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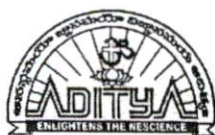
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Feedback on Curriculum Highlighted BOS Meeting Minutes

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Department of Civil Engineering

Date: 10-10-2020

Minutes of the VI meeting of BOS scheduled on 10-10-2020

The VI meeting of the BOS of Civil Engineering was held virtually on 10-10-2020 from 09:30 AM via Microsoft teams. Mr. P.Ravi Kishore, chairman presided over the meeting. The following points were discussed and recommended by the BOS members for approval by the Academic Council.

Agenda 6.1: Welcome address by Chairperson

Mr. P. Ravi Kishore, Chairperson of BOS, invited all the distinguished members of BOS to the VI BOS meeting.

Agenda 6.2: Ratification of minutes of the previous Board of Studies meeting.

- Discussed regarding the minutes of the previous board of studies meeting and the members have ratified the same.

Agenda 6.3: 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 6.4: Discussion on proposed AR19 B.Tech (CE) IV and V semester and AR19 M.Tech (Structural Engineering) syllabus and finalisation of the same.

- BOS members approved and ratified AR19 M.Tech (Structural Engineering) III and IV Semester syllabus. After detailed discussions with the BOS members on the AR19 B.Tech (CE) IV semester & V semester syllabus, the following suggestions are made for ratification

IV Semester:

- Construction Materials and Concrete Technology
 - Latest patterns in Concrete Technology to be included like, importance of blended concrete, nano-concrete
 - Testing procedures should be incorporated with ACT, water penetrating and chloride penetrating tests
- Strength of Materials - II
 - In textbooks S. Ramamrutham to be included
- Hydraulics and Hydraulic Machinery
 - In textbooks latest editions with publications years to be included

V Semester:

- Design and Drawing of Reinforced Concrete Structures
 - In textbooks N.Subrahmanyam to be removed and AK Jain and Devdas Pillai to be included

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- In reference books include textbook authored by Krishna raj, Thayal & Goel and N. Subrahmanyam
- Geotechnical Engineering Lab
 - BC Punmia book to be added in reference books
- Professional Elective - I
 - Constructional Technology and Management
 - Legal requirements to be taken in consideration
 - Quality management system to be included
 - Environmental health and safety to be included
 - Airport planning and design
 - Safety measures in airport to be included
 - Tabletop airports (Cochin) also to be included
 - Urban Hydrology
 - Surface water run-off management to be included
 - Ground water recharge to be included
 - Environmental pollution and control
 - Industrial bi-product management to be included
 - Safety measures related to employees exposure to illumination in industries to be included

Agenda 6.5: Discussion on proposed AR20 B.Tech (CE) First Year Program structure and ratification of the same.

- The members of BOS ratified the AR20 B.Tech(CE) First Year Program structure.

Agenda 6.6: Discussion on proposed AR20 B.Tech (CE) Program – I & II semesters syllabus and ratification of the same.

- The members of BOS ratified the AR20 B.Tech(CE) Program – I & II Semesters Syllabus.

Agenda 6.7: Discussion on proposed AR 19 M.Tech (Structural Engineering) Program – III & IV semesters syllabus and ratification of the same.

- The members of BOS ratified the AR 19 M.Tech (Structural Engineering) Program – III & IV semesters syllabus.

Agenda 6.8: Discussion on the courses having focus on employability/ entrepreneurship/ skill development in the programmes of 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 AR20 B.Tech (CE) program.


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Agenda 6.9: Discussion on the new courses offered in the B.Tech (CE) and M.Tech (Structural Engineering) programmes and ratification of the same

Members of BOS noted the new courses offered in the B.Tech (CE) and M.Tech (Structural Engineering) programs and ratified the same. The percentage of new courses introduced in the academic year 2020-21 for B. Tech (CE) is 7.61% and M. Tech (Structural Engineering) is 11.90%. The list of new courses during the academic year 2020-2021 enclosed as Annexure-I.

Agenda 6.10: Discussion on the B.Tech (CE) and M.Tech (Structural 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 (CE) and M.Tech (Structural Engineering) programs and ratified the same.

Agenda 6.11: 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 and suggested to include topics related to thrust areas.

Agenda 6.12: Discussion on the percentage of syllabus revision done in the B.Tech (CE) and 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 stakeholders' feedback on Curriculum. The BOS members have approved all the syllabus revisions in B. Tech (CE) and M. Tech (Structural Engineering). The percentage of courses revised in the academic year 2020-21 for B.Tech (CE) is 10.86 % and M.Tech(Structural Engineering) is 48.08%.The list of courses revised is enclosed as Annexure-II.

Agenda 6.13: Discussion on Analysis of Results.

- The BOS Chairperson presented the even and odd semesters pass percentage of the A.Y. 2019-2020. The BOS members noted the same and appreciated the faculty for obtaining 89% in V semester.

Agenda 6.14: Analysis of student feedback & action taken report

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

Agenda 6.15: 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.

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Agenda 6.16: Any other item with the approval of Chairperson.

- Suggested to mention that a minimum of one week duration for Survey Camp as Special note.
- Suggested to release the list of MOOC courses in advance by college.
- Suggested to include/highlight the contents that are to be delivered by industry experts in syllabus of each course (if any).
- Suggested to include "mode of delivery" (ex: chalk and talk, PPT, flip classroom and tutorial hour) in lesson plan (Content wise).

Agenda 6.17: Scheduling of next Board of Studies of meeting.

- Discussed regarding the scheduling of the next BOS meeting. The next BOS meeting would be in the month of March/April-2021.

Agenda 6.18: Vote of Thanks.

- Vote of thanks was presented by Mr. P. Ravi Kishore BOS Chairperson.



**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 2020-2021

S. No	Program	Semester	Course Code	Course Name
1.	B. Tech (CE)	III	191MC3A04	Essence of Indian Traditional Knowledge
2.	B. Tech (CE)	IV	191MC4A06	Biology for Engineers
3.	B. Tech (CE)	III	191ES3T10	Internet of Things
4.	B. Tech (CE)	III	191CE3T04	Computer aided civil engineering drawing
5.	B. Tech (CE)	VII	171CE7E11	Watershed Management
6.	B. Tech (CE)	VII	171CE7E12	Design of Tall Buildings
7.	B. Tech (CE)	VIII	171CE8O07	Green Engineering Systems
8.	M. Tech (Structural Engineering)	III	192ST3E14	Structural Health Monitoring
9.	M. Tech (Structural Engineering)	III	192ST3O01	Repair & Rehabilitation of Structures
10.	M. Tech (Structural Engineering)	III	192ST3O02	Green Building Systems
11.	M. Tech (Structural Engineering)	III	192ST3O03	Basic Concrete Technology
12.	M. Tech (Structural Engineering) Structural Engineering	III	192ST3O04	Basic Foundation Engineering

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AnnexureII

List of courses revised in the academic year 2020-2021

S. No	Program	Semester	Course Code	Course Name
1	B. Tech (CE)	I	201ES1I01	Engineering Graphics
2	B. Tech (CE)	III	191BS3T11	Integral transforms and applications of Partial Differential Equations
3	B. Tech (CE)	IV	191BS4T16	Numerical methods & Statistical Techniques (CE, ME, Ag. E)
4	M. Tech (Structural Engineering)	III	192ST3E13	Design of Prestressed Concrete


BOS Chairperson

Head of the Department
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Department of civil engineering

Annexure III

Action taken report on Stakeholders Feedback in the Academic Year 2020-2021

S. No	Agenda Item No.	Stakeholders Recommended	Action Taken
1	6.7	Multidisciplinary work nature is to be habituated to the students	As the recruitment trends are demanding for more and more software related core knowledge implementation skills, emphasis is given to software related courses like 3D modelling using Revit as skill-oriented course in the AR20 Curriculum.
	6.3	Expertise in the specific areas	Students securing greater than 8 CGPA are provided with an option of a warding a B.Tech Honours degree in a specialized area of Civil Engineering by completing four additional courses in each semester from fourth semester Onwards.
	6.15	More focus on practical and field knowledge	As a measure of improving the practical approach in students in solving the domain problems, compulsory Surveying camp report submission introduced in the UG level of AR20 B.Tech program.
2	6.10	Students shall be counselled and guided for continuing their higher studies not only in India, but also abroad.	Students reformed that APSSDC initiated master's Program in Germany in association Indo-Euro Synchronization and German varsity for advanced studies.
	6.7	Suggested to incorporate the latest software for skill development of students and making the industry ready	Incorporation of skill-oriented courses like, ANSYS Civil in AR20 Curriculum.
	6.7	It was suggested that improvised experiments such as 3-D photogrammetric and contour mapping be included in the lab.	Based on your feedback, we will revise the lab syllabus.

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3	6.9	Need to incorporate latest developments in industry recommended subjects.	The latest course like safety engineering was included under open electives in the curriculum.
	6.7	Suggested students to participate in skill development programs to sustain in industry.	Students were encouraged to register for certification courses in Google Sketch up, STAADPRO conducted in college.
	6.7	Suggested to give students an idea of the importance of civil engineering and job and research opportunities.	We offer a training program for freshers.
4	6.7	Better to skill-oriented courses to students.	As per the suggestions skill-oriented classes are initiated.
	6.7	Guest lectures are required to achieve the goals.	Guest lecturers will visit the college and give motivational speeches based on suggestions.
	6.15	To provide more insights, various teaching and learning methods must be used.	Various teaching methods, such as quizzes, role plays, seminars, PPTs, and so on, are being implemented in response to suggestions.



BOS Chairperson
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Department of Electrical and Electronics Engineering

Date: 15-10-2020

Minutes of the VI meeting of BOS scheduled on 10-10-2020

The VI meeting of the BOS of EEE was held virtually on 10th October 2020 at 10.00 AM through Microsoft Teams. Dr. V. Srinivasa Rao, Chairperson presided over the meeting.

Agenda 6.1: Welcome address by Chairperson

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

Agenda 6.2: 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 19/11/2019.

Agenda 6.3: 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 6.4: Discussion on proposed AR19 B.Tech (EEE) program IV & V Semesters syllabus and ratification of the same.

