# ADITYA ENGINEERING COLLEGE

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## 1.1.3 Highlighted BOS Meeting Minutes (Department wise) for the academic year 2019-2020

### Supporting Documents

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| 2 | Electrical and Electronics Engineering | 9-16 |
| 3 | Mechanical Engineering | 17-26 |
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## Department of Civil Engineering

Date: 27-07-2019

### Minutes of the 4ᵗʰ meeting of BOS scheduled on 20-07-2019

The 4ᵗʰ meeting of the BOS of Civil Engineering was held on 20ᵗʰ July 2019 at 10.00 AM, Ajivika Conference Hall, Bill Gates Bhavan. Prof P.Ravi Kishore, Chairperson presided over the meeting.

**Agenda 4.1: Welcome address by Chairman**

Prof.P.Ravi Kishore, BOS Chairman invited the distinguished members of BOS to the IV BOS Meeting.

**Agenda 4.2: Discussion and ratification of the Vision and Mission of the department and Program Educational Objectives (PEOs), Program Outcomes (POs) and Program Specific Outcomes (PSOs) of the Programs under the Department.**

- Members of BOS ratified the Vision and Mission of the department, PEOs, POs and PSOs of the Programs under the Department.

**Agenda 4.3: Discussion on proposed course structure for AR19 as per the guidelines of APSCHE and AICTE for B.Tech (CE) and ratification of the same.**

- After detailed discussions with the BOS members on the course structure of B.Tech the following suggestions are made.

1. Suggested to merge M-III and M-IV by considering the relevant topics.
2. Suggested to bifurcate Structural Analysis into two parts in consecutive semesters.
3. Suggested to replace Design of Tall Buildings with Advanced Concrete Technology in structural stream in Open Electives the same is implemented.
4. Suggested to replace River Basin Management with Irrigation Structures in Water Resources stream on Open Electives the same is implemented.
5. Suggested to replace Traffic Analysis with Urban Transportation in transportation stream on Open Electives the same is implemented.
6. Suggested to replace Environmental Pollution and Control with Municipal and Hazardous Solid Waste Management in Environmental stream on Open Electives the same is implemented.
7. Suggested some guidelines regarding the syllabus framing in advanced structural Design the guidelines are carefully recorded.
8. Suggested to include Industrial by product Waste Management in Industrial Waste and Waste Water engineering the guidelines are carefully recorded.
9. Suggested to include ISO specifications and safety engineering in one of the Open Electives the same is implemented.

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10. Suggested to revise lectures and credits allocation for Environmental Engineering course.
11. Suggested to familiarise the students with latest technologies and advanced materials like Pre-casting, Pre-fabrication and white topping through industrial exposure.

- BOS members approved B.Tech First Year II semester syllabus of branch specific workshop-II for Civil Engineering.

**Agenda 4.4: Discussion on proposed AR19 M.Tech (Structural Engineering) program structure, I & II semesters syllabus and ratification of the same.**

- BOS members approved AR 19 M.Tech (CSE) & M.Tech (Structural Engineering) program structure, I & II semesters syllabus and ratified the same.

**Agenda 4.5: Discussion on the courses having focus on employability/ entrepreneurship/ skill development in the programs of AR19 B.Tech (CE) and M.Tech, ( Structural Engineering) and ratification of the same.**

- The members of BOS ratified the courses having focus on employability/entrepreneurship/skill development in the AR 19 B.Tech (CE) , and M.Tech (Structural Engineering) program.

**Agenda 4.6: Discussion on the new courses offered in the B.Tech (CE) and M.Tech (Structural Engineering) programs and ratification of the same.**

- Members of BOS noted the new courses offered in the AR19 B.Tech (CE) and M.Tech (Structural Engineering) programs and ratified the same. The percentage of new courses introduced in the academic year 2019-20 for B. Tech (CE) is 10.53% and M. Tech (Structural Engineering) is 50%. The list of new courses during the academic year 2019-2020 enclosed as Annexure-I.

**Agenda 4.7:   Discussion on the B.Tech (CE) and M.Tech (Structural Engineering) Programmes in which Choice Based Credit System (CBCS)/elective course system is being implemented and ratification of the same.**

- Members of BOS ratified the Choice Based Credit System (CBCS)/elective course system that is being implemented in B.Tech (CE) and M.Tech (Structural Engineering) programs.

**Agenda 4.8: Discussion on the percentage of syllabus revision done in the B.Tech(CE) & M.Tech (Structural Engineering) programs and ratification of the same.**

- The syllabus revisions were done in B. Tech (CE) and M. Tech (Structural Engineering) based on the stake holder's feedback on Curriculum. The BOS members have approved all the syllabus revisions in both B. Tech (CE) and M. Tech (Structural Engineering). The percentage of courses revised in this academic year 2019-20 for B. Tech (CE) is 31.57 % and M. Tech (Structural Engineering) is 55.55 %. The list of courses revised is enclosed as Annexure-II.

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**Agenda 4.9: Discussion on the value-added courses offered for students and ratification of the same.**

- Members of BOS ratified the various value- added courses identified for the students to be offered.

**Agenda 4.10:  Analysis of Results**

- The BOS Chairperson presented the odd and even semesters pass percentage for the A.Y.2018-2019. The BOS members noted the same.

**Agenda 4.11:  Analysis of Students Feedback & Action Taken Report**

- BOS Chairperson expressed that the student feedback & action taken report process initiated at the end of each semester. The BOS members have noted the results in academic year 2018-2019.

**Agenda 4.12: Analysis of the feedback on curriculum from stakeholders**

- The BOS Chairperson presented the analysis report of stakeholders' feedback on Curriculum. The BOS members noted the same and advised to incorporate the suggestions as per the feasibility. The Action Taken Report is enclosed as Annexure-III.

**Agenda 4.13:  Any other items**

- Suggested that the department can approve the & then course offered by the MOOCS course provided in that current semester.
- Suggested to add new technologies in elective courses to fill the gap between industry and academics
- Suggested to make MOUs with industries and premier institutes.

**Agenda 4.14:  Scheduling of the next BOS meeting.**

- The next BOS meeting is tentatively scheduled in the month of December 2019.

**Agenda 4.15: Vote of Thanks**

- Prof. P.Ravi Kishore, BOS Chairperson presented the vote of thanks.

BOS Chairperson
Head of the Department
Dept. of Civil Engineering
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## Department of Civil Engineering

## Annexure I

### List of New Courses in the Academic Year 2019-2020

| S. No | Program | Semester | Course Code | Course Name |
|-------|---------|----------|-------------|-------------|
| 1. | B. Tech (CE) | I | 191MC1A02 | Constitution of India |
| 2. | B. Tech (CE) | II | 191PR2P01 | Engineering Exploration Project |
| 3. | B. Tech (CE) | II | 191ES2L03 | Essential Electrical and Electronics Engineering Lab |
| 4. | B. Tech (CE) | II | 191ES2L04 | Civil Engineering Workshop |
| 5. | B. Tech (CE) | V | 1711IS5T06 | Employability Skills - III |
| 6. | B. Tech (CE) | VI | 1711IS6T07 | Employability Skills - IV |
| 7. | B. Tech (CE) | V | 171CE5S01 | MOOCs – I |
| 8. | B. Tech (CE) | V | 171CE5P03 | Surveying Camp |
| 9. | B. Tech (CE) | VI | 171CE6S02 | MOOCs – II |
| 10. | B. Tech (CE) | VII | R1641018 | Irrigation Design & Drawing |
| 11. | M. Tech (Structural Engineering) | I | 192MC1A01 | English for Research Paper Writing |
| 12. | M. Tech (Structural Engineering) | I | 192MC1A02 | Disaster Management |
| 13. | M. Tech (Structural Engineering) | I | 192MC1A03 | Sanskrit for Technical Knowledge |
| 14. | M. Tech (Structural Engineering) | I | 192MC1A04 | Value Education |
| 15. | M. Tech (Structural Engineering) | I | 192MC1A05 | Constitution of India |
| 16. | M. Tech (Structural Engineering) | I | 192MC1A06 | Pedagogy Studies |

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| 17. | M. Tech (Structural Engineering) | I | 192MC1A07 | Stress Management by Yoga |
|---|---|---|---|---|
| 18. | M. Tech (Structural Engineering) | I | 192MC1A08 | Personality Development through Life Enlightenment Skills |
| 19. | M. Tech (Structural Engineering) | I | 192MC1A09 | Soft Skills |
| 20. | M. Tech (Structural Engineering) | I | 192ST1T03 | Advanced Concrete Technology |
| 21. | M. Tech (Structural Engineering)) | I | 192ST1E03 | Design of RCC Foundations |
| 22. | M. Tech (Structural Engineering) | I | 192ST1E02 | Analytical & Numerical Method for Structural Engineering |
| 23. | M. Tech (Structural Engineering) | I | 192ST1E06 | Advanced Reinforced Concrete Design |
| 24. | M. Tech (Structural Engineering) | II | 192ST2E08 | Advanced Steel Design |
| 25. | M. Tech (Structural Engineering) | II | 192ST2E09 | Analysis of offshore Structures |
| 26. | M. Tech (Structural Engineering) | II | 192ST2E11 | Precast and Prefabricated Structures |
| 27. | M. Tech (Structural Engineering) | II | 192ST2E12 | Earth Retaining Structures |
| 28. | M. Tech (Structural Engineering) | II | 192ST2L04 | Structural Design Laboratory |

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## Department of Civil Engineering

## Annexure II

### List of Courses revised in the Academic Year 2019-2020

| S. No | Program | Semester | Course Code | Course Name |
|-------|---------|----------|-------------|-------------|
| 1 | B. Tech (CE) | I | 191HS1T01 | Communicative English-I |
| 2 | B. Tech (CE) | I | 191BS1T01 | Differential Equations and Linear Algebra |
| 3 | B. Tech (CE) | I | 191BS1T02 | Engineering Physics |
| 4 | B. Tech (CE) | I | 191BS1L01 | Engineering Physics lab |
| 5 | B. Tech (CE) | I | 191ES1L02 | Basic Engineering Workshop |
| 6 | B. Tech (CE) | II | 191BS2T06 | Chemistry of Materials |
| 7 | B. Tech (CE) | II | 191BS2L04 | Engineering Chemistry Lab |
| 8 | B. Tech (CE) | II | 191ES2T02 | Engineering Graphics and Design |
| 9 | B. Tech (CE) | I | 191MC1A01 | Environmental Science |
| 10 | B. Tech (CE) | III | 171BS3T10 | Probability and Statistics |
| 11 | B. Tech (CE) | V | 171HS5T05 | Management Science |
| 12 | B. Tech (CE) | V | 171CE5T11 | Transportation Engineering |
| 13 | B. Tech (CE) | VIII | 171CE5E01 | Construction Technology and Management |
| 14 | B. Tech (CE) | V | 171CE5L04 | Engineering Geology Lab |
| 15 | B. Tech (CE) | V | 171CE5L05 | Transportation Engineering Lab |
| 16 | B. Tech (CE) | VI | 171CE6T15 | Geotechnical Engineering - I |
| 17 | B. Tech (CE) | VI | 171CE6L06 | Geotechnical Engineering Lab |
| 18 | M. Tech (Structural Engineering) | I | 192ST1T02 | Structural dynamics |
| 19 | M. Tech (Structural Engineering) | I | 1925T1E04 | Bridge Engineering |

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BOS Chairperson
Dept. of Civil Engineering
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## DEPARTMENT OF CIVIL ENGINEERING

## Annexure III

### Action taken report on Stakeholders Feedback in the Academic Year 2019-2020

| S. No | Agenda Item No. | Stakeholders Recommended | Action Taken |
|---|---|---|---|
| 1 | 4.7 | It is better to provide more choice-based subjects. | Inclusion of various open electives from different disciplines like Electrical Safety, 3D Printing, Digital Electronics and logic Design, Java Programming etc. will be included. |
| | 4.13 | Improve extracurricular activities by planning industrial trips. | Introduction of surveying camp in V Semester. |
| | 4.5 | Train students and raise awareness among them to pass the GATE and IES exams. | Civil Department organizing the GATE training for the interested and fast learning students. |
| 2 | 4.5 | Focus on courses related to entrepreneurship. | Inclusion of courses like Entrepreneurship Development and Incubation in V semester |
| | | Student exposure towards socially relevant activities. | Incorporation of socially Relevant Project in V Semester |
| | | To prepare students for interviews, conduct programming skills training for them. | For the training program, we have already introduced |

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| 3 | | The curriculum should be adjusted to reflect the IES and GATE exams | Project work is undertaken as project part-I in VII semester and project part-II in VIII semester, instead of Major Project in VIII semester of AR17 regulation | |
| | 4.5 | Time frame for Project work can be increased to enhance practical exposure to various day to day life activities. | We will setup workshop schedules based on suggestions. | |
| | 4.3 | Organize a workshop to discuss improvements in the teaching and Learning Process. | Step by step, we are upgrading the syllabus | |
| 4 | 4.5 | It is better to add additional skill oriented programs | As per suggestions value added courses are initiated in both even and odd semesters. | |
| | 4.3 | Plan your curriculum so that theory and lab are parallel for better understanding. | We will improve the syllabus based on the suggestions. | |
| | 4.3 | Increase the number of laboratory classes. | We will try to offer more lab classes based on feedback | |

BOS Chairperson
Head of the Department
Dept. of Civil Engineering
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## Department of Electrical and Electronics Engineering

Date: 22-07-2019

## Minutes of the IV meeting of BOS scheduled on 20-07-2019

The IV meeting of the BOS of EEE was held on 20-07-2019 at 10.00 AM, Ajivika Conference Hall, Bill Gates Bhavan. Dr. V. Srinivasa Rao, Chairperson presided over the meeting.

### Agenda 4.1: Welcome address by Chairperson

Dr. V. Srinivasa Rao, BOS Chairperson invited the distinguished members of BOS to the IV BOS Meeting.

### Agenda 4.2: Ratification of minutes of the previous Board of Studies meeting

The BOS members have ratified the points discussed in the previous Board of Studies meeting held on 10/11/2018.

### Agenda 4.3: Discussion and ratification of the Vision and Mission of the department and Program Educational Objectives (PEOs), Program Outcomes (POs) and Program Specific Outcomes (PSOs) of the Programs under the Department.

Members of BOS ratified the Vision and Mission of the department, PEOs, POs and PSOs of the Programs under the Department.

### Agenda 4.4: Discussion on proposed AR19 B.Tech (EEE) program structure, I & II semesters syllabus and ratification of the same.

The BOS members approved the AR19 B.Tech (EEE) course structure after incorporating the following changes:

- The BOS members have discussed the course structure and content of four year AR19 B. Tech (E.E.E) program. The committee has suggested few minor modifications in the course content and list of electives to be offered and has approved the same.

- As per suggestion from BOS members, Different MOOCs courses can be opted such that the total duration of all opted courses is minimum 12 weeks.

- BOS members suggested, the course "Socially Relevant Project" offered in V semester is to be supervised and evaluated by the NSS coordinator.

- BOS members have discussed various courses to be offered as electives in the four year program.

- BOS members have discussed the syllabus of Constitution of India course to be offered in I semester.

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**Agenda 4.5:** Discussion on proposed AR19 M. Tech (PED) program structure, I & II semesters syllabus and ratification of the same.

BOS members approved AR 19 M. Tech (PED) program structure, I & II semesters syllabus and ratified the same.

**Agenda 4.6:** Discussion on the courses having focus on employability / entrepreneurship /skill development in B. Tech (EEE) and M. Tech (PED) programs and ratification of the same.

The members of BOS ratified the courses having focus on employability/entrepreneurship/skill development in the B. Tech (EEE) & M. Tech (PED) programs.

**Agenda 4.7:** Discussion on the new courses offered in the B. Tech (EEE) and M. Tech (PED) programs and ratification of the same

Members of BOS noted the percentage of new courses offered for the academic year 2019-2020 in the B. Tech (EEE) is 18.18% & M. Tech (PED) is 47.22%. The list of new courses is enclosed as Annexure-I.

**Agenda 4.8:** Discussion on the B. Tech (EEE) and M. Tech (PED) Programs in which Choice Based Credit System (CBCS)/elective course system is being implemented and ratification of the same.

Members of BOS ratified the choice based credit systems (CBCS)/elective course system that is being implemented in B. Tech (EEE) and M. Tech (PED) programs.

**Agenda 4.9:** Discussion on the percentage of syllabus revision done in the B. Tech (EEE) & M. Tech (PED) programs and ratification of the same.

The syllabus revision was done in the B. Tech (EEE) & M. Tech (PED) programs based on the stakeholders feedback on curriculum. The BOS members have approved all the percentage of syllabus revisions for the academic year 2019-2020 in B. Tech (EEE) is 34.09% and M. Tech (PED) is 66.66%. The list of courses revised is enclosed as Annexure-II.

**Agenda 4.10:** Discussion on the value-added courses offered for students and ratification of the same.

Members of BOS ratified the value- added courses identified for the students to be offered and suggested to include topics related to thrust areas

**Agenda 4.11:** Analysis of Results

The BOS Chairperson presented the odd and even semesters pass percentage for the A.Y.2019-2020. The BOS members noted the same.

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**Agenda 4.12: Analysis of Students Feedback & Action Taken Report**

BOS Chairperson expressed that the student feedback & action taken report process initiated at the end of each semester. The BOS members noted the same.

**Agenda 4.13: Analysis of Stakeholder's Feedback on Curriculum.**

The BOS Chairperson presented the analysis report of Stakeholder's feedback on curriculum. The BOS members noted the same and the Action Taken Report is enclosed as Annexure-III.

**Agenda 4.14: Any other item/s**

1. In II semester engineering graphics & design course can be replaced by python/ data structures.
2. In third semester python programming and lab is proposed.
3. In DC machines reduce the syllabus to fundamentals and include the syllabus of induction motors In EM-I paper itself.
4. In Basic electrical and electronics engineering, the overall syllabus should be reduced, in transformers remove the topic voltage regulation.
5. In V semester Electrical machine modeling course is there for both B. Tech and M. Tech. Suggested to combine the student for having the same lecture.

