalgunThakkar	GCET, V. V. Nagar	9904355301	falgunthakkar@gcet.ac.in
43	Mukeshbhesaniya	GCET, V. V. Nagar	9429335875	mukeshbhesaniya@gcet.ac.in
44	Milind Trivedi	C K Pithawala	9824477044	milind.trivedi@ckpct.ac.in
45	Janak Patel	NIT Surat	9825964665	jjp@eed.svnit.ac.in
46	VirenPandya	LDCE	9377504840	virenpandya@gmail.com
47	JigneshBhatti	GP Himatnagar	9427355379	jigneshbhatti@indiatimes.com
48	Pragnesh H Shah	ADIT	9824842268	ee.praghesh.shah@adit.ac.in
48	Vijay Makawana	GCET	9825783644	vijaymakawana@gcet.ac.in
49	Dr. BhavikSuthar	LDCE	9428695543	bhavik.suthar@yahoo.co.in
50	TejasManiar	LDCE	9898439683	maniatejas@gmail.com
51	Bhuvnesh A Oza	PDPU	9723456236	bhuvnesh.oza@sot.pdpu.ac.in
52	Dr. KetanBadgujar	GEC Modasa	8153941900	ketan@gecmiodasa.org
53	Chintan Patel	GCET	9428089485	chintanpatel@gcet.ac.in
54	SnehaBhavsar	Navrachna	8128130132	s_bhavsar132@yahoo.co.in
55	MiteshAstik	ADIT	9624039278	miteshastik@yahoo.com
56	Manish Sinha	BVM	9427081017	manishsinha77@yahoo.co.in

Certified By

57	Manish Pandya	PIET Waghdia	9879698932	manishpandya25@yahoo.com
58	Dr. M.C.Chudasama	SS GEC Bhavnagar	9408967676	mahipalishinh.chudasama.5@facebook.com
59	Dr. S.N. Pandya	LDCE	9428498628	saunipandya@gmail.com
60	Dr. NileshChothani	ADIT	9426421425	chothani_nilesh@rediffmail.com
61	Dr. J J Patel	GCET	9586647501	jjpatelgcet@gmail.com
62	Ajay Patel	BVM	9426386858	ajaypatelp@yahoo.com
63	ShitalPujara	SVIT	9825707091	smpujara4@yahoo.co.in
64	TapanTrivedi	MarwadInst	9723093483	trivedi.tapan2007@gmail.com
65	PulinPurohit	PDPU	9574737182	puhin.purohit88@gmail.com
66	Dr J G Jammnani	PDPU	9824336397	ig.jammnani@sot.pdpu.ac.in
67	Vatsal Shah	PDPU	9033082442	vatsal.s@sot.pdpu.ac.in
68	Dr. Pimal R. Gandhi	SVIT, Vasad		pimalgandhi@gmail.com
69	Nilesh K. Jaiswal	SVIT, Vasad	9428465745	nkjaiswal_svit@yahoo.com
70	Nirali A. Rathod	SVIT, Vasad		nirali_ee@yahoo.co.in
71	Nilay N. Shah	SVIT, Vasad	9574704473	nilshah_svit@yahoo.com
72	Rakesh C. Gajjar	SVIT, Vasad		rc_engineer@yahoo.co.in
73	Surabhi Bhatnagar	SVIT, Vasad	9925018629	surabhi0706@gmail.com
74	Mulav P. Rathod	SVIT, Vasad		rathodmulav_er@yahoo.co.in
75	Nirav A. Chauhan	SVIT, Vasad	9428658638	niravachauhan@gmail.com
76	Heli A. Shah	Babaria Inst. Of Tech., Vadodara	0265-2303991	heligolwala@gmail.com
77	Amit V. Sant	P D PU, Gandhinagar	0265-2303991	amitysant@gmail.com
78	AmitaRathod	Babaria Inst. Of Tech., Vadodara	0265-2303991	Amita.rathod53@yahoo.in
79	KalpeshChudasama	ADIT, V V Nagar	9426505898	kjc_jalpan@yahoo.co.in
80	Brijesh Patel	ADIT, V V Nagar		bmp1412@gmail.com
81	ChandaniParmar	ADIT, V V Nagar	9898065624	chand_343@yahoo.co.in
82	Hardik R. Pathak	GCET, V V Nagar	9998040035	hardikpathak@gcet.ac.in
83	Mukesh M. Bhesaniya	GCET, V V Nagar	9429333875	mukeshbhesaniya@gcet.ac.in
84	Ankit P. Shahpatel	GCET, V V Nagar	9409402834	ankitshahpatel@gcet.ac.in
85	Manish B. Prajapati	SPEC, V V Nagar	9998017947	prajapatimanish04@gmail.com
86	Dr. ArchanaNanoty	DJMIT, Mogar	90999063481	principal@djmit.ac.in
87	Mr. Jigar Jain	DJMIT, Mogar	9998270521	jjjain85@gmail.com