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

- BOS members suggested that in the Power Systems-I course the first course related to Power Systems, power generation principles and types of power generation can be add in Unit-I. The thermal and nuclear content may be reduced if time not sufficient to cover the syllabus.
- BOS members suggested that in the Electrical Machines-I Lab, the in augmented experiments, the transient analysis, step voltage change simulation experiments can be performed rather than the conventional experiments in simulation.
- BOS members suggested that in the Renewable energy resources course, the BOS members suggested changing the Maximum Power Point Techniques as Maximum Power Point tracing techniques/ methods.


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Agenda 6.5: Discussion on proposed AR20 B. Tech (EEE) First Year Program structure and ratification of the same.

The members of BOS ratified the AR20 B. Tech (EEE) First Year Program structure.

Agenda 6.6: Discussion on proposed AR20 B. Tech (EEE) Program – I & II semesters syllabus and ratification of the same.

- The members of BOS ratified the AR20 B. Tech (EEE) Program – I & II semesters syllabus
- BOS members have discussed the syllabus of Constitution of India course to be offered in II semester.

Agenda 6.7: Discussion on proposed AR19 M. Tech (PED) Program – III & IV semesters syllabus and ratification of the same.

The members of BOS ratified the AR19 M. Tech (PED) Program – III & IV semesters syllabus.

Agenda 6.8: Discussion on the courses having focus on employability/ entrepreneurship/ skill development in the programs of B. Tech (EEE) and M. Tech (PED) and ratification of the same.

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

Agenda 6.9: 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 20-21 in the B. Tech (EEE) is 12.9% and M. Tech (PED) is 3.12% programs and ratified the same. The list of new courses during the academic year 2020-21 enclosed as Annexure-I.

Agenda 6.10: 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 6.11: 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 6.12: Discussion on the percentage of syllabus revision done in the B. Tech (EEE) and M. Tech (PED) programs and ratification of the same.

The syllabus revision were done in B. Tech (EEE) and M. Tech (PED) based on the stakeholders feedback on curriculum. The BOS members have approved all the syllabus revisions for the academic year 2020-2021 in B. Tech (EEE) is 17.2% and M. Tech (PED) is 46.87%. The list of courses revised is enclosed as Annexure-II.

Agenda 6.13: Discussion on 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.

Agenda 6.14: 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 6.15: 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 6.16: Any other item/s.

BOS members expressed that in the next course structure revision, keep one more power electronics course as the power electronics gained as major research in electrical engineering.

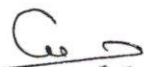
Agenda 6.17: Scheduling of next Board of Studies meeting.

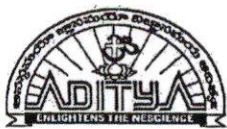
The next BOS meeting is tentatively scheduled in the month of September 2021.

Agenda 6.18: Vote of Thanks

Dr. V. Srinivasa Rao, BOS Chairperson presented the Vote of Thanks.


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BOS Chairperson
Head of The Department
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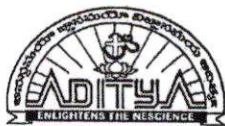
Annexure-I

List of New Courses in the Academic Year 2020-2021

S. No	Program	Semester	Course Code	Course Name
1	B. Tech (EEE)	II	201ES2L06	Data Structures through C Lab
2	B. Tech (EEE)	III	191ES3T11	Python programming
3	B. Tech (EEE)	III	191ES3L15	Python programming Lab
4	B. Tech (EEE)	III	191MC3A04	Essence of Indian Traditional Knowledge
5	B. Tech (EEE)	IV	191BS4T17	Numerical methods & Complex Variables
6	B. Tech (EEE)	IV	191MC4A06	Biology for Engineers
7	B. Tech (EEE)	VII	171EE7E12	Digital Signal Processing
8	B. Tech (EEE)	VII	171EE7E16	EHVAC Transmission
9	B. Tech (EEE)	VIII	171EE8O01	Energy Audit, Conservation and Management
10	B. Tech (EEE)	VIII	171EE8O06	Vehicular Electric Power Systems
11	B. Tech (EEE)	VIII	171EE8O07	Internet of Things
12	B. Tech (EEE)	VIII	171EE8O08	Cyber Security
13	M. Tech (PED)	III	192PD3E13	Digital Signal Processing Controlled Drives
14	M. Tech (PED)	III	192PD3E15	Modeling & Simulation of Power Electronic Systems

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Department of Electrical and Electronics Engineering

Annexure-II

List of Courses Revised in the Academic Year 2020-2021

S. No	Program	Semester	Course Code	Course Name
1	B. Tech (EEE)	I	201ES1I01	Engineering Graphics and Design
2	B. Tech (EEE)	III	191BS3T12	Transform Techniques
3	B. Tech (EEE)	III	191MC3A03	Employability Skills-I
4	B. Tech (EEE)	IV	191MC4A05	Employability Skills –II


BOS Chairperson

Head of the Dept.
Dept. Of Electrical & Electronics Engg.
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Department of Electrical and Electronics Engineering

Annexure-III


Action Taken Report on Stakeholders Feedback in the Academic Year 2020-2021

S. No	Agenda Item No.	Stakeholders Recommended	Action Taken
1.	6.8	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 20 B.Tech (EEE)
2.	6.9	Application of electrical subjects with software programming is required for the students to get better placement opportunities in core and software domain.	As per the employer feedback, application oriented courses like "IoT Applications of Electrical Engineering and Design of Circuits using Matlab Software" are included in curriculum. Also, value added courses like "Arduino programming and PCB design" are provided to the students.
3.	6.4	Keeping the future in mind, the course "Renewable Energy Sources" is to be modified.	The "Renewable Energy Sources" will be modified by keeping the future energy sources in mind
4.	6.16	Students are encouraged to know the practical appliance of power electronic devices in industry side, so that they can get the jobs easily.	Considering employer feedback, students will be encouraged for the industrial visits, so that they can gain practical knowledge and importance of the power electronic appliances.
5.	6.10	More open elective courses are to be included in the curriculum so that the students can have the vast information exchange	Taking Alumni feedback into consideration, the open electives number has increased from 3 to 4 in AR20 curriculum.
6.	6.4	The experiments of Electrical Machine Lab-1 are to be modified and those are to be made useful for real life applications.	Considering the alumni feedback, necessary arrangements will be made and the experiments of Electrical Machine Lab-1 will be modified.
7.	6.14	Student-centred guest presentations should be encouraged	The department will host guest lectures from renowned institutions and industry sectors in response to input from alumni.

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8.	6.11	Value added courses are to be planned for M.Tech Students in such a way that the concepts of EEE can be designed and developed using software technologies.	Courses like "Electrical Circuits and control block design using MATLAB" will be included in curriculum.
9.	6.4	The course "Power System-I" is vast and the time is not sufficient to complete the whole syllabus in prescribed interval.	Considering Teacher Feedback, the contents such as thermal and nuclear content will be removed from unit-I in "Power System-I".
10.	6.4	Maximum power generation techniques like maximum power point techniques are to be included in the Renewable energy sources.	The course structure "Renewable Energy Sources" will be modified and the suggestions will be implemented.
11.	6.3	The vision and mission of the department are to be revised based on the changes made in the AR 17, AR19 and AR 20 curriculum.	Based on the modifications in the syllabus of AR 17, AR19 and AR 20 curriculum, the vision and mission of the department will be modified and steps are to be taken for ratification.
12.	6.4	Semester III & IV 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 for semester III & IV respectively.
13.	6.15	Various teaching and learning methods need to follow to give more insights about each and every course like role play, seminars etc.	In all the possible courses all the types of teaching and learning techniques are introduced, department encourages to teach the students in effective manner via PPT, video demonstrations.
14.	6.12	New courses are to be added in the AR20 B.Tech programme	Necessary plans and steps will be taken for adding the new courses in the AR20 B.Tech programme
15.	6.11	Value added courses with software back ground are to be introduced.	Value added courses like "Electrical Circuits and control block design using MATLAB and Arduino programming" will be planned for AR 19 students.
16.	6.15	Students are motivated for higher education and research backgrounds.	A new subject named "Research Methodology and IPR" will be designed and included in the curriculum in such a way that students can get an idea of carrying research.


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 BOS Chairperson
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Department of Mechanical Engineering

Date: 12-10-2020

Minutes of the VI meeting of BOS Scheduled on 10-10-2020

The VI meeting of the BOS (Board of Studies) of ME was held virtually on 10-10-2020 at 9.30 AM through Microsoft Teams. Prof Bh. Vara Prasad, Chairperson presided over the meeting.

Agenda 6.1: Welcome address by Chairperson-BOS

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

Agenda 6.2: 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 23/11/2019.

Agenda 6.3: 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 ratified the Vision and Mission of the department, PEOs, POs and PSOs of the Programs under the Department.

Agenda 6.4: Discussion on proposed AR19 B.Tech (ME) Program – IV & V semesters syllabus and ratification of the same.

The members of BOS ratified the AR19 B.Tech (ME) IV & V Semesters Syllabus after making the following changes:

- Suggested to add topics - "Lubrication & Cooling systems", "Introduction to Supercharging" and "Turbocharging" in the course "Thermal Engineering -1".

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- Suggested to introduce “Internet based virtual labs” and “Simulation Experiments” in augmented experiments in the course “Production Technology laboratory”.
- Suggested to add topic “Limits and Tolerances” for both practice and examinations by providing data book. Also suggested to include “Machine Drawing by N.D.Bhatt, Charotar Publishing House” as a text book in the course Machine Drawing.
- Suggested to add the following books as text books and reference books in the course “Dynamics of Machinery”.

Text Books:

- i. “Theory of machines by Thomas Bevan, Pearson Education India, 3rd Edition”.
- ii. “Theory of Machines and Mechanisms by P.L.Ballaney, Khanna Publications”.

Reference books:

- i. “Theory of Mechanisms and Machines by Amitab Ghosh and A. K. Mallik, East West Press”.
- Suggested to add the following books as text books and reference books in the course “Thermal Engineering-II”.