**Agenda 4.15: Scheduling of the next BOS meeting.**

The next BOS meeting is tentatively scheduled in the month of November, 2019.

**Agenda 4.16: Vote of Thanks**

- Dr. V. Srinivasa Rao, BOS Chairperson presented the vote of thanks.

**BOS Chairperson**
Head of The Department
Dept: Of Electrical & Electronics Engineeri:
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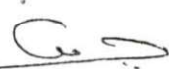
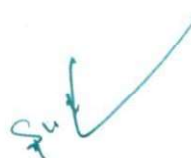## Department of Electrical and Electronics Engineering
## Annexure-I
## List of New Courses in the Academic Year 2019-2020

| S. No | Program | Semester | Course Code | Course Name |
|-------|---------|----------|-------------|-------------|
| 1 | B. Tech (EEE) | I | 191MC1A02 | Constitution of India |
| 2 | B. Tech (EEE) | II | 191ES2T05 | Data Structures Through C |
| 3 | B. Tech (EEE) | II | 191ES2T06 | Basic Civil and Mechanical Engineering |
| 4 | B. Tech (EEE) | II | 191ES2L05 | Basic Civil and Mechanical Engineering Lab |
| 5 | B. Tech (EEE) | II | 191ES2L06 | Electrical Engineering Workshop |
| 6 | B. Tech (EEE) | II | 191PR2P01 | Engineering Exploration Project |
| 7 | B. Tech (EEE) | V | 171HS5T06 | Employability Skills - III |
| 8 | B. Tech (EEE) | V | 171EE5S01 | MOOCs - I |
| 9 | B. Tech (EEE) | V | 171EE5E03 | Electrical Safety |
| 10 | B. Tech (EEE) | VI | 171EE6E04 | Computer Architecture |
| 11 | B. Tech (EEE) | VI | 171EE6E06 | Distributed Generation and Microgrid |
| 12 | B. Tech (EEE) | VI | 171EE6S02 | MOOCs - II |
| 13 | B. Tech (EEE) | VI | 171HS6T07 | Employability Skills - IV |
| 14 | B. Tech (EEE) | VII | R164102A | Electrical Machine Modeling and Analysis |
| 15 | B. Tech (EEE) | VII | R164102C | Programmable Logic Controllers and Applications |
| 16 | B. Tech (EEE) | VIII | R1642022 | HVDC Transmission |
| 17 | M. Tech (PED) | I | 192PD1L01 | Power Electronics Simulation Laboratory |
| 18 | M. Tech (PED) | I | 192HS1T01 | Research methodology and IPR |
| 19 | M. Tech (PED) | I | 192MC1A01 | English for Research Paper Writing |
| 20 | M. Tech (PED) | I | 192MC1A02 | Disaster Management |
| 21 | M. Tech (PED) | I | 192MC1A03 | Sanskrit for Technical Knowledge |
| 22 | M. Tech (PED) | I | 192MC1A04 | Value Education |
| 23 | M. Tech (PED) | I | 192MC1A05 | Constitution of India |
| 24 | M. Tech (PED) | I | 192MC1A06 | Pedagogy Studies |
| 25 | M. Tech (PED) | I | 192MC1A07 | Stress Management by Yoga |
| 26 | M. Tech (PED) | I | 192MC1A08 | Personality Development through Life Enlightenment Skills |
| 27 | M. Tech (PED) | I | 192MC1A09 | Soft Skills |
| 28 | M. Tech (PED) | II | 192PD2L03 | Electric Drives Simulation Laboratory |
| 29 | M. Tech (PED) | II | 192PD2E07 | Control & Integration of Renewable Energy Systems |
| 30 | M. Tech (PED) | II | 192PD2E08 | Hybrid Electric Vehicles |

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| 31 | M. Tech (PED) | II | 192PD2E09 | Digital Control Systems |
| 32 | M. Tech (PED) | II | 192PD2E10 | Advanced Digital Signal Processing |
| 33 | M. Tech (PED) | II | 192PD2E11 | Applications of Power Converters |

**BOS Chairperson**

Head of The Department
Dept; Of Electrical & Electronics Engineerin·
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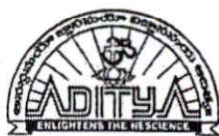
## Department of Electrical and Electronics Engineering
## Annexure-II
## List of Courses Revised in the Academic Year 2019-2020

| S. No | Program | Semester | Course Code | Course Name |
|-------|---------|----------|-------------|-------------|
| 1 | B. Tech (EEE) | I | 191HS1T01 | Communicative English |
| 2 | B. Tech (EEE) | I | 191BS1T01 | Differential Equations and Linear Algebra |
| 3 | B. Tech (EEE) | I | 191BS1T04 | Engineering Chemistry |
| 4 | B. Tech (EEE) | I | 191BS1L02 | Engineering Chemistry Lab |
| 5 | B. Tech (EEE) | I | 191MC1A01 | Environmental Science |
| 6 | B. Tech (EEE) | I | 191ES1L02 | Basic Engineering workshop |
| 7 | B. Tech (EEE) | II | 191BS2T05 | Partial Differential Equations and Vector Calculus |
| 8 | B. Tech (EEE) | II | 191BS2T07 | Applied Physics |
| 9 | B. Tech (EEE) | II | 191BS2L05 | Applied Physics Lab |
| 10 | B. Tech (EEE) | V | 171EE5T13 | Signals and Systems |
| 11 | B. Tech (EEE) | V | 171EE5L06 | Control Systems Lab |
| 12 | B. Tech (EEE) | VI | 171EE6T16 | Micro Processor and Micro Controllers |
| 13 | B. Tech (EEE) | VI | 171EE6L08 | Power Electronics Lab |
| 14 | B. Tech (EEE) | VII | R164102E | Optimization Techniques |
| 15 | M. Tech (PED) | I | 192PD1T02 | Analysis of Power Electronic Converters |
| 16 | M. Tech (PED) | I | 192PD1L02 | Power Converters Laboratory |
| 17 | M. Tech (PED) | I | 192PD1E04 | Artificial Intelligence Techniques |
| 18 | M. Tech (PED) | I | 192PD1E05 | Renewable Energy Technologies |
| 19 | M. Tech (PED) | I | 192PD1E06 | HVDC Transmission and Flexible AC Transmission Systems |
| 20 | M. Tech (PED) | II | 192PD2T04 | Power Electronic Control of Electrical Drives |
| 21 | M. Tech (PED) | II | 192PD2L04 | Electric Drives Laboratory |

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BOS Chairperson
Head of The Department
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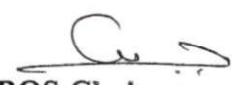## Department of Electrical and Electronics Engineering

### Annexure-III

### Action Taken Report on Stakeholders Feedback in the Academic Year 2019-2020

| S. No | Agenda Item No. | Stakeholders Recommended | Action Taken |
|---|---|---|---|
| 1. | 4.14 | Basic knowledge of software programming should be taught to students before the III semester | As per the employer feedback, software courses like "python programming and python programming lab" will be introduced in II and III semesters respectively in AR19 regulation. |
| 2. | 4.4 | Online courses are to be added in the curriculum | Considering teachers feedback, EEE department is planning to a introduce a Massive Open Online Courses (MOOCs) with a duration of minimum 12 weeks. |
| 3. | 4.2 | More focus is to be given for "employability/entrepreneurship/skill development" programmes and ratification of the same. | Necessary measures will be taken for ratifying the courses having focus on Employability/entrepreneurship/skill development in the AR 19 B.Tech (EEE). |
| 4. | 4.4 | Interactions are to be made for the students with Industry experts so that students will get the exposure to the industry | Considering employer feedback, a new course named "MOOCs" will be designed where students will get the opportunity to attend the online courses and be able to meet the experts from the industry. |
| 5. | 4.12 | English Language and the communications of students can be improved by introducing a new lab course. | Considering alumni feedback, a course will be designed and named as "Professional Communications Skills Lab" and will be added in the II semester of AR20 regulation. |
| 6. | 4.14 | It's better to introduce software courses from 1st year | Necessary measures will be taken to replace the subject "Engineering Graphics & design" with Python/Data Structures. |
| 7. | 5.3 | The DC machines course structure is vast and it's better to reduce the course contents | The course "DC machines" will be reduced and it will be modified. |

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| 8. | 4.4 | Online course are to be included in the curriculum, so that the students may gain the knowledge and can interact directly with professors from NIT/IIT and other reputed colleges | MOOCs will be introduced in the semester III and will be made as compulsory for the students. |
|----|-----|---|---|
| 9. | 5.6 | Students are showing interest to learn the artificial intelligence techniques. | In AR19, "Neural Networks for Signal Processing" is added as an elective for the VIII semester students. |
| 10. | 5.6 | Students need to learn the basics of electric materials for insulation and measurements at the B.Tech level . | New courses named "Electrical Materials and Basic Electrical Measurements" are introduced for EEE students to gain more knowledge about the insulations and will be included in AR19 regulation. |
| 11. | 4.4 | Students should possess a minimum idea of Constitution of INDIA | "Constitution of INDIA" is going to be added as a course in Semester I. |
| 12. | 4.4 | Semester I & II syllabus has to be approved and is to be ratified | Necessary arrangements will be made for the approval and ratification of AR19 M.Tech syllabus. |
| 13. | 5.6 | More knowledge on industrial systems can included in the curriculum. | In AR19, a course named "Industrial Electrical Systems" is added as an open elective course. |
| 14. | 4.4 | Projects are to be developed and designed by the students that serves the social needs. | A course named "Socially Relevant Project" will be included in the curriculum of AR17 for semester V students. |
| 15. | 4.14 | The course structure of "Basic Electrical And Electronics Engineering" is vast and is taking more hours to complete the syllabus | Considering students feedback, the course structure of "Basic Electrical And Electronics Engineering" will be reduced and will be modified. |
| 16. | 4.6 | More focus is to be concentrated on employability / entrepreneurship / skill development courses | New courses like "Programmable Logic Controllers & Applications, Artificial Intelligence Techniques" will be included by considering Employability. |

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BOS Chairperson
Head of The Department
Dept: Of Electrical & Electronics Engineeri..
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## Department of Mechanical Engineering

Date: 22-07-2019

### Minutes of the IV meeting of BOS scheduled on 20-07-2019

The IV meeting of the BOS (Board of Studies) of ME was held on 20-07-2019 at 10:00 AM in the Ajivika Conference Hall, Bill Gates Bhavan, AEC. Dr.Bh.Vara Prasad, chairperson presided over the meeting.

**Agenda 4.1: Welcome address by Chairperson-BOS**

Prof Bh. Vara Prasad, BOS chairperson invited the distinguished members of BOS to the IV BOS Meeting.

**Agenda 4.2: Ratification of minutes of the previous Board of Studies meeting**

The BOS members have ratified the points discussed in the previous Board of Studies meeting held on 12/11/2018.

**Agenda 4.3: Discussion and ratification of the vision and mission of the department and Program Educational Objectives (PEOs). Program out Comes (POs) and Program Specific Outcomes (PSOs) of the programs under the department**

The members of BOS discussed and ratified of the Vision and Mission of the department and Program Educational Objectives (PEOs), Program Outcomes (POs) and Program Specific Outcomes (PSOs) of the Programs under the Department.

**Agenda 4.4: Discussion on proposed AR19 B.Tech (ME) Program structure, AR 19 B. Tech (ME)Program-I&II semesters syllabus and ratification of the same**

BOS members approved AR 19 B. Tech (ME) program structure and AR 19 B. Tech. Program-I&II semesters syllabus of Engineering Mechanics, Engineering Graphics and Design, Engineering Workshop, Workshop-II, Basic Civil and Mechanical Engineering & Basic Civil and Mechanical Engineering Lab and ratified the same. After long discussions with the BOS members on the

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proposed program structure of AR 19 B. Tech (ME) and AR 19 B.Tech.
Program-I&II semester's syllabus, the following suggestions are made:

- Suggested to keep Physics/ Physics lab in I semester and Chemistry/ Chemistry lab in II semester for Mechanical Engineering.
- Suggested to add Robotics and 3D Printing, Introduction to material science, Operations Research, Introduction to Mechanics of Solids in Open Electives.
- Suggested to remove Solar Energy Utilization and add Advanced Fluid Mechanics in Program Elective IV.
- Suggested to add Lean Manufacturing in Program Elective III and Advanced Automobile Engineering from Program Elective III to Program Elective IV.
- Suggested to remove Black Smithy in work shop and increase one experiment in carpentry and one in Tin Smithy.
- Suggested to keep A. Nelson, F. L. Singer text books as the prescribed books for Engineering Mechanics.
- Suggested to keep Dieing and tapping in Work shop II for Mechanical and Mining Engineering.
- Suggested to follow university guidelines for Engineering Exploration Project in I semester.
- Suggested to remove Sections of Solids and Development of Surfaces in Unit III and keep Unit V as Unit IV and remove Conversion of Isometric to Orthographic representation in Engineering Graphics and Design, which is common for all the branches.
- Suggested to introduce Power Transmission in Unit IV of Basic Civil and Mechanical Engineering for Electrical Engineering.
- Suggested to keep six experiments for thermal engineering lab and six for Hydraulic Machinery lab and improve augmented experiments in basic Civil and Mechanical Engineering Lab for Electrical Engineering.
- Suggested to keep CAD/CAM subject in the Program Electives V.

Agenda 4.5: Discussion on proposed AR19 M.Tech (TE) Program structure, AR 19 M. Tech (TE) Program-I & II semesters syllabus and ratification of the same

BOS members approved the proposed AR19 M.Tech (TE) Program structure, AR 19 M. Tech (TE) Program-I&II semesters syllabus and ratified the same

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**Agenda 4.6:** **Discussion on the courses having focus on employability/ entrepreneurship/ skill development in the programmes of B.Tech (ME), M.Tech (TE) and ratification of the same.**

The members of BOS ratified the courses having focus on employability/ entrepreneurship/skill development in B.Tech (ME)  and M.Tech (TE) programs.

**Agenda 4.7:** **Discussion on the new courses offered in the B.Tech (ME) and M.Tech (T.E) programs and ratification of the same**

The Members of BOS noted the new courses offered in B.Tech (ME) and M.Tech (TE) programs and ratified the same. The percentage of courses introduced in the academic year 2019-20 for B.Tech (ME) Program is 9% and for M.Tech (TE) Program is 27.5 %.  The List of courses introduced is enclosed as Annexure-I.

**Agenda 4.8:** **Discussion on the B.Tech (ME), M.Tech (TE) programmes in which Choice Based Credit System (CBCS)/ Elective Course System(ECS) is being implemented and ratification of the same.**

The Members of BOS ratified the Choice Based Credit System (CBCS)/Elective Course System that is being implemented in B.Tech (ME) and M.Tech (TE) programs.

**Agenda 4.9:** **Discussion on the percentage of syllabus revision done in B.Tech (ME) and M.Tech (TE) programs  and ratification of the same**

The syllabus revisions were done in the B.Tech (ME) and M.Tech (TE) programs based on the stakeholder's feedback on Curriculum. The BOS members have approved all the syllabus revisions in the B.Tech (ME) and M.Tech (TE) programs. The percentage of courses revised in the academic year 2019-20 for B.Tech (ME) Program is 31.76% and for M.Tech (TE) Program is 50%. The list of courses revised is enclosed as Annexure-II.

**Agenda 4.10:** **Discussion on the value-added courses to be offered for students and ratification of the same**

The BOS members ratified the various value-added courses identified for the students to be offered and suggested to include topics related to thrust areas.

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**Agenda 4.11: Analysis of results**

The BOS chairperson presented odd semester pass percentage for the A.Y.2019-20. The BOS members noted the same.

**Agenda 4.12: Analysis of student's feedback& Action Taken Report**

BOS Chairperson expressed that the student feedback & action taken report process initiated at end of each semester

**Agenda 4.13: Analysis of stakeholder's feedback on Curriculum**

BOS Chairperson presented the analysis report of stakeholder's feedback on Curriculum. The BOS members noted the same and the action taken report is enclosed in Annexure III.

**Agenda 4.14: Any other item with the approval of Chairman.**

NIL

**Agenda 4.15: Scheduling of next Board of Studies meeting.**

The next BOS meeting is tentatively scheduled in the month of November 2019.
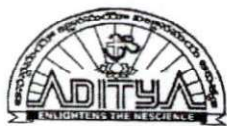
**Agenda 4.16: Vote of Thanks**

Prof Bh. Vara Prasad, BOS Chairperson presented the Vote of thanks.