Certified By

[Minutes of 14th BoS Meeting 26/08/2017] 23

88	Vipul Rajput	DJMIT, Mogar	9725851836	vipul.rajput@djmit.ac.in
89	Sarika S Kanojia	Nirma Institute of Technology, Ahmedabad	7930642408	sarika.kanojia@nirmauni.ac.in
90	Shanker Godwal	Nirma Institute of Technology, Ahmedabad	7930642408	shanker.godwal@nirmauni.ac.in
91	Dhara M. Mehta	Nirma Institute of Technology, Ahmedabad	7930642408	dhara.mehta@nirmauni.ac.in
92	Mr Siddharth Joshi	School of Technology (PDPU), Gandhinagar	9427729739	siddharth.joshi@sol.pdpu.ac.in
93	Mr. Kapildev N Arora	Parul Institute of Technology, Vadodara	7405527767	kapil.arora_31@yahoo.com
94	Mrs. Rital R Gajjar	Parul Institute of Technology, Vadodara	9427941055	ritu_engineer@yahoo.co.in
95	Shiv Kumar	Parul Institute of Engg & Technology, Vadodara	9099325288	sivakumar_veera@yahoo.com
96	Chintan Mehta	Nirma Institute of Technology, Ahmedabad	9824393292	chintan.mehta@nirmauni.ac.in
97	H D Mehta	L D College of Engineering	9879426925	hdm732000@yahoo.com
98	Mihir Shah	Nirma Institute of Technology, Ahmedabad	9687367687	mihir.shah@nirmauni.ac.in
99	Yogesh Prajapati	BVM Engg. College	9925044099	yrp_ee@yahoo.co.in
100	Ankit Prajapati	BIT, Vadodra	9925171781	ankit_elect27@yahoo.co.in
101	Kinjal Shah	VIER, Vadodara	9429953742	skinjal21@gmail.com
102	Divyesh Vaghela	Nirma Institute of Technology, Ahmedabad	9033437058	divyesh.vaghela@nirmauni.ac.in

Examiner Panel for Electrical Engineering (Internal Examiners)

Sr.No.	Examiner Name	Institute	Contact No	Email id
1	Dr. Pragnesh J Bhatt	CSPIT	9427339896	pragneshbhatt.ee@charusat.ac.in
2	Dr. Kartik S Pandya	CSPIT	9427856115	kartikpandya.ee@charusat.ac.in
3	Dr Bhinalkumar B Mehta	CSPIT	9427045058	bhinalmehta.ee@charusat.ac.in
4	Pankita A Mehta	CSPIT	9427857154	pankitamehta.ee@charusat.ac.in
5	Nilaykumar A Patel	CSPIT	9825548275	nilaypatel.cem@charusat.ac.in
6	Mihir A Bhatt	CSPIT	9913277673	mihirbhatt.ee@charusat.ac.in
7	Dipa J Kapupara	CSPIT	9537105568	dipakapupara.ee@charusat.ac.in
8	Maulik J Shah	CSPIT	9978441457	maulikshah.ee@charusat.ac.in
9	Jigar Sharda	CSPIT	9016418230	jigarsarda.ee@charusat.ac.in
10	Vibha Parmar	CSPIT	9426501707	vibharparmar.ee@charusat.ac.in

Certified By:

[Minutes of 14th BoS Meeting 26/08/2017] 24

11	Jivanadhar Joshi	CSPIT	9099896476	jivanjoshi.ee@ecchnaga.ac.in
12	SaiyadMahammadsoaib	CSPIT	9898204501	mahammadsoaibsayad.ee@charusat.ac.in
13	VineethaRavindran	CSPIT	9427406614	vineetharavindran.ee@charusat.ac.in
14	Pratik Mochi	CSPIT	9974916313	pratikmochi.ee@charusat.ac.in
15	Ankur Patel	CSPIT	9978782503	ankurpatel.ee@charusat.ac.in
16	Pratik Panchal	CSPIT	9429773733	pratikpanchal.ee@charusat.ac.in
17	Kamal Patel	CSPIT	9624796641	kamalpatel.ee@charusat.ac.in
18	KrishnakantKamble	CSPIT	9408156441	krishnakamble.ee@charusat.ac.in
19	JilSutaria	CSPIT	9537906897	jilsutaria.ee@charusat.ac.in
20	DharmeshDabhi	CSPIT	8000232103	dharmeshdabhi.ee@charusat.ac.in
21	Mihir R Patel	CSPIT	9723315488	mihirrpatel.ee@charusat.ac.in
22	Jignesh Patel	CSPIT	9978794997	jigneshpatel.ee@charusat.ac.in
23	Mihir Mehta	CSPIT	7405856957	mihirmehta.ee@charusat.ac.in
24	Rahul Soni	CSPIT	9601716689	rahulsoni.ee@charusat.ac.in

Certified By:



M&V Patel Department of Electrical Engineering
Faculty of Technology & Engineering, CHARUSAT
14th Board of Studies Meeting

Date : August 26, 2017, Saturday

Time : 10:00am onwards

Venue: Room No: 102, HOD (EE), CSPIT, CHARUSAT Campus

1	Dr. Praghnes Bhatt	Chairman;	Professor & Head, Department of Electrical Engineering,	PpBhatt
2	Dr. KartikPandya	Member;	Professor, Department of Electrical Engineering,	KP
3	Dr. Bhinal Mehta	Member;	Assistant Professor Department of Electrical Engineering,	Bhinal
4	Mr. Nilay Patel	Member;	Assistant Professor Department of Electrical Engineering,	NP
5	Mr. Maulik Shah	Member;	Assistant Professor Department of Electrical Engineering,	MS
6	Mr. Mhir Bhatt	Member;	Assistant Professor Department of Electrical Engineering,	MB
7	Mr. Jivanadhar Joshi	Member;	Assistant Professor, Department of Electrical Engineering,	JJ
8	Mr. Pratik Mochi	Member;	Assistant Professor, Department of Electrical Engineering,	PM
9	Dr. Sanjay R. Joshi	External Member;	Principal Government Engineering College, Valsad	SRJoshi
10	Dr. BhavikSuthar	External Member;	Associate Professor Government Engineering College, Modasa	BS
11	Dr. Santosh Vora	External Member;	Professor, Department of Electrical Engineering Nirma University, Ahmedabad	SV
12	Dr. Vijay Shah	External Member;	R&D Specialist, BU-PPMV, Vadodara	VShah
13	Mr. Kirat Pandya	External Member;	AGM, Schneider Electricals Ltd, Vadodara	KP
14	Mr. Sanjay Mahagaokar	External Member;	Dy General Manager Engineering and Technology, Rotomag Power Drives.	SM

Certified By:


 REGISTRAR
 CHAROTAR UNIVERSITY OF SCIENCE AND TECHNOLOGY
 CHARUSAT CAMPUS, CHANGA

Minutes –14-Ath Board of Studies Meeting
M&V Patel Department of Electrical Engineering
Faculty of Technology & Engineering, CHARUSAT

Date : July 28, 2018, Saturday

Time : 10:00 am onwards

Venue: Room No: 102, HOD (EE), CSPIT, CHARUSAT Campus

The 14th meeting of Board of Studies, M&V Patel Department of Electrical Engineering, Faculty of Technology and Engineering (FTE), Charotar University of Science and Technology (CHARUSAT) was held on 28/7/2018 at 10:00 am. at M&V Patel Department of Electrical Engineering, CSPIT, CHARUSAT Campus. Following members were present:

1	Mr. Nilay Patel	Chairman;	Assistant Professor & Head, Department of Electrical Engineering,	
2	Dr. Kartik Pandya	Member;	Professor, Department of Electrical Engineering,	
3	Mr. Maulik Shah	Member;	Assistant Professor Department of Electrical Engineering,	
4	Mr. Mhir Bhatt	Member;	Assistant Professor Department of Electrical Engineering,	
5	Mr. Jivanadhar Joshi	Member;	Assistant Professor, Department of Electrical Engineering,	
6	Mr. Pratik Mochi	Member;	Assistant Professor, Department of Electrical Engineering,	
7	Mr. Jigar S Sarda	Member;	Assistant Professor, Department of Electrical Engineering,	
8	Dr. Bhavik Suthar	External Member;	Professor, Government Engineering College, Bhuj	
9	Dr. Sanjay R. Joshi	External Member;	Principal Government Engineering College, Valsad	
10	Prof. P. K. Shah	External Member;	Professor LDRP, Modasa	
11	Dr. Santosh Vora	External Member;	Professor Department of Electrical Engineering Nirma University, Ahmedabad	

Certified By:


 REGISTRAR [Minutes of BoS Meeting 28/07/2018] Page 1 of 8
 CHAROTAR UNIVERSITY OF SCIENCE AND TECHNOLOGY
 CHARUSAT CAMPUS, CHANGA

Initiation:

Mr. Nilay Patel welcomed all the members of Board of Studies.

Agenda Proceedings & Resolutions:-

Item	To prepare and review the detailed syllabus of 4 th year B.TECH program under CBCS.																																												
14.01:	<p><u>Proceedings 14.01:</u></p> <p>The detailed syllabus of the courses for B Tech – 4th Year (7th and 8th Semesters) is reviewed.</p> <p>Suggestions Received:</p> <p><u>EE441: Power System Operations and Control</u></p> <table border="1"> <tr><td>1</td><td>Topics on State Estimation & Load forecasting should be incorporated.</td></tr> <tr><td>2</td><td>Syllabus is lengthy.</td></tr> <tr><td>3</td><td>Chapter of transients should be removed or modified</td></tr> <tr><td>4</td><td>Text books and reference books should be swapped.</td></tr> <tr><td>5</td><td>Year of the book can be removed as it seems to be old version of book.</td></tr> <tr><td>6</td><td>Voltage stability part can be removed.</td></tr> <tr><td>7</td><td>Add contingency analysis method</td></tr> <tr><td>8</td><td>Use B.R..Gupta as a text book</td></tr> </table> <p><u>EE442: Power System Protection</u></p> <table border="1"> <tr><td>1</td><td>Chapter 9 should be removed.</td></tr> <tr><td>2</td><td>16 hours of transmission can be reduced.</td></tr> <tr><td>3</td><td>Add Earthing of power system</td></tr> </table> <p><u>EE443: Electrical Machine Design</u></p> <table border="1"> <tr><td>1</td><td>DC machine design part can be reduced/removed.</td></tr> </table> <p><u>EE444: Simulation Lab</u></p> <table border="1"> <tr><td>1</td><td>Hours distribution modify</td></tr> <tr><td>2</td><td>20 hours are more.</td></tr> <tr><td>3</td><td>Keep basic experiments.</td></tr> <tr><td>4</td><td>Experiments of machine are tough for students.</td></tr> <tr><td>5</td><td>It should be "Suggested" list of experiment in syllabus booklet.</td></tr> <tr><td>6</td><td>Fault analysis experiments can be added.</td></tr> <tr><td>7</td><td>Linear equation solution can be added.</td></tr> <tr><td>8</td><td>Multiple faculties should be involved in framing the experiments and conducting lab.</td></tr> <tr><td>9</td><td>It should be kept simple for students.</td></tr> <tr><td>10</td><td>Numerical Methods, RLC series and Parallel operation and its Transients type Practical should be included.</td></tr> </table>	1	Topics on State Estimation & Load forecasting should be incorporated.	2	Syllabus is lengthy.	3	Chapter of transients should be removed or modified	4	Text books and reference books should be swapped.	5	Year of the book can be removed as it seems to be old version of book.	6	Voltage stability part can be removed.	7	Add contingency analysis method	8	Use B.R..Gupta as a text book	1	Chapter 9 should be removed.	2	16 hours of transmission can be reduced.	3	Add Earthing of power system	1	DC machine design part can be reduced/removed.	1	Hours distribution modify	2	20 hours are more.	3	Keep basic experiments.	4	Experiments of machine are tough for students.	5	It should be "Suggested" list of experiment in syllabus booklet.	6	Fault analysis experiments can be added.	7	Linear equation solution can be added.	8	Multiple faculties should be involved in framing the experiments and conducting lab.	9	It should be kept simple for students.	10	Numerical Methods, RLC series and Parallel operation and its Transients type Practical should be included.
1	Topics on State Estimation & Load forecasting should be incorporated.																																												
2	Syllabus is lengthy.																																												
3	Chapter of transients should be removed or modified																																												
4	Text books and reference books should be swapped.																																												
5	Year of the book can be removed as it seems to be old version of book.																																												
6	Voltage stability part can be removed.																																												
7	Add contingency analysis method																																												
8	Use B.R..Gupta as a text book																																												
1	Chapter 9 should be removed.																																												
2	16 hours of transmission can be reduced.																																												
3	Add Earthing of power system																																												
1	DC machine design part can be reduced/removed.																																												
1	Hours distribution modify																																												
2	20 hours are more.																																												
3	Keep basic experiments.																																												
4	Experiments of machine are tough for students.																																												
5	It should be "Suggested" list of experiment in syllabus booklet.																																												
6	Fault analysis experiments can be added.																																												
7	Linear equation solution can be added.																																												
8	Multiple faculties should be involved in framing the experiments and conducting lab.																																												
9	It should be kept simple for students.																																												
10	Numerical Methods, RLC series and Parallel operation and its Transients type Practical should be included.																																												

Certified By:

[Minutes of BoS Meeting 28/07/2018] Page 2 of 8


 REGISTRAR
 CHAROTAR UNIVERSITY OF SCIENCE AND TECHNOLOGY
 CHARUSAT CAMPUS, CHANGA

EE471: Power Electronics Applications in Power System (Programme Elective III)

1	Power quality can be removed. SSSC and UPFC can be removed.
2	Chapter 2 should be up to topic "converter transformer testing"
3	Problems in transmission line should be involved.

EE472: Communication Engineering (Programme Elective III)

1	Syllabus designed is fine
---	---------------------------

EE473: High Voltage Engineering (Programme Elective III)

1	Contents of chapter 07 can be reduced.
2	Remove power quality problems & standard chapter

EE446: Commissioning and Testing of Electrical Equipment

1	Syllabus is lengthy.
2	Chapter of DC machine can be removed.
3	Commissioning part should be more rather than testing.

EE447: Modeling and Control of Renewable Energy Sources

1	Name of the subject should be modified as Renewable Energy Sources and offer as elective subject
2	Content of Solar and Wind should be more.
3	Chapter 5 can be removed.
4	Course can be offered as programme elective .

EE448: Major Project

- 1 Project should be in line with innovation or today's' need.

EE450: Summer Internship II

- 1 On the same line of summer Internship-I, this course will follow.

EE476: Advances in Power System (Programme Elective IV)

1	Remove probabilistic power flow chapter
2	Add Restructuring in power system

EE477: Internet of Things (Programme Elective IV)

- 1 Syllabus designed is fine.

EE478: Energy Conservation and Management (Programme Elective IV)

Certified By:

[Minutes of BoS Meeting 28/07/2018] Page 3 of 8

	<p>1 No Comments</p> <p><u>Resolution 14.01:</u></p> <ul style="list-style-type: none"> The suggestions received from BoS members are incorporated and detailed syllabi / T & E Scheme for B Tech – 4th Year (7th and 8th Semesters) effective from 2019-2020 is approved and is attached in Annexure – I 								
Item 14.02	<p>To review and approve T&E scheme and syllabus for FY, SY and TY of B. Tech program for ACY 2018-2019 under Choice Based Credit System (CBCS).</p>								
	<p><u>Proceedings 14.02:</u></p> <p>The teaching and examination scheme of FY, SY and TY of B. Tech program for ACY 2018-2019 under Choice Based Credit System (CBCS) is reviewed.</p> <p>Suggestions Received:</p> <p>The second year university electives offered by electrical engineering department should be more in line with current scenario and it must be changed.</p> <p><u>EE283: Python for Electrical Engineering (University Elective I)</u></p> <table border="1"> <tr> <td>1</td> <td>Basics of python programming taught here.</td> </tr> <tr> <td>2</td> <td>Various problems can be solved using python programming.</td> </tr> </table> <p><u>EE286: Computer Programming for Electrical Engineering (University Elective I)</u></p> <table border="1"> <tr> <td>1</td> <td>MATLAB and other software introduced here to solve simple circuit.</td> </tr> <tr> <td>2</td> <td>Linear equations, non-linear equations, ODE and matrices should be solved by software.</td> </tr> </table> <p><u>Resolution 14.02:</u></p> <p>Above two courses introduce from AY 2018-19, remaining electives can be kept as it is.</p> <p>For the 2018 entry students, the first year and second year syllabus is reviewed and approved. Physics course PY141.01 is approved in respective BoS and introduced in first year. The T & E scheme is approved for third year and fourth year. It is decided that the total credit must be equal to 192. The T & E scheme for 2018 entry student is attached in Annexure – II</p>	1	Basics of python programming taught here.	2	Various problems can be solved using python programming.	1	MATLAB and other software introduced here to solve simple circuit.	2	Linear equations, non-linear equations, ODE and matrices should be solved by software.
1	Basics of python programming taught here.								
2	Various problems can be solved using python programming.								
1	MATLAB and other software introduced here to solve simple circuit.								
2	Linear equations, non-linear equations, ODE and matrices should be solved by software.								
Item 14.03	<p>To review and approve T&E scheme of M. Tech in Power Electronics for ACY 2018-2019 under CBCS</p>								
	<p><u>Proceedings 14.03:</u></p> <p>The teaching and examination scheme of M. Tech in Power Electronics for ACY 2018-2019 under CBCS is reviewed.</p> <p style="text-align: center;">Certified By:</p>								

	<p>Suggestions Received:</p> <ul style="list-style-type: none"> ▪ No Suggestion. It is already draft one year back and approved. Attached in Annexure – III
Item 14.04	To review T&E Scheme for existing M. Tech program under CBCS for any necessary changes
	<p>Proceedings 14.04:</p> <p>The teaching and examination scheme of M. Tech in EPS for ACY 2018-2019 under CBCS is reviewed.</p> <p>Suggestions Received:</p> <ul style="list-style-type: none"> ▪ No Suggestion. It is already draft one year back and approved. Attached in Annexure –IV
Item 14.05	<p>Proceedings 14.05:</p> <p>Discussion on effective implementation of Outcome Based Education (OBE) and ICT based Teaching-Learning</p> <p>Suggestions Received:</p> <ul style="list-style-type: none"> ▪ All faculty members must aware about each criteria defined by NBA. ▪ The proper understanding of mapping of POs, PEOs, COs and their assessment tools is required. ▪ Faculty contribution should be increased for publication, funded projects and consultancy. ▪ The usage of open course ware from NPTEL, MIT and BISAC must be increased.
Item 14.06	<p>Proceedings 14.06:</p> <p>Introducing the new UG program in Electrical Engineering</p> <p>Suggestions Received:</p> <p>Not needed right now.</p>
Item 14.07	<p>Proceedings 14.07:</p> <p>Discussion regarding approval from NBA and scope for the improvement</p> <p>All invited BoS members congratulated the University, Institute and Department for getting “A” graded from NAAC and KCG as well as for getting NBA for three departments.</p> <p>Suggestion received:</p> <p>Cadre ratio and student- teacher ratio along with research in department are most affected factors.</p>
Item 14.08	Proceedings 14.08 and 14.09:
14.08	To approve the syllabus of M Tech (Newly Introduced Programs)
14.09	<p>Resolution</p> <p>This agenda is duplicated as per agenda number 2 & 3</p>
Item 14.10	<p>Proceedings 14.10:</p> <p>To incorporate the revised syllabus of Mathematics and Physics in first year</p> <p>Resolution</p>

Certified By:

	The syllabus is already designed and passed in the respective BoS and added to FY syllabus.
Item 14.11	<u>Proceedings 14.11:</u> To implement summer internship in 3rd semester of B Tech (Same Credit, same Marks) <u>Resolution</u> It is not possible due to D2D students.
	<u>Other Agendas are discussed and listed in additional Items</u>

Additional Items

Sr. No	Agenda	Discussion/Suggestions
1	Review of Exam Question Papers	Question papers of internal and university examination have been reviewed. The briefings about the continuous evaluation, freedom for pedagogy selection for faculty and execution of the practical sessions have been given to external BoS members. The quality of question papers are found satisfactory, but it is suggested to increase the weightage on the questions that can increase the analytical and logical thinking ability of students. The question papers are as per blooms taxonomy. Annexure –V and VIII
2	Review of Result Analysis	The records of result analysis of both internal and university exam are maintained. The results of both the exams are generally discussed and analyzed in the department meeting as soon as the exam gets over and the necessary actions are decided. The YoY comparisons of the results are also discussed and the figures are acceptable. The efforts should be given to again improve the results at all levels. The conduction of the remedial coaching for weaker students has been appreciated by the members. Annexure –IX
3	Review of Placement Records	The campus placement of the student needs to be increased. More efforts are required to invite the companies for placement. The aptitude sessions organized for the students are appreciated. It is advised to keep extra technical session to prepare the students for technical skills. Annexure –X
4	Review of B. Tech and M. Tech Projects works	The project titles for B. Tech and M. Tech are reviewed and found satisfactory. It is suggested to give more emphasis on hardware based projects at B. Tech level. For M. Tech, the extensive use of licenses software may help the students to solve/reproduce the IEEE journal papers. Paper presentation for M. Tech students should be made compulsory.
5	Review of Feedback from Students, Identification of slow learners, Counseling activities	Review pattern for the students feedback and actions after the feedback have been explained. It is an useful component to improve the performance of teacher and T-L practices. The student counseling activities are very appreciated by all the members.
6	Approval of Examiners'	The examiners panels for B. Tech and M. Tech have been reviewed and approved. The approved examiner panel is attached in Annexure VII.

Certified By: [Minutes of BoS Meeting 28/07/2018] Page 6 of 8


 REGISTRAR
 CHAROTAR UNIVERSITY OF SCIENCE AND TECHNOLOGY
 CHARUSAT CAMPUS, CHANGA

	Panel	
7	Admissions	As per the experts, the Electrical branch interest is not reduced, but the interest towards CE/IT branch is increased, Hence Electrical Branch has to suffer for a complete one cycle.
8.	Audit Course	Electrical students can be offered audit course from CE/IT on IoT. Also Electrical department should offer audit course on arduino. Apart from the regular teaching, by audit course, social activities and by taking parts in sports and co/extra-curricular activities, the holistic development of student will be possible.
9.	Sports, Cultural and Social activities.	The students are encouraged to take part in national and international level sports events. With social activities the bonding and trust with society and CHARUSAT will increase. At least one week cultural programme to be organized by institute.
10.	Quality of research in dissertation and PhD.	For PhD it is essential to publish at least to research papers in scopus indexed journals, hence Quality will be there in research work.
11.	Research Papers and Research funding	Each faculty must publish at least two papers in high impact factor journal. By this the CV of the faulty become strengthen, hence chances of getting grants will increase. More efforts will be put to fetch the research grants. All the faculties are aware about funding agencies.
12.	NPTEL Course	Now as per AICTE, NPTEL Course will be considered as FDP and according to that API point given to faculty.
13.	Innovation in Pedagogy	The educational goal must be discussed by student and teacher and according to that, A common strategies for class must be made and according to individual student's knowledge, individual strategies should be explained to each student. Learning while doing is best pedagogy.
14	Quality in Education and World Class Universities	By quality consultancy work, more practical knowledge and time-on-task learning strategy accelerates the quality education and movement towards the world class universities.
15	Outcome Based Education and Road-map 2023	The outcome of each course and program must be monitored effectively. If required outcome doesn't achieve in students, more quality efforts must be made. The main focus of road-map 2013 is, placement of eligible students must be reach up to 100%. Annexure –VI
16.	Innovative Projects	The BoS members appreciated the department projects. The capacity of the department must be showcased to industry people.

Faculty Board Meeting:

Faculty board meeting was held at conference room, DEPSTAR College.

The inputs given by expert of electrical field are as under.

1. Right now the interest of students are towards the computer related branch, hence the number of students in the electrical or other branch are less.

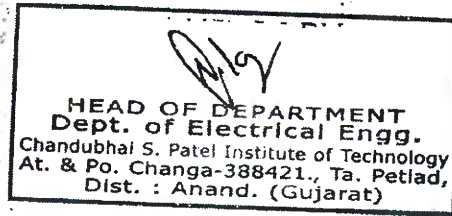
Certified By:

[Minutes of BoS Meeting 28/07/2018] Page 7 of 8


 REGISTRAR
 CHAROTAR UNIVERSITY OF SCIENCE AND TECHNOLOGY
 CHARUSAT CAMPUS, CHANGA

2. Day by day the students in A group of 12th standards are decreasing due to lack of interest in mathematics subject. So students must be motivated to take interest in maths subject right from school level.
3. Experts gave their opinion that, each branch has its cycle depending on market scenario. So within two years, again the interest of students towards the core branch will increase.

Mr. Nilay A. Patel
Chairman
Board of Studies (EE)



Certified By:



REGISTRAR
CHAROTAR UNIVERSITY OF SCIENCE AND TECHNOLOGY
CHARUSAT CAMPUS, CHANGA


Annexure I: TEACHING & EXAMINATION SCHEME FOR B TECH PROGRAMME IN ELECTRICAL ENGINEERING (CBCS) Entry Year: 2016

CHAROTAR UNIVERSITY OF SCIENCE & TECHNOLOGY (CHARUSAT)

TEACHING & EXAMINATION SCHEME FOR B TECH PROGRAMME IN ELECTRICAL ENGINEERING (CBCS) Entry Year: 2016

Level	Course Code	Course Title	Teaching Scheme			Credit	Examination Scheme				Total
			Contact Hours		Theory		Theory		Practical		
			Theory	Practical/Tutorial			Total	Internal	External	Internal	
Level 1	HS101A- HS106A	A Course on Liberal Arts		2	2	2			50	50	100
	MA141	Engineering Mathematics I	4	1 (T)	4	30	70				100
	ME141	Engineering Graphics	2	4	6	30	70	50	50	200	
	PY141	Engineering Physics	3	2	5	30	70	25	25	150	
	CL141	Engineering Mechanics	4	2	6	30	70	25	25	150	
	ME142	Workshop Practices	0	2	2			25	25	50	
		Assignment Practices/Student counseling/Remedial classes/Library/Sports/Extra - curricular &co curricular			11						
					36	20					750
	HS 121A	English Language and Literature	1	1	2	25	25	25	25	100	
	MA142	Engineering Mathematics II	4	1 (T)	4	30	70			100	
	CL142	Environmental Science	2		2	30	70			100	
	IT141	Fundamentals of Computer Programming	3	2	5	30	70	25	25	150	
	ME143	Basics of Civil & Mechanical Engineering	4	2	6	30	70	25	25	150	
EE141	Basics of Electronics & Electrical Engineering	4	2	6	30	70	25	25	150		
	Assignment Practices/Student counseling/Remedial classes/Library/Sports/Extra - curricular & co curricular			11							
				36	22					750	

Certified By:



REGISTRAR
CHAROTAR UNIVERSITY OF SCIENCE AND TECHNOLOGY
CHARUSAT CAMPUS, CHANGA

HS122A/HS131A	Values and Ethics/Philosophy	2		2	2	30	70			100
MA241	Engineering Mathematics III	4		4	4	30	70			100
EE241	Analog and Digital Electronics	4	2	6	5	30	70	25	25	150
EE242	Circuit Theory	4	2	6	5	30	70	25	25	150
EE243	Electrical Measurements and Industrial Instrumentation	4	2	6	5	30	70	25	25	150
XXXX	University Elective- I		2	2	2	30-70				100
	Assignment Practices/Student counseling/Remedial classes/Library/Sports/Extra- curricular & co curricular			10						
				36	23					750
HS123.01A/ HS 127.01A/ HS133A	Critical Thinking and Logic/ Communication skills 2/ Creativity, Problem Solving and Innovation		2	2	2	30-70				100
EE244	Electrical Power Generation and its Economics	4		4	4	30	70			100
EE245	Control Systems	4	2	6	5	30	70	25	25	150
EE246	Microprocessor & Microcontrollers	4	2	6	5	30	70	25	25	150
EE247	Transformers and Induction Machines	4	4	8	6	30	70	50	50	200
XXXX	University Elective- II		2	2	2	30-70				100
	Assignment Practices/Student counseling/Remedial classes/Library/Sports /Extra- curricular & co-curricular			8						
		Certified By:		36	24					800

HS124.01A	Professional Communication		2	2	2	2	30	70	100
EE341	Electrical Power Transmission and Distribution	4		4	4	30	70		100
EE342	Synchronous and DC Machines	4	4	8	6	30	50	50	200
EE343	Power Electronics & Drives I	4	2	6	5	30	70	25	150
EE344	Minor Project I	0	4	4	2			50	100
EE345	Electrical Product Survey	0	2	2	2			50	100
EE371-EE372	Programme Elective I	4	2	6	5	30	70	25	150
EE350	Summer Internship I	0	0	0	3			75	150
	Assignment Practices/ Student counseling/ Remedial classes/ Library/ Sports/ Extra- curricular & co curricular			4					
				36	29				1050
HS134A	Contributor Personality Development		2	2	2			30	70
EE346	Digital Signal Processing	3	2	5	4	30	70	25	150
EE347	Programmable Logic Controllers and Industrial Automation	2	4	6	4	30	70	50	200
EE348	Power Electronics & Drives II	3	2	5	4	30	70	25	150
EE349	Fault Analysis and Switchgear	4	2	6	5	30	70	25	150
EE360	Minor Project II	0	4	4	2			50	100
EE376-EE377	Programme Elective II	3	2	5	4	30	70	25	150
	Assignment Practices/Student counseling/Remedial classes/Library/Sports/Extra- curricular & co curricular			3					
			Certified By:	36	25				1000

Level 3


 REGISTRAR
 CHAROTAR UNIVERSITY OF SCIENCE AND TECHNOLOGY
 CHARUSAT CAMPUS, CHANGA

EE441	Power System Operations and Control	4	2	6	5	30	70	25	25	150
EE442	Power System Protection	4	2	6	5	30	70	25	25	150
EE443	Electrical Machine Design	4	2	6	5	30	70	25	25	150
EE444	Simulation Lab	0	4	4	2			50	50	100
EE450	Summer Internship				3			75	75	150
EE471-EE473	Programme Elective III	4	2	6	5	30	70	25	25	150
	Assignment Practices/Student counseling/Remedial classes/Library/Sports/Extra-curricular & co curricular			8						
				36	25					850
EE446	Commissioning and Testing of Electrical Equipment	4	2	6	5	30	70	25	25	150
EE447	Modeling and Control of Renewable Energy Sources	4	2	6	5	30	70	25	25	150
EE448	Major Project			18	9			250	250	500
EE476-EE478	Programme Elective IV	4	2	6	5	30	70	25	25	150
				36	27	90	210	325	325	950

Level 4

Certified By:


 REGISTRAR
 CHAROTAR UNIVERSITY OF SCIENCE AND TECHNOLOGY
 CHARUSAT CAMPUS, CHANGA

CHAROTAR UNIVERSITY OF SCIENCE & TECHNOLOGY (CHARUSAT)					
Hours			Credits	Marks	
	Theory	Practical	Total		
			288	192	6900
LIST OF ELECTIVES FOR B TECH PROGRAMME IN ELECTRICAL ENGINEERING					

University Electives for Level 2

University Elective 1

University Elective 2

EE281	Electrical Engineering Materials	EE282	Electrical Power Utilisation and Traction
-------	----------------------------------	-------	---

Electives for Level 3

	PROGRAMME ELECTIVE 1		PROGRAMME ELECTIVE 2
EE371	Advanced Microcontrollers	EE376	Special Electrical Machines and Applications
EE372	VLSI Technology & Design	EE377	Embedded Systems

Electives for Level 4

	PROGRAMME ELECTIVE 3		PROGRAMME ELECTIVE 4
EE471	Power Electronics Applications in Power System	EE476	Advances in Power System
EE472	Communication Engineering	EE477	Internet of Things
EE473	High Voltage Engineering	EE478	Energy Conservation and Management

University Elective I & II: Occupational Health and Safety, IPR, Regulatory Affairs, Contract Management,

(Will be available in a Common Slot)


Energy Management, Research Methodology, Entrepreneurship, Project Management, First Aid and Life Support

Risk Management, Disaster Management, Scientific Instrumentation & Measurement, Operation Research,

Business Environment, Quality Assurance, Computer Programming, Numerical Analysis, Web Designing, Cyber Security etc

Certified By:


 REGISTRAR
 CHAROTAR UNIVERSITY OF SCIENCE AND TECHNOLOGY
 CHARUSAT CAMPUS, CHANGA





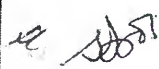
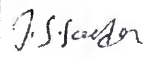
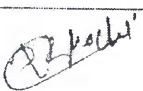





 REGISTRAR
 CHAROTAR UNIVERSITY OF SCIENCE AND TECHNOLOGY
 CHARUSAT CAMPUS, CHANGA

M&V Patel Department of Electrical Engineering
Faculty of Technology & Engineering, CHARUSAT
14th Board of Studies Meeting

Date : July 28, 2018, Saturday

Time : 10:00 am onwards

Venue: Room No: 102, HOD (EE), CSPIT, CHARUSAT Campus

1	Mr. Nilay Patel	Chairman;	Assistant Professor & Head, Department of Electrical Engineering,	
2	Dr. Kartik Pandya	Member;	Professor, Department of Electrical Engineering,	
3	Mr. Maulik Shah	Member;	Assistant Professor Department of Electrical Engineering,	
4	Mr. Mhir Bhatt	Member;	Assistant Professor Department of Electrical Engineering,	
	Mr. Jivanadhar Joshi	Member;	Assistant Professor Department of Electrical Engineering,	
6	Mr. Jigar Sarda	Member;	Assistant Professor Department of Electrical Engineering,	
7	Mr. Pratik Mochi	Member;	Assistant Professor, Department of Electrical Engineering,	
8	Dr. Sanjay R. Joshi	External Member;	Principal Government Engineering College, Valsad	
9	Dr. Bhavik Suthar	External Member;	Principal Professor in EE Government Engineering College, bhuj	
10	Dr. Santosh Vora	External Member;	Professor Department of Electrical Engineering Nirma University, Ahmedabad	
11	Mr. Sanjay Mahagaokar	External Member;	Dy General Manager Engineering and Technology, Rotomag Power Drives. Napa Talpad.	
12	Prof. Prakash K. Shah	External Member;	Professor Department of Electrical Engineering LDRP, Ahmedabad	

Certified By:


REGISTRAR
CHAROTAR UNIVERSITY OF SCIENCE AND TECHNOLOGY
CHARUSAT CAMPUS, CHANGA

M & V Patel Department of Electrical Engineering

Analysis Report of Feedback Received from different Stack Holders

For the AY 2016-17

Students:

All of the students gave the positive feedback about the curriculum. Most of the students had tick mark on very good, Excellent or outstanding column. Very few student tick mark for either average or good column.

Most of students like the inclusion of Advanced level subject, more practical knowledge, communication subjects in curriculum. They are satisfied and happy with the educational goals included in curriculum. Major number of students wanted the increase in placement activity.

Alumni:

Alumni gave the positive feedback about the curriculum. Most of the students are happy with curriculum.

Experts from Academia:

Expert from other institutes and own institute tick in great column in feedback form. All aspects to develop technical skill are taken care. Very well developed curriculum but still there is scope of improvement.

Some of the faculties have given suggestions to include more courses on Renewable energy and Electric Vehicle, full time training can be included in final year, to offer short programs, courses related applications of AI and ML techniques for solving problems of EE.

Experts from Industry:

Expert from industry are satisfy with the curriculum. However, they have suggested to increase time for project.

PrBhatt
HEAD OF DEPARTMENT
Dept. of Electrical Engg.
Chandubhai S. Patel Institute of Technology
At. & Po. Changa-388421., Ta. Petlad,
Dist. : Anand. (Gujarat)

Certified By:


REGISTRAR
CHAROTAR UNIVERSITY OF SCIENCE AND TECHNOLOGY
CHARUSAT CAMPUS, CHANGA