Text Books:

- i. “Thermodynamics and Heat Engines, Volume- II, R.Yadav, Central publishing house, 6th Edition”
- ii. “Heat Engineering by V.P Vasandani and D.S Kumar, Metropolitan Book Company 6th Edition”

Reference books:

- i. “Thermal Engineering, P.L.Ballaney, Khanna publishers, 25th Edition”
 - ii. “Thermal Engineering, M.L.Mathur & Mehta, Jain bros, 6th Edition”
- Suggested to add “Introduction to Automotive Electric Vehicles” in the course “Automobile Engineering”.
 - Suggested to add “Fabrication Methods of Composites” as unit-III and “Introduction to Manufacturing Techniques” in unit-IV & unit -V. Also advised to add “Mechanics of Composite Materials by Robert M. Jones. CRC Press. 2nd Edition” as text book in the course “Composite Materials”.

- Suggested to change the name of course “Fluid Engineering” as “Fluid Machinery”. Also advised to include “Mechanics of fluids by Bernard Massey” as reference book in the course “Fluid Engineering”.
- Suggested to include “Metrology and Instrumentation” as core subject if possible.
- Suggested to add latest technologies such as “VAT-Photo polymerization process”, “Material Jetting Binder Jetting”, “Extrusion based system”, “Sheet lamination process”, “Powder bed system”, “Directed energy deposition” in the course “3D- Printing”.
- Suggested to add “Power Transmission Devices” as unit-IV in the course “Fundamentals of Mechanical Engineering”.
- Suggested to add “Economical Speed Test on IC Engines” as augmented experiment in the course “Thermal Engineering Laboratory”.

Agenda 6.5: Discussion on proposed AR20 B.Tech (ME) First Year Program structure and ratification of the same.

The members of BOS ratified the AR20 B.Tech (ME) First Year Program structure.

Agenda 6.6: Discussion on proposed AR20 B.Tech (ME) Program – I & II semesters syllabus and ratification of the same.

The members of BOS ratified the AR20 B.Tech (ME) I & II semesters syllabus.

Agenda 6.7: Discussion on proposed AR19 M.Tech (TE) Program – III & IV semesters syllabus and ratification of the same.

The members of BOS ratified the AR19 M.Tech (TE) program- III & IV semesters syllabus.

Agenda 6.8: Discussion on the courses having focus on employability/entrepreneurship/skill development in the programs of B.Tech (ME) and M.Tech (TE) and ratification of the same.

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

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Agenda 6.9: Discussion on the new courses offered in the B.Tech (ME) and M.Tech (TE) programs and ratification of the same

The Members of BOS noted the new courses offered in the B.Tech (ME) and M.Tech (TE) programs and ratified the same. The percentage of courses introduced in the academic year 2020-2021 for B.Tech (ME) Program is 10.7% and M.Tech (TE) Program is 10 %. The list of courses introduced is enclosed as Annexure-I.

Agenda 6.10: Discussion on the B.Tech (ME) and M.Tech (TE) programs in which Choice Based Credit System(CBCS)/elective course system 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 6.11: Discussion on the value-added courses offered for students and ratification of the same.

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

Agenda 6.12: Discussion on the percentage of syllabus revision done in the B.Tech (ME) and M.Tech (TE) programs and ratification of the same.

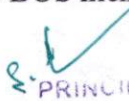
The syllabus revisions were done in B.Tech (ME) and M.Tech (TE) based on the stake holders feedback on curriculum. The BOS members have approved all the syllabus revisions in B.Tech (ME) and M.Tech (TE). The percentage of courses revised in the academic year 2020-2021 for B.Tech (ME) Program is 22.61% and M.Tech (TE) Program is 44.28%. The list of courses revised is enclosed as Annexure-II.

Agenda 6.13: 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.

Agenda 6.14: Analysis of Students Feedback & Action Taken Report

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


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Agenda 6.15: Analysis of Stake holder'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 in Annexure III.

Agenda 6.16: Any other item with the approval of Chairman.

NIL

Agenda 6.17: Scheduling of next Board of Studies meeting.


The next BOS meeting is tentatively scheduled in the month of April 2021.

Agenda 6.18: Vote of Thanks

The chairperson presented the Vote of Thanks.


BOS Chairperson

Head of the Department
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Department of Mechanical Engineering

Annexure-I

List of New Courses in the Academic Year 2020-21

S. No	Program	Semester	Course Code	Course Name
1	B. Tech (ME)	II	201ES2L12	Computer Aided Drafting Lab
2	B. Tech (ME)	III	191MC3A04	Essence of Indian Traditional Knowledge
3	B. Tech (ME)	IV	191BS4T16	Numerical Methods & Statistical Techniques
4	B. Tech (ME)	IV	191MC4A06	Biology for Engineers
5	B. Tech (ME)	IV	191ES4T15	Internet of Things
6	B. Tech (ME)	VII	171ME7E15	Flexible Manufacturing Systems
7	B. Tech (ME)	VIII	171ME8O01	Java Programming
8	B. Tech (ME)	VIII	171ME8O02	Electrical Safety & Management
9	B. Tech (ME)	VIII	171ME8O03	Entrepreneur Resource Planning
10	M. Tech (TE)	III	192TE3E18	Design and Analysis of Experiments
11	M. Tech (TE)	III	192TE3E20	Waste to Energy
12	M. Tech (TE)	III	192TE3O01	Energy Systems
13	M. Tech (TE)	III	192TE3O02	Fuels and Combustion
14	M. Tech (TE)	III	192TE3O03	Green Engineering Technology
15	M. Tech (TE)	III	192TE3O04	IC Engines
16	M. Tech (TE)	III	192TE3O05	Automotive Technology


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BOS Chairperson

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Department of Mechanical Engineering

Annexure-II

List of Courses Revised in the Academic Year 2020-21

S. No	Program	Semester	Course Code	Course Name
1	B. Tech (ME)	I	201ES1T05	Engineering Graphics
2	B. Tech (ME)	III	191BS3T11	Integral Transforms & Applications of Partial Differential Equations
3	B. Tech (ME)	III	191ME3T02	Computer Aided Engineering Drawing Practice
4	B. Tech (ME)	IV	191ME4T07	Kinematics of machinery
5	B. Tech (ME)	IV	191ME4T08	Thermal Engineering – I
6	B. Tech (ME)	IV	191ME4L04	Computer aided machine drawing
7	B. Tech (ME)	VII	171ME7T17	Mechatronics
8	B. Tech (ME)	VII	171ME7T18	Finite Element Methods
9	B. Tech (ME)	VII	171ME7E13	Gas dynamics
10	B. Tech (ME)	VIII	171ME7L07	CAD/CFD Lab
11	B. Tech (ME)	VIII	171ME7L08	CAM/Mechatronics Lab
12	B. Tech (ME)	VIII	171ME8E18	Thermal Equipment Design
13	B. Tech (ME)	VIII	171ME8O06	Computer Graphics

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BOS Chairperson

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Department of Mechanical Engineering

Annexure III

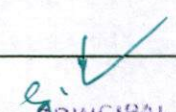
Action Taken Report on Stakeholders Feedback in the Academic Year

2020-21

S. No	Agenda Item No.	Stakeholders Recommended	Action Taken
1	6.15	Suggested that students need to have an insight in solving real world problems.	Environmental science and Biology for engineers is included in the I, III semesters which gives an introduction and insight to real world problems related to biomedical engineering, environmental sustainability.
2		Suggested that students are strong enough in employability skills	Employability skills-I, II, III, IV courses were restructured in the AR 20 Curriculum and simultaneously practicing.
3		Suggested strong industry exposure to the students.	AEC has signed MoU's with renowned industries to cater the students to aware of real time applications and recent trends in Industries. Internship is made mandatory. Regular Visit to Industry.
4	6.15	Programming for problem solving using C and Programming for problem solving using C lab courses are included in I semester. It will be a difficult task for fresh mechanical engineering graduate to handle software background courses in the very first semester.	Programming for problem solving using C and Programming for problem solving using C lab courses included in the second semester of AR 20 syllabus.
5	6.15	Engineering Graphics and design are included as a single subject in the I semester.	Engineering Graphics and Computer Aided Drafting lab are divided into subject and lab course and are included in I and II semesters of AR 20 syllabus.


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6	6.15	Essential Electrical and Electronics Engineering, Essential Electrical and Electronics Engineering lab, Mechanical Engineering work shop lab are included in same semester	Essential Electrical and Electronics Engineering, Essential Electrical and Electronics Engineering lab are included in I semester and Engineering work shop lab is included in II semester.
7	6.15	Suggested to involve advanced courses based on specialization.	Existing AR20 curriculum was modified and developed for B. Tech Honours and B.Tech Minor degree programs and as well as different advanced courses were also added as a part of respective curriculum.
8	6.4	Inputs from subject experts to improve the curriculum	Various curriculum developments committees are formed based on different specializations like Thermal, Design, Manufacturing, CAD/CAM etc., and their suggestions were incorporated after consent from Board of studies and Academic Council.
9	6.15	Suggested free access to online journals.	Free access facility was provided to faculty and research scholars and students. Recently college has introduced mLibrary for off-campus access to cater its resources and services to the user community effectively even in situations like Covid- 19.
10	6.14	Please design the curriculum in such a way that the students come across department related courses in the early semester itself.	Computer Aided Machine Drawing Practice course is included in the curriculum in the III semester which is one of the core subjects of Mechanical Engineering course.
11	6.14	Students get benefitted if coding or programming related course is introduced in the early semesters so that by the end of the graduation the student will be industry ready.	Skill oriented courses like JAVA programming and PYTHON Programming are introduced in the III and IV semesters to have an exposure on cutting edge technologies.


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12	6.14	Thermal Engineering is an important course for Mechanical Engineering branch. Please provide much insight to the course	Thermal Engineering-I, Thermal Engineering Lab is introduced in IV semester to provide hands-on and practical experience on the course and it is made sure that the theory and lab courses are included in the same semester.
13	6.15	It is better if PG students are provided an in - depth understanding of numerical and experimental techniques in heat and fluid flow.	According to the suggestions, optimization techniques with real time applications using CFD will be introduced.
14	6.15	Due to the tremendous growth in IT industry, it is better to get known to programming related courses.	As per suggestions, IT related courses will be implemented as OE such as Machine Learning and IOT etc.
15	6.15	Inputs from subject experts to improve the curriculum.	Various curriculum developments committees are formed based on specialization like thermal and their suggestions will be incorporated after consent from board of studies and academic council.
16	6.14	It is better to give access to online journals and books.	Free access facility was provided to faculty and research scholars and students. Recently college has introduced mLibrary for off - campus access to cater its resources and services to the user community effectively even in situations like COVID - 19.