BOS Chairperson

Head of the Department
Department of Mechanical Engineering
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## Department of Mechanical Engineering

## Annexure-I

## List of New Courses in the Academic Year 2019-20

| S. No | Program | Semester | Course Code | Course Name |
|-------|---------|----------|-------------|-------------|
| 1 | B. Tech (ME) | I | 191MC1A02 | Constitution of India |
| 2 | B. Tech (ME) | II | 191ES2L07 | Mechanical Engineering Workshop |
| 3 | B. Tech (ME) | II | 191PR2P01 | Engineering Exploration Project |
| 4 | B. Tech (ME) | V | 171ME5E02 | Mechanical Vibrations |
| 5 | B. Tech (ME) | V | 171HS5T06 | Employability Skills – III |
| 6 | B. Tech (ME) | VI | 171HS6T07 | Employability Skills – IV |
| 7 | B. Tech (ME) | VII | R1641038 | Mechatronics Lab |
| 8 | B. Tech (ME) | VIII | R164203A | Thermal Equipment Design |
| 9 | M. Tech (TE) | I | 192HS1T01 | Research methodology and IPR |
| 10 | M. Tech (TE) | I/II | 192MC1A01/192MC2A01 | English for Research Paper Writing |
| 11 | M. Tech (TE) | I/II | 192MC1A02/192MC2A02 | Disaster Management |
| 12 | M. Tech (TE) | I/II | 192MC1A03/192MC2A03 | Sanskrit for Technical Knowledge |
| 13 | M. Tech (TE) | I/II | 192MC1A04/192MC2A04 | Value Education |
| 14 | M. Tech (TE) | I/II | 192MC1A05/192MC2A05 | Constitution of India |
| 15 | M. Tech (TE) | I/II | 192MC1A06/192MC2A06 | Pedagogy Studies |
| 16 | M. Tech (TE) | I/II | 192MC1A07/192MC2A07 | Stress Management by Yoga |

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| 17 | M. Tech (TE) | I/II | 192MC1A08/192MC2A08 | Personality Development through Life Enlightenment Skills |
|----|--------------|------|---------------------|---------------------------------------------------------|
| 18 | M. Tech (TE) | I/II | 192MC1A09/192MC2A09 | Soft Skills |
| 19 | M. Tech (TE) | II | 192TE2E15 | Modeling of I.C. Engines |

BOS Chairperson

Head of the Department
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## Department of Mechanical Engineering

## Annexure-II

## List of Courses Revised in the Academic Year 2019-20

| S. No | Program | Semester | Course Code | Course Name |
|-------|---------|----------|-------------|-------------|
| 1 | B. Tech (ME) | I | 191HS1T01 | Communicative English |
| 2 | B. Tech (ME) | I | 191BS1T01 | Differential Equations and Linear Algebra |
| 3 | B. Tech (ME) | I | 191BS1T02 | Engineering Physics |
| 4 | B. Tech (ME) | I | 191BS1L01 | Engineering Physics Lab |
| 5 | B. Tech (ME) | I | 191MC1A01 | Environmental Science |
| 6 | B. Tech (ME) | I | 191ES1L02 | Basic Engineering Workshop |
| 7 | B. Tech (ME) | II | 191BS2T05 | Partial Differential Equations& Vector Calculus |
| 8 | B. Tech (ME) | II | 191BS2T06 | Chemistry of Materials |
| 9 | B. Tech (ME) | II | 191ES2T02 | Engineering Graphics and Design |
| 10 | B. Tech (ME) | II | 191ES2T04 | Engineering Mechanics |
| 11 | B. Tech (ME) | II | 191BS2L04 | Engineering Chemistry Lab |
| 12 | B. Tech (ME) | V | 171ME5T11 | Design Of Machine Members-II |
| 13 | B. Tech (ME) | V | 171ME5E01 | Automobile Engineering |
| 14 | B. Tech (ME) | V | 171ME5L03 | Thermal Engineering Lab |
| 15 | B. Tech (ME) | VI | 171ME6T15 | Metrology &Instrumentation |
| 16 | B. Tech (ME) | VI | 171ME6E06 | Non-Destructive Evaluation |
| 17 | B. Tech (ME) | VI | 171ME6L04 | Machine Tools Lab |

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| 18 | B. Tech (ME) | VI | 171ME6L06 | Metrology &Instrumentation Lab |
|----|--------------|-----|-----------|-------------------------------|
| 19 | B. Tech (ME) | VII | R1641037 | CAD/CAM Lab |
| 20 | M. Tech (TE) | I | 192TE1E05 | Gas Turbines |
| 21 | M. Tech (TE) | I | 192TE1E07 | Energy Conservation and Management |
| 22 | M. Tech (TE) | I | 192TE1L01 | Computational Fluid Dynamics Lab-I |
| 23 | M. Tech (TE) | I | 192TE1L02 | Thermal Engineering lab-I |
| 24 | M. Tech (TE) | II | 192TE2E11 | Advanced Power Plant Engineering |
| 25 | M. Tech (TE) | II | 192TE2E12 | Combustion Emissions& Environment |
| 26 | M. Tech (TE) | II | 192TE2E14 | Automotive Engineering |
| 27 | M. Tech (TE) | II | 192TE2L03 | Computational Fluid Dynamics Lab-II |
| 28 | M. Tech (TE) | II | 192TE2L04 | Thermal Engineering Lab-II |

BOS Chairperson

Head of the Department
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## Department of Mechanical Engineering
### Annexure III

## Action Taken Report on Stakeholders Feedback in the Academic Year 2019-20

| S. No | Agenda Item No. | Stakeholders Recommended | Action Taken |
|---|---|---|---|
| 1 | | Better to introduce skill oriented courses so that student may get extra skill. | As suggested from the employer, value added courses will be initiated. |
| 2 | | Students should have knowledge on turbines and its applications. | As suggested, introduction to performance of turbines and pumps will be introduced into the curriculum. |
| 3 | 4.13 | The bridge between the theoretical aspects and real world is project based learning. And this lack of application of knowledge in the real world throughout the course of study is what hinders us from truly appreciating the things that we study. | According to the suggestions, Socially Relevant Project will be introduced to the curriculum as a Mandatory course after discussion made with the experts and deanacademics. |
| 4 | 4.13 | Automotive companies need better drawing analysing capability for product design. | As per suggestion and discussions made, conventional drawing will be introduced to the CAEDP subject. |
| 5 | 4.13 | Students need to be industry ready with skill sets to gain job. | As per suggestion, additional skill programs in association with APSSDC will be initiated to make the student with technical skill. |
| 6 | 4.4 | Better to have knowledge on CADand its applications. | According to the suggestion, industrydrawings will be taught in the curriculum once after the discussion made with dean academics. |
| 7 | 4.13 | Students should have knowledge on water and its utilization in an efficient manner. | According to the feedback, water management will be introduced into the curriculum. |

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| 8 | 4.4 | Better to add advanced manufacturing techniques. | According to the suggestions, lean manufacturing course will be introduced. |
|---|---|---|---|
| 9 | 4.4 | It is better student have basic knowledge on how it is implemented. | According to the feedback given, Engineering Exploration project will be introduced to the curriculum once after the discussion made with Professionals and experts. |
| 10 | 4.12 | It is Suggested to increase fieldbased learning. | As per discussion with dean academics, students were encouraged to visit more industrial visits during their curriculum. |
| 11 | | Please reduce mechanics of solidssyllabus. | According to the feedback and discussions made, necessary actions will be implemented. |
| 12 | | Better to add programming related subjects to syllabus to get IT job. | As per suggestions, other department courses will be given for choice in OE's. |
| 13 | 4.13 | Better to acquire multiple technical skills to perform well in the stream. | As per the suggestions received, CFD lab will be introduced with new experiments. |
| 14 | | Student requires strong technical knowledge, critical thinking, communication skills are in demand. | According to the suggestion, soft skills will be introduced into the curriculum. |
| 15 | | Acquiring knowledge on fluids and its interactions and advanced fuels may increase the student ability in the core sector. | As per the suggestions, more advanced courses will be introduced with advanced topics in the electives. |
| 16 | 4.12 | It is better to have interaction with the industry experts on the latest advancements in the industry. | According to the suggestion, Industry – Institute Relation will be made through MoU and industry workshops and webinars will be initiated. |

BOS Chairperson

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Head of the Department
Department of Mechanical Engineering
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## Department of Electronics and Communication Engineering

Date: 21-07-2019

### Minutes of the IV meeting of BOS scheduled on 20-07-2019

The IV meeting of the BOS of Electronics and Communication Engineering Department was held on 20-07-2019 at 09.30 AM.

The Members discussed the agenda items and made the following resolutions.

**Agenda 4.1:** **Welcome address by Chairman**
Prof. G. Sridevi, Chairman of BOS, invited all the distinguished members of BOS to the first BOS meeting.

**Agenda 4.2:** **Ratification of minutes of the previous Board of Studies meeting**
The BOS members have ratified the points discussed in the previous Board of Studies meeting held on 10-11-2018.

**Agenda 4.3:** **Discussion and ratification of the Vision and Mission of the department and Program Educational Objectives (PEOs), Program Outcomes (POs) and Program Specific Outcomes (PSOs) of the Programs under the Department.**
Members of BOS ratified the Vision and Mission of the department, PEOs, POs and PSOs of the Programs under the Department.

**Agenda 4.4:** **Discussion on proposed AR19 B.Tech (ECE) program structure, I & II semesters syllabus and ratification of the same.**
After long discussions with the BOS members on the proposed program structure (AR19) based on the AICTE model curriculum and the following suggestions are made:

- Suggested to make Network Analysis by M E Van Valkenburg and Electric Circuits-Schaum's series by Mahmood Nahvi as Text Books of Network Analysis course in I semester.
- Suggested to prefer any Two Standard Books as Text Books in every course.
- Suggested to complete experiments in 1 hour session and evaluate the experiment through different assignments in remaining 2 hours session in Electronic Workshop course.
- Suggested to include Digital equipment like DSO in the Electronic Workshop course.
- Suggested to incorporate more computer based subjects in the curriculum.
- Suggested to internal evaluation should be in different ways.

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- Suggested to include Internet of Things course in V or VI semester instead of III semester.
- Suggested to include the Communication related subjects like Computer Networks in the curriculum.
- Suggested to prepare semester wise courses in reverse order from VIII semester to I semester in the curriculum.
- Suggested to check whether the basic concepts like Coordinate Theory and Vector Calculus is included in the mathematics courses.
- Suggested to combine two courses with same track or specialization.
- Suggested to replace Biomedical Engineering with Biomedical Instrumentation in Open electives for other departments
- Suggested to make CAD tools as ECAD Tools in the open Elective III.
- Suggested to prepare core MOOCs courses list for the students to choose and alternate course for MOOCs as a choice.
- Suggested to record the presentation of final year project and evaluate accordingly.
- Suggested to arrange the MOOCs courses before VIII semester

**Agenda 4.5:** **Discussion on proposed AR19 M.Tech (VLSI) & AR19 M.Tech (ES) program structures, I & II semesters syllabus and ratification of the same.**

BOS members approved AR19 M.Tech (VLSI) & AR19 M.Tech (ES) program structures, I & II semesters syllabus and ratified the same.

**Agenda4.6:** **Discussion on the courses having focus on employability/entrepreneurship/skill development in B.Tech (ECE), M.Tech (VLSI Design) & M.Tech (ES) programs and ratification of the same.**

The members of BOS ratified the courses having focus on employability/entrepreneurship/skill development in the B.Tech (ECE), M.Tech (VLSI Design) &M.Tech (ES) programs.

**Agenda 4.7:** **Discussion on the new courses offered in the B.Tech (ECE), M.Tech (VLSI Design) & M.Tech (ES) programs and ratification of the same**

Members of BOS noted the new courses offered in the B.Tech (ECE), M.Tech (VLSI Design). & M.Tech (ES) programs and ratified the same.Percentage of new courses introduced in the academic year 2019-2020 for B.Tech (ECE) is 10.47 %, M.Tech (VLSI Design) is 72.22 % and M.Tech (ES) is 69.44 %. The list of new courses is enclosed as Annexure-I.

**Agenda 4.8:** **Discussion on the B.Tech (ECE),M.Tech (VLSI Design) &M.Tech(ES) Programs in which Choice Based Credit System (CBCS)/ElectiveCourse system is being implemented and ratification of the same.**

Members of BOS ratified the choice based credit systems (CBCS)/ Elective Course system that is being implemented in B.Tech (ECE),M.Tech (VLSI Design) &M.Tech(ES) programs.

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**Agenda 4.9:** Discussion on the percentage of syllabus revision done in the B.Tech (ECE), M.Tech (VLSI Design) & M.Tech (ES) programs and ratification of the same.

The syllabus revision was done in the B.Tech (ECE), M.Tech (VLSI Design) & M.Tech (ES) programs based on the stakeholders feedback on curriculum. The BOS members have Approved all the syllabus revisions in B.Tech (ECE), M.Tech (VLSI Design) & M.Tech (ES) programs. The percentage of courses revised in the academic year 2019-2020 for the B.Tech (ECE) is 34.5% M.Tech (VLSI Design) is 72.2% and M.Tech(ES) is 77.7%.The list of courses revised during the academic year 2019-2020 is enclosed as Annexure-II.

**Agenda4.10:** Discussion on the value-added courses offered for students and ratification of the same.

Members of BOS ratified the value- added courses identified for the students to be offered and suggested to include topics related to thrust areas.

**Agenda 4.11:** Analysis of Results

The BOS Chairperson presented the odd and even semesters pass percentage for the A.Y.2018-2019. The BOS members noted the same.

**Agenda 4.12:** Analysis of Students Feedback & Action Taken Report

BOS Chairperson expressed that the student feedback & action taken report process initiated at the end of each semester. The BOS members noted the same.

**Agenda 4.13:** Analysis of Stakeholder's Feedback on Curriculum.

The BOS Chairperson presented the analysis report of Stakeholder's feedback on curriculum. The BOS members noted the same and the Action Taken Report is enclosed as Annexure-III.

**Agenda 4.15:** Any other item/s with the approval of Chairperson.

Suggested to include Industrial oriented internship in III Year I Semester with a period of 2 to 3 weeks with 2 credits and ratified.

**Agenda 4.16:** Scheduling of next Board of Studies meeting.

The next BOS meeting is tentatively scheduled in the month of November 2019.

**Agenda 4.17:** Vote of Thanks

Prof. G. Sridevi, BOS Chairperson presented the Vote of thanks.

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BOS Chairperson

Head of the Department
Department of E.C.E.
Aditya Engineering College (A9)

## Department of Electronics and Communication Engineering

Annexure-I

### List of New Courses in the Academic Year 2019-2020

| S. No | Program | Semester | Course Code | Course Name |
|-------|---------|----------|-------------|-------------|
| 1 | B. Tech (ECE) | I | 191MC1A02 | Constitution of India |
| 2 | B. Tech (ECE) | II | 191PR2P01 | Engineering Exploration Project |
| 3 | B. Tech (ECE) | V | 171HS5T06 | Employability Skills - III |
| 4 | B. Tech (ECE) | VI | 171HS6T07 | Employability Skills - IV |
| 5 | B. Tech (ECE) | II | 191ES2L09 | Electronics Engineering Workshop |
| 6 | B. Tech (ECE) | V | 171EC5S01 | MOOCs – I |
| 7 | B. Tech (ECE) | VI | 171EC6E04 | CPLD and FPGA Architectures |
| 8 | B. Tech (ECE) | VI | 171EC6S02 | MOOCs – II |
| 9 | B. Tech (ECE) | VII | R164104C | System Design through Verilog |
| 10 | M.Tech (VLSID) | I | 192HS1T01 | Research methodology and IPR |
| 11 | M.Tech (VLSID) | I | 192MC1A01 | English for Research Paper Writing |
| 12 | M.Tech (VLSID) | I | 192MC1A02 | Disaster Management |
| 13 | M.Tech (VLSID) | I | 192MC1A03 | Sanskrit for Technical Knowledge |
| 14 | M.Tech (VLSID) | I | 192MC1A04 | Value Education |
| 15 | M.Tech (VLSID) | I | 192MC1A05 | Constitution of India |
| 16 | M.Tech (VLSID) | I | 192MC1A06 | Pedagogy Studies |
| 17 | M.Tech (VLSID) | I | 192MC1A07 | Stress Management by Yoga |
| 18 | M.Tech (VLSID) | I | 192MC1A08 | Personality Development through Life Enlightenment Skills |
| 19 | M.Tech (VLSID) | I | 192MC1A09 | Soft Skills |
| 20 | M.Tech (VLSID) | I | 192VD1E01 | VLSI Technology |
| 21 | M.Tech (VLSID) | I | 192VD1E02 | Nano materials and Nano technology |
| 22 | M.Tech (VLSID) | I | 192VD1E03 | MEMS Technology |
| 23 | M.Tech (VLSID) | I | 192VD1E04 | Device Modelling |
| 24 | M.Tech (VLSID) | I | 192VD1E05 | Nano-Electronics |
| 25 | M.Tech (VLSID) | I | 192VD1E06 | Photonics |
| 26 | M.Tech (VLSID) | I | 192VD1L01 | CMOS Analog IC Design Lab |
| 27 | M.Tech (VLSID) | I | 192VD1L02 | CMOS Digital IC Design Lab |
| 28 | M.Tech (VLSID) | II | 192VD2T03 | Mixed Signal & RF IC Design |

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| 29 | M.Tech (VLSID) | II | 192VD2T04 | Physical Design Automation |
|----|----------------|-----|-----------|----------------------------|
| 30 | M.Tech (VLSID) | II | 192VD2E08 | IoT & Its Applications |
| 31 | M.Tech (VLSID) | II | 192VD2E10 | Microcontrollers & programmable Digital Signal Processors |
| 32 | M.Tech (VLSID) | II | 192EM2E11 | Network Security & Cryptography |
| 33 | M.Tech (VLSID) | II | 192VD2L03 | Mixed Signal IC Design Lab |
| 34 | M.Tech (VLSID) | II | 192VD2L04 | Physical Design Automation Lab |
| 35 | M.Tech (VLSID) | II | 192VD2P01 | Mini Project with Seminar |
| 36 | M.Tech (ES) | I | 192HS1T01 | Research methodology and IPR |
| 37 | M.Tech (ES) | I | 192MC1A01 | English for Research Paper Writing |
| 38 | M.Tech (ES) | I | 192MC1A02 | Disaster Management |
| 39 | M.Tech (ES) | I | 192MC1A03 | Sanskrit for Technical Knowledge |
| 40 | M.Tech (ES) | I | 192MC1A04 | Value Education |
| 41 | M.Tech (ES) | I | 192MC1A05 | Constitution of India |
| 42 | M.Tech (ES) | I | 192MC1A06 | Pedagogy Studies |
| 43 | M.Tech (ES) | I | 192MC1A07 | Stress Management by Yoga |
| 44 | M.Tech (ES) | I | 192MC1A08 | Personality Development through Life Enlightenment Skills |
| 45 | M.Tech (ES) | I | 192MC1A09 | Soft Skills |
| 46 | M.Tech (ES) | I | 192EM1T02 | Microcontrollers and Programmable Digital Signal Processors |
| 47 | M.Tech (ES) | I | 192EM1E01 | Digital Signal and Image Processing |
| 48 | M.Tech (ES) | I | 192EM1E02 | Parallel Processing |
| 49 | M.Tech (ES) | I | 192EM1E03 | VLSI signal processing |
| 50 | M.Tech (ES) | I | 192EM1E04 | Programming Languages for Embedded Systems |
| 51 | M.Tech (ES) | I | 192EM1E05 | System Design with Embedded Linux |
| 52 | M.Tech (ES) | I | 192EM1E06 | CAD for Digital System |
| 53 | M.Tech (ES) | I | 192EM1L01 | Embedded System Design Lab(using Embedded-C) |
| 54 | M.Tech (ES) | I | 192EM1L02 | Microcontrollers and Programmable Digital Signal Processors Lab |
| 55 | M.Tech (ES) | II | 192EM2E07 | Memory Architectures |
| 56 | M.Tech (ES) | II | 192EM2E08 | SoC Design |
| 57 | M.Tech (ES) | II | 192EM2E10 | Communication Buses and Interfaces |
| 58 | M.Tech (ES) | II | 192EM2E12 | Physical Design Automation |
| 59 | M.Tech (ES) | II | 192EM2L04 | Digital System Design Lab |
| 60 | M.Tech (ES) | II | 192EM2P01 | Mini Project with Seminar |

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# ADITYA ENGINEERING COLLEGE

## Department of Electronics and Communications Engineering

### Annexure-II

### List of Courses Revised in the Academic Year 2019-2020

| S. No | Program | Semester | Course Code | Course Name |
|-------|---------|----------|-------------|-------------|
| 1 | B. Tech (ECE) | I | 191HS1T01 | Communicative English-I |
| 2 | B. Tech (ECE) | I | 191BS1T01 | Differential Equations and Linear Algebra |
| 3 | B. Tech (ECE) | I | 191BS1T03 | Applied Physics |
| 4 | B. Tech (ECE) | I | 191ES1T01 | Programming for Problem Solving Using C |
| 5 | B. Tech (ECE) | I | 191HS1L01 | Communicative English Lab-I |
| 6 | B. Tech (ECE) | I | 191BS1L03 | Applied Physics Lab |
| 7 | B. Tech (ECE) | I | 191ES1L01 | Programming for Problem Solving Using C Lab |
| 8 | B. Tech (ECE) | I | 191ES1L02 | Basic Engineering Workshop |
| 9 | B. Tech (ECE) | I | 191MC1A01 | Environmental Science |
| 10 | B. Tech (ECE) | II | 191BS2T08 | Transform Techniques |
| 11 | B. Tech (ECE) | II | 191BS2T09 | Engineering Chemistry |
| 12 | B. Tech (ECE) | II | 91ES2T02 | Engineering Graphics and Design |
| 13 | B. Tech (ECE) | II | 191ES2T07 | Basic Electrical Engineering |
| 14 | B. Tech (ECE) | II | 191HS2L02 | Communicative English Lab -II |
| 15 | B. Tech (ECE) | II | 191BS2L04 | Engineering Chemistry Lab |
| 16 | B. Tech (ECE) | V | 171EC5E01 | Computer Architecture and Organization |
| 17 | B. Tech (ECE) | VI | 171EC6T14 | VLSI Design |
| 18 | B. Tech (ECE) | VI | 171EC6L08 | VLSI lab |
| 19 | B. Tech (ECE) | VI | 171EC6L08 | Digital Communications Lab |
| 20 | B. Tech (ECE) | VII | R1641042 | Digital Image Processing |
| 21 | B. Tech (ECE) | VII | R1641048 | Digital Signal Processing Lab |
| 22 | M. Tech(ES) | II | 192EM2E11 | Network Security and Cryptography |

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## Department of Electronics and Communication Engineering

### Annexure III

### Action Taken Report on Stakeholders Feedback

| S. No | Agenda Item No. | Stakeholders Recommended | Action Taken |
|---|---|---|---|
| 1 | 4.13 | Student should know his/her primary rights, duties and responsibilities as a citizen. Usually this is neglected. It is suggested to include a course where students come to know their rights and duties. | Constitution of India is included in the I semester to facilitate the suggestion. |
| 2 | 4.13 | Focus on course related to entrepreneurship. | Suggestion will be taken forward to the concerned body and changes will be incorporated with proper approval. |
| 3 | 4.13 | The IT field's curriculum is ineffective for students | IT domain specific courses will be introduced more in number based on the concerned body approval |
| 4 | 4.13 | students would benefit if they are provided with practical exposure such as projects or internships in the early semesters itself so that they can be industry ready by the end of their graduation. | Engineering Exploration Project is introduced in the II semester. As a part of this activity, students can interact globally to carry out various projects and can have practical exposure. |
| 5 | 4.13 | There is a tremendous need for engineering and medical collaborative projects and innovations. Students can benefit if a relevant course is made a part of curriculum. | Biomedical Engineering is included in the VI semester, this course provides an insight to the afore said engineering and medical collaborative innovations which can meet the societal needs. |
| 6 | 4.13 | Few specific theory and related laboratory courses are not aligned in the same semester. It would be fruitful if they exist in the same semester. | Care will be taken in this aspect based on the recommendations given by the concerned body. |
| 7 | 4.13 | Include skill-oriented courses so that the students will meet the industry requirements. | Employability Skills courses are introduced in V and VI semesters to facilitate this requirement. |

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| 8 | 4.13 | Students should be encouraged to take part in value-added courses in as many numbers as possible so that they can interact globally | The suggestion will be taken forward to the advisory committee and action will be taken according to the committee recommendations. |
|---|------|---|---|
| 9 | 4.13 | Students should be motivated towards obtaining NPTEL courses which has numerous benefits | The suggestion will be taken forward to the advisory committee and action will be taken according to the committee recommendations and guidelines. |
| 10 | 4.12 | Apart from the existing labs, it would be helpful to the students if a lab is made a part of curriculum which includes hands on session such as soldering, designing and using the electronic components which are used in real time applications. | Electronics Engineering Workshop lab is included in the II semester and the experiments included in the lab are in such a way to meet the requirement as suggested by the students. |
| 11 | 4.12 | Signal processing and image processing courses are vast area where a student can carry research or find a career. Please incorporate course closely related to this domain. It will help the student to a great extent. | CPLD and FPGA Architectures and System Design through Verilog, are introduced in the VI and VII semesters respectively to have an exposure on cutting edge technologies related to signal processing and image processing. |
| 12 | 4.12 | Need more courses which bridges an exposure for the students to keep themselves updated towards trending technologies | Courses with cutting-edge technologies will be included as a part of curriculum with proper approval and recommendations. |
| 13 | 4.13 | Students after entering into the corporate world or in their respective careers, are not able to balance their professional and personal life because of the work stress, this has to be addressed in some or the other way. | It is well known fact and also suggested by our ancestors that YOGA helps an individual in many aspects, especially in stress management. A course Stress Management by Yoga is included in I and II semesters so as to inculcate in daily routine of the students' |
| 14 | 4.13 | Students need guidelines in moulding one's self to get adjusted in the corporate world or when being a part of society. Would be helpful if such guidance is a part of curriculum | Personality Development through Life Enlightenment, Value Education, Pedagogy Studies, Soft Skills facilitates the requirements suggested by the alumni. |
| 15 | | Publications is a part of research and higher studies. Introducing courses closely related in this | English for Research Paper Writing, Pedagogy Studies Mini Project with Seminar |

| | 4.13 | aspect will help students in inculcating the research skills in them. | courses being a part of curriculum will help the students in improving their research skills. |
|----|------|---|---|
| 16 | 4.13 | Students need to be taught about human values, ethics to mould themselves as good citizens. It helps students if such aspects are included in the curriculum | Constitution of India, Sanskrit for Technical Knowledge, Value Education courses are introduced to fulfil the requirements suggested by parents. |
| 17 | 4.12 | Need more hands-on session exposure which facilitates students in practical learning of concepts | CMOS Analog IC Design Lab,CMOS Digital IC Design Lab,Mixed Signal IC Design Lab included in I and II semesters respectively which are VLSI domain specific facilitating students in learning practically. |
| 18 | 4.13 | Students after entering into the corporate world or in their respective careers, are not able to balance their professional and personal life because of the work stress, this has to be addressed in some or the other way. | It is well known fact and also suggested by our ancestors that YOGA helps an individual in many aspects, especially in stress management. A course Stress Management by Yoga is included in I and II semesters so as to inculcate in daily routine of the students' |
| 19 | 4.13 | Students need guidelines in moulding one's self to get adjusted in the corporate world or when being a part of society. Would be helpful if such guidance is a part of curriculum | Personality Development through Life Enlightenment, Value Education, Pedagogy Studies, Soft Skills facilitates the requirements suggested by the alumni. |
| 20 | 4.13 | Publications is a part of research and higher studies. Introducing courses closely related in this aspect will help students in inculcating the research skills in them. | English for Research Paper Writing, Pedagogy Studies Mini Project with Seminar courses being a part of curriculum will help the students in improving their research skills. |
| 21 | 4.13 | Students need to be taught about human values, ethics to mould themselves as good citizens. It helps students if such aspects are included in the curriculum | Constitution of India, Sanskrit for Technical Knowledge, Value Education courses are introduced to fulfil the requirements suggested by parents. |
| 22 | 4.12 | Need more hands-on session exposure which facilitates students in practical learning of concepts | CMOS Analog IC Design Lab,CMOS Digital IC Design Lab,Mixed Signal IC Design Lab included in I and II semesters respectively which |

| | | | are VLSI domain specific facilitating students in learning practically. |
|---|---|---|---|

BOS Chairperson

Head of the Depa.
Department of E.C.
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## Department of Computer Science and Engineering

Date: 22-07-2019

### Minutes of the IV meeting of BOS scheduled on 20-07-2019

The 4th meeting of the BOS of CSE was held on 20th July 2019 at 10.00 AM, Ajivika Conference Hall, Bill Gates Bhavan. Prof A. Vanathi, Chairperson presided over the meeting.

**Agenda 4.1: Welcome address by Chairman**

Prof. A. Vanathi, BOS Chairman invited the distinguished members of BOS to the IV BOS Meeting.

**Agenda 4.2: Ratification of minutes of the previous Board of Studies meeting**

The BOS members have ratified the points discussed in the previous Board of Studies meeting held on 17/11/2018.

**Agenda 4.3: Discussion and ratification of the Vision and Mission of the department and Program Educational Objectives (PEOs), Program Outcomes (POs) and Program Specific Outcomes(PSOs) of the Programs under the Department.**

Members of BOS ratified the Vision and Mission of the department, PEOs, POs and PSOs of the Programs under the Department.

**Agenda 4.4: Discussion on proposed AR19 B. Tech (CSE) program structure, I & II semesters syllabus and ratification of the same.**

The BOS members approved the AR19 B. Tech (CSE) course structure after making the following changes in the proposed syllabi:

- Suggested to include syllabus related to CSE&IT branches in Engineering Chemistry course.
- Suggested to add Open-Source Tools and Generic Cloud services (not as Google or Outlook) in IT Workshop Lab
- Suggested to include C++ syllabus in UNIT-I&II and Data structures syllabus in the remaining units for the Course "Data structures through C++".
- Suggested to include same level of questions in augmented experiments.
- Suggested to name language courses like C, C++, Java, etc., as Interactive Programming-I, II etc., (as course names).
- Suggested to include Management Science in open elective courses or to update the syllabus which includes ethics, IPR and so on.

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- Suggested to include Digital Marketing as one of the course in open electives.
- Suggested to reduce the number of tracks for Professional Elective courses from 5 to 4 and include the courses in the tracks order.
- Suggested to revise the Elective tracks and the courses in it.
- Suggested to include Middleware Technologies course in Elective courses.
- Suggested to extend the Agile methodologies course to Agile methodologies and Devops in Software Engineering Elective track.

**Agenda 4.5: Discussion on proposed AR19 M. Tech (CSE) program structure, I & II semesters syllabus and ratification of the same.**

BOS members approved AR 19 M. Tech (CSE) program structure, I & II semesters syllabus and ratified the same.

**Agenda4.6 : Discussion on the courses having focus on employability / entrepreneurship /skill development in the programs of B. Tech (CSE) and M. Tech, (CSE) and ratification of the same.**

The members of BOS ratified the courses having focus on employability/entrepreneurship/skill development in the AR 19 B. Tech (CSE) and M. Tech (CSE) program.

**Agenda 4.7: Discussion on the new courses offered in the B. Tech (CSE) and M. Tech (CSE) programs and ratification of the same**

Members of BOS noted the new courses offered in the B. Tech (CSE) and M. Tech (CSE) program and ratified the same. The percentage of new courses introduced during the academic year 2019-20 for B. Tech (CSE) is 28.89 % and M. Tech (CSE) is 62.86 %. The list of new courses is enclosed as Annexure-I.

**Agenda 4.8: Discussion on the B. Tech (CSE) and M. Tech (CSE) Programs in which Choice Based Credit System (CBCS)/elective course system is being Implemented and ratification of the same.**

Members of BOS ratified the Choice Based Credit System (CBCS)/elective course system that is being implemented in B. Tech (CSE) and M. Tech (CSE) program.

**Agenda 4.9: Discussion on the percentage of syllabus revision done in the B. Tech (CSE) and M. Tech (CSE) program and ratification of the same.**

The syllabus revisions were done in B. Tech (CSE) and M. Tech (CSE) based on the stakeholders feedback on Curriculum. The BOS members have approved all the syllabus revisions in both B. Tech (CSE) and M. Tech (CSE). The percentage of courses revised in this academic year 2019-20 for B. Tech (CSE) is 32.22 % and M. Tech (CSE) is 74.29 %. The list of courses revised is enclosed as Annexure-II.

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**Agenda 4.10:** Discussion on the value-added courses offered for students and ratification of the same.

Members of BOS ratified the various value- added courses identified for the students to be offered.

**Agenda 4.11: Analysis of Results**

The BOS Chairperson presented the odd and even semesters pass percentage for the A.Y.2018-2019. The BOS members noted the same.

**Agenda 4.12: Analysis of Students Feedback & Action Taken Report**

BOS Chairperson presented the student feedback percentage and action taken report. The BOS members noted the same.

**Agenda 4.13: Analysis of Stakeholder's Feedback on Curriculum**

The BOS Chairperson presented the analysis report of Stakeholder's feedback on curriculum. The BOS members noted the same and advised to incorporate the suggestions as per the feasibility. The Action Taken Report is enclosed as Annexure-III.

**Agenda 4.14: Any other item/s**

- Suggested that every faculty should train on "Design and Thinking", which is useful for handling subjects.
- Suggested to add new technologies in elective courses to fill the gap between industry and academics
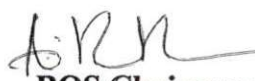- Suggested to provide more industrial training to students.

**Agenda 4.15: Scheduling of the next BOS meeting.**

The next BOS meeting is tentatively scheduled in the month of December, 2019.

**Agenda 4.16: Vote of Thanks**

- Prof. A. Vanathi, BOS Chairperson presented the vote of thanks.

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## Department of Computer Science and Engineering

### Annexure-I

### List of New Courses in the Academic Year 2019-20

| S. No | Program | Semester | Course Code | Course Name |
|-------|---------|----------|-------------|-------------|
| 1 | B. Tech (CSE) | I | 191MC1A02 | Constitution of India |
| 2 | B. Tech (CSE) | II | 191PR2P01 | Engineering Exploration Project |
| 3 | B. Tech (CSE) | II | 191ES2T03 | Essential Electrical and Electronics Engineering |
| 4 | B. Tech (CSE) | II | 191ES2T09 | Data Structures through C++ |
| 5 | B. Tech (CSE) | II | 191ES2L10 | Data Structures Through C++ Lab |
| 6 | B. Tech (CSE) | V | 171HS5T06 | Employability Skills – III |
| 7 | B. Tech (CSE) | V | 171CS5E02 | Advanced Computer Architecture |
| 8 | B. Tech (CSE) | V | 171CS5S01 | MOOCs – I |
| 9 | B. Tech (CSE) | VI | 171HS6T07 | Employability Skills – IV |
| 10 | B. Tech (CSE) | VI | 171CS6E05 | Software Quality Assurance |
| 11 | B. Tech (CSE) | VI | 171CS6E06 | Bio Informatics |
| 12 | B. Tech (CSE) | VI | 171CS6E07 | Human Computer Interaction |
| 13 | B. Tech (CSE) | VI | 171CS6E08 | Social Networks and Semantic Web |
| 14 | B. Tech (CSE) | VI | 171CS6E09 | Pattern Recognition |
| 15 | B. Tech (CSE) | VI | 171CS6E10 | Parallel Computing |
| 16 | B. Tech (CSE) | VI | 171CS6E11 | Storage Area Networks |
| 17 | B. Tech (CSE) | VI | 171CS6E12 | E – Commerce |
| 18 | B. Tech (CSE) | VI | 171CS6S02 | MOOCs – II |
| 19 | B. Tech (CSE) | VII | R1641052 | Software Architecture & Design Patterns |

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| 20 | B. Tech (CSE) | VII | R164105A | Big Data Analysis |
|----|---------------|-----|----------|-------------------|
| 21 | B. Tech (CSE) | VII | R164105B | Information Retrieval Systems |
| 22 | B. Tech (CSE) | VII | R164105F | Scripting Languages |
| 23 | B. Tech (CSE) | VII | R1641057 | Software Architectures & Design Patterns Lab |
| 24 | B. Tech (CSE) | VIII | R164205A | Concurrent and Parallel Programming |
| 25 | B. Tech (CSE) | VIII | R164205B | Artificial Neural Network |
| 26 | B. Tech (CSE) | VIII | R164205C | Operation Research |
| 27 | M. Tech (CSE) | I | 192CS1E04 | Advanced Computer Networks |
| 28 | M. Tech (CSE) | I | 192CS1E06 | Object Oriented Software Engineering |
| 29 | M. Tech (CSE) | I | 192HS1T01 | Research Methodology and IPR |
| 30 | M. Tech (CSE) | I | 192CS1L02 | Advanced Computing Lab |
| 31 | M. Tech (CSE) | II | 192CS2T04 | MEAN Stack Technologies |
| 32 | M. Tech (CSE) | II | 192CS2E07 | Advanced Databases and Mining |
| 33 | M. Tech (CSE) | II | 192CS2E08 | Ad Hoc & Sensor Networks |
| 34 | M. Tech (CSE) | II | 192CS2E09 | Soft Computing |
| 35 | M. Tech (CSE) | II | 192CS2E11 | Principles of computer security |
| 36 | M. Tech (CSE) | II | 192CS2E12 | High Performance Computing |
| 37 | M. Tech (CSE) | II | 192CS2L03 | Machine Learning with Python lab |
| 38 | M. Tech (CSE) | II | 192CS2L04 | MEAN Stack Technologies Lab |
| 39 | M. Tech (CSE) | II | 192CS2P01 | Mini Project with Seminar |
| 40 | M. Tech (CSE) | I | 192MC1A01 | English for Research Paper Writing |
| 41 | M. Tech (CSE) | I | 192MC1A02 | Disaster Management |
| 42 | M. Tech (CSE) | I | 192MC1A03 | Sanskrit for Technical Knowledge |
| 43 | M. Tech (CSE) | I | 192MC1A04 | Value Education |
| 44 | M. Tech (CSE) | I | 192MC1A05 | Constitution of India |

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| 45 | M. Tech (CSE) | I | 192MC1A06 | Pedagogy Studies |
| 46 | M. Tech (CSE) | I | 192MC1A07 | Stress Management by Yoga |
| 47 | M. Tech (CSE) | I | 192MC1A08 | Personality Development through Life Enlightenment Skills |
| 48 | M. Tech (CSE) | I | 192MC1A09 | Soft Skills |

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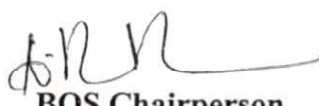Aditya Engineering College
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## Department of Computer Science and Engineering

### Annexure-II

### List of Courses Revised in the Academic Year 2019-20

| S. No | Program | Semester | Course Code | Course Name |
|-------|---------|----------|-------------|-------------|
| 1 | B. Tech (CSE) | I | 191BS1T03 | Applied Physics |
| 2 | B. Tech (CSE) | II | 191BS2T10 | Numerical Methods and Complex Variables |
| 3 | B. Tech (CSE) | V | 171CS5E04 | Software Testing Methodologies |
| 4 | M. Tech (CSE) | I | 192CS1T01 | Mathematical Foundations of Computer Science |
| 5 | M. Tech (CSE) | I | 192CS1E01 | Big Data Analytics |
| 6 | M. Tech (CSE) | I | 192CS1E05 | Internet of Things |
| 7 | M. Tech (CSE) | II | 192CS2T03 | Machine Learning |

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## Department of Computer Science and Engineering

### Annexure-III

### Action Taken Report on Stakeholders Feedback in the Academic Year 2019-20

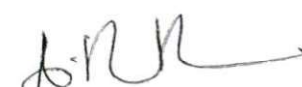| S. No | Agenda Item No. | Stakeholders Recommended | Action Taken |
|-------|-----------------|--------------------------|--------------|
| 1 | 4.13 | Bridge the Gap between Industry Standards and Curriculum | Courses like Engineering Exploration Project, Internship and Socially relevant Project are included in the AR 19 which facilitates the students as industry ready. |
| | | Suggested that every students should have github and linkedIn profile to get connected to Professional Network. | All the students are instructed to create Github account and to push all the source codes developed by them. LinkedIn profile is also created. |
| | | Conduct courses to improve technical skills of students | New courses has been included in the syllabus which are boom in industry now like Artificial Neural Network is included |
| 2 | 4.13 | Motivate the students to participate in various coding contest which helps them to crack higher packages. | The students were given specific training on problem solving, motivated to practice problems in various coding platforms and making them to participate in coding contest like TCS codevita, Infytq, Google kickstart, Virtusa NeuralHack etc., |
| | | The Students must improve the communication skills. | A corporate trainer is appointed for the Soft skill training. The students are engaged in Group Discussion. |

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| | | | Debates etc. The mock interviews are conducted for the students to make them ready for placement drives. |
|---|---|---|---|
| | | Women studies Courses Should be started at UG Level. | - |
| 3 | 4.13 | The orientation of syllabus should be enriched with more case studies. | The case studies are incorporated for the courses like Software Engineering, Object Oriented Analysis Design and Software Testing methodologies in the AR 19 curriculum. |
| | | Syllabus should be more competitive | Revised syllabus for every three years |
| | | Research related course should be developed | R&D centre is available. |
| 4 | 4.12 | Need training to crack the competitive exams | It is decided to provide training for GATE/CAT/ GRE etc. |
| | | Choice based credit courses / audit courses should be included | Audit coursed are included in the syllabus. |
| | | Syllabus satisfying the course objectives | BOS team is completely involved in it. |
| 5 | 4.13 | Add-on skill-based certification courses to be started. | Training and placement cell (to develop a fresher and alumni student database for east talent identification facilitate telephonic/ online interviews are made regular.. |
| | | Students and teaching faculties should be technosavy | Formal instructions were dispersed to competent authority for appropriate actions on the issues of effective use of ICT by teachers. |
| | | Suggested to the BOS to define POs in consultation with a greater number of industries for future syllabi revisions. | Program Objectives be designed in consultation with industries. |

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| | | Evidence based practical demonstration Should be incorporated. | All the teachers were notified about the issue and they were encouraged to have and give more Evidence based training as a part of their curriculum. |
|---|---|---|---|
| 6 | 4.13 | Suggested to university's knowledge Development cell and Central Library to increase number of digitized reference books, share open resource weblinks and subscription links with students, and provide login access to the digital library facilities for digitized learning. | Online access to digital resources(open and subscription) be provided by Library for referencing was made available |
| 7 | 4.13 | E- Waste recycling must be encouraged among students. | Students spread awareness about e waste among student community education program and extension activities. |
| | | Suggested to the higher authorities to develop and extend facility of an independent low bandwidth LMS platform for teaching and evaluation. | Facilities an independent LMS platform for teaching activities and evaluation is made. |
| 8 | 4.12 | Online Library with articles, SCI Papers, Journals need to incorporate. | Planning to develop our own E-Library by the college management. |
| | | Need to provide awareness on plagiarism tools | Awareness program on Research rejuvenation is organized. |

## Department of Information Technology

Date: 23-07-2019

### IV BOS Minutes of Meeting held on 20/07/2019

The 4th meeting of the BOS for IT was held on 20th July 2019 at 10.00AM, Ajivika Conference Hall, Bill Gates Bhavan. Mr. M. Raja Babu, Chairperson presided over the meeting.

**Agenda 4.1: Welcome address by Chairperson-BOS.**

Mr. M. Raja Babu, BOS Chairperson invited the distinguished members of BOS to the IV BOS Meeting.

**Agenda 4.2: Ratification of minutes of the previous Board of Studies meeting**

The BOS members have ratified the points discussed in the previous Board of Studies meeting held on 17/11/2018.

**Agenda 4.3: Discussion on proposed AR19 B.Tech Program structure, AR19 B.Tech(IT) Program – I & II semesters syllabus and ratification of the same.**

The members of BOS ratified the AR 19 I&II Semesters B.Tech syllabus after incorporating the following changes:

• Suggested to name language courses like C, C++ , java ,etc., as Interactive Programming-I, II etc., (as course names).

• Suggested to include Management Science in open elective courses or to update the syllabus which includes ethics, IPR and so on.

• Suggested to include Digital Marketing as one of the course in open electives.

• Suggested to reduce the number of tracks for Professional Elective courses from 5 to 4 and include the courses in the tracks order.

• Suggested to revise the Elective tracks and the courses in it.

• Suggested to include Middleware Technologies course in Elective courses.

• Suggested to extend the Agile methodologies course to Agile methodologies and Devops in Software Engineering Elective track.

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**Agenda 4.4: Discussion on proposed AR19 M.Tech Program structure, AR19 M.Tech Program – I & II semesters syllabus and ratification of the same.**

The members of BOS ratified the AR19 M.Tech Program structure, AR19 M.Tech Program – I & II semesters syllabus and ratification of the same.

**Agenda4.5: Discussion on the courses having focus on employability/entrepreneurship/ skill development in B.Tech (IT) and M.Tech (Software Engineering) programs and ratification of the same.**

The members of BOS ratified the courses having focus on employability/entrepreneurship/skill development in B.Tech (IT) and M.Tech (Software Engineering) programs.

**Agenda 4.6: Discussion on the new courses offered in B.Tech (IT) and M.Tech (Software Engineering) programs and ratification of the same.**

Members of BOS noted the new courses offered in B.Tech (IT) and M.Tech (Software Engineering) programs and ratified the same. The percentage of courses revised in this academic year 2019-2020 for B.Tech (IT) is 36.55% and M.Tech (Software Engineering) is 53.65%. The list of new courses during the academic year 2019-2020 enclosed as Annexure-I.

**Agenda 4.7: Discussion on B. Tech (IT) and M.Tech (Software Engineering) programs, in which Choice Based Credit System(CBCS)/elective course system is being implemented and ratification of the same.**

Members of BOS ratified the Choice Based Credit System (CBCS)/elective course system that is being implemented in B.Tech (IT) and M.Tech(Software Engineering) programs.

**Agenda 4.8: Discussion on the value-added courses offered for students and ratification of the same.**

Members of BOS ratified the value-added courses offered for students.

**Agenda 4.9: Discussion on the percentage of syllabus revision done in B.Tech(IT) and M.Tech(Software Engineering) programs and ratification of the same.**

The Chairperson presented the syllabus revision done in B.Tech (IT) program based on Stakeholder's Feedback on Curriculum and the BOS members approved the same. The percentage of courses revised in this academic year 2019-2020 for B.Tech (IT) is 40.86% and M.Tech (Software Engineering) is 80.48%. The list of courses revised is enclosed as Annexure-II.

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**Agenda 4.10: Analysis of Results**

Members of BOS noted the result analysis presented by the Chairperson for the A.Y.2018-19 and ratified the same.

**Agenda 4.11: Analysis of Students Feedback & Action Taken Report**

The Chairperson expressed the students' feedback and action taken report. Members of BOS noted the students' feedback and action taken report process initiated at the end of each semester. The BOS members noted the same.

**Agenda 4.12: Analysis of Stakeholder's Feedback on Curriculum**

The BOS Chairperson presented the analysis of Feedback on Curriculum which is taken from the various Stakeholders. The BOS members noted the same and advised to incorporate the suggestions as per the feasibility. The Action Taken Report is enclosed as Annexure-III.

**Agenda 4.13: Any other item/s**

- Suggested to conduct induction program for 3 weeks before 1st semester.
- Suggested that every faculty should train on "Design and Thinking", which is useful for handling subjects.
- Suggested to add new technologies in elective courses to fill the gap between industry and academics
- Suggested to provide more industrial training to students.

**Agenda 4.14: Scheduling of the next BOS meeting.**

The next BOS meeting is tentatively scheduled in the month of December,2019.

**Agenda 4.15: Vote of Thanks**

The Chairperson presented the Vote of Thanks.

BOS Chairperson

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# ADITYA ENGINEERING COLLEGE

## Department of Information Technology

## Annexure I

## List of New Courses in the Academic Year 2019-20

| S. No | Program | Semester | Course Code | Course Name |
|-------|---------|----------|-------------|-------------|
| 1 | B. Tech (IT) | I | 191MC1A02 | Constitution of India |
| 2 | B. Tech (IT) | II | 191PR2P01 | Engineering Exploration Project |
| 3 | B. Tech (IT) | II | 191ES2T03 | Essential Electrical and Electronics Engineering |
| 4 | B. Tech (IT) | II | 191ES2T09 | Data Structures Through C++ |
| 5 | B. Tech (IT) | II | 191ES2L10 | Data Structures Through C++ Lab |
| 6 | B. Tech (IT) | V | 171IT5T02 | Computer Networks |
| 7 | B. Tech (IT) | V | 171CS5E02 | Advanced Computer Architecture |
| 8 | B. Tech (IT) | V | 171IT5E01 | Artificial Intelligence |
| 9 | B. Tech (IT) | V | 171IT5S01 | MOOCs – I |
| 10 | B. Tech (IT) | VI | 171IT6E02 | Neural Networks |
| 11 | B. Tech (IT) | VI | 171IT6E03 | Design and Analysis of Algorithms |
| 12 | B. Tech (IT) | VI | 171IT6E04 | Advanced Computer Networks |
| 13 | B. Tech (IT) | VI | 171IT6E05 | Multimedia Programming |
| 14 | B. Tech (IT) | VI | 171IT6L03 | Unified Modeling Language Lab |
| 15 | B. Tech (IT) | VI | 171IT6S02 | Moocs – II |

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| 16 | B. Tech (IT) | VI | 171CS6E05 | Software Quality Assurance |
|----|--------------|------|-----------|----------------------------|
| 17 | B. Tech (IT) | VI | 171CS6E08 | Social Networks And Semantic Web |
| 18 | B. Tech (IT) | VI | 171CS6E10 | Parallel Computing |
| 19 | B. Tech (IT) | VI | 171CS6E12 | E-Commerce |
| 20 | B. Tech (IT) | VII | R1641121 | Data Ware Housing and Business Intelligence |
| 21 | B. Tech (IT) | VII | R164105A | Big Data Analytics |
| 22 | B. Tech (IT) | VII | R164105B | Information Retrieval Systems |
| 23 | B. Tech (IT) | VII | R164112A | Internet of Things |
| 24 | B. Tech (IT) | VII | R164112B | Multimedia Programming |
| 25 | B. Tech (IT) | VII | R164112C | Machine Learning |
| 26 | B. Tech (IT) | VII | R164112D | Decision Support System |
| 27 | B. Tech (IT) | VII | R1641126 | Mobile Computing Lab |
| 28 | B. Tech (IT) | VII | R1641128 | Cryptography and Network Security Lab |
| 29 | B. Tech (IT) | VIII | R1642121 | Management Information System |
| 30 | B. Tech (IT) | VIII | R164212A | Cyber Security |
| 31 | B. Tech (IT) | VIII | R164212B | Software Quality Assurance |
| 32 | B. Tech (IT) | VIII | R164205B | Artificial Neural Networks |
| 33 | B. Tech (IT) | V | 171HS5T06 | Employability Skills-III |
| 34 | B. Tech (IT) | VI | 171HS6T07 | Employability Skills-IV |
| 35 | M. Tech (SE) | I | 192SO1T01 | Software Engineering |
| 36 | M. Tech (SE) | I | 192SO1T02 | Advanced-Data Structures |
| 37 | M. Tech (SE) | I | 192SO1E02 | Machine Learning |

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| 38 | M. Tech (SE) | I | 192CO1E06 | Internet of Things |
|----|--------------|---|-----------|--------------------|
| 39 | M. Tech (SE) | I | 192HS1T01 | Research Methodology and IPR |
| 40 | M. Tech (SE) | I | 192SO1L01 | Advanced-Data Structures Lab |
| 41 | M. Tech (SE) | I | 192SO1L02 | Software Engineering Lab – I |
| 42 | M. Tech (SE) | II | 192SO2T04 | Mathematical Foundations of Computer Science |
| 43 | M. Tech (SE) | II | 192SO2E06 | Software Testing Methodologies |
| 44 | M. Tech (SE) | II | 192SO2E07 | Agile Software Development |
| 45 | M. Tech (SE) | II | 192SO2E11 | Design Patterns |
| 46 | M. Tech (SE) | II | 192SE2L03 | Software Testing Lab |
| 47 | M. Tech (SE) | II | 192SE2L04 | Software Engineering Lab – II |
| 48 | M. Tech (SE) | II | 192SE2P01 | Mini Project with Seminar |
| 49 | M. Tech (SE) | II | 192MC1A01 | English for research paper writing |
| 50 | M. Tech (SE) | II | 192MC1A02 | Disaster Management |
| 51 | M. Tech (SE) | II | 192MC1A03 | Sanskrit for Technical Knowledge |
| 52 | M. Tech (SE) | II | 192MC1A04 | Value Education |
| 53 | M. Tech (SE) | II | 192MC1A05 | Constitution of India |
| 54 | M. Tech (SE) | II | 192MC1A06 | Pedagogy Studies |
| 55 | M. Tech (SE) | II | 192MC1A07 | Stress Management by Yoga |
| 56 | M. Tech (SE) | II | 192MC1A08 | Personality Development through Life Enlightenment Skills |
| 57 | M. Tech (SE) | II | 192MC1A09 | Soft Skills |

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BOS Chairperson

Head of the Department
Department of IT
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## Department of Information technology

## Annexure II

## List of Courses Revised in the Academic Year 2019-20

| S. No | Program | Semester | Course Code | Course Name |
|-------|---------|----------|-------------|-------------|
| 1 | B. Tech (IT) | I | 191BS1T03 | Applied Physics |
| 2 | B. Tech (IT) | II | 191BS2T10 | Numerical Methods and Complex Variables |
| 3 | B. Tech (IT) | V | 171CS5E04 | Software Testing Methodologies |
| 4 | B. Tech (IT) | V | 171IT5L01 | Operating Systems and Computer Networks Lab |
| 5 | M. Tech (SE) | I | 192SO1E05 | Cloud Computing |

BOS Chairperson

*Head of the Department*
Department of IT
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## Department of Information Technology

### Annexure III

### Action Taken Report on Stakeholders Feedback in the Academic Year 2019-20

| S. No | Agenda Item No. | Stakeholders Recommended | Action Taken |
|-------|------|--------------------------|--------------|
| 1 | 4.3 | Suggested to include courses related to Industrial programming knowledge | Programming for Problem Solving using C and Programming for Problem Solving using C courses will be introduced. |
| 2 | 4.3 | Include courses that should focus on data structures | Data Structures Through C++, Data Structures Through C++ Lab, Advanced Data Structures, and Advanced Data Structures Lab courses will be introduced. |
| 3 | 4.11 | Include a seminar course that will make students industry-ready presentations. | As per the suggestion, Seminar course will be added in the coming semesters. |
| 4 | 4.11 | Some courses can be mentioned as Audit Courses. | Environmental Science, Constitution of India, and Essence of Indian Traditional Knowledge courses will be introduced. |
| 5 | 4.3 | Suggested to include some management courses for industrial purpose. | Management Information System and Managerial Economics and Financial Analysis courses will be included. |
| 6 | 4.11 | Suggested to include courses related to trending technologies | Machine Learning, Big Data Analytics and Neural Networks courses will be included. |

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|---|---|---|---|
| 7 | 4.13 | Include some courses that will make the students able to work on new technologies and innovations | The Engineering Exploration Project course has been introduced. |
| 8 | 4.11 | Suggested to include few general courses from different domains | As per suggestion, Engineering Graphics and Design and Constitution of India will be introduced in the coming semesters. |
| 9 | 4.11 | Include courses that will make the students get the domain knowledge of other disciplines | Basic Engineering Workshop, Engineering Graphics, and Design, and Essential Electrical and Electronics Engineering courses have been introduced |
| 10 | 4.11 | Some Courses should focus on providing the basic knowledge of the domain | IT Workshop course has been introduced. |
| 11 | 4.3 | Introduce more elective courses to provide a choice of subjects to be chosen to support the Choice Based Credit System. | Suggestions will be considered and more elective courses will be introduced |
| 12 | 4.11 | Suggested to prescribe textbooks that have global acceptance | As per the suggestion given all the prescribed textbooks for all courses were in accordance with global acceptance. |

BOS Chairperson

*Head of the Department*
**Department of IT**
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## Department of Petroleum Technology

Date: 24-07-2019

### Minutes of the IV meeting of BOS scheduled on 20-07-2019

The IV meeting of the BOS of PT was held virtually on 20-07-2019 at 9.30 AM through Microsoft Teams. Prof R .Giri Prasad, Chairperson presided over the meeting.

**Agenda 4.1: Welcome address by Chairperson- BOS**

Dr. R. Giri Prasad, BOS Chairperson invited the distinguished members of BOS to the IV BOS Meeting.

**Agenda 4.2: Ratification of minutes of the previous Board of Studies meeting**

The BOS members have ratified the points discussed in the previous Board of Studies meeting held on 21-11-2017.

**Agenda 4.3: Discussion and ratification of the Vision and Mission of the department and Program Educational Objectives (PEOs), Program Outcomes (POs) and Program Specific Outcomes (PSOs) of the Programs under the Department.**

The BOS members have ratified the Vision and Mission of the department and Program Educational Objectives (PEOs), Program Outcomes (POs) and Program Specific Outcomes (PSOs) of the Programs under the Department.

**Agenda 4.4: Discussion on proposed AR19 B. Tech (PT) Program structure, AR19 B. Tech (PT) Program – I & II semesters syllabus and ratification of the same.**

The BOS members have ratified the AR19 B. Tech (PT) Program structure, AR19 B. Tech (PT) Program – I & II semesters syllabus
The committee has suggested a few minor modifications in the course content of VI, VII and VIII semester B. Tech AR19 and III and IV semester Honor and Minor degree B. Tech AR20 and approved the same.

1.  BOS members expressed that the names of the courses in AR20 can be changed as
    1) Geology and sedimentology to principles for Petroleum Engineers and Corresponding lab
    2) Chemical Process calculations to Material and Energy Balance
    3) Momentum Transfer to Fluid Mechanics for Petroleum Engineers and corresponding lab
    4) Process Heat Transfer to Heat transfer operations and corresponding lab
2.  BOS members expressed that Unit-V- palynology and its importance in oil exploration in Principles of Geology for Petroleum Engineers.

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3. BOS members suggested minor courses
   1. Fundamentals of Earth Science.
   2. Principles of Petroleum Geophysics
   3. Petroleum Geochemistry
   4. EIA of Oil Field Development

4. BOS members suggested Honor courses
   1. Well site Operations
   2. Drilling Fluids and Cementation for HPHT wells.
   3. Oil and Gas Management
   4. Phase Equilibrium for Petroleum Engineers.

**Agenda 4.5: Discussion on proposed AR19 M. Tech (PE) Program structure, AR19 M. Tech (PE) Program – I & II semesters syllabus and ratification of the same.**

The BOS members have ratified theAR19 M. Tech (PE) Program structure, AR19 M. Tech (PE) Program – I & II semesters syllabus.

**Agenda4.6: Discussion on the courses having focus on employability/entrepreneurship/skill development in the programs of B. Tech (PT), M. Tech (PE) and ratification of the same.**

The BOS members have ratified the courses having focus on employability/entrepreneurship/skill development in the programs of B. Tech (PT), M. Tech (PE).

**Agenda 4.7: Discussion on the new courses offered in the B. Tech (PT), M. Tech (PE) programs and ratification of the same.**

The BOS members have ratified the new courses offered in the B. Tech (PT), M. Tech (PE) programs. The percentage of new courses introduced in the academic year 2019-2020 for B. Tech (PT) is 9.3% and M. Tech (PE) is 57.57%. The list of new courses is enclosed as Annexure-I.

**Agenda 4.8: Discussion on the B. Tech (PT), M. Tech (PE), programs in which Choice Based Credit System (CBCS)/elective course system is being implemented and ratification of the same.**

The BOS members have ratified the B. Tech (PT), M. Tech (PE) programs in which Choice Based Credit System (CBCS)/elective course system.

**Agenda 4.9: Discussion on the value-added courses offered for students and ratification of the same.**

The BOS members have ratified the value-added courses offered for students.

**Agenda 4.10: Discussion on the percentage of syllabus revision done in B. Tech (PT) & M. Tech (PE) programs in comparison with the previous regulations and ratification of the same.**

The BOS members have ratified the percentage of syllabus revision done in the B. Tech (PT) & M. Tech (PE) programs. The percentage of courses revised in this academic year 2019-2020 for B. Tech (PT) is 18.06% and M. Tech (PE) is 52.94 %. The list of courses revised is enclosed as Annexure-II

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## Agenda 4.11: Analysis of Results

The BOS Chairperson presented the even and the odd semesters pass percentage for the A.Y.2018-2019 .The BOS members noted the same and appreciated the faculty.

## Agenda 4.12: Analysis of Students Feedback & Action Taken Report.

The BOS members have discussed regarding analysis of Students Feedback & Action Taken Report.

## Agenda 4.13: Analysis of Stakeholder's Feedback on Curriculum

The BOS chairperson presented the feedback on curriculum from stake holders. The BOS members noted the same and approved the feedback on curriculum. The Action Taken Report on Stakeholders Feedback is enclosed as Annexure-III.

## Agenda 4.14: Any other item/s

1. BOS members expressed that introduced few courses with industry support in future.
2. BOS members appreciated Skill Oriented Courses in AR 20 Regulations.
3. BOS members expressed that to introduce oil and gas industry software related courses in professional Core.

## Agenda 4.15: Scheduling of the next BOS meeting.

The next BOS meeting is tentatively scheduled in the month of December 2019.

## Agenda 4.16: Vote of Thanks

Dr. R. Giri Prasad, BOS Chairperson presented the Vote of thanks.

**BOS Chairperson**

**Head of the Department**
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## Department of Petroleum Technology
## Annexure-I
## List of New Courses in the Academic Year 2019-2020

| S. No | Program | Semester | Course Code | Course Name |
|-------|---------|----------|-------------|-------------|
| 1. | B. Tech (PT) | I | 191MC1A02 | Constitution of India |
| 2. | B. Tech (PT) | II | 191PR2P01 | Engineering Exploration Project |
| 3. | B. Tech (PT) | II | 191ES2L13 | Petroleum Technology Workshop |
| 4. | B. Tech (PT) | V | 171HS5T06 | Employability Skills - II |
| 5. | B. Tech (PT) | V | 171PT5E01 | Well Engineering & Design |
| 6. | B. Tech (PT) | VI | 171PT6E05 | Storage & Transportation of Crude Oil and Natural Gas. |
| 7. | B. Tech (PT) | VI | 171HS6T07 | Employability Skills - IV |
| 8. | B. Tech (PT) | VIII | R164227A | Shale Gas Reservoir Engineering |
| 9. | M. Tech (PE) | I | 192PE1E02 | CBM& Shale Gas Engineering |
| 10. | M. Tech (PE) | I | 192PE1E03 | Transportation of Oil and Gas |
| 11. | M. Tech (PE) | I | 192PE1E04 | Advanced Well Logging Techniques & Well Testing Analysis |
| 12. | M. Tech (PE) | I | 192HS1T01 | Research Methodology and IPR |
| 13. | M. Tech (PE) | I | 192PE1L02 | Drilling Simulation Laboratory |
| 14. | M. Tech (PE) | II | 192PE2E05 | Advanced EOR Techniques |
| 15. | M. Tech (PE) | II | 192PE2E06 | Advanced Well Completions |
| 16. | M. Tech (PE) | II | 192PE2E08 | Advanced Horizontal Well Technology |
| 17. | M. Tech (PE) | II | 192PE2L04 | Flow Assurance Laboratory |
| 18. | M. Tech (PE) | I/II | 192MC1A01/ 192MC2A01 | English for Research Paper Writing |
| 19. | M. Tech (PE) | I/II | 192MC1A02/ 192MC2A02 | Disaster Management |
| 20. | M. Tech (PE) | I/II | 192MC1A03/ 192MC2A03 | Sanskrit for Technical Knowledge |

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| 21. | M. Tech (PE) | I/II | 192MC1A04/ 192MC2A04 | Value Education |
|---|---|---|---|---|
| 22. | M. Tech (PE) | I/II | 192MC1A05/ 192MC2A05 | Constitution of India |
| 23. | M. Tech (PE) | I/II | 192MC1A06/ 192MC2A06 | Pedagogy Studiess |
| 24. | M. Tech (PE) | I/II | 192MC1A07/ 192MC2A07 | Stress Management by Yoga |
| 25. | M. Tech (PE) | I/II | 192MC1A08/ 192MC2A08 | Personality Development through Life Enlightenment Skills |
| 26. | M. Tech (PE) | I/II | 192MC1A09/ 192MC2A09 | Soft Skills |
| 27. | M. Tech (PE) | I/II | 192MC1A01/ 192MC2A01 | English for Research Paper Writing |

BOS Chairperson

Head of the Department
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## Department of Petroleum Technology

## Annexure-II

## List of Courses Revised in the Academic Year 2019-2020

| S. No | Program | Semester | Course Code | Course Name |
|-------|---------|----------|-------------|-------------|
| 1. | B. Tech (PT) | I | 191HS1T01 | Communicative English |
| 2. | B. Tech (PT) | I | 191BS1T01 | Differential Equations and Linear Algebra |
| 3. | B. Tech (PT) | I | 191BS1T02 | Engineering Physics |
| 4. | B. Tech (PT) | I | 191BS1L01 | Engineering Physics Lab |
| 5. | B. Tech (PT) | I | 191MC1A01 | Environmental Science |
| 6. | B. Tech (PT) | II | 191BS2T05 | Partial Differential Equations and Vector Calculus |
| 7. | B. Tech (PT) | II | 191BS2T06 | Chemistry of Materials |
| 8. | B. Tech (PT) | II | 191BS2L04 | Engineering Chemistry Lab |

BOS Chairperson

Head of the Department
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## Department of Petroleum Technology
## Annexure III

### Action Taken Report on Stakeholders Feedback in the Academic Year 2019-2020

| S. No | Agenda Item No. | Stakeholders Recommended | Action Taken |
|---|---|---|---|
| 1. | 4.14 | Employer Incorporation of more industry oriented courses to improve the student employability and knowledge of current industrial trends | Introduction of new courses like well engineering and mud logging |
| 2. | 4.14 | Students should be encouraged to gain lifelong learning skills through MOOCs. | Students are encouraged to take SWAYAM courses in accordance with discussions with deans. |
| 3. | 4.4 | It is better that if the student having lack of application of knowledge in the theoretical aspects and real world project based learning. | According to the feedback given, Engineering Exploration project will be introduced to the curriculum once after the discussion made with Professionals and experts. |
| 4. | 4.8 | Students need to be industry ready with skill sets to gain job. | As per suggestion, additional skill programs in association with APSSDC will be initiated to make the student with technical skill. |
| 5. | 4.5 | Better to have knowledge on MAT LAB and its applications | According to the suggestion, will be taught in the curriculum once after the discussion made with dean academics. |
| 6. | 4.5 | Increase industrial training practically | Internship is made mandatory and thereby the students should take the industry training and to implement a project as part of Internship. |
| 7. | 4.8 | It is better to add additional skill oriented programs to get core jobs. | As per suggestions received value added courses will be initiated |
| 8. | 4.8 | It is better to acquire more advanced and better skills | As per discussions with dean academics some courses implemented as elective courses. |

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| 9. | 4.4 | Suggested that Projects are to be developed and designed by the students that serves the social needs. | As per discussions with dean academics will be included in the curriculum. |
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| 10. | 4.4 | It is better student have basic knowledge on how it is implemented. | According to the feedback given, Engineering Exploration project will be introduced to the curriculum once after the discussion made with Professionals and experts. |
| 11. | 4.6 | Employer Incorporation of more industry oriented courses to improve the student employability and knowledge of current industrial trends | As per suggestions and discussions introduction of new courses like advanced well logging techniques implemented |
| 12. | 4.8 | Better to keep Interdisciplinary elective courses in syllabus | Dean academics has noted and kept in syllabus |
| 13. | 4.14 | It is better to Increase industrial training practically | Internship is made mandatory and thereby the students should take the industry training and to implement a project. |
| 14. | 4.4 | It is better to introduce more advanced courses | As per suggestions and discussions with dean academics some courses implemented in elective courses. |
| 15. | 4.14 | It is better to add additional skill oriented programs to get core jobs. | As per suggestions received CBM and shale gas courses will be initiated |

BOS Chairperson
Head of the Department
Department of Petroleum Technology
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## Department of Agricultural Engineering

Date: 24-07-2019

### Minutes of the IV meeting of BoS scheduled on 20-07-2019

The following points are discussed and recommended by the BoS members of Agricultural Engineering Department

**Agenda 4.1: Welcome address by chairperson BoS**

Mr. Y V Krishna Reddy chairman of BoS invited all the distinguished members of BOS to the fourth BOS meeting.

**Agenda 4.2: Discussion and ratification of the Vision and Mission of the department and Program Educational Objectives(PEOs), Program Outcomes(POs) and Program Specific Outcomes(PSOs) of the Programs under the Department**

The BOS members have ratified the Vision and Mission of the department and Program Educational Objectives (PEOs), Program Outcomes (POs) and Program Specific Outcomes (PSOs) of the Programs under the Ag.E Department.

**Agenda 4.3: Discussion on new course structure for AR19 as per the guidelines of AICTE and APSCHE for B.Tech (Ag.E) program.**

1. Suggested to avoid MS (Management Science) course, if possible.
2. Suggested to keep all fundamental courses as PCC (Professional Core Course's), which are essential for higher education and public service sectors.
3. Suggested to merge the courses theory of machines and thermodynamics as a new subject titled "theory and design of agricultural machinery" with concerned laboratory.
4. Suggested to merge the courses properties and strength of materials and soil mechanics to form a new subject titled mechanics of materials.
5. Suggested to change the title of farm machinery and equipment to Agricultural machinery and equipment.
6. Suggested to merge farm machinery and equipment -1 & 2 as a single course and titled as Agricultural machinery and equipment.

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7. Suggested to split the course design of soil and water conservation and farm structures as design of soil and water conservation structures and agricultural structures.

8. Suggested to change the title of heat and mass transfer to heat transfer and refrigeration system and include the lab laboratory also.

9. Suggested to interchange Groundwater Hydrology subject in III semester with Fluid Mechanics and Open Channel Hydraulics in IV semester courses as well as labs.

10. Suggested to shift dairy and food engineering subject from VI semester to VII semester.

11. Suggested to have the subjects Soil Dynamics in Tillage and Traction and Production Technology in Agricultural Machinery as professional elective 1 and Professional Elective 2 respectively in Farm Machinery Engineering track.

12. Suggested to include Testing of Agricultural Machinery syllabus by referring various testing procedures available at Southern Region Farm Machinery Testing and Training Institute to Design of Agricultural Machinery subject in professional Elective 3 of Farm Machinery Engineering track.

13. Suggested to incorporate two subjects titled as Agricultural Structures and Wastewater Treatment and Management as PE 2 and 4 respectively in Soil and Water Conservation Engineering track.

14. Suggested to rearrangement of subjects in Soil and Water Conservation Engineering tracks in the order of Theory of Structures, Agricultural Structures, Watershed Planning and Management, Wastewater Treatment and Management, Micro Irrigation Engineering and Introduction to Remote Sensing as PE 1, 2, 3, 4, 5 and 6 respectively.

15. Suggested to have Heat Transfer and Refrigeration System instead of Heat and Mass Transfer as Profession Core Course.

16. Suggested to keep Heat Transfer and Refrigeration Systems subject in 4th semester instead of Engineering Properties of Biological Materials and Food Quality (EPBM&FQ) and EPBM as single subject can be kept in Professional Elective 1 of Agricultural Process and Food Engineering track.

17. Suggested to incorporate Food Quality syllabus of EPBM&FQ in Agricultural Process Engineering (APE) subject and also that subject is titled as Agricultural Process Engineering and Food Quality (APE&FQ).

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**Agenda 4.4:** Discussion on proposed AR19 B. Tech (Ag.E) program of I and II Semester syllabus and **ratification of the same.**

Discussed on I and II semesters syllabus and accepted the same.,

**Agenda 4.5:** Discussion on the courses having focus on employability/entrepreneurship/skill development in the B.Tech (Ag.E) program and ratification of the same.

The members of BOS ratified the courses having focus on employability/entrepreneurship/skill development in the B.Tech. (Ag.E). program.

**Agenda 4.6:** Discussion on the new courses offered in the B.Tech. (Ag.E), program and ratification of the same

The BOS members have discussed and approved the new courses introduced in all the B.Tech. (Ag.E), program. The percentage of new courses introduced in the academic year 2019-2020 for B. Tech (Ag.E) is 15.12%. The list of new courses is enclosed as Annexure I.

**Agenda 4.7:** Discussion on the B.Tech (Ag.E), Program in which Choice Based Credit System(CBCS)/elective course system is being implemented and ratification of the same.

Members of BOS ratified the Choice Based Credit System (CBCS)/elective course system that is being implemented in B.Tech (Ag.E), program.

**Agenda 4.8:** Discussion on the percentage of syllabus revision done in all the B.Tech. (Ag.E) programs and ratification of the same.

BoS members discussed and ratified the percentage revision in the courses. The percentage of courses revised in the academic year 2019-2020 for B. Tech (Ag.E) is 32.55%. The percentage of the courses revised is enclosed as Annexure II.

**Agenda 4.9:** Discussion on the value-added courses offered for students and ratification of the same.

Members of BOS ratified the various value- added courses identified for the students to be offered.

**Agenda 4.10: Analysis of Results**

The BOS Chairperson presented the odd semester pass percentage for the A.Y.2018-2019. The BOS members noted the same.

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**Agenda 4.11: Analysis of Students Feedback & Action Taken Report**

Student feedback and action report is presented by BoS Chairperson to the BoS members and BoS members approved the same.

**Agenda 4.12: Analysis of Stakeholder's Feedback on Curriculum**

The BoS chairperson presented the analysis report of Stakeholder's feedback on curriculum. The BOS members noted the same and advised to incorporate the suggestions as per the feasibility. The Action Taken Report is enclosed as Annexure-III.

**Agenda 4.13: Any other items with the approval of chairman**

Suggested to inculcate self-learning practices in students with the adoption of innovative teaching methods.

**Agenda 4.14: Scheduling of the next BOS meeting**

After discussions with BOS members, the next BOS meeting will be planned in the month of November 2019.

**Agenda 4.15: Vote of Thanks**

Mr. Y.V. Krishna Reddy, BOS chairperson presented the Vote of thanks.

BoS Chairperson
Head of the Department
Department of Agricultural Engineering
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## Department of Agricultural Engineering

### Annexure-I

### List of New Courses in the Academic Year 2019-2020

| S. No | Program | Semester | Course Code | Course Name |
|-------|---------|----------|-------------|-------------|
| 1 | B. Tech (Ag.E) | I | 191MC1A02 | Constitution of India |
| 2 | B. Tech (Ag.E) | II | 191ES2T02 | Engineering Graphics and Design |
| 3 | B. Tech (Ag.E) | II | 191ES2L03 | Essential Electrical and Electronics Engineering Lab |
| 4 | B. Tech (Ag.E) | II | 191ES2L14 | Agricultural Engineering Workshop |
| 5 | B. Tech (Ag.E) | II | 191PR2P01 | Engineering Exploration Project |
| 6 | B. Tech (Ag.E) | VI | 171AG5E02 | Rural Water Supply, Sanitation and Environmental Engineering |
| 7 | B. Tech (Ag.E) | VI | 171AG5S01 | MOOCs-1 |
| 8 | B. Tech (Ag.E) | VI | 171HS5T06 | Employability Skills - III |
| 9 | B. Tech (Ag.E) | VI | 171AG6E06 | Green House / Poly House Technology |
| 10 | B. Tech (Ag.E) | VI | 171AG6E07 | Optimization, Operations Research and Systems Engineering |
| 11 | B. Tech (Ag.E) | VI | 171AG6E08 | Industrial Engineering and Management |
| 12 | B. Tech (Ag.E) | VI | 171AG6S02 | MOOCs - II |
| 13 | B. Tech (Ag.E) | VI | 171HS6T07 | Employability Skills - IV |

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## Department of Agricultural Engineering

### Annexure-II

### List of Revised Courses in the Academic Year 2019-2020

| Times | Program | Semester | Course Code | Course Name |
|---|---|---|---|---|
| 1 | B. Tech (Ag.E) | I | 191HS1T01 | Communicative English |
| 2 | B. Tech (Ag.E) | I | 191BS1T01 | Differential Equations and Linear Algebra |
| 3 | B. Tech (Ag.E) | I | 191BS1T02 | Engineering Physics |
| 4 | B. Tech (Ag.E) | I | 191BS1L01 | Engineering Physics Lab |
| 5 | B. Tech (Ag.E) | I | 191MC1A01 | Environmental Science |
| 6 | B. Tech (Ag.E) | II | 191BS2T05 | Partial Differential Equations and Vector Calculus |
| 7 | B. Tech (Ag.E) | II | 191BS2T06 | Chemistry of Materials |
| 8 | B. Tech (Ag.E) | II | 191ES2T02 | Engineering Graphics and Design |
| 9 | B. Tech (Ag.E) | II | 191BS2L04 | Engineering Chemistry Lab |
| 10 | B. Tech (Ag.E) | V | 171AG5T11 | Agricultural Process Engineering |
| 11 | B. Tech (Ag.E) | V | 171AG5T13 | Farm Power and Tractor Systems |
| 12 | B. Tech (Ag.E) | V | 171HS5E01 | Managerial Economics and Financial Analysis |
| 13 | B. Tech (Ag.E) | V | 171AG5L03 | Field Operation and Maintenance of Tractors Lab |
| 14 | B. Tech (Ag.E) | VI | 171AG6L04 | Farm Machinery Lab - I |
| 15 | B. Tech (Ag.E) | VIII | R1642351 | Design of Agricultural Machinery |

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## Department of Agricultural Engineering

### Annexure-III

### Action Taken Report on Stakeholders Feedback in the Academic Year 2019-2020

| S. No | Agenda Item No. | Stakeholders Recommended | Action Taken |
|-------|-----------------|--------------------------|--------------|
| 1 | 4.11 | Suggested to add the courses to improve employability skills for better employability. | As per suggestions, Employability Skills- III & IV will be included in the course curriculum. |
| 2 | 4.8 | Suggested to include courses which helps the student to improve their skills. | VAC will be included in the course curriculum as per suggestions. |
| 3 | 4.11 | Suggested to add machine and structure, cam follower, and springs & removal of governors topics in T&DAM course. | As per suggestions, modifications will be included in the course T& DAM. |
| 4 | | Suggested to add advanced machine designing course | As per suggestions, Computer Aided Drafting Lab will be included in the course curriculum |
| 5 | 4.3 | Suggested to split the course design of soil and water conservation and farm structures as design of soil and water conservation structures and agricultural structures. | As per suggestions, modifications will be included in the course curriculum. |
| 6 | 4.11 | Suggested to keep all the experiments in order in survey and levelling lab as per theory. | As per suggestions, changes will be included in the course curriculum. |
| 7 | 4.3 | Suggested to remove food quality topic from EPBM and include in APE. | As per suggestions, modifications will be included in EPBM & APE courses. |
| 8 | 4.11 | Suggested to add courses related to watershed and unit hydrographs. | As per suggestions, Watershed Management will be included in the course curriculum. |
| 9 | 4.3 | Suggested to merge farm machinery and equipment -1 & 2 as a single course and titled as Agricultural machinery and equipment. | Suggested to merge farm machinery and equipment -1 & 2 as a single course and titled as Agricultural machinery and equipment. |
| 10 | 4.10 | More exposure to field visits to gain practical knowledge. | As per suggestions, more field visits will be conducted in coming semesters. |

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| 11 | . | Suggested to reduce the syllabus of principle of agronomy and soil science course. | As per suggestions and discussions made, certain topics in soil science and agronomy removed in the subject of principle of agronomy and soil science. |
| 12 | | Suggested to include more field visits/ industrial visits. | As per suggestions, required steps will be taken. |

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## Department of Mining Engineering

Dt-29/07/2019

### Minutes of IV BoS meeting conducted on 27-07-2019

**Agenda 4.1: Welcome address by Chairman**

Mr. Satyajeet Parida, Chairman of BoS, invited all the distinguished members of BoS to the IV BOS meeting.

**Agenda 4.2: Discussion and ratification of the Vision and Mission of the department and Program Educational Objectives (PEOs), Program Outcomes (POs) and Program Specific Outcomes (PSOs) of the Programs under the Department.**

The BoS members have ratified the Vision and Mission of the department and Program Educational Objectives (PEOs), Program Outcomes (POs) and Program Specific Outcomes (PSOs) of the Programs under the Min.E Department.

**Agenda 4.3: Discussion on proposed AR19 B.Tech (Min.E) program structure, I & II semesters syllabus and ratification of the same.**

The BoS members approved the AR19 B.Tech (Min.E) course structure after making the following changes in the proposed syllabi:

1. The members have advised to remove the course Managerial Economics and Financial Accounting in III semester as mining specific courses related to this particular area of study is available in the higher semesters of AR-19.
2. In place of Managerial Economics and Financial Accounting (MEFA), the members suggested including 2 surveying related courses, which is more of a necessity for mining. So Mine Surveying –II course is included in IV Semester.
3. Basic Mechanical Engineering was removed from IV semester and added in III semester.

**Agenda4.4:** **Discussion on the courses having focus on employability/entrepreneurship/skill development in the programs of B.Tech. (Min.E), and ratification of the same**

The members of BoS ratified the courses having focus on employability/entrepreneurship/skill development in the B.Tech. (Min.E), program.

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### Agenda 4.5: Discussion on the new courses offered in the B.Tech. (Min.E), programmes and ratification of the same

Members of BOS noted the new courses offered in the B.Tech. (Min.E), and ratified the same. The Percentage of new courses introduced in the academic year 2019-2020 for B. Tech (Min. E) is 17.05%. The list of new courses is enclosed as Annexure-I.

### Agenda 4.6: Discussion on the B.Tech (Min.E), Programmes in which Choice Based Credit System(CBCS)/elective course system is being implemented and ratification of the same.

Members of BoS ratified the Choice Based Credit System (CBCS)/elective course system that is being implemented in B.Tech (Min.E), program.

### Agenda 4.7: Discussion on the percentage of syllabus revision done in B.Tech. (Min.E) programme and ratification of the same.

The percentage change in syllabus was discussed and approved by the BoS members. The percentage of courses revised in the academic year 2019-2020 for B.Tech (Min.E) is 44.31%. The list of courses revised is enclosed as Annexure-II.

### Agenda 4.8: Discussion on the value-added courses offered for students and ratification of the same.

Members of BoS ratified the various value- added courses identified for the students to be offered.

### Agenda 4.9: Analysis of Results

The BoS Chairperson presented the odd and even semesters pass percentage for the A.Y.2018-2019. The BoS members noted the same and appreciated the faculty for the pass percentage.

### Agenda 4.10: Analysis of Students Feedback & Action Taken Report

BoS Chairperson expressed that the student feedback & action taken report process initiated at the end of each semester. In academic year 2018-2019 the average student feedback of the faculty for even and odd semester was taken and the same were noted by the BoS members.

### Agenda 4.11: Analysis of Stakeholder's Feedback on Curriculum

The stakeholder's feedback on curriculum was discussed and applicable considerations were incorporated. The BOS members noted the same and advised to incorporate the suggestions as per the feasibility. The Action Taken Report is enclosed as Annexure-III.

### Agenda 4.12: Any other item/s

1. The members suggested communicating course content delivered in class to the question paper setters.
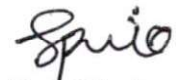
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2.  The members suggested making arrangements for several other mine visits than the compulsory ones included in curriculum.

**Agenda 4.13:  Scheduling of the next BOS meeting.**
The next BoS meeting is tentatively scheduled in the month of December, 2019.

**Agenda 4.14: Vote of Thanks**

- Mr. Satyajeet Parida, BoS Chairperson presented the vote of thanks.

BoS Chairperson

*Head of the Department*
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## Department of Mining Engineering

### Annexure-I

### List of New Courses in the Academic Year 2019-2020

| S. No | Program | Semester | Course Code | Course Name |
|-------|---------|----------|-------------|-------------|
| 1 | B. Tech (Min.E) | I | 191MC1A02 | Constitution of India |
| 2 | B. Tech (Min.E) | II | 191ES2L12 | Mining Engineering Workshop |
| 3 | B. Tech (Min.E) | II | 191PR2P01 | Engineering Exploration Project |
| 4 | B. Tech (Min.E) | V | 171MI5E01 | Maintenance and Reliability Engineering |
| 5 | B. Tech (Min.E) | V | 171MI5E03 | Industrial Management and Labor Relations |
| 6 | B. Tech (Min.E) | V | 171MI5S01 | MOOCs - I |
| 7 | B. Tech (Min.E) | V | 171HS5T06 | Employability Skills - III |
| 8 | B. Tech (Min.E) | VI | 171MI6E06 | Mineral Exploration |
| 9 | B. Tech (Min.E) | VI | 171MI6E07 | Advance Surveying Technology |
| 10 | B. Tech (Min.E) | VI | 171MI6E08 | Mine Subsidence Engineering |
| 11 | B. Tech (Min.E) | VI | 171MI6S02 | MOOCs - II |
| 12 | B. Tech (Min.E) | VI | 171HS6T07 | Employability Skills - IV |
| 13 | B. Tech (Min.E) | VII | R1641261 | Computer Applications in Mining |
| 14 | B. Tech (Min.E) | VII | R1641267 | Computer Applications in Mining Lab |
| 15 | B. Tech (Min.E) | VIII | R1642261 | Mine Economics & Investment |

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BoS Chairperson
**Head of the Department**
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## Department of Mining Engineering

### Annexure-II

### List of Courses Revised in the Academic Year 2019-2020

| S. No | Program | Semester | Course Code | Course Name |
|-------|---------|----------|-------------|-------------|
| 1 | B. Tech (Min.E) | I | 191HS1T01 | Communicative English |
| 2 | B. Tech (Min.E) | I | 191BS1T01 | Differential Equations and Linear Algebra |
| 3 | B. Tech (Min.E) | I | 191BS1T02 | Engineering Physics |
| 4 | B. Tech (Min.E) | I | 191BS1L01 | Engineering Physics lab |
| 5 | B. Tech (Min.E) | I | 191ES1L02 | Basic Engineering Workshop |
| 6 | B. Tech (Min.E) | I | 191MC1A01 | Environmental Science |
| 7 | B. Tech (Min.E) | II | 191BS2T05 | Partial Differential Equations and Vector Calculus |
| 8 | B. Tech (Min.E) | II | 191BS2T06 | Chemistry of Materials |
| 9 | B. Tech (Min.E) | II | 191ES2T02 | Engineering Graphics and Design |
| 10 | B. Tech (Min.E) | II | 191ES2T03 | Essential Electrical and Electronics Engineering |
| 11 | B. Tech (Min.E) | II | 191ES2T04 | Engineering Mechanics |
| 12 | B. Tech (Min.E) | II | 191BS2L04 | Engineering Chemistry Lab |
| 13 | B. Tech (Min.E) | V | 171MI5T11 | Basic Geo Mechanics |
| 14 | B. Tech (Min.E) | V | 171HS5T04 | Managerial Economics and Financial Analysis |
| 15 | B. Tech (Min.E) | V | 171MI5E02 | Mine Construction and Management |
| 16 | B. Tech (Min.E) | V | 171MI5L03 | Rock Mechanics Lab |

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| 17 | B. Tech (Min.E) | VI | 171MI6T14 | Mineral Processing Technology |
|----|-----------------|-----|-----------|-------------------------------|
| 18 | B. Tech (Min.E) | VI | 171MI6T16 | Mining Machinery |
| 19 | B. Tech (Min.E) | VI | 171MI6E04 | Advanced Geo Mechanics |
| 20 | B. Tech (Min.E) | VI | 171MI6E05 | Mine Fire and Spontaneous Heating |
| 21 | B. Tech (Min.E) | VI | 171MI6E09 | Rock Fragmentation Engineering |
| 22 | B. Tech (Min.E) | VI | 171MI6L05 | Mineral Processing Technology Lab |
| 23 | B. Tech (Min.E) | VII | R164126A | Rock Slope Engineering |

BoS Chairperson

**Head of the Department**
DEPARTMENT OF MINING ENGINEERING
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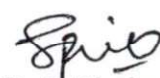
## Department of Mining Engineering

### Annexure III

### Action Taken Report on Stakeholders Feedback in the Academic Year 2019-2020

| S. No | Agenda Item No. | Stakeholders Recommended | Action Taken |
|-------|-----------------|--------------------------|--------------|
| 1 | | Students are lacking in modern surveying tools in the mining field such as Total station surveying, GPS, etc | To make students understand modern surveying techniques one more surveying Course has been added to the curriculum namely: <br><br> • Mine Surveying -II |
| 2 | 4.11 | Mining students are lacking in basic communication skills only few students are good rest are need to be improve. | Different communicative skills courses are added to the curriculum such as: <br><br> ✓ Communicative English <br><br> ✓ Communicative English lab–I <br><br> ✓ Communicative English Lab-II |
| 3 | | Mining students should have depth knowledge about different exploration techniques used for the mineral exploration. | To make students aware of different exploration techniques required in the mining field the following course has been included in the curriculum <br><br> ✓ Mineral Exploration |
| 4 | | Mining students should be aware of mine subsidence engineering that will help them in different underground mines. | The importance of the mine subsidence is well understood and the same has been included in the curriculum |

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| | | | | • Mine Subsidence Engineering |
| 5 | | | Students should possess knowledge in the feasibility report of a mine and should have the ability to calculate the loss and profit aspect of a mining project. | To make the student aware of feasibility report of a mine and profit and loss aspect of the mine the following course are included in the curriculum they are:<br><br>• Mine Economics & Investment |
| 6 | | | The Importance of surveying has drastically increase in the mining as lot of new techniques has been in used the surveying. | To make student aware of modern surveying tools one for surveying subject has included in the curriculum<br><br>✓ Mine Surveying-II |
| 7 | | | The courses which increase the placement of the student should be included in the curriculum. | The course which increases the possibility of the student's placements in the upcoming years are as follows:<br><br>• Internet of Things |
| 8 | | 4.11 | The no of employability skills in the curriculum should be increased. | The importance of employability skills are well understood so more no of employability skills are included in the curriculum they are:<br><br>• Employability Skills – III<br>• Employability Skills - IV |
| 9 | | | Apart from underground, surface mining, high wall mining, etc. Mining has also started in the sea and ocean which is very new technique in itself so it should be included in the Curriculum. | The importance of the course is well understood and the same has been included in the curriculum namely:<br><br>✓ Deep sea mining |

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| 10 | | The MOOCs course should be included in the curriculum. | As per the suggestion following Moocs course has been included they are:<br><br>• MOOCs – I<br>• MOOCs - II |
| 11 | 4.10 | The students should be aware of latest computer application in the mining field | The course which address the computer application in the mines are as follows:<br><br>• Computer Applications in Mining<br>• Computer Applications in Mining Lab |
| 12 | 4.10 | Students should be made ready for public speaking skills so that they can speak publicly fluently in mining related courses. | For increasing the skills of students of public speaking they are encouraged for participating in different conferences which help in national and international level. Final syllabus also has subjects which increase their skills they are:<br><br>✓ Seminar<br>✓ Project |

BoS Chairperson
*Head of the Department*
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## Department of Management Studies

Date: 26-07-2019

### Minutes of the IV meeting of BOS scheduled on 20/07/2019

The IV meeting of the BOS of Management Studies was held on 20th July2019 at 11.00 AM at Cotton Bhavan Conference hall. Dr. N. Visalakshi, Chairperson presided over the meeting.

**Agenda 4.1: Welcome address by Chair Person-BOS. .**

Dr. N.Visalakshi, BOS Chairperson, invited all the distinguished members of BOS to the IV Board of Studies meeting.

**Agenda 4.2: Ratification of minutes of the previous Board of Studies meeting**

BOS Members have ratified the previous BOS meeting minutes.

**Agenda 4.3: Discussion on proposed AR19 MBA Program structure, AR19 MBA Program - I & II semesters syllabus and ratification of the same.**

BOS members accepted the syllabus of AR19 MBA Program - I & II semesters syllabus semester(s), and ratified the same.

**Agenda 4.4: Discussion on proposed AR19 IMBA Program structure, AR19 IMBA Program - I & II semesters syllabus and ratification of the same.**

BOS members accepted the syllabus of AR19 IMBA Program - I & II semesters syllabus semester(s), and ratified the same.

**Agenda 4.5: Discussion on the courses having focus on employability / entrepreneurship /skill development in the programmes of MBA & IMBA and ratification of the same.**

The members of BOS ratified the courses having focus on employability/ entrepreneurship/ skill development in the AR19 MBA& IMBA programme.

**Agenda 4.6: Discussion on the new courses offered in the AR19 MBA& IMBA programme and ratification of the same.**

Members of BOS noted the new courses offered in the AR19 MBA &IMBA programme and ratified the same. The percentage of new courses introduced in the academic year 2019-20 for MBA is 18.6% and for IMBA is 48%. List of new courses is enclosed as Annexure-I.

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**Agenda 4.7: Discussion on the value-added courses offered for MBA&IMBA students and ratification of the same.**

Members of BOS ratified the value-added courses offered for MBA & IMBA students.

**Agenda 4.8: Analysis of Results**

Members of BOS noted the result analysis presented by the Chairperson for the A.Y.2018-19 and ratified the same.

**Agenda 4.9: Discussion on the AR19 MBA& IMBA Programmes in which choice based credit system/elective courses system is being implemented and ratification of the same**

BOS members accepted choice based credit system/elective courses system is being implemented and ratified the same

**Agenda 4.10: Discussion on the percentage of syllabus revision done in MBA and IMBA programs and ratification of the same.**

The Chairperson presented that of syllabus revision done in MBA and IMBA programs and the BOS members approved the same. The percentage of courses revised in the academic year 2019-20 for MBA is 25.4% and for IMBAis 48%. List of courses revised is enclosed in Annexure-II.

**Agenda 4.11: Analysis of Stakeholder's Feedback on Curriculum**

The BOS Chairperson presented the analysis report of Stakeholder's feedback on curriculum. The BOS members noted the same and advised to incorporate the suggestions as per the feasibility. The Action Taken Report is enclosed as Annexure-III.

**Agenda 4.12: Any other items.**

i. Suggested to students that they should select as open elective for the course of MBA-1 semester either with cross cultural management or rural innovation projects or MOOCS related management courses other than the courses listed in the syllabus.

ii. Suggested to students that they should select as open elective for the course of MBA-II semester either with the project management or Technology management or Lean management or DBMS

**Agenda 4.13: Analysis of Students Feedback & Action Taken Report**

The Chairperson expressed the students' feedback and action taken report. Members of BOS noted the students' feedback and action taken report process initiated at the end of each semester. The BOS members noted the same

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## Department of Management Studies

### Annexure-I

### List of New Courses in the Academic Year 2019-20

| S. No | Program | Semester | Course Code | Course Name |
|-------|---------|----------|-------------|-------------|
| 1. | MBA | I | 194MB1T01 | Management and Organizational Behavior. |
| 2. | MBA | I | 194MB1L01 | Business Communication and Soft Skills Lab. |
| 3. | MBA | I | 194MB1O01 | Cross Cultural Management. |
| 4. | MBA | I | 194MB1O02 | Rural Innovation Projects. |
| 5. | MBA | I | 194MBMOOC1 | MOOCs: SWAYAM/NPTEL. |
| 6. | MBA | II | 194MB2O05 | Technology Management. |
| 7. | MBA | II | 194MB2O06 | Lean Management. |
| 8. | MBA | II | 194MB2O07 | Data base Management System. |
| 9. | MBA | II | 194MB2O04 | Project Management. |
| 10. | MBA | II | 194MB1L02 | Information Technology – Lab – I (Spreadsheet and Tally). |
| 11. | MBA | II | 194MB2L03 | IT-Lab – 2 (R Programming). |
| 12. | IMBA | VII | 16IM701 | Knowledge Management |
| 13. | IMBA | VII | 16IM702 | Strategic Cost Management |

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| 14. | IMBA | VII | 16IM703A | HR Planning |
|-----|------|-----|----------|-------------|
| 15. | IMBA | VII | 16IM704B | Leadership Management |
| 16. | IMBA | VII | 16IM705C | Compensation and Reward Management |
| 17. | IMBA | VII | 16IM703D | Security Analysis |
| 18. | IMBA | VII | 16IM704A | Banking and Insurance Management |
| 19. | IMBA | VII | 16IM705B | Advanced Management Accounting |
| 20. | IMBA | VII | 16IM703C | Consumer Behavior |
| 21. | IMBA | VII | 16IM704D | Rural Marketing |
| 22. | IMBA | VII | 16IM705A | Supply Chain Management |
| 23. | IMBA | VII | 16IM703B | E-Business |
| 24. | IMBA | VII | 16IM704C | RDBMS |
| 25. | IMBA | VII | 16IM705D | Web Designing |
| 26. | IMBA | VIII | 16IM801A | Total Quality Management |
| 27. | IMBA | VIII | 16IM802B | Project Management |
| 28. | IMBA | VIII | 16IM803C | Performance Management |
| 29. | IMBA | VIII | 16IM804D | Strategic Human Resource Management |
| 30. | IMBA | VIII | 16IM805A | Organizational Development & Change Management |
| 31. | IMBA | VIII | 16IM803B | Strategic Financial Management |
| 32. | IMBA | VIII | 16IM804C | Portfolio Management |
| 33. | IMBA | VIII | 16IM805D | Financial Markets and Services |
| 34. | IMBA | VIII | 16IM803A | Customer Relationship Management |
| 35. | IMBA | VIII | 16IM804B | Strategic Marketing Management |

| 36. | IMBA | VIII | 16IM805C | Services Marketing |
| 37. | IMBA | VIII | 16IM803D | System Analysis & Design |
| 38. | IMBA | VIII | 16IM804A | Business Intelligence |
| 39. | IMBA | VIII | 16IM805B | Enterprise Resource Planning |

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**BOS Chairperson**

Head of the Department
Department of Management Studies
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## Department of Management Studies

## Annexure-II

## List of Courses Revised in the Academic Year 2019-20

| S. No | Program | Semester | Course Code | Course Name |
|-------|---------|----------|-------------|-------------|
| 1 | MBA | I | 194MB1T02 | Managerial Economics |
| 2 | MBA | I | 194MB1T03 | Accounting for Managers |
| 3 | MBA | I | 194MB1T04 | Quantitative Analysis for Business Decisions |
| 4 | MBA | I | 194MB1T05 | Legal and Business Environment |
| 5 | MBA | I | 194MB1T06 | Business Communication and Soft Skills |

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## Department of Management Studies

## Annexure III

## Action Taken Report on Stakeholders Feedback in the Academic Year 2019-20

| S. No | Agenda Item No. | Stakeholders Recommended | Action Taken |
|-------|-----------------|--------------------------|--------------|
| 1. | 4.11 | Employer suggested to have open electives courses | As per Discussion Rural Innovation Projects( 194MB1O02), Technology (194MB2O05)Management, Lean Management( 194MB2O06)& Data base Management System(194MB2O07) are offered as open electives in $1^{st}$ and $2^{nd}$ semesters |
| 2. | 4.11 | Encourage the students to complete more skill oriented courses | As per discussions value added course with hand on training will be implemented |
| 3. | 4.11 | Suggested to have more skill oriented courses in curriculum | As per Discussion Project management course (194MB2O04) is included in curriculum |
| 4. | 4.11 | It is better to acquire more advanced and better skills | IT-Lab – R Programming (194MB2L03) is included in academics |
| 5. | 4.11 | Students should have Communication Skills lab | Business communication & soft skills lab(194MB1L01) is included in curriculum |
| 6. | 4.11 | Student should have knowledge on spreadsheet and | As per discussions Information Technology – Lab – I (Spreadsheet |

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| | | tally | and Tally) is included in Curriculum. |
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| 7. | 4.11 | Students should be encouraged to enroll in SWAYAM's | Students are encouraged to take Swayam courses in accordance with discussions with deans. |
| 8. | 4.11 | Suggested To add new & trendy topics in QABD | As per discussions Baye's Theorem-Probability Distributions, Binominal, Poisson, Normal & Exponential Probability Distributions in Quantitative Analysis for Business Decisions |
| 9. | 4.11 | New recent updating topics should add in Managerial economics and QABD | As per discussions Theory of Firm, CES Production functions are added in Managerial economics(194MB1T02) |
| 10. | 4.11 | Encourage the students to complete more skill oriented courses | As per discussions value added course with hand on training will be implemented. |
| 11. | 4.11 | Student interview skills should be enhanced | Mock Interview sessions are included along with regular academics |
| 12. | 4.11 | Suggested to have more Global level exposure for students | Two Guest lectures are planned per semester |
| 13. | 4.11 | Students should be encouraged to enroll in SWAYAM's | Students are encouraged to take Swayam courses in accordance with discussions with deans. |
| 14. | 4.11 | Suggested to have more reference books in curriculum | Reference books and text books are finalized by BOS members. |
| 15. | 4.11 | More case studies have to discuss with students | Case studies are given to Students and ask them to submit along with assignments. |
| 16. | 4.11 | Requested to Dress code relaxation in summer | It is planned to give dress code exemption for April and may month |

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| 17. | 4.11 | Every a day last hour students are suggested to have FIP hours to clear subject doubts | Because of Theory and GD and jam programs FIP hour is not given in time table. Class hour planned to one hour, after every class 10 minutes is given to question section. . |
| 18. | 4.11 | Presentation skills have to be improved | It is planned to conduct student seminars in the class room. |
| 19. | 4.13 | Every a day last hour students are suggested to have FIP hours to clear subject doubts | Because of Theory and GD and jam programs FIP hour is not given in time table. Class hour planned to one hour .after every class 10 minutes is given to question section. |
| 20. | 4.13 | Requested Dress code exemption in summer | April and may dress code exemption is given for students. |
| 21. | 4.13 | Presentation skills have to be improved | Presentations skills chapter is included in Business Communication and Soft Skills(194MB1T06) |

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**BOS Chairperson**

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## Department of Master of Computer Applications

Date: 25/07/2019

### Minutes of the 4th Meeting of BOS Scheduled on 20/07/2019

The IV meeting of the BOS of Master of Computer Applications Department was held on

20-07-2019 at 09.30 AM.

The Members discussed the agenda items and made the following resolutions.

**Agenda 4.1: Welcome address by Chairperson-BOS.**

Prof.D Beulah, BOS Chairperson invited the distinguished members of BOS to the IV BOS Meeting.

**Agenda 4.2: Ratification of minutes of the previous Board of Studies meeting**

The BOS members have ratified the points discussed in the previous Board of Studies meeting held on 17/11/2018.

**Agenda 4.3: Discussion on proposed AR19 MCA Program structure, AR19 MCA Program – I & II semesters syllabus and ratification of the same.**

The members of BOS ratified the AR19 I & II Semesters MCA syllabus after incorporating the following changes:

- Suggested to name language courses like C, C++, java, etc., as Interactive Programming-I, II etc., (as course names).
- Suggested to revise the Elective tracks and the courses in it.
- Suggested to include Natural Language Processing course in Elective courses.

**Agenda 4.4: Discussion on the courses having focus on employability/ entrepreneurship/ skill development in the programmes of AR19 MCA and ratification of the same.**

The members of BOS ratified the courses having focus on employability/ entrepreneurship/ skill development in the AR20 MCA program.

**Agenda 4.5: Discussion on the new courses offered in the MCA programme and ratification of the same.**

Members of BOS noted the new courses offered in the MCA programme and ratified the same. The Percentage of new courses introduced during in the academic year 2019-2020 for MCA is 10%. The list of new courses is enclosed as Annexure-I.

**Agenda 4.6: Discussion on the AR19 MCA programme in which Choice Based Credit System(CBCS)/elective course system is being implemented and ratification of the same.**

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Members of BOS ratified the Choice Based Credit System (CBCS)/elective course system that is being implemented in MCA program.

**Agenda 4.7: Discussion on the value-added courses offered for students and ratification of the same.**

Members of BOS ratified the value-added courses offered for students.

**Agenda 4.8:Discussion on the percentage of syllabus revision done in MCA program and ratification of the same.**

The Chairperson presented the percentage of syllabus revision done in MCA program and the BOS members approved the same. The Percentage of Courses Revised in the Academic Year 2019-2020 for MCA is 14%. The list of courses revised during is enclosed as Annexure-II.

**Agenda 4.9: Analysis of Results**

Members of BOS noted the result analysis presented by the Chairperson for the A.Y.2019-20 and ratified the same.

**Agenda 4.10: Analysis of Students Feedback & Action Taken Report**

The Chairperson expressed the students' feedback and action taken report. Members of BOS noted the students' feedback and action taken report process initiated at the end of each semester. The BOS members noted the same.

**Agenda 4.11: Analysis of Stakeholder's Feedback on Curriculum**

The BOS Chairperson presented the analysis of Feedback on Curriculum which is taken from the various Stakeholders. The BOS members noted the same and advised to incorporate the suggestions as per the feasibility. The Action Taken Report is enclosed as Annexure-III.

**Agenda 4.12: Any other item/s**

- Suggested to conduct induction program for 3 weeks before 1st semester.
- Suggested that every faculty should train on "Design and Thinking", which is useful for handling subjects.
- Suggested to add new technologies in elective courses to fill the gap between industry and academics
- Suggested to provide more industrial training to students.

**Agenda 4.13: Scheduling of the next BOS meeting.**

The next BOS meeting is tentatively scheduled in the month of December, 2019.

**Agenda 4.14: Vote of Thanks**

The Chairperson presented the Vote of Thanks.

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BOS Chairperson
Head of the Department
Department of MCA
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## Department of Master of Computer Applications

## Annexure-I

## List of New Courses in the Academic Year 2019-2020

| S. No | Program | Semester | Course Code | Course Name |
|-------|---------|----------|-------------|-------------|
| 1 | MCA | I | 193MC1L03 | IT Workshop (Lab) |
| 2 | MCA | II | 173MC2L06 | Operating System & Computer Graphics Lab |
| 3 | MCA | V | 173MC5T21 | Python Programming |
| 4 | MCA | V | 173MC5E08 | Computer Forensics |
| 5 | MCA | V | 173MC5E10 | Internet of Things |

BOS Chairperson

Head of the Department

Department of MCA

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## Department of Master of Computer Applications

## Annexure-II

## List of Courses Revised in the Academic Year 2019-2020

| S. No | Program | Semester | Course Code | Course Name |
|-------|---------|----------|-------------|-------------|
| 1 | MCA | I | 19MC1T01 | Problem solving with c |
| 2 | MCA | I | 19MC1T02 | Computer organization |
| 3 | MCA · | I | 19MC1L01 | English language communication skill lab |

**BOS Chairperson**
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## Department of Master of Computer Applications

## Annexure-III

## Action Taken Report on Stakeholders Feedback in the Academic Year

## 2019-2020

| S. No | Agenda Item No. | Stakeholders Recommended | Action Taken |
|---|---|---|---|
| 1 | 4.12 | To make students aware of the importance of computers, fundamentals of computer hardware and software, and Microsoft Office Word, Excel, Access, and PowerPoint. | As per the suggestion given by the employer, IT Workshop Lab will be introduced in the 1$^{st}$ semester. |
| 2 | 4.12 | Suggested that every students should have github and linkedIn profile to get connected to Professional Network. | All the students are instructed to create Github account and to push all the source codes developed by them. LinkedIn profile is also created. |
| 3 | 4.12 | Improve the technical skill in recent technologies | Imparted the recent technology-based courses in the curriculum like IOT and Artificial intelligence. |
| 4 | 4.10 | Impart practical knowledge among students, make them work on more and more projects. | As per the suggestions given by the alumni, the special technical training classes are conducted after 3:30 PM. |
| 5 | 4.3 | Suggested to include Digital Marketing and Natural Language Processing courses in elective list. | Added the two courses as per the suggestion. |
| 6 | 4.12 | Suggested to provide industrial training to students | As per the suggestions implant/internship training is provided. |
| 7 | 4.4 | Knowledge of logical reasoning and aptitude should be imparted. | Logical reasoning and aptitude classes are conducted. |
| 8 | 4.4 | To establish research and innovations thoughts into the student minds | Providing access to the students and making them to read e-journals. |
| 9 | 4.10 | Allowing the students in solving and practice the nationwide | Encouraging the students in participating online coding |

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| | | issues. | competitions for finding the solutions |
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| 10 | 4.10 | Basic knowledge on Industry requirements from Alumni should be imparted. | Organized guest lecture on Industry requirements from Alumni. |
| 11 | 4.12 | Placement and training should be more emphasized. | A team is established to train and place the students in huge number. |
| 12 | 4.12 | More practical knowledge sharing on current technologies is required. | Technical seminars and workshop are being arranged with industry experts |

*Beulal*

**BOS Chairperson**
*Head of the Department*
Department of MCA
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