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# M & V Patel Department of Electrical Engineering

## Analysis Report of Feedback Received from different Stack Holders

## For the AY 2019-20

**Students:**

All of the students gave the positive feedback about the curriculum. Inclusion of software and industrial visit seems attractive to students.

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.

**Parents:**

From the feedback of parents, it is observed that parents are very happy with curriculum. They found the good career opportunity from well-designed curriculum. Parents want continuous evaluation process.

**Alumni:**

The conclusion of alumni feedback is to incorporate the recent trends and give more weightage and time to final year project in 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.

**Industry / Employer:**

The industry people had appreciated the inclusion of Software simulation and communication course in curriculum. They gave feedback on "Great" column.

**Certified By:**

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Dept. of Electrical Engg.
Chandubhai S. Patel Institute of Technology
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# M & V Patel Department of Electrical Engineering

## Action taken report on the feedbacks received from different Stack Holders

## For the AY 2019-20

The summary of the feedback and suggestions received from the stakeholder and corresponding action taken for AY 2019-20 is as below.

| Sr. No. | Suggestion Received | Action Taken | Annexure Page No. |
|---|---|---|---|
| 1. | Minor Specialization should be included. | Minor Specialization on "Artificial Intelligence and Machine Learning" is implemented from AY 2020-21. Minor Specialization on "Electrical Vehicle Systems" will be implemented from AY 2021-22. | 20,21 |
| 2. | Full time final year project for long duration. | Final year project credit and time are revised in Board of Studies meeting held on 28/07/2018. For 2019 Entry Batch Full 8th semester Project has been Introduced. | 3,12 |
| 3. | Increase the placement and number of companies. | More companies have invited for campus placement by increasing relation with companies. | 18,39,37 |
| 4. | Preparatory sessions need to be arranged for increasing the placement numbers. | Mock interviews for placements are arranged. | 38,39 |
| 5. | AI and Electrical Vehicles courses need to be inclided. | New elective courses are introduced | 19,20,28 |

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# Minutes –14-A$^{th}$ 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 14$^{th}$ 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,<br>Department of Electrical Engineering, | |
| 2 | Dr. Kartik Pandya | **Member;** | Professor,<br>Department of Electrical Engineering, | |
| 3 | Mr. Maulik Shah | **Member;** | Assistant Professor<br>Department of Electrical Engineering, | |
| 4 | Mr. Mhir Bhatt | **Member;** | Assistant Professor<br>Department of Electrical Engineering, | |
| 5 | Mr. Jivanadhar Joshi | **Member;** | Assistant Professor,<br>Department of Electrical Engineering, | |
| 6 | Mr. Pratik Mochi | **Member;** | Assistant Professor,<br>Department of Electrical Engineering, | |
| 7 | Mr. Jigar S Sarda | **Member;** | Assistant Professor,<br>Department of Electrical Engineering, | |
| 8 | Dr. Bhavik Suthar | **External Member;** | Professor,<br>Government Engineering College, Bhuj | |
| 9 | Dr. Sanjay R. Joshi | **External Member;** | Principal<br>Government Engineering College, Valsad | |
| 10 | Prof. P. K. Shah | **External Member;** | Professor<br>LDRP, Modasa | |
| 11 | Dr. Santosh Vora | **External Member;** | Professor<br>Department of Electrical Engineering<br>Nirma University, Ahmedabad | |

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**Initiation:**

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

**Agenda Proceedings & Resolutions:-**

| | |
|---|---|
| **Item 14.01:** | To prepare and review the detailed syllabus of 4th year B.TECH program under CBCS. |

**Proceedings 14.01:**

The detailed syllabus of the courses for B Tech – 4th Year (7th and 8th Semesters) is reviewed.

**Suggestions Received:**

**EE441: Power System Operations and Control**

| | |
|---|---|
| 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 |

**EE442: Power System Protection**

| | |
|---|---|
| 1 | Chapter 9 should be removed. |
| 2 | 16 hours of transmission can be reduced. |
| 3 | Add Earthing of power system |

**EE443: Electrical Machine Design**

| | |
|---|---|
| 1 | DC machine design part can be reduced/removed. |

**EE444: Simulation Lab**

| | |
|---|---|
| 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. |

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**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)**



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| | |
|---|---|
| | 1 No Comments<br><br>**Resolution 14.01:**<br>▪ 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** | 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). |
| | **Proceedings 14.02:**<br>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.<br>**Suggestions Received:**<br>The second year university electives offered by electrical engineering department should be more in line with current scenario and it must be changed.<br>**EE283: Python for Electrical Engineering (University Elective I)**<br>1 Basics of python programming taught here.<br>2 Various problems can be solved using python programming.<br><br>**EE286: Computer Programming for Electrical Engineering (University Elective I)**<br>1 MATLAB and other software introduced here to solve simple circuit.<br>2 Linear equations, non-linear equations, ODE and matrices should be solved by software.<br><br>**Resolution 14.02:**<br>Above two courses introduce from AY 2018-19, remaining electives can be kept as it is.<br>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** |
| **Item 14.03** | To review and approve T&E scheme of M. Tech in Power Electronics for ACY 2018-2019 under CBCS |
| | **Proceedings 14.03:**<br>The teaching and examination scheme of M. Tech in Power Electronics for ACY 2018-2019 under CBCS is reviewed. |

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| | |
|---|---|
| | **Suggestions Received:**<br>▪ 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 |
| | **Proceedings 14.04:**<br>The teaching and examination scheme of M. Tech in EPS for ACY 2018-2019 under CBCS is reviewed.<br>**Suggestions Received:**<br>▪ No Suggestion. It is already draft one year back and approved. Attached in **Annexure –IV** |
| **Item 14.05** | **Proceedings 14.05:**<br>Discussion on effective implementation of Outcome Based Education (OBE) and ICT based Teaching-Learning |
| | **Suggestions Received:**<br>▪ All faculty members must aware about each criteria defined by NBA.<br>▪ The proper understanding of mapping of POs, PEOs, COs and their assessment tools is required.<br>▪ Faculty contribution should be increased for publication, funded projects and consultancy.<br>▪ The usage of open course ware from NPTEL, MIT and BISAC must be increased. |
| **Item 14.06** | **Proceedings 14.06:**<br>Introducing the new UG program in Electrical Engineering |
| | **Suggestions Received:**<br>Not needed right now. |
| **Item 14.07** | **Proceedings 14.07:**<br>Discussion regarding 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.<br><br>**Suggestion received:**<br>Cadre ratio and student- teacher ratio along with research in department are most affected factors. |
| **Item 14.08 14.09** | **Proceedings 14.08 and 14.09:**<br>To approve the syllabus of M Tech (Newly Introduced Programs)<br>**Resolution**<br>This agenda is duplicated as per agenda number 2 & 3 |
| **Item 14.10** | **Proceedings 14.10:**<br>To incorporate the revised syllabus of Mathematics and Physics in first year<br>**Resolution** |

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

**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 weighatge 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.** |



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| | 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 pert 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.

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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 f students towards the core branch will increase.

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

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14A

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

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| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | 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** |
| | XXXXX | 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** |
| **Level 2** | 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** |
| | XXXXX | University Elective- II | 2 | | 2 | 2 | 30-70 | | | | **100** |
| | Assignment Practices/Student counseling/Remedial classes/Library/Sports /Extra- curricular & co-curricular | | | | 8 | | | | | | |
| | | | | | **36** | **24** | | | | | **800** |

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| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | 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 | 6 | 30 | 70 | 50 | 50 | **200** |
| | EE343 | Power Electronics & Drives I | 4 | 2 | 6 | 5 | 30 | 70 | 25 | 25 | **150** |
| | EE344 | Minor Project I | 0 | 4 | 4 | 2 | | | 50 | 50 | **100** |
| | EE345 | Electrical Product Survey | 0 | 2 | 2 | 2 | | | 50 | 50 | **100** |
| | EE371-EE372 | Programme Elective I | 4 | 2 | 6 | 5 | 30 | 70 | 25 | 25 | **150** |
| | EE350 | Summer Internship I | 0 | 0 | 0 | 3 | | | 75 | 75 | **150** |
| | Assignment Practices/ Student counseling/ Remedial classes/ Library/ Sports/ Extra- curricular & co curricular | | | | 4 | | | | | | |
| **Level 3** | | | | | **36** | **29** | | | | | **1050** |
| | HS134A | Contributor Personality Development | | 2 | 2 | 2 | | | 30 | 70 | **100** |
| | EE346 | Digital Signal Processing | 3 | 2 | 5 | 4 | 30 | 70 | 25 | 25 | **150** |
| | EE347 | Programmable Logic Controllers and Industrial Automation | 2 | 4 | 6 | 4 | 30 | 70 | 50 | 50 | **200** |
| | EE348 | Power Electronics & Drives II | 3 | 2 | 5 | 4 | 30 | 70 | 25 | 25 | **150** |
| | EE349 | Fault Analysis and Switchgear | 4 | 2 | 6 | 5 | 30 | 70 | 25 | 25 | **150** |
| | EE360 | Minor Project II | 0 | 4 | 4 | 2 | | | 50 | 50 | **100** |
| | EE376-EE377 | Programme Elective II | 3 | 2 | 5 | 4 | 30 | 70 | 25 | 25 | **150** |
| | Assignment Practices/Student counseling/Remedial classes/Library/Sports/Extra- curricular & co curricular | | | | 3 | | | | | | |
| | | | | | **36** | **25** | | | | | **1000** |

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| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | 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 II | | | | 3 | | | 75 | 75 | **150** |
| | EE471-EE473 | Programme Elective III | 4 | 2 | 6 | 5 | 30 | 70 | 25 | 25 | **150** |
| **Level 4** | 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** |
| | | | | | | | | | | | |

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| 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:**

(Will be available in a Common Slot)

**Occupational Health and Safety, IPR, Regulatory Affairs, Contract Management,**

**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**

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# 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,<br>Department of Electrical Engineering, | |
| 2 | Dr. Kartik Pandya | **Member;** | Professor,<br>Department of Electrical Engineering, | |
| 3 | Mr. Maulik Shah | **Member;** | Assistant Professor<br>Department of Electrical Engineering, | |
| 4 | Mr. Mhir Bhatt | **Member;** | Assistant Professor<br>Department of Electrical Engineering, | |
| 5 | Mr. Jivanadhar Joshi | **Member;** | Assistant Professor<br>Department of Electrical Engineering, | |
| 6 | Mr. Jigar Sarda | **Member;** | Assistant Professor<br>Department of Electrical Engineering, | |
| 7 | Mr. Pratik Mochi | **Member;** | Assistant Professor,<br>Department of Electrical Engineering, | |
| 8 | Dr. Sanjay R. Joshi | **External Member;** | Principal<br>Government Engineering College, Valsad | |
| 9 | Dr. Bhavik Suthar | **External Member;** | ~~Principal~~ Professor in EE<br>Government Engineering College, bhuj | |
| 10 | Dr. Santosh Vora | **External Member;** | Professor<br>Department of Electrical Engineering<br>Nirma University, Ahmedabad | |
| 11 | Mr. Sanjay Mahagaokar | **External Member;** | Dy General Manager<br>Engineering and Technology, Rotomag Power Drives.<br>Napa Talpad. | |
| 12 | Prof. Prakash K. Shah | **External Member;** | Professor<br>Department of Electrical Engineering<br>LDRP, Ahmedabad | |

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# Minutes –16th Board of Studies Meeting
# M&V Patel Department of Electrical Engineering
# Faculty of Technology & Engineering, CHARUSAT

**Date : July 04, 2020, Saturday**
**Time : 10:00 am onwards**
**Venue: Online (Google Meet Platform)**

The 16th 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 04/07/2020 at 10:00 am. On online platform. Following members were present:

| | | | |
|---|---|---|---|
| 1 | Dr. Nilay Patel | **Chairman;** | Assistant Professor & Head,<br>Department of Electrical Engineering, |
| 2 | Dr. Kartik Pandya | **Member;** | Professor,<br>Department of Electrical Engineering, |
| 3 | Mr. Maulik Shah | **Member;** | Assistant Professor<br>Department of Electrical Engineering, |
| 4 | Mr. Mhir Bhatt | **Member;** | Assistant Professor<br>Department of Electrical Engineering, |
| 5 | Mr. Jivanadhar Joshi | **Member;** | Assistant Professor,<br>Department of Electrical Engineering, |
| 6 | Mr. Soaib Saiyad | **Member;** | Assistant Professor,<br>Department of Electrical Engineering, |
| 7 | Mr. Jigar S Sarda | **Invitee Member;** | Assistant Professor,<br>Department of Electrical Engineering, |
| 8 | Dr. Praghnesh Bhatt | **External Member;** | Associate Professor,<br>SoT, PDPU, Gandhinagar |
| 9 | Dr. Naran Pindoriya | **External Member;** | Associate Professor,<br>IIT, Gandhinagar. |
| 10 | Dr. Vijay K Shah | **External Member;** | Vice President, Senior Principal Engineer-Electrification Business.<br>ABB India Ltd, Vadodara |
| 11 | Dr. Santosh Vora | **External Member;** | Professor<br>Department of Electrical Engineering<br>Nirma University, Ahmedabad |
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Dr. Nilay Patel welcomed all the members of Board of Studies. The minutes of the 15th Board of Studies meeting held on August 31, 2019 was summarized.

**Agenda Proceedings & Resolutions: -**

| | |
|---|---|
| **Item 16.01** | To review and approve the Teaching & Examination scheme for B. Tech. and detailed syllabus of 5th and 6th semesters (Third Year) B. Tech. (CBCS) for Electrical Engineering, applicable for 2019-20 (Admission) Batch. (Total 176 credits) |
| | **Proceedings 16.01:**<br>The teaching and examination scheme for all the semesters of B. Tech. CBCS courses effective from July- 2019 under Choice Based Credit System (CBCS) is prepared and reviewed.<br>Following Revisions in B Tech programme are proposed.<br>▪ In 2nd year, there is no change in teaching and evaluation scheme decided in last BoS for AY2020-21, except HSS and Mathematics courses.<br>▪ Courses for B Tach Third year syllabus (July 2019 Entry) are discussed and finalized.<br>▪ In 2nd year, following one additional university elective courses are introduced for B Tech effective from AY2020-21.<br>CL283: SDG Handprint Laboratory (For UG Semester-3)<br>**Resolution 16.01:**<br>The suggestions received from BoS members are incorporated and T & E Scheme for B Tech July 2019 Intake is approved and is attached in **Annexure – I** |
| **Item 16.02** | To review and approve Teaching and Examination scheme and syllabus for Final Year B. Tech program for 2018-2019 (Admission) Batch under Choice Based Credit System (CBCS). |
| | **Proceedings 16.02:**<br>The teaching and examination scheme of Final Year B. Tech program for 2018-2019 under Choice Based Credit System (CBCS) is reviewed.<br>**Suggestions Received:**<br>▪ No need to revise it.<br>**Resolution 16.02:**<br>Whatever the T & E scheme was applied for AY 2019-2020 for final year, the same scheme will be applicable for AY 2021-22. (The same scheme is applicable for AY 2020-21 Final year students, except HSS Courses.)<br>The T & E scheme for Final Year B. Tech. (2018 entry students) is attached in **Annexure – II** |
| **Item 16.03** | **For Discussion**: To review and approve T&E scheme and syllabus for FY, SY and TY of B. Tech program for ACY 2020-2021 under Choice Based Credit System (CBCS). Particularly for physics, |

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| | mathematics and HSS department. |
| | **Proceedings 16.03:**<br>T&E scheme and syllabus for FY, SY and TY of B. Tech program for ACY 2020-2021 under Choice Based Credit System (CBCS) are reviewed. Particularly for physics, mathematics and HSS department.<br>▪ In 1st year, there is no change in teaching and evaluation scheme for AY2020-21, except HSS, Physics and Environmental Science courses<br>• In first year B Tech, Humanities (HSS), Physics and environmental Science courses are revised in introduced with effective from AY 2020-21<br>1. HS101.02A Communicative English (Sem-1)<br>2. HS201.02A-HS210.02A (Courses on liberal Arts) (Sem-2)<br>3. CL144B Environmental Science course introduce in place of CL142.01 (will be offered in Sem-1)<br>4. PY142 Engineering Physics-I course introduce. (Sem-1)<br>5. PY143 Engineering Physics-II course introduce. (Sem-2)<br>• In second year B Tech, Mathematics course is revised and replaced with effective from AY 2020-21<br>MA252 Advanced Engineering Mathematics (Sem-3)<br>• In second year B Tech, Humanities (HSS) courses are revised in introduced with effective from AY 2020-21<br>1. HS121.02A Creativity, Problem Solving and Innovation (Sem-3)<br>2. HS111.02A Human Values and Professional Ethics (Sem-4)<br>• In third Year B Tech, Humanities (HSS) courses are revised in introduced with effective from AY 2020-21<br>1. HS131.02A Communication and Soft Skills (Sem-5)<br>2. HS132.02A Contributory Personality Development (Sem-6)<br><br>**Resolution 16.03:**<br>The suggestions received from BoS members are incorporated and detailed syllabi / T & E Scheme for B Tech is as per **Annexure I** (July 2019 Admission/Entry), **Annexure III** (July 2020 Admission/Entry) and **Annexure II** (July 2018 Admission/Entry). |
| **Item 16.04** | To review and approve T&E scheme for all the semesters of M. Tech. (Electrical Power System) CBCS courses. Approval of online or off-campus B Tech & M Tech. Classes. |

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| | **Proceedings 16.04:**<br>The teaching and examination scheme for all the semesters of M. Tech. (Electrical Power System) CBCS courses effective from July- 2019 under Choice Based Credit System (CBCS) is reviewed.<br>**Suggestions Received:**<br>▪ As per last academic council meeting, first year university elective course is dropped.<br>**Resolution 16.04:**<br>The suggestions received from BoS members are incorporated in T & E Scheme for M. Tech. (Electrical Power System) and T & E Scheme of M Tech (EPS) July 2020 Intake is approved and attached in **Annexure – IV**<br>The classes of B Tech and M Tech can be taken online or off-campus mode. |
| **Item 16.05** | Analysis and discussion on the semester end results of the students and steps taken for the remedial actions |
| | **Proceedings 16.05:**<br>The records of result analysis of both internal and university exams are maintained. The results of both the exams are generally discussed and analysed 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 –V** |
| **Item 16.06** | Analysis of campus placement and discussion of related activities to enhance them further. (Annexure-VI) |
| | **Proceedings 16.06:**<br>[redacted]. **Annexure –VI** |
| **Item 16.07** | To add new University Elective and revise existing University Electives from Electrical Engineering Department for UG Program. |
| | **Proceedings 16.07:**<br>Review the title of the UE courses offered by Electrical Engineering department and discussion on new UE course from EE department under Choice Based Credit System (CBCS). (Applicable from AY 2021-22)<br>**Suggestions Received:**<br>▪ **EE284 Python Programming** replaces EE283 Python for Electrical Engineering course. (UE Sem-3) |

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| | ▪ **EE287 MATLAB Programming** replaces EE286 Computer Programming for Electrical Engineering. (UE Sem-4)<br>▪ **EE288 Maintenance of Household Apparatus** is introduced as new UE course from Electrical Engineering Department in Sem 4.<br>**Resolution 16.07:**<br>The suggestions received from BoS members are incorporated in T & E Scheme for B. Tech. (July 2020 Admission Batch, Effective from AY 2021-22) and is attached in **Annexure – III** |
| **Item 16.08** | To review and approve newly added and revised Elective courses of third year and final year for 2019-20 Admission batch under Choice Based Credit System (CBCS). Here main task to streamline the courses related to AI, Smart grid, machine learning etc. |
| | **Proceedings 16.08:**<br>The syllabus for TY and Final Year of B. Tech. Elective courses effective from July- 2019 Admission batch under Choice Based Credit System (CBCS) is prepared and reviewed.<br>Following Suggestions on Elective courses in B Tech programme are proposed.<br>▪ In 3rd and 4th year, comprehensive and contemporary elective courses are introduced for providing more choices to the students.<br>▪ The following courses that are in line with the current industry requirement and skill based are included in 3rd level and 4th level of curriculum. The listing is as under. The major topics of courses are discussed but detailed syllabus for 4th level will be prepared in next stage.<br>▪ The newly introduced electives are in track/stream of electives offered in previous semesters and hence students following track suggested by department will be able to get detailed knowledge of the selected stream. The may be given minor in following streams.<br>➢ **Python for Data Analytics – Machine Learning Fundamentals – Deep Learning Applications and** [redacted] falls under one stream of electives. (Offered in 5th, 6th and 7th semester respectively.)<br>➢ Optimization Techniques<br>➢ Smart Grid Technology, IoT and Industry 4.0<br>[redacted]<br>The specialized courses taught from specialized faculties. Also, hands on practice needed for students.<br>**Resolution 16.08:**<br>The suggestions received from BoS members are incorporated and T & E Scheme for B. Tech. July 2019 and July 2020 Intake is approved and is attached in **Annexure – I & III** |



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| **Item 16.09** | Preparation, Discussion, and approval of the Elective Courses (University, Institute, and Program Electives) |
| | **Proceedings 16.09:**<br>T&E scheme and syllabus for First Year M Tech (EE) program for ACY 2020-2021 under Choice Based Credit System (CBCS) are reviewed. Particularly for HSS department.<br>In first year M Tech, Humanities (HSS) courses are revised in introduced with effective from AY 2020-21<br>1. HS141.02A Foreign Languages (French) (Sem-1)<br>2. HS105.02A Academic Speaking and Presentation Skills (Sem-1)<br>3. HS106.02A Academic Writing (Sem-2)<br>**Resolution 16.09:**<br>The suggestions received from BoS members are incorporated in T & E Scheme for M. Tech. (Electrical Power System). It is approved and is attached in **Annexure – IV** |
| **Item 16.10** | **For Discussion:**<br>To approve the PhD Synopsis of research scholar |
| | **Proceedings 16.10:**<br>Department of Electrical Engineering, Faculty of Technology & Engineering has received following synopsis of research scholar during 2019-20. |

| Sr. No. | Research Scholar | Research Topic |
|---|---|---|
| 1 | Dharmesh Dabhi (16DREE007) | Developing Metaheuristic Optimization Techniques For Optimal Scheduling of Distributed Energy Resources on Smart Grid Environment. |

Synopsis and panel referees of research scholars are placed before the BoS members.

**Resolution- 16.10**

Board of Studies members approved the synopsis & panel referees of Research Scholar(s) for further process.

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| **Item 16.11** | **Proceedings 16.11:**<br>Giving information about seat reduction in B. Tech. (Electrical) and closure of M. Tech. (PE) Programme.<br>From AY 2020-21, B Tech Electrical Engineering seats reduced to 60.<br>From AY 2020-21 M Tech (Power Electronics) program is closed. |
| **Item 16.12** | **Proceedings 16.12:**<br>Discussion on minor specialization in the EMERGING AREAS viz., Artificial Intelligence [redacted], Internet of Things (IoT), Block chain, Robotics, Quantum Computing, Data Sciences, Machine Learning etc. in B Tech Electrical Engineering was done. |

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| | All the members of BoS appreciated this move towards recent era skill needed. |
| | **Resolution**<br>BoS chairman is given power to decide the additional 18 to 20 credit course as per latest trends and can be implemented from 4th semester of AY2020-21. |

**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 –VII and VIII** |
| 2 | Discussion on effective implementation of Outcome Based Education (OBE) and ICT based Teaching-Learning | **Suggestions Received:**<br>▪ All faculty members must aware about each criteria defined by NBA and NAAC.<br>▪ The proper understanding of mapping of POs, PEOs, COs and their assessment tools is required.<br>▪ Faculty contribution should be increased for publication, funded projects and consultancy.<br>▪ The usage of open course from NPTEL, MIT and BISAC must be increased.<br>Google classroom should be used as ICT platform. |
| 3 | Review Research Activities, Projects, Consultancy etc. | Every faculty must try to bring funded research projects and consultancy.<br>Relation with industry must be made very strong<br>Explore the new dimensions about research |
| 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 a 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' Panel | The examiners panels for B. Tech and M. Tech have been reviewed and approved. The approved examiner panel is attached in **Annexure IX** |

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| 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. Panel of Ph D Supervisors | For PhD it is essential to publish at least to research papers in Scopus indexed journals, hence Quality will be there in research work.<br>For PhD mentor or co-guide can be invited for research scholars of the department. |
| 11. | Research publications, proposals and grants | 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 pert 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 2023 is, placement of eligible students must be reach up to 100%. **Annexure –X** |
| 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 online platform of Google Meet at 12.00 noon.

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

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

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2. Dr. Praghnesh bhatt and Dr. Santosh Vora, FB Member, appreciated the course covered in curriculum. They suggested to introduce the students clubs at Electrical Engineering Department.
3. Dr. Santosh Vora insist on the inter institute collaboration.
4. 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.
5. BoS of the respective branch discussed and agreed upon a common point to offer a minor degree in an emerging area as per the guideline of AICTE.
6. Additional 18 to 20 credit courses offered along with B. Tech. curriculum to earn a minor degree.
7. Concern board authorized the chairman of BoS of Civil Engineering, Mechanical Engineering, and Electrical Engineering to initiate the action related to offering minor specialization in emerging areas and subsequently inform the board after the finalization of course structure and syllabi.

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

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

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# CHAROTAR UNIVERSITY OF SCIENCE & TECHNOLOGY (CHARUSAT)

## 16.01 Annexure I TEACHING & EXAMINATION SCHEME FOR B TECH PROGRAMME IN ELECTRICAL ENGINEERING (CBCS) Entry Year: 2019

| Level | Course Code | Course Title | Teaching Scheme | | | | | Examination Scheme | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Contact Hours | | | | Credit | Theory | | Practical | | Total |
| | | | Theory | Practical | Tutorial | Total | | Internal | External | Internal | External | |
| Level I | HS101.01 A-HS110.01A | A Course on Liberal Arts (Elective I) | | 2 | 0 | 2 | 2 | | | 30 | 70 | 100 |
| | MA143 | Engineering Mathematics I | 4 | 0 | 1 | 5 | 4 | 30 | 70 | 0 | 0 | 100 |
| | ME146 | Engineering Graphics | 2 | 2 | 1 | 5 | 3 | 30 | 70 | 25 | 25 | 150 |
| | PY141.01 | Engineering Physics | 3 | 2 | 0 | 5 | 4 | 30 | 70 | 25 | 25 | 150 |
| | CL143 | Engineering Mechanics | 3 | 2 | 1 | 6 | 4 | 30 | 70 | 25 | 25 | 150 |
| | ME142 | Workshop Practices | 0 | 2 | | 2 | 1 | | | 25 | 25 | 50 |
| | | Assignment Practices/Student counselling/Remedial classes/Library/Sports/Extra curricular & cocurricular | | | | 11 | | | | | | |
| | | | 12 | 10 | | 36 | 18 | 120 | 280 | 130 | 170 | 700 |
| | HS126.01 A | Communication Skills -I | 2 | | 0 | 2 | 2 | 30 | 70 | | | 100 |
| | CL142.01 | Environmental Science | | 2 | 0 | 2 | 2 | | | 30 | 70 | 100 |
| | MA144 | Engineering Mathematics II | 4 | 0 | 1 | 5 | 4 | 30 | 70 | | | 100 |
| | IT143 | Fundamentals of Computer Programming | 2 | 2 | 0 | 4 | 3 | 30 | 70 | 25 | 25 | 150 |
| | ME147 | Basics of Civil & Mech Engineering | 3 | 2 | 0 | 5 | 4 | 30 | 70 | 25 | 25 | 150 |
| | EE145 | Basics of Electronics & Electrical Engineering | 3 | 2 | 0 | 5 | 4 | 30 | 70 | 25 | 25 | 150 |
| | | Assignment Practices/Student counselling/Remedial classes/Library/Sports/Extra curricular & cocurricular | | | | 13 | | | | | | |
| | | | 14 | 8 | | 36 | 19 | 150 | 350 | 105 | 145 | 750 |

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## CHAROTAR UNIVERSITY OF SCIENCE & TECHNOLOGY (CHARUSAT)

### 16.01 Annexure I TEACHING & EXAMINATION SCHEME FOR B TECH PROGRAMME IN ELECTRICAL ENGINEERING (CBCS) Entry Year: 2019

| Level | Course Code | Course Title | Teaching Scheme | | | | | Examination Scheme | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Contact Hours | | | | Credit | Theory | | Practical | | Total |
| | | | Theory | Practical | Tutorial | Total | | Internal | External | Internal | External | |
| Level 2 | HS121.02A | Creativity, Problem Solving and Innovation | | 2 | | 2 | 2 | 0 | 0 | 30 | 70 | 100 |
| | MA252 | Advanced Engineering Mathemathics | 4 | 0 | 0 | 4 | 4 | 30 | 70 | | | 100 |
| | EE251 | Analog and Digital Electronics | 3 | 2 | 0 | 5 | 4 | 30 | 70 | 25 | 25 | 150 |
| | EE252 | Circuit Theory | 3 | 2 | 0 | 5 | 4 | 30 | 70 | 25 | 25 | 150 |
| | EE243 | Electrical Measurements and Industrial Instrumentation | 4 | 2 | 0 | 6 | 5 | 30 | 70 | 25 | 25 | 150 |
| | XXXXX | University Elective- I | | 2 | 0 | 2 | 2 | | | 30 | 70 | 100 |
| | | Assignment Practices/Student counselling/Remedial classes/Library/Sports/Extra curricular &cocurricular | | | | 12 | | | | | | |
| | | | **14** | **10** | **0** | **36** | **21** | **120** | **280** | **135** | **215** | **750** |
| | HS111.02A | Human Values and professional Ethics | | 2 | 0 | 2 | 2 | | | 30 | 70 | 100 |
| | EE254 | Electrical Power Generation and its Economics | 3 | 0 | 0 | 3 | 3 | 30 | 70 | | | 100 |
| | EE255 | Control Systems | 3 | 2 | 0 | 5 | 4 | 30 | 70 | 25 | 25 | 150 |
| | EE246 | Microprocessor & Microcontrollers | 4 | 2 | 0 | 6 | 5 | 30 | 70 | 25 | 25 | 150 |
| | EE247 | Transformers and Induction Machines | 4 | 4 | 0 | 8 | 6 | 30 | 70 | 50 | 50 | 200 |
| | XXXXX | University Elective- II | | 2 | 0 | 2 | 2 | | | 30 | 70 | 100 |
| | | Assignment Practices/Student counselling/Remedial classes/Library/Sports/Extra curricular & cocurricular | | | | 10 | | | | | | |
| | | | **14** | **12** | | **36** | **22** | **120** | **280** | **160** | **240** | **800** |

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# CHAROTAR UNIVERSITY OF SCIENCE & TECHNOLOGY (CHARUSAT)

## 16.01 Annexure I TEACHING & EXAMINATION SCHEME FOR B TECH PROGRAMME IN ELECTRICAL ENGINEERING (CBCS) Entry Year: 2019

| Level | Course Code | Course Title | Teaching Scheme | | | | | Examination Scheme | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Contact Hours | | | | Credit | Theory | | Practical | | Total |
| | | | Theory | Practical | Tutorial | Total | | Internal | External | Internal | External | |
| | HS131.02A | Communication and Soft Skills | | 2 | 0 | 2 | 2 | | | 30 | 70 | 100 |
| | EE351 | Electrical Power Transmission and Distribution | 3 | 0 | 0 | 3 | 3 | 30 | 70 | 0 | 0 | 100 |
| | EE342 | Synchronous and DC Machines | 4 | 4 | 0 | 8 | 6 | 30 | 70 | 50 | 50 | 200 |
| | EE353 | Power Electronics & Drives I | 3 | 2 | 0 | 5 | 4 | 30 | 70 | 25 | 25 | 150 |
| | EE344 | Minor Project I | 0 | 4 | 0 | 4 | 2 | | | 50 | 50 | 100 |
| | EE345 | Electrical Product Survey | 0 | 2 | 0 | 2 | 2 | | | 50 | 50 | 100 |
| | EE371-EE375 | Programme Elective I | 4 | 2 | 0 | 6 | 5 | 30 | 70 | 25 | 25 | 150 |
| | EE350 | Summer Internship I | 0 | 0 | 0 | 0 | 3 | | | 75 | 75 | 150 |
| | | Assignment Practices/Student counselling/Remedial classes/Library/Sports/Extra curricular & cocurricular | | | | 6 | | | | | | |
| Level 3 | | | **14** | **16** | **0** | **36** | **27** | **120** | **280** | **305** | **345** | **1050** |
| | HS132.02A | Contributory Personality Development | | 2 | 0 | 2 | 2 | | | 30 | 70 | 100 |
| | EE346 | Digital Signal Processing | 3 | 2 | 0 | 5 | 4 | 30 | 70 | 25 | 25 | 150 |
| | EE347 | Programmable Logic Controllers and Industrial Automation | 2 | 4 | 0 | 6 | 4 | 30 | 70 | 50 | 50 | 200 |
| | EE348 | Power Electronics & Drives II | 3 | 2 | 0 | 5 | 4 | 30 | 70 | 25 | 25 | 150 |
| | EE349 | Fault Analysis and Switchgear | 4 | 2 | 0 | 6 | 5 | 30 | 70 | 25 | 25 | 150 |
| | EE360 | Minor Project II | 0 | 4 | 0 | 4 | 2 | 0 | 0 | 50 | 50 | 100 |
| | EE376-EE381 | Programme Elective II | 3 | 2 | 0 | 5 | 4 | 30 | 70 | 25 | 25 | 150 |
| | | Assignment Practices/Student counselling/Remedial classes/Library/Sports/Extra curricular & cocurricular | | | | 3 | | | | | | |
| | | | 15 | 18 | | 36 | 25 | 150 | 350 | 230 | 270 | 1000 |

Certified By:

REGISTRAR
CHAROTAR UNIVERSITY OF SCIENCE AND TECHNOLOGY
CHARUSAT CAMPUS, CHANGA

## CHAROTAR UNIVERSITY OF SCIENCE & TECHNOLOGY (CHARUSAT)

### 16.01 Annexure I TEACHING & EXAMINATION SCHEME FOR B TECH PROGRAMME IN ELECTRICAL ENGINEERING (CBCS) Entry Year: 2019

| Level | Course Code | Course Title | Teaching Scheme | | | | | Examination Scheme | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Contact Hours | | | | Credit | Theory | | Practical | | Total |
| | | | Theory | Practical | Tutorial | Total | | Internal | External | Internal | External | |
| Level 4 | EE441 | Power System Operations and Control | 4 | 2 | 0 | 6 | 5 | 30 | 70 | 25 | 25 | 150 |
| | EE442 | Power System Protection | 4 | 2 | 0 | 6 | 5 | 30 | 70 | 25 | 25 | 150 |
| | EE443 | Electrical Machine Design | 4 | 2 | 0 | 6 | 5 | 30 | 70 | 25 | 25 | 150 |
| | EE444 | Simulation Lab | 0 | 4 | 0 | 4 | 2 | | | 50 | 50 | 100 |
| | FE450 | Summer Internship II | | | 0 | | 3 | | | 75 | 75 | 150 |
| | EE481/EE482/EE483/EE446.01/EE447.01/EE476.01 | Programme Elective III | 3 | 2 | 0 | 5 | 4 | 30 | 70 | 25 | 25 | 150 |
| | | Assignment Practices/Student counselling/Remedial classes/Library/Sports/Extra curricular &cocurricular | | | | 9 | | | | | | |
| | | | 15 | 12 | 0 | 36 | 24 | 120 | 280 | 225 | 225 | 850 |
| | | | | | | | | | | | | |
| | EE458 | Major Project | 0 | 36 | 0 | 36 | 20 | | | 400 | 400 | 800 |
| | | | | | | | | | | | | |

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CHARUSAT CAMPUS, CHANGA

# CHAROTAR UNIVERSITY OF SCIENCE & TECHNOLOGY (CHARUSAT)

## 16.01 Annexure I TEACHING & EXAMINATION SCHEME FOR B TECH PROGRAMME IN ELECTRICAL ENGINEERING (CBCS) Entry Year: 2019

| Level | Course Code | Course Title | Teaching Scheme | | | | | Examination Scheme | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Contact Hours | | | | Credit | Theory | | Practical | | Total |
| | | | Theory | Practical | Tutorial | Total | | Internal | External | Internal | External | |
| CHAROTAR UNIVERSITY OF SCIENCE & TECHNOLOGY (CHARUSAT) | | | | | | | | | | | | |
| | | Hours | | | | | Credits | Marks | | | | |
| | | Total Teaching Hrs | Theory | Practical | | Total | | | | | | |
| | | 0 | 98 | 122 | | 288 | 176 | 900 | 2100 | 1690 | 2010 | 6700 |

### LIST OF ELECTIVES FOR B TECH PROGRAMME IN ELECTRICAL ENGINEERING

**University Electives for Level 2**

| | Univestity Elective 1 | Univestity Elective 2 | |
|---|---|---|---|
| EE283 | Python for Electrical Engineering | EE286 | Computer Programming for Electrical Engineering |

**Electives for Level 3**

| | PROGRAMME ELECTIVE 1 (4+2) | PROGRAMME ELECTIVE 2 (3+2) | |
|---|---|---|---|
| EE371 | Advanced Microcontrollers | EE376 | Special Electrical Machines and Applications |
| EE372 | VLSI Technology and Design | EE377 | Embedded Systems |
| EE373 | Optimization Techniques | EE378 | Power Electronics Applications in Power System |
| EE374 | Distributed Generation and Microgrid | EE379 | High Voltage Engineering |
| EE375 | Energy Conservation, Audit and Management | EE380 | Internet of Things |

**Electives for Level 4**

| | PROGRAMME ELECTIVE 3 (3+2) |
|---|---|
| EE481 | Industry 4.0 |
| EE482 | Smart Grid Technologies and Applications |
| EE483 | Communication Engineering |
| EE446.01 | Commissioning and Testing of Electrical Equipments |
| EE447.01 | Modeling and Control of Renewable Energy Sources |
| EE476.01 | Advances in Power System |

Certified By:

REGISTRAR
CHAROTAR UNIVERSITY OF SCIENCE AND TECHNOLOGY
CHARUSAT CAMPUS, CHANGA

CHARUSAT

Head Electrical CHARUSAT <hod.ee@charusat.ac.in>

# Approval of MoM of BoS

9 messages

**Head Electrical CHARUSAT** <hod.ee@charusat.ac.in> Wed, Jul 8, 2020 at 3:04 PM
To: Praghnesh.Bhatt@sot.pdpu.ac.in, Naran Pindoriya <naran@iitgn.ac.in>, Vijay Shah <vijay.shah@in.abb.com>, Prof Santosh Vora <santosh.vora@nirmauni.ac.in>

Respected sir,
Herewith I am sending you the Minutes of BoS meeting held on 4th July 2020.
You are requested to approve the same.
Regards,

--
Dr. Nilaykumar A. Patel
Assistant professor & Head,
Electrical Engineering Dept.
Chandubhai S. Patel Institute of Technology,
CHARUSAT,
Changa. 388421
Ta: Petlad.
Phone:02697 265041

My Web Page: https://sites.google.com/charusat.ac.in/nilaypatel/home

Minutes 16th BOS Meeting_04_07_2020.zip
469K

**Praghnesh Bhatt** <Praghnesh.Bhatt@sot.pdpu.ac.in> Thu, Jul 9, 2020 at 1:25 PM
To: Head Electrical CHARUSAT <hod.ee@charusat.ac.in>

Dear Sir

The MoM for BoS is approved from my end.

Regards

Certified By:

---
Dr Praghnesh Bhatt
Associate Professor & Head
Department of Electrical Engineering
School of Technology, PDPU
Ext: 079-2327-5664
Mo: +91-7567513461/+91-9427339896
https://scholar.google.com/citations?user=KpSDpKAAAAAJ&hl=en&oi=sra
https://orcid.org/0000-0002-0262-9991
https://www.scopus.com/authid/detail.uri?authorId=35589405600
https://app.webofknowledge.com/author/#/record/2378176

REGISTRAR
CHAROTAR UNIVERSITY OF SCIENCE AND TECHNOLOGY
CHARUSAT CAMPUS, CHANGA

**From:** Head Electrical CHARUSAT [hod.ee@charusat.ac.in]
**Sent:** Wednesday, July 08, 2020 3:04 PM
**To:** Praghnesh Bhatt; Naran Pindoriya; Vijay Shah; Prof Santosh Vora
**Subject:** Approval of MoM of BoS

[Quoted text hidden]

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**Vijay Shah** <vijay.shah@in.abb.com> Thu, Jul 9, 2020 at 2:53 PM
To: Head Electrical CHARUSAT <hod.ee@charusat.ac.in>

Dear Prof. Patel

MOM is approved from my side. Do you want any page to be signed -scanned and sent over mail or this approval itself is ok ?

Thanks and best regards

Vijay

Certified By:

REGISTRAR
CHAROTAR UNIVERSITY OF SCIENCE AND TECHNOLOGY
CHARUSAT CAMPUS, CHANGA

**From:** Head Electrical CHARUSAT <hod.ee@charusat.ac.in>
**Sent:** Wednesday, July 8, 2020 3:05 PM
**To:** Praghnesh.Bhatt@sot.pdpu.ac.in; Naran Pindoriya <naran@iitgn.ac.in>; Vijay Shah <vijay.shah@in.abb.com>; Prof Santosh Vora <santosh.vora@nirmauni.ac.in>
**Subject:** Approval of MoM of BoS

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---

**Prof Santosh Vora** <santosh.vora@nirmauni.ac.in> Thu, Jul 9, 2020 at 4:49 PM
To: Head Electrical CHARUSAT <hod.ee@charusat.ac.in>
Cc: Praghnesh Bhatt <Praghnesh.Bhatt@sot.pdpu.ac.in>, Naran Pindoriya <naran@iitgn.ac.in>, Vijay Shah <vijay.shah@in.abb.com>

Dear Sir,

Thanks for the email. Please consider the BoS meeting minutes approved.

Regards,
Dr. S. C. Vora

[Quoted text hidden]
[Quoted text hidden]
[Quoted text hidden]

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Certified By:

---

**Head Electrical CHARUSAT** <hod.ee@charusat.ac.in> Sat, Feb 20, 2021 at 9:43 AM
To: Praghnesh.Bhatt@sot.pdpu.ac.in, Naran Pindoriya <naran@iitgn.ac.in>, Vijay Shah <vijay.shah@in.abb.com>, Prof Santosh Vora <santosh.vora@nirmauni.ac.in>, darshan.shukla@larsentoubro.com

REGISTRAR
CHAROTAR UNIVERSITY OF SCIENCE AND TECHNOLOGY
CHARUSAT CAMPUS, CHANGA

Dear Sir,
As per the agenda Item and resolution 16.12 of BoS16, Our department has decided to offer two minor specialization to Electrical Engineering students.
1. Minor specialization in "Machine Learning and Artificial Intelligence".

2. Minor specialization in "Electrical Vehicle Systems".
The students can opt any of two. Taking minor specialization is not mandatory for students.
The minor specialization in "Electrical Vehicle Systems" will be offered from AY2021-22
The T&E scheme and 4th sem course of "Machine Learning and AI" is attached here for your reference and feedback. This course is offered from AY2020-21.

Regards,
[Quoted text hidden]
Dr. Nilaykumar A. Patel
Associate professor & Head,
[Quoted text hidden]

**2 attachments**

**Teaching scheme B. Tech. Electrical Specialization AI ML 2020-21.pdf**
13K

**Python Programming Skills_Semester_4.pdf**
554K

---

**DARSHAN SHUKLA** <DARSHAN.SHUKLA@larsentoubro.com> Sat, Feb 20, 2021 at 11:55 AM
To: "Praghnesh.Bhatt@sot.pdpu.ac.in" <Praghnesh.Bhatt@sot.pdpu.ac.in>, Naran Pindoriya <naran@iitgn.ac.in>, Vijay Shah <vijay.shah@in.abb.com>, Prof Santosh Vora <santosh.vora@nirmauni.ac.in>, Head Electrical CHARUSAT <hod.ee@charusat.ac.in>

Approved.

Together we win

---

**From:** Head Electrical CHARUSAT <hod.ee@charusat.ac.in>
**Sent:** Saturday, February 20, 2021 9:43:37 AM
**To:** Praghnesh.Bhatt@sot.pdpu.ac.in <Praghnesh.Bhatt@sot.pdpu.ac.in>; Naran Pindoriya <naran@iitgn.ac.in>; Vijay Shah <vijay.shah@in.abb.com>; Prof Santosh Vora <santosh.vora@nirmauni.ac.in>; DARSHAN SHUKLA <DARSHAN.SHUKLA@larsentoubro.com>
**Subject:** Re: Approval of MoM of BoS

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**Vijay Shah** <vijay.shah@in.abb.com> Sat, Feb 20, 2021 at 1:44 PM
To: Head Electrical CHARUSAT <hod.ee@charusat.ac.in>, "Praghnesh.Bhatt@sot.pdpu.ac.in" <Praghnesh.Bhatt@sot.pdpu.ac.in>, Naran Pindoriya <naran@iitgn.ac.in>, Prof Santosh Vora <santosh.vora@nirmauni.ac.in>, "darshan.shukla@larsentoubro.com" <darshan.shukla@larsentoubro.com>

Dear All,

If this needs approval from BOS, then yes from my side approved.

Best regards

Vijay

**From:** Head Electrical CHARUSAT <hod.ee@charusat.ac.in>
**Sent:** Saturday, February 20, 2021 9:44 AM
**To:** Praghnesh.Bhatt@sot.pdpu.ac.in; Naran Pindoriya <naran@iitgn.ac.in>; Vijay Shah <vijay.shah@in.abb.com>; Prof Santosh Vora <santosh.vora@nirmauni.ac.in>; darshan.shukla@larsentoubro.com
**Subject:** Re: Approval of MoM of BoS

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**Praghnesh Bhatt** <Praghnesh.Bhatt@sot.pdpu.ac.in> Sat, Feb 20, 2021 at 1:59 PM
To: Head Electrical CHARUSAT <hod.ee@charusat.ac.in>
Cc: Naran Pindoriya <naran@iitgn.ac.in>, Vijay Shah <vijay.shah@in.abb.com>, Prof Santosh Vora <santosh.vora@nirmauni.ac.in>, "darshan.shukla@larsentoubro.com" <darshan.shukla@larsentoubro.com>

Dear Sir

You may proceed further in the matter.

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

Regards

---

Dr Praghnesh Bhatt
Associate Professor & Head
Department of Electrical Engineering
School of Technology, PDPU
Ext: 079-2327-5664
Mo: +91-7567513461/+91-9427339896
**https://scholar.google.com/citations?user=KpSDpKAAAAAJ&hl=en&oi=sra**
**https://orcid.org/0000-0002-0262-9991**
https://www.scopus.com/authid/detail.uri?authorId=35589405600
**https://app.webofknowledge.com/author/#/record/2378176**

---

**From:** Head Electrical CHARUSAT [hod.ee@charusat.ac.in]
**Sent:** Saturday, February 20, 2021 9:43 AM
**To:** Praghnesh Bhatt; Naran Pindoriya; Vijay Shah; Prof Santosh Vora; darshan.shukla@larsentoubro.com
**Subject:** Re: Approval of MoM of BoS

[Quoted text hidden]

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[Quoted text hidden]

---

**Prof Santosh Vora** <santosh.vora@nirmauni.ac.in> Sat, Feb 20, 2021 at 2:07 PM
To: Head Electrical CHARUSAT <hod.ee@charusat.ac.in>
Cc: Praghnesh Bhatt <Praghnesh.Bhatt@sot.pdpu.ac.in>, Naran Pindoriya <naran@iitgn.ac.in>, Vijay Shah <vijay.shah@in.abb.com>, darshan.shukla@larsentoubro.com

Dear Sir,

Thanks for the email.

You may consider it as approved from my side.

Regards,
Dr. S. C. Vora

Certified By:

REGISTRAR
CHAROTAR UNIVERSITY OF SCIENCE AND TECHNOLOGY
CHARUSAT CAMPUS, CHANGA

[Quoted text hidden]
[Quoted text hidden]

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[Quoted text hidden]

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CHARUSAT CAMPUS, CHANGA

## C S Patel Institute of Technology

## Department of Electrical Engineering

### Minutes of Departmental Meeting

Departmental meeting was organised on July 03, 2020 (Friday) @ 02.00 p.m. at UG Simulation Lab. Course distribution was done in advanced and accordingly time table was prepared and distributed. Formation of department committee and responsibilities along with allocation of lab coordinators, class coordinators and course coordinators were main agendas of the meeting.

Also following points were discussed during meeting

- Time Table and Course Distribution for odd semesters: ACY 2020-2021
- Class coordinators, course coordinators and lab coordinators
- Formation of departmental and institutional committee and responsibilities
- Complete the course files for the respective courses for the previous even term
- Prepare and update the course files for the respective courses for the current odd term
- In the course file, prepare the assignment and question banks chapter/topic wise. Also you are requested to mark the related references so that students can get the best answers for exam preparation.
- Guide the students well and explain your expectation from them during your teaching. After completing the topic in class, summarize the topic and guide them about the question-answer pattern from those topics.
- Prepare the soft copy of lab manuals including all practical/tutorials solutions for the respective courses assigned to you. Display the copy of lab planning on soft board of lab
- Prepare the **soft copy of master test records/files for the practical/tutorials**
    - Master test record/file must contain all the details like aim, objective, apparatus, circuit diagram, theory, observations, complete calculations, graph, questions-answers, conclusion etc. related to that practical/tutorial/simulation.
- Prepare the E – Material of the respective courses
- Update the home page
- Paper presentation at national/international conferences and journals
- STTP attending and organizing
- Result Analysis and Preparation of List for Slow Learners and students with backlogs in the respective courses [Submit the list of students with backlogs with necessary action plan as per the format circulated earlier before 01/07/2019]

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CHARUSAT CAMPUS, CHANGA

- Remedial classes: for slow learner [Prepare a separate time table (MJS will provide the TT; display it on notice board; faculties are informed to conduct the remedial classes and maintain the students' progression report]
- Steps for placement improvement and admission improvement.
- Methodology for practical performance (Experiment/Simulation/Software)
- Review of external examiner.
- Student Counselling [Prepare the Google Group for quick and sure circulation of information]
- Information about research grant and funding projects.
- Presence of respective lab-techs during practical performance.
- Instruction given to faculty members about online teaching.

HOD- EED

CSPIT

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

**CHANDUBHAI S. PATEL INSTITUTE OF TECHNOLOGY - CHANGA**
CONSTITUENT OF CHARUSAT
At & Po. CHANGA - 388 421. Ta. Petlad, Dist Anand
Phone : (02697) 247500, 248133 Fax : (02697) 247100
E-mail : principal.cspit@charusat.ac.in

Date: 03/03/2021

To
**Shri A. S. Khopkar**
Senior Manager & Acting Head
PETE - II,
Electrical Research & Development Association (ERDA)
Vadodara, Gujarat, India.

**Subject** - Invitation to mock interviews for final year students.

Dear Sir,
Chandubhai S. Patel Institute of Technology is one of the premier institutes of state and has a vision to become a leading institute for dissemination and creation of knowledge in the frontiers of technology. The M&V Patel Department of Electrical Engineering of this institute is also working with same vision.

As a part of the career development and placement activity, M & V Patel department of Electrical Engineering invites industry experts to provide a proactive support in terms of conducting a mock round of interviews to the students which can be beneficial to the young engineers during actual company interviews.

Being an esteemed industry, we are pleased to invite you to conduct the mock round of interview for our final year students who are going to appear for the upcoming campus drives. We would like to arrange a mock round of interview through online (Google Meet) on **05/03/2021** as per following schedule.

- **Morning Session:** 11:00 AM to 02:00 PM
- **Afternoon Session:** 02:00 PM to 05:00 PM

You are requested to suggest your convenient time from the above slots.
Hope you will accept the invitation.

Thanking You,
With Warm Regards
**Sincerely Yours,**

**Mihir A. Bhatt**
Asst. Professor
M & V Patel Dept. of Electrical Engg.
Chandubhai S. Patel Inst. Of Tech.
CHARUSAT University, Changa

**Dr. Nilay Patel**
Head of the Department
M & V Patel Dept. of Electrical Engg.,
Chandubhai S. Patel Inst. Of Tech.
CHASRUSAT University, Changa

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CHAROTAR UNIVERSITY OF SCIENCE AND TECHNOLO
CHARUSAT CAMPUS, CHANGA

CHARUSAT

**Mahammadsoaib Saiyad <mahammadsoaibsaiyad.ee@charusat.ac.in>**

# Fwd: An invitation to conduct online Mock Interview for Final Year Students on 05/03/2021

**mihir bhatt** <mihirbhatt.ee@charusat.ac.in> Mon, Jul 12, 2021 at 3:39 PM
To: Mahammadsoaib Saiyad <mahammadsoaibsaiyad.ee@charusat.ac.in>

---------- Forwarded message ---------
From: **ASK** <a.s.khopkar@gmail.com>
Date: Thu, Mar 4, 2021 at 12:08 PM
Subject: Re: An invitation to conduct online Mock Interview for Final Year Students on 05/03/2021
To: mihir bhatt <mihirbhatt.ee@charusat.ac.in>
Cc: Head Electrical CHARUSAT <hod.ee@charusat.ac.in>, TNP Cell <tnp@charusat.ac.in>

Dear Sir,
Thanks for invitation. As inform, we will conduct mock round reveiw from 11.00 am onwards ( up to @ 02:00 pm ) on 05/03/2021.
Please provide link for the same.
Anil S. Khopkar
+ 91 9924043730, 9978940962.

On Wed, Mar 3, 2021 at 12:33 PM mihir bhatt <mihirbhatt.ee@charusat.ac.in> wrote:

Dear Sir,
Greetings from CHARUSAT!!!

On behalf of the department, I am thankful to you for showing your interest for conducting the online mock interview for the students of M & V Patel Department of Electrical Engineering who are going to appear for futuristic campus drives.

As per our discussion, you are requested to give your suitable time slot for conducting a mock round of interviews on 05/03/2021.

Please find the invitation letter attached herewith.

Thanking you
With Best Regards
--

**Mihir A. Bhatt**
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