BOS Chairperson


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Department of Electronics and Communication Engineering

Date: 22-10-2020

Minutes of the VI Meeting of BOS Scheduled on 10-10-2020

The VI meeting of Board of studies of Electronics and Communication Engineering Department was held on 10-10-2020 at 09.30 AM through online in Microsoft Teams. The Members discussed the agenda items and made the following resolutions.

Agenda 6.1: Welcome address by Chairperson- BOS.

Dr. G. Sridevi, BOS Chairperson invited the distinguished members of BOS to the VI BOS Meeting.

Agenda 6.2: 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 Department.

Agenda 6.3: Discussion on proposed AR19 B.Tech (ECE) Program – IV & V semester syllabus and ratification of the same.

After long discussions with the BOS members on the proposed program the following suggestions are made and ratified the same:

Electromagnetic Waves and Transmission Lines:

- Loading topics may be removed.
- Examples on Electrostatics may be addressed with rectangular, cylindrical and spherical coordinate systems.
- Electrostatic and magneto statics can be grouped into one unit.
- In electrostatics, relaxation time concept can be removed.
- Maxwell's equations can be kept in Unit - 4, in order to stress more on Maxwell's equations.
- Uniform plane waves can also be included in Unit - 4.

Microprocessors and Micro-controllers

Microcontroller basic building blocks may be introduced in Unit-1.

Analog Communications

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- In text books, Sanjay Sharma text book can be made as reference.
- BP Lathi will be the best suited text book for this syllabus.
- MATLAB or any simulation based books may be included.

Analog Electronic Circuits Lab

- Measurement of output impedance of amplifiers based experiments is to be included.
- It is better to re-frame the experiments based on the given specifications like Q-point, gain, and bandwidth with a more stress on "specific Q-point".

MPMC Lab

Elevator and 7 segment display experiments can be included.

Analog Communications Lab

- Tracking characteristics of mixer may be added as regular experiment instead of augmented experiment.
- Receiver characteristics experiment can be included with selectivity and sensitivity.
- The student can make the screen shot of CRO/DSO output and the same to be added in lab record.
- In FM experiment, the FDM may be added in order to understand the concept of multiplexing with FM.

IC Applications

Everything is planned well for this subject

IC Applications lab

- Compare the RZ and NRZ outputs w.r.t to 555 timer output.
- Design a Schmitt trigger can be introduced as A/D converter.

Digital Communications

- The basics of mobile communication course should be covered in this subject.
- BP Lathi book can be made as text book because the same book was kept as text book in analog communications in order to favor the student in text book point of view.
- W.r.t to 2nd unit, qualitative and quantitative analysis will take more time hence it can be restricted to qualitative treatment only.
- Concept on matched filter may be introduced.
- R P Singh and Sapre book can be kept as reference book instead of text book.

Digital Communications lab

- TDM should be named as multiplexing and demultiplexing using TDM technique.

- PCM experiments can be renamed as characteristics of PCM including band width calculation.
- Coding technique based experiments should be analyzed in time as well as frequency domain.

Antennas and Wave Propagation

- In text books, K D Prasad can be made as reference book
- Instead of introducing reciprocity theorem in 1st unit, it can be kept during antenna measurements.
- Reactance and EIRP topics may be included.
- During pattern multiplication, effect of earth should be included.
- Helical antenna design may not be required.
- In antenna measurements, antenna impedance measurement should be included.
- In propagation, sky wave propagation topic can be removed.
- Wireless communication topics like MIMO, multipath reflection topics can be included

EMI EMC: (Professional Elective-I)

No modifications are suggested.

Digital System Design - 1 (Professional Elective-I)

The practical orientation should be introduced in any suitable lab in order to have practical experience for the students who have taken up this theory course.

Signals and Systems (Open Elective-I)

- Title like "Fundamentals of signals and systems" may be considered
- Unit -1 name should be changed as "Introduction to signals"
- In order to reduce the complexity, z-transform can be replaced with Laplace transform.

Digital Electronics Logic Design (Open Elective-I)

- More importance should be given on combinational logic design rather than sequential logic design.
- Morris Mano and Anand Kumar books can be made as text books.

Semiconductor devices (Open Elective-I)

- SCR topic may be introduced.
- BJT and JFET topics may be separated into 2 units.

Agenda 6.4: Discussion on proposed AR20 B.Tech (ECE) First Year Program structure and ratification of the same.

After long discussions, the BOS members ratified the proposed AR20 B.Tech (ECE) First Year Program structure.


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Agenda 6.5: Discussion on proposed AR20 B.Tech (ECE) Program II semester syllabus and ratification of the same.

The BOS members ratified the proposed syllabus of Network Analysis course and Electronics Engineering Workshop course in AR20 B.Tech (ECE) II semester.

Agenda 6.6: Discussion on proposed AR19 M.Tech (VLSI Design) Program – III & IV semesters syllabus and ratification of the same.

The BOS members ratified the proposed syllabus of AR19 M.Tech (VLSI Design) Program III & IV semesters.

Agenda 6.7: Discussion on the courses having focus on employability/ entrepreneurship/ skill development in the program of B.Tech (ECE) and M.Tech (VLSI Design) programs and ratification of the same.

After long discussion, the BOS members suggested the list of the courses having focus on employability/ entrepreneurship/ skill development in the program of B.Tech (ECE) and M.Tech (VLSI Design) programs and ratified the same.

Agenda 6.8: Discussion on the new courses offered in the B.Tech (ECE) and M.Tech (VLSI Design) and ratification of the same.

The members of BOS ratified the list of new courses offered in the B.Tech (ECE) and M.Tech (VLSI Design) programs. Percentage of new courses introduced in the academic year 2020-2021 for B.Tech (ECE) is 11.49 % and M.Tech (VLSI Design) is 15.00 %. The list of new courses is enclosed as Annexure-I.

Agenda 6.9: Discussion on the B.Tech (ECE) and M.Tech (VLSI Design) programs in which Choice Based Credit System (CBCS)/Elective Course system is being implemented and ratification of the same.

The members of BOS ratified that in B.Tech (ECE) and M.Tech (VLSI Design) programs, the Choice Based Credit System (CBCS)/Elective Course system is being implemented.

Agenda 6.10: Discussion on the value-added courses offered for the students and ratification of the same.

After discussion with the BOS members, the list of value-added courses to be offered for the students is ratified.

Agenda 6.11: Discussion on the percentage of syllabus revision done in the B.Tech (ECE) and M.Tech (VLSI Design) programs and ratification of the same.

The percentage of syllabus revision done in the B.Tech (ECE) and M.Tech (VLSI Design) programs is explained by the BOS chairperson and the syllabus revision is ratified by the BOS members. The percentage of courses revised in the academic year 2020-2021 for the B.Tech (ECE) is

25.27% and M.Tech (VLSI Design) is 48.4%. The list of courses revised during the academic year 2020-2021 is enclosed as Annexure-II.

Agenda 6.12: Analysis of results.

Results of previous semesters are presented by the BOS chairperson to the BOS members. The BOS members noted the same.

Agenda 6.13: Analysis of Students feedback and action taken report.

Students feedback and actions taken report is presented by the BOS Chairperson to the BOS members and BOS members approved the same.

Agenda 6.14: Analysis of Stakeholder's Feedback on Curriculum.

Analysis of Stakeholder's Feedback on Curriculum is presented by the BOS, chairperson to the BOS members and BOS members noted the same and the Action Taken Report is enclosed as Annexure-III.

Agenda 6.15: Any other item/s with the approval of Chairperson.

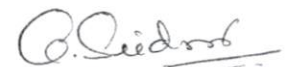
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Agenda 6.16: Scheduling of next Board of Studies meeting.

After discussion with the BOS members, the next BOS meeting will be planned in the month of May or June, 2021.

Agenda 6.17: Vote of Thanks

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



BOS Chairperson

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



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Department of Electronics and Communication Engineering

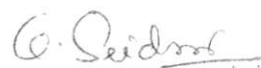
Annexure-I

List of New Courses in the Academic Year 2020-2021

S. No	Program	Semester	Course Code	Course Name
1	B. Tech (ECE)	III	191MC3A04	Essence of Indian Traditional Knowledge
2	B. Tech (ECE)	IV	191MC4A06	Biology for Engineers
3	B. Tech (ECE)	III	191ES3L16	Digital Electronics and Logic Design Lab
4	B. Tech (ECE)	VII	171EC7E10	Digital Signal Processors
5	B. Tech (ECE)	VII	171EC7P01	Industry Oriented (Internship) Minor Project
6	B. Tech (ECE)	VIII	171EC8E16	Mixed Signal IC Design
7	B. Tech (ECE)	VIII	171EC8O01	Basic Concrete Technology
8	B. Tech (ECE)	VIII	171EC8O02	Disaster Management
9	B. Tech (ECE)	VIII	171EC8O03	Neural Networks
10	B. Tech (ECE)	VIII	171EC8O04	Web Technologies
11	M.Tech (VLSID)	III	192VD3E12	Scripting Languages for VLSI
12	M.Tech (VLSID)	III	192VD3E13	Digital System Design & Verification
13	M.Tech (VLSID)	III	192ES3O02	Digital System Design
14	M.Tech (VLSID)	III	192VD3O01	Physical Design Automation
15	M.Tech (VLSID)	III	192VD3O02	VLSI Technology
16	M.Tech (VLSID)	III	192VD3O03	Nano-electronics


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BOS Chairperson
Head of the Department
Department of E.C.E.
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Department of Electronics and Communications Engineering

Annexure-II

List of Courses Revised in the Academic Year 2020-2021

S. No	Program	Semester	Course Code	Course Name
1	B. Tech (ECE)	I	201ES1I01	Engineering Graphics and Design
2	B. Tech (ECE)	III	191BS3T13	Numerical Methods & Vector Calculus
3	B. Tech (ECE)	III	191EC3T01	Electronic Devices and Circuits
4	B. Tech (ECE)	III	191EC3T03	Signals and Systems
5	B. Tech (ECE)	III	191EC3L01	Electronic Devices and Circuits Lab
6	B. Tech (ECE)	IV	191ES4T17	Control Systems
7	B. Tech (ECE)	IV	191EC4L02	Analog Electronic Circuits – Lab


BOS Chairperson

Head of the Department
Department of E.C.E.
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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	6.14	Students need to have an insight in solving real world problems and a course should be introduced in the early semesters of their graduation so that the students can have an idea on the topics they take up for internships.	Biology for Engineers Course is included in the III semester which gives an introduction and insight to real world problems related to biomedical engineering
2	6.14	Effective Soft-skill training to be provided	Industry Oriented exclusive Soft-skill trainer is appointed as a trainer. Professional Communication Skills Lab is included in the Syllabus in the early semesters. The students are encouraged to present in seminar session.
3	6.14	Multidisciplinary work nature is to be inculcated among students.	As the employers' demand for the students with multi - disciplinary functionalities, emphasis is given to IT specific courses and skill-oriented courses are increased in AR-20 regulation.
4	6.14	It will be very helpful to the students if a coding or programming related course is introduced in the early semesters.	Object oriented Programming through JAVA is introduced in the second semester to provide an exposure about coding to the students to fulfil the need.
5	6.14	There is a need to create awareness about available energy sources and its utilization among students.	Renewable energy sources course provides an insight of variously available energy sources and its utilization.
6	6.14	Entrepreneur skills should be inculcated among students	Entrepreneurship development and incubation is a course which helps the students in this aspect.

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7	6.14	Increasing industrial tours will benefit students.	Internship is made mandatory and thereby the students should take the industry training and to implement a project as part of Internship.
8	6.14	The construction and working principle of ohm meters should be known to the students when dealing with electronic measurements and instrumentation course. Advised to include in the syllabus of the course.	Will be discussed about inclusion of the particular topic with proper suggestion by the committee.
9	6.14	There should be a continuation of course to Signals and Systems, which is very important to electronics and communication engineering domain.	Principles of Signals and Systems is made a part of open elective-1. Which appears in V semester.
10	6.13	Signals processing is an important course for Electronics and Communication Engineering branch. provide in-detailed information of the course theoretically and practically.	Signals and Systems lab is introduced in III semester to provide hands-on and practical experience on the course and it is made sure that the theory and lab courses are included in the same semester.
11	6.13	Need industrial visits and internships as a part of curriculum.	Summer Internship for 2 Months is made mandatory after second year which will be evaluated during V semester.
12	6.13	Encourage students for taking part in socially relevant projects.	Socially Relevant Project is made a part of curriculum and also given a credit.
13	6.14	Computer vision and related field is still a challenging and has wide opportunities if students choose their career in related fields. Courses close to this domain will help the students if included in the curriculum	Internet of Things, Machine Learning, Artificial Intelligence, Deep Learning courses helps the student as suggested by the employer.
14	6.14	fundamental concepts of Physical design like CMOS, Digital design and fabrication Course involves multiple hands-on projects using Synopsys tools (DC, ICC II, Star RC, PT, ICV). Learning these courses will help the student to easily get into chip design industry. Facilitate these.	Will be discussed in the BOS meeting about facilitating these courses. 

15	6.14	Need few courses which are more domain specific.	Scripting Languages for VLSI, Digital System Design & Verification included in the III semester which helps the students to be technically strong in the domain
16	6.14	A course paving a bridge for IOT would help students to a great extent.	Sensors & Actuators course in III semester facilitates an insight to IOT real time applications.
17	6.13	Introducing domain specific course related to programming will help students.	Programming Languages for Embedded Systems, Scripting Languages for VLSI, Hardware Software co-design will facilitate the suggestion given by the students.
18	6.13	Niche and high-in-demand chip design technology along with Advance VLSI Design and Verification courses should be a part of curriculum.	Will be discussed in the board meeting and will be facilitated according to the expert's suggestions.

A. Chidambaram

BOS Chairperson
Head of the Department
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Department of Computer Science and Engineering

Date: 17-10-2020

Minutes of the VI meeting of BOS scheduled on 15-10-2020

The VI meeting of the BOS of CSE was held virtually on 15th October 2020 at 11.00 AM through Microsoft Teams. Prof A. Vanathi, Chairperson presided over the meeting.

Agenda 6.1: Welcome address by Chairperson

Prof. A. Vanathi, BOS Chairperson invited the distinguished members of BOS to the VI BOS Meeting.

Agenda 6.2: 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 08/11/2019.

Agenda 6.3: 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 6.4: Discussion on proposed AR 19 B. Tech (CSE) program IV & V Semesters syllabus and ratification of the same.

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

- Suggested to prepare COs in all levels of Blooms Taxonomy covering entire syllabus for all the Courses.
- Suggested to remove second text book in the course "Formal Languages and Automata Theory".
- Suggested to involve the students in real-time applications using IOT.
- Suggested to include practical oriented books for lab courses.
- Suggested to check the continuity of the topic Optimal randomized algorithm in Unit III of the course "Design and Analysis of Algorithms"
- Suggested to include IIT Delhi and IIT Kharagpur experts NPTEL weblinks in the course "Design and Analysis of Algorithms".


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- Suggested to include Logic programming concepts as one unit in the course "Functional and Logic Programming".
- Suggested to add the web links of Pallab Das Gupta, subject expert from IIT Kharagpur in the course "Artificial Intelligence".

Agenda 6.5: Discussion on proposed AR20 B. Tech (CSE) First Year Program structure and ratification of the same.

The members of BOS ratified the AR20 B. Tech (CSE) First Year Program structure.

Agenda 6.6: Discussion on proposed AR20 B. Tech (CSE) Program – I & II semesters syllabus and ratification of the same.

The members of BOS ratified the AR20 B. Tech (CSE) Program – I & II semesters syllabus

Agenda 6.7: Discussion on proposed AR 19 M. Tech (CSE) Program – III & IV semesters syllabus and ratification of the same.

The members of BOS ratified the AR 19 M. Tech (CSE) Program – III & IV semesters syllabus.

Agenda 6.8: 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 B. Tech (CSE) and M. Tech (CSE) program.

Agenda 6.9: 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) programs and ratified the same. The percentage of new courses introduced during the academic year 2020-21 for B. Tech (CSE) is 16.16 % and M. Tech (CSE) is 6.15%. The list of new courses is enclosed as Annexure-I.

Agenda 6. 10: 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) programs.

Agenda 6.11: 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 and suggested to include topics related to thrust areas.

Agenda 6.12: Discussion on the percentage of syllabus revision done in the B. Tech (CSE) and M. Tech (CSE) programs 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 B. Tech (CSE) and M. Tech (CSE). The percentage of courses revised in this academic year 2020-21 for B. Tech (CSE) is 23.23 % and M. Tech (CSE) is 49.23 %. The list of courses revised is enclosed as Annexure-II.

Agenda 6.13: Discussion on 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.

Agenda 6.14: 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 6.15: 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 6.16: Any other item with the approval of Chairman.


- Suggested to follow the competitive exams pattern partially in preparation of the question paper for sessional examinations.
- Suggested to involve the alumni students to give guest lectures on few topics in the curriculum.
- Suggested to involve the students in smart city projects of Kakinada.


Agenda 6.17: Scheduling of next Board of Studies meeting.

The next BOS meeting is tentatively scheduled in the month of April 2021.

Agenda 6.18: Vote of Thanks

The Chairperson presented the Vote of Thanks.


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BOS Chairperson
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Annexure-I

List of New Courses in the Academic Year 2020-21

S. No	Program	Semester	Course Code	Course Name
1	B. Tech (CSE)	II	201ES2T07	Data Structures through C
2	B. Tech (CSE)	III	191CS3T02	Object Oriented Programming through Java
3	B. Tech (CSE)	III	191CS3T03	Advanced Data Structures
4	B. Tech (CSE)	III	191MC3A04	Essence of Indian Traditional Knowledge
5	B. Tech (CSE)	IV	191MC4A06	Biology for Engineers
6	B. Tech (CSE)	VII	171CS7E15	Image Processing
7	B. Tech (CSE)	VII	171CS7E16	Cyber Laws
8	B. Tech (CSE)	VII	171CS7E17	Middleware Technologies
9	B. Tech (CSE)	VII	171CS7E18	Artificial Intelligence and Machine Learning
10	B. Tech (CSE)	VIII	171CS8E21	Agile Methodologies
11	B. Tech (CSE)	VIII	171CS8E23	Distributed Databases
12	B. Tech (CSE)	VIII	171CS8O01	Microprocessor and Multi Core Systems
13	B. Tech (CSE)	VIII	171CS8O03	Soft Computing
14	B. Tech (CSE)	VIII	171CS8O05	Optical Communications
15	B. Tech (CSE)	VIII	171CS8O06	Renewable Energy sources
16	B. Tech (CSE)	VIII	171CS8O07	Nano Technology and its Applications
17	M. Tech (CSE)	III	192CS3E13	Deep Learning

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18	M. Tech (CSE)	III	192CS3E14	Social Network Analysis
19	M. Tech (CSE)	III	192ST3O01	Repair & Rehabilitation of Structures
20	M. Tech (CSE)	III	192ST3O02	Green Building Systems
21	M. Tech (CSE)	III	192ST3O03	Basic Concrete Technology
22	M. Tech (CSE)	III	192ST3O04	Basic Foundation Engineering
23	M. Tech (CSE)	III	192PD3O01	Renewable Energy Technologies
24	M. Tech (CSE)	III	192PD3O02	Hybrid Electric Vehicles
25	M. Tech (CSE)	III	192PD3O03	Energy Audit and conservation Management
26	M. Tech (CSE)	III	192PD3O04	Neural Networks and Fuzzy Logic
27	M. Tech (CSE)	III	192PD3O05	Industrial Safety
28	M. Tech (CSE)	III	192PD3O06	Composite Materials
29	M. Tech (CSE)	III	192TE3O01	Energy Systems
30	M. Tech (CSE)	III	192TE3O02	Fuels and Combustion
31	M. Tech (CSE)	III	192TE3O03	Green Engineering Technology
32	M. Tech (CSE)	III	192TE3O04	IC Engines
33	M. Tech (CSE)	III	192TE3O05	Automotive Technology
34	M. Tech (CSE)	III	192ES3O01	Embedded System Design
35	M. Tech (CSE)	III	192ES3O02	Digital System Design
36	M. Tech (CSE)	III	192ES3O03	Programming Languages for Embedded Systems
37	M. Tech (CSE)	III	192ES3O04	Sensors & Actuators
38	M. Tech (CSE)	III	192VD3O01	Physical Design Automation
39	M. Tech (CSE)	III	192VD3O02	VLSI Technology
40	M. Tech (CSE)	III	192VD3O03	Nano-electronics
41	M. Tech (CSE)	III	192CS3O05	Artificial Intelligence
42	M. Tech (CSE)	III	192CS3O06	Deep Learning

43	M. Tech (CSE)	III	192PE3O01	Introduction to Petroleum Engineering
44	M. Tech (CSE)	III	192PE3O02	Process Intensification
45	M. Tech (CSE)	III	192PE3O03	Fundamentals of Liquefied Natural Gas
46	M. Tech (CSE)	III	192PE3O04	Subsea Engineering
47	M. Tech (CSE)	III	192PE3O05	Geology
48	M. Tech (CSE)	III	192PE3O06	HSE in Petroleum Industry



BOS Chairperson

Head of the Department

Department of CSE

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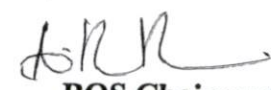
Department of Computer Science and Engineering

Annexure-II

List of Courses Revised in the Academic Year 2020-21

S. No	Program	Semester	Course Code	Course Name
1	B. Tech (CSE)	II	191BS3T14	Discrete Mathematics
2	B. Tech (CSE)	III	191CS3L02	Advanced Data Structures Lab
3	B. Tech (CSE)	III	191BS4T18	Probability and Statistics
4	B. Tech (CSE)	VII	171CS7E19	Information Retrieval Systems
5	B. Tech (CSE)	VIII	171CS8E24	Distributed Systems
6	B. Tech (CSE)	VIII	171CS8O02	Embedded Systems
7	B. Tech (CSE)	VIII	171CS8O04	Operations Research


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Annexure-III

Action Taken Report on Stakeholders Feedback in the Academic Year 2020-21

S. No	Agenda Item No.	Stakeholders Recommended	Action Taken
1	6.15	Increase internship opportunities to build practical work experience and improve coding skills	Students are made mandate for summer internship after the IV semester and VI semester. To improve the coding skills, courses like Python programming, Data Structures through C, Object Oriented Programming through C++ are included, Skill Oriented Courses like Applications of python-pandas and Web application development using full stack frontend development are introduced in AR 20.
		Include Emerging technologies in the syllabus	In the revised Syllabus, Open Elective I, II, III & IV are introduced and all the emerging technologies like AR/VR, RPA, ML, AI and so on are included in AR 20.
		Students need to be aware of ethics, our tradition and should work for societal benefits	Courses like Environmental Science, Constitution of India, Biology for Engineers, Essence of Indian Traditional Knowledge are included in AR 20 syllabus. Students are encouraged to do


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			project on societal issues.
2	6.15	Training Programs must be organized to improve skills for the students	It is decided to offer the enhanced technical courses like Full Stack Development, Problem Solving using Python, R Programming and its Applications as Value added courses to students.
		Focus more on practical aspects. Projects should be given more importance as evaluation component. Industrial experts must be invited to encouraged.	Courses like Engineering Exploration Project, Industry Oriented Minor Project and Socially relevant Project are included in the AR 20. Guest lectures are conducted with industrial experts.
		Students need to be aware of industry exposure	The Students are taken for nearby industries as Industrial visit. On regular basis Guest Lectures on recent trends by Industrial expert is arranged to the students.
3	6.15	Introduce Active Learning Strategy and awareness of Blooms in outcome-based education	Encouragement is provided to implement Active Learning Strategies to increases the understandability of the concept
		Students require communication skills and leadership qualities.	Courses like Communicative English , Communicative English Lab , Professional Communication Skills Lab are included in the AR20 curriculum. Projects and internships are done as a team works which help them to develop their team work and leadership qualities.
		Introduce courses related to requirement of new technologies in Industry	Courses like Programming for Problem Solving using C , Python Programming , Applications of python-numpy, Web application development using full stack frontend development, Applications of python-pandas ,


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			Web application development using full stack frontend development are introduced in AR 20 curriculum.
4	6.14	Suggested to increase the employability of every student.	AR 20 curriculum is designed with one skill oriented course in each and every semester which makes them more employable.
		Exposure to latest developments and advances should be known to the students	Experts were invited to share their knowledge to our faculty and students. This helped them to interact with the resource persons and was motivated to do higher studies and take up jobs which has challenging future ahead.
		Extracurricular and sport facilities are good but more sport amenities provided to the students	All required materials are purchased and they are made available to the students
5	6.15	Students and teaching faculties should be techno savvy and internet savvy.	Formal instructions were dispersed to competent authority for appropriate actions on the issues of effective use of ICT by teachers.
		Syllabus should be more practical based.	As per the new revised syllabus practical laboratory will be modified
		Need to Provide more focus on core fundamental concepts.	In the faculty meeting, is directed and discussed about improving fundamental concepts of students and also their participation in workshops/ conferences/ competitions
6	6.15	More emphasis should be on the applications of the opted field of study.	Inter-departmental and Inter-disciplinary projects were encouraged.
		Sophisticated analytical laboratory to be started	More number of laboratories are 21 ✓

			established with best trainers.
7	6.15	Impact factor journals may be listed out.	List of Journals with impact factor was prepared by the experts.
		Commented favourable to revised necessary content of relevant courses offer good academic flexibility	Syllabus has been revised and skill-based electives core subject and audit course introduced
8	6.14	Applicability/relevance of curriculum in real life situations can be increased.	Teachers made efforts to relate the curriculum with real life situations.
		Some teachers are lagging in using modern teaching tools like PowerPoint Presentations, Video Lectures, Moodle etc.	Faculty members are instructed to use modern pedagogical tools like in teaching and required facilities are made.


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Department of Information Technology

Date: 18-10-2020

VI BOS Minutes of Meeting held on 15/10/2020

The 6th meeting of the BOS for IT was held on 15th October 2020 at 10.00AM, Ajivika Conference Hall, Bill Gates Bhavan. Mr. M. Raja Babu, Chairperson presided over the meeting.

Agenda 6.1: Welcome address by Chairperson-BOS.

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

Agenda 6.2: 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 08/11/2019.

Agenda 6.3: Discussion on proposed AR19 B.Tech (IT) Program – IV & V semester syllabus and ratification of the same.

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

- Suggested to prepare COs in all levels of Blooms Taxonomy covering entire syllabus for all the Courses.
- Suggested to remove second text book in the course "Theory of Computation".
- Suggested to involve the students in real-time applications using IOT.
- Suggested to include practical oriented books for lab courses.
- Suggested to check the continuity of the topic Optimal randomized algorithm in Unit III of the course "Design and analysis of algorithms"
- Suggested to include IIT Delhi and IIT Kharagpur experts NPTEL weblinks in the course "Design and analysis of algorithms".
- Suggested to include Logic programming concepts as one unit in the course "Functional and logic programming".
- Suggested to add the web links of Pallab Das Gupta, Subject expert from IIT Kharagpur in the course "Artificial Intelligence".

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Agenda 6.4: Discussion on proposed AR20 B.Tech (IT) First Year Program structure and ratification of the same.

The members of BOS ratified the AR20 B.Tech (IT) First Year Program structure.

Agenda 6.5: Discussion on proposed AR20 B.Tech (IT) Program – I & II semesters syllabus and ratification of the same.

The members of BOS ratified the AR20 B.Tech (IT) Program – I & II semesters syllabus

Agenda 6.6: Discussion on the courses having focus on employability/ entrepreneurship/ skill development in B. Tech (IT) programs and ratification of the same.

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

Agenda 6.7: Discussion on the new courses offered in B.Tech (IT) program and ratification of the same.

Members of BOS noted the new courses offered in B.Tech (IT) programme and ratified the same. The percentage of new courses introduced in this academic year 2020-2021 for B.Tech (IT) is 13.13% The list of new courses is enclosed as Annexure-I.

Agenda 6.8: Discussion on B.Tech (IT) 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 (IT) program.

Agenda 6.9: 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 6.10: Discussion on the percentage of syllabus revision done in B.Tech (IT) program 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 2020-2021 for B.Tech (IT) is 24.24% . The list of courses revised during the academic year is enclosed as Annexure-II.

Agenda 6.11: Analysis of Results

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

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Agenda 6.12: 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 6.13: 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 6.14: Any other item/s

- Suggested to follow the competitive exams pattern partially in preparation of the question paper for sessional examinations.
- Suggested to involve the Alumni students to give guest lectures on few topics in the curriculum.
- Suggested to involve the students in smart city projects of Kakinada.

Agenda 6.15: Scheduling of the next BOS meeting.

The next BOS meeting is tentatively scheduled in the month of April 2020.

Agenda 6.16: Vote of Thanks

The Chairperson presented the Vote of Thanks.


BOS Chairperson

Head of the Department
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Department of Information Technology

Annexure I

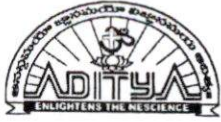
List of New Courses in the Academic Year 2020-21

S. No	Program	Semester	Course Code	Course Name
1	B. Tech (IT)	II	201ES2T07	Data Structures Through C
2	B. Tech (IT)	III	191MC3A04	Essence Of Indian Traditional Knowledge
3	B. Tech (IT)	III	191CS3T02	Object Oriented Programming Through Java
4	B. Tech (IT)	III	191CS3T03	Advanced Data Structures
5	B. Tech (IT)	IV	191MC4A06	Biology for Engineers
6	B. Tech (IT)	IV	191IT4T01	Theory of Computation
7	B. Tech (IT)	VIII	171CS8E21	Agile Methodologies
8	B. Tech (IT)	VIII	171CS8E23	Distributed Databases
9	B. Tech (IT)	VII	171IT7E08	Distributed Systems
10	B. Tech (IT)	VII	171IT7P01	Industry Oriented (Internship) Minor Project
11	B. Tech (IT)	VIII	171IT8E10	Pattern Recognition
12	B. Tech (IT)	VIII	171IT8O01	Management Information System
13	B. Tech (IT)	VIII	171IT8O02	Computer Vision

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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 2020-21

S. No	Program	Semester	Course Code	Course Name
1	B. Tech (IT)	II	191BS3T14	Discrete Mathematics
2	B. Tech (IT)	III	191CS3L02	Advanced-Data Structures Lab
3	B. Tech (IT)	IV	191BS4T18	Probability and Statistics
4	B. Tech (IT)	V	171IT5T02	Computer Networks
5	B. Tech (IT)	VII	171CS7E19	Information Retrieval Systems
6	B. Tech (IT)	V	171IT5L01	Operating Systems and Computer Networks Lab
7	B. Tech (IT)	VI	171IT6E02	Neural Networks
8	B. Tech (IT)	VII	171IT7T05	Big Data Analytics
9	B. Tech (IT)	VII	171IT7E06	Machine Learning

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BOS Chairperson

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Department of Information Technology

Annexure III

Action Taken Report on Stakeholders feedback in the Academic Year 2020-21

S. No	Agenda Item No.	Stakeholders Recommended	Action Taken
1	6.12	Students need to have an insight into emerging technologies of Industry so that they will become competitive enough in getting the placement	Computer Engineering Workshop Course is included in the I semester which gives an introduction and insight to Industry technologies like IoT, Cybersecurity, and Machine Learning.
2	6.14	Effective Soft-skill training to be provided	Industry Oriented exclusive Soft-skill trainer is going to be appointed as a trainer. Communicative English Lab & Professional Communications Skill Lab will also be included in the Syllabus. The students are encouraged to present a seminar session.
3	6.12	Include Emerging technologies in the syllabus	In the future Syllabus, Open Elective I will be introduced, and all the emerging technologies like Cybersecurity, AR/VR, Computer Vision, and Robotics will be included.
4	6.12	Some trendy courses should be introduced in the early bird stage itself so that the student can focus on basics as well as the advancements made in that technology.	Python Programming and Python Programming Lab courses are going to be introduced in the 2 nd semester.
5	6.8	Elective Courses should have a blend of courses which have a	Suggestions will be taken into consideration and in future

		focus on employability and domain knowledge	semesters, in each professional elective course 2 subjects will be focused on employability and 2 subjects will be focused on providing domain knowledge.
6	6.12	Effective Soft-skill training to be provided	Industry Oriented exclusive Soft-skill trainer is going to be appointed as a trainer. Personality Development through Life Enlightenment Skills & Soft Skills will also be included in the Syllabus. The students are encouraged to present a seminar session.
7	6.12	Suggested to Include some courses that will make the students able to work on developing prototypes that will be useful for societal needs	A socially Relevant Project course will be introduced.
8	6.8	Suggested to Include more courses as professional electives as students will have a good number of options to choose	5 professional elective courses in each semester will be introduced from the Vth semester.
9	6.3	Suggested to include more labs for real-time practice	As per suggestion, Data Structures through C Lab and Internet of Things Lab will be introduced.
10	6.12	Please design the curriculum in such a way that the students come across department-related courses in the early semester itself. This helps the students in having an insight into GATE and other competitive exams as well as placements.	The computer Organization course is included in the curriculum in the 2 nd semester
11	6.3	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.

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12	6.12	Suggested to Include some courses that will make the students able to work on developing prototypes that will be useful for societal needs	A socially Relevant Project course named Industry Oriented (Internship) Minor Project will be introduced.
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BOS Chairperson

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Department of Petroleum Technology

Date: 13-10-2020

Minutes of the VI meeting of BOS scheduled on 10-10-2020

The VI meeting of the BOS of PT was held virtually on 10-10-2020 at 9.30 AM through Microsoft Teams. Prof R. Giri Prasad, Chairperson presided over the meeting.

Agenda 6.1: Welcome address by Chair Person.

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

Agenda 6.2: 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 07-12-2019

Agenda 6.3: 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 6.4: Discussion on proposed AR19 B. Tech (PT) IV& V semesters syllabus and finalization of the same.

The BOS members approved the following changes to the proposed AR19 B. Tech (PT) IV& V Semester after incorporating the following suggestions:

- Added a topic on Heat transfer in Porous media under Unit – III to Process Heat Transfer
- Reference text book is added in Process Heat Transfer that is Principles of Heat Transfer in Porous media by M. Kaviany Springer Publication, 1991.
- Interchanged the Unit – III to Unit – I & Unit – I to Unit – III in Petroleum Geology.
- Added a topic on frequency response controllers in Instrumentation and Process control in Unit – V.
- Changed the reference book as a main text book in Instrumentation and Process Control is Chemical Process Control by G. Stephanopoulos.
- Included Well Logging and Mud Logging differences in Unit – I

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- Interchanged the Unit – IV as a Unit – I and named as a Mud logging basics.
- Added Unit – I the topic GTO in Drilling Technology.
- Added Drilling Fluid manuals as a reference book in Drilling Technology.
- Added topic virial equation of state application to Petroleum Fluids in Unit – V in Thermodynamics for Petroleum Engineers
- Text book was added equation of state and PVT analysis by Tarak Ahmed in Thermodynamics for Petroleum Engineers.
- Removed Mud logging methods from Unit – I in Well Engineering.
- Modified to route selection for onshore & offshore in Unit –I and in Unit – V safety and maintenance considerations added in Pipeline Engineering.
- Added text book in Natural Gas Engineering & Processing entitled as Gas Production Engineering by Sanjay Kumar, Gulf Publication, 1987.
- Added and elaborated the units of III, IV & V with Sub topics in Process Intensification.

Agenda 6.5: Discussion on proposed AR20 B. Tech (PT) First Year Program structure and ratification of the same.

The BOS members have ratified the AR20 B. Tech (PT) First Year Program structure.

Agenda 6.6: Discussion on proposed AR20 B. Tech (PT) Program – I & II semesters syllabus and ratification of the same.

The BOS members have ratified the AR20 B. Tech (PT) I & II semesters syllabus.

Agenda 6.7: Discussion on proposed AR19 M. Tech (PE) Program – III & IV semesters Program Structure and Finalization of the same.

The BOS members approved the AR19 M. Tech (PE) Program – III & IV semesters Program Structure.

Agenda 6.8 : Discussion on the courses having focus on employability/entrepreneurship/skill development in the programs of B. Tech (PT) and M. Tech (PE) 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) and M. Tech (PE).

Agenda 6.9: Discussion on the new courses offered in the B. Tech (PT) and M. Tech (PE) programs and ratification of the same.

The BOS members have ratified the new courses offered in the B. Tech (PT) and M. Tech (PE) programs. The percentage of new courses introduced in the academic year 2020-2021 for B. Tech (PT) is 9.09 % and M. Tech (PE) is 9.23 %. The list of new courses is enclosed as Annexure-I.

Agenda 6.10: Discussion on the B. Tech (PT) and 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) and M. Tech (PE) in which Choice Based Credit System (CBCS)/ elective course system.

Agenda 6.11: Discussion on the value-added courses offered for students and ratification of the same.

The BOS members approved the list of value added courses offered to students.

Agenda 6.12: Discussion on the percentage of syllabus revision has done in the B. Tech (PT) and M. Tech (PE) program and ratification of the same

The BOS members approved the syllabus revision in B. Tech (PT) and M. Tech (PE) program based on the attainment and the feedback of the course exist survey. The percentage of courses revised in this academic year 2020-2021 for B. Tech (PT) is 13.63% and M. Tech (PE) is 52.3 %. The list of courses revised is enclosed as Annexure-II

Agenda 6.13: Analysis of Results

The BOS Chairperson presented the even and the odd semesters pass percentage for the A.Y.2020-2021 .The BOS members noted the same.

Agenda 6.14: Analysis of Students Feedback & Action Taken Report.

The BOS Chairperson expressed that the student feedback and action taken report process was initiated at end of each semester. The BOS members appreciated the faculty.

Agenda 6.15: 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 6.16: Any other item with the approval of Chair Person.

BOS members expressed that in VII semester of AR20 B. Tech (PT), the number of courses can be reduced so that, the student can prepare for the competitive exams and placement related activities. As per AR20 two courses maximum of 6 credits of VII semester can be completed by opting them as MOOCs in the earlier semesters in order to reduce the burden on the student in VII.

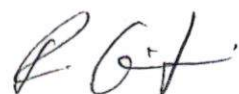
BOS members expressed that the web links provided at the end of every course must include the content of that particular link so that if the course link changes also people can identify by searching that content.

Agenda 6.17: Scheduling of next Board of Studies meeting.

The next BOS meeting is tentatively scheduled in the month of October 2021.

Agenda 6.18: Vote of Thanks

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



BOS Chairperson



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Department of Petroleum Technology

Annexure-I

List of New Courses in the Academic Year 2020-2021

S. No	Program	Semester	Course Code	Course Name
1.	B. Tech (PT)	II	201ES2L12	Computer Aided Drafting Lab
2.	B. Tech (PT)	III	191MC3A04	Essence of Indian Traditional Knowledge
3.	B. Tech (PT)	IV	191MC4A06	Biology for Engineers
4.	B. Tech (PT)	III	191PT3L02	Geology Lab
5.	B. Tech (PT)	VII	171PT7E12	Petroleum Corrosion Technology
6.	B. Tech (PT)	VIII	171PT8E17	Reliability & Risk Management in Petroleum Operations
7.	B. Tech (PT)	VIII	171PT8E18	Deep Sea Production Systems
8.	B. Tech (PT)	VIII	171PT8O06	Process Intensification in Petroleum Industry
9.	M. Tech (PE)	III	192PE3O01	Introduction to Petroleum Engineering
10.	M. Tech (PE)	III	192PE3O02	Process Intensification
11.	M. Tech (PE)	III	192PE3O03	Fundamentals of Liquefied Natural Gas
12.	M. Tech (PE)	III	192PE3O04	Subsea Engineering
13.	M. Tech (PE)	III	192PE3O05	Geology
14.	M. Tech (PE)	III	192PE3O06	HSE in Petroleum Industry


BOS Chairperson

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Department Of Petroleum Technology

Annexure-II

List of Courses Revised in the Academic Year 2020-2021

S. No	Program	Semester	Course Code	Course Name
1.	B. Tech (PT)	I	201ES1T05	Engineering Graphics
2.	B. Tech (PT)	III	191PT3T04	Mechanical and Materials Science and Engineering
3.	B. Tech (PT)	IV	191BS4T19	Complex Variables and Statistical Methods
4.	B. Tech (PT)	VII	171PT7T15	Integrated Asset Management and Petroleum Economics


BOS Chairperson

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Department of Petroleum Technology

Annexure III

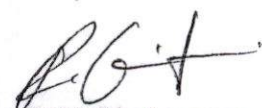
Action Taken Report on Stakeholders Feedback in the Academic Year 2020-2021

S. No	Agenda Item No.	Stakeholders Recommended	Action Taken
1.	6.14	Institution and Industry interaction is needed for the students.	As per discussions we have signed MoU's with Reliance industries to cater the students to aware of real time applications and recent trends in Industries.
2.	6.4	Include Emerging technologies in the syllabus.	As per discussions we have revised Syllabus, introduced all the emerging technologies are included in syllabus.
3.	6.8	Suggested that students are strong enough in employability skills	Employability skills-I, II, III, IV courses were restructured in the AR 20 Curriculum and simultaneously practicing.
4.	6.14	Suggested to 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.
5.	6.5	Suggested that if coding or programming related course is introduced in the early semesters so that by the end of the graduation the student will be industry ready.	Skill oriented courses, Python Programming are introduced in semesters.
6.	6.4	students need to have an insight in solving real world problems	As per discussions Environmental science and Biology for engineers is included in semesters which gives an introduction and insight to real world problems related to biomedical engineering, environmental sustainability.
7.	6.12	Revise mechanics and material science engineering	As per discussions both subjects revised and consider as one.
8.	6.6	Better to have computer drafting practically.	As per discussions lab was introduced
9.	6.8	Employer Incorporation of more industry oriented courses to improve the student employability and	As per suggestions and discussions introduction of new courses like

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		knowledge of current industrial trends	advanced well logging techniques implemented
10.	6.10	Better to keep Interdisciplinary elective courses in syllabus	Dean academics has noted and kept in syllabus
11.	6.14	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.
12.	6.10	It is better to introduce more advanced courses	As per suggestions and discussions with dean academics some courses implemented in elective courses.
13.	6.10	It is better to add additional skill oriented programmes to get core jobs.	As per suggestions received CBM and shale gas courses will be initiated


BOS Chairperson

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Department of Mining Engineering

Dt- 10/10/2020

Minutes of VI BoS meeting conducted on 03-10-2020

The VI meeting of the Board of Studies of Mining Engineering Department was held on 03-10-2020 at 10.00 AM through Microsoft Team. Mr. Satyajeet Parida, Chairperson presided over the meeting.

Agenda 6.1: Welcome address by Chairperson- BoS

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

Agenda 6.2: 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 6.3: Discussion on proposed AR19 B.Tech. (Min.E) Program – IV & V semester syllabus and ratification of the same.

The BoS members approved the AR19 B.Tech. (Min.E) IV & V semesters syllabus after making the following changes, and some minor rectifications in the courses, listed.

- The members discussed thoroughly and framed the syllabus of Geo-Statistics, which is introduced for the first time in B.Tech. (Min.E).
- The members suggested to change the course name Mine Environmental Engineering –I to Mine Environment & Ventilation Engineering.
- The course Social Relevant Project was introduced in V Semester.
- The title of the lab course Mine Environmental Engineering lab was changed to Mine Environment & Ventilation Engineering lab.
- The following courses were also undergone some minor rectifications
 - i. Mine Surveying-II
 - ii. Surface Mining
 - iii. Underground Coal Mining Technology
 - iv. Fundamentals of Rock Mechanics
 - v. Mine Systems Engineering
 - vi. Underground Metal Mining Technology

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Agenda 6.4: Discussion on proposed AR20 B.Tech. (Min.E) First Year Program structure and ratification of the same.

The BoS members have discussed and approved the course structure of AR20 B.Tech. (Min.E) First Year Program structure.

Agenda 6.5 Discussion on the courses having focus on employability/entrepreneurship/skill development in all the programs and ratification of the same.

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

Agenda 6.6: Discussion on the new courses offered in all the B.Tech. (Min.E), programmes and ratification of the same.

The BoS members have discussed and approved the new courses introduced in all the B.Tech. (Min.E), programmes The Percentage of new courses introduced in the academic year 2020-2021 for B. Tech (Min. E) is 19.32 %. The list of new courses is enclosed as Annexure-I.

Agenda 6.7: Discussion on all the B.Tech. (Min.E), programmes in which Choice Based Credit System (CBCS)/elective course system is being implemented and ratification of the same.

- The members discussed and approved the choice-based credit system for all the B.Tech. (Min.E), programme.

Agenda 6.8: Discussion on the value-added courses offered for students and ratification of the same.

- The BoS members approved the list of value-added courses offered to students and ratified the same.

Agenda 6.9: Discussion on the percentage of syllabus revision done in all the B.Tech. (Min.E) programs 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 2020-2021 for B.Tech (Min. E) is 28.41%. The list of courses revised is enclosed as Annexure-II.

Agenda 6.10: Analysis of Results

The BoS chairperson presented the results. The BoS members appreciated the faculty for achieving better pass percentages.

Agenda 6.11: Analysis of Students Feedback & Action Taken Report

BoS chairperson has expressed that the student feedback and action taken report process is done at the end of each semester. The BoS members were pleased to know the average feedback for the faculty in even and odd semesters.

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Agenda 6.12: 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 6.13: Any other item/s

BoS members suggested to extend the period of internships for the students.

Agenda 6.14: Scheduling of the next BoS meeting.

- The next BoS meeting is tentatively scheduled in the month of October 2021.

Agenda 6.15: Vote of Thanks

- Mr. Satyajeet Parida, BoS Chairperson thanked the members for the successful completion of BoS VI.


BoS Chairperson

Head of the Department
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Department of Mining Engineering

Annexure-I

List of New Courses in the Academic Year 2020-2021

S. No	Program	Semester	Course Code	Course Name
1	B. Tech (Min.E)	II	201ES2L12	Computer Aided Drafting Lab
2	B. Tech (Min.E)	III	191MC3A04	Essence of Indian Traditional Knowledge
3	B. Tech (Min.E)	III	191ES3T10	Internet of Things
4	B. Tech (Min.E)	IV	191MC4A06	Biology for Engineers
5	B. Tech (Min.E)	IV	191MI4T08	Geo-statistics
6	B. Tech (Min.E)	VII	171MI7T20	Mine Management
7	B. Tech (Min.E)	VII	171MI7E14	Advance Underground Coal Mining Technology
8	B. Tech (Min.E)	VII	171ES7L16	Mechanical Engineering Lab
9	B. Tech (Min.E)	VII	171MI7P01	Industry Oriented (Internship) Minor Project
10	B. Tech (Min.E)	VIII	171MI8E16	Mine Systems Engineering
11	B. Tech (Min.E)	VIII	171MI8E17	Advance Surface Mining Technology
12	B. Tech (Min.E)	VIII	171MI8E18	Advanced Underground Metal Mining Technology
13	B. Tech (Min.E)	VIII	171MI8O01	Environmental Impact Assessment
14	B. Tech (Min.E)	VIII	171MI8O02	Mine Closure and Reclamation
15	B. Tech (Min.E)	VIII	171MI8O03	Fundamentals of Communication
16	B. Tech (Min.E)	VIII	171MI8O04	Remote Sensing and GIS
17	B. Tech (Min.E)	VIII	171MI8O05	Quantitative Decision Making

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BoS Chairperson

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Department of Mining Engineering

Annexure-II

List of Courses Revised in the Academic Year 2020-2021

S. No	Program	Semester	Course Code	Course Name
1	B. Tech (Min.E)	I	201ES1T05	Engineering Graphics
2	B. Tech (Min.E)	III	191BS3T15	Numerical Methods and Integral Transforms
3	B. Tech (Min.E)	III	191MI3T03	Development of Mineral Deposits
4	B. Tech (Min.E)	III	191MI3L01	Geology Lab
5	B. Tech (Min.E)	IV	191BS4T19	Complex Variables and Statistical Methods
6	B. Tech (Min.E)	VII	171MI7T17	Mine Economics
7	B. Tech (Min.E)	VII	171MI7T18	Mine Health and Safety Engineering

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BoS Chairperson

Head of the Department
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Department of Mining Engineering

Annexure III

Action Taken Report on Stakeholders Feedback in the Academic Year 2020-2021

S. No	Agenda Item No.	Stakeholders Recommended	Action Taken
1	6.12	The mining industry is moving towards sustainability, closure and restoration of the mining areas so students should be aware of these things.	The make student aware of smooth closure and reclamation of the mining areas the following subject was included in the curriculum. ✓ Mine Closure and Reclamation
2		The mining student should have knowledge about geo graphic mapping and remote sensing which plays an important role in detecting different types of ores.	To make mining student aware of the courses related to geographical mapping the following courses include in the curriculum. ✓ Remote Sensing and GIS
3		The Mining students should have proper knowledge of modern surface mining techniques and advance methods used in it.	The modern and advance techniques in the surface mining have been included in the curriculum they are: ✓ Advance Surface Mining Technology
4		Students should be responsible for handling of the man power in the mines. So, they should develop managerial skills in them.	To make each student a good manager they should possess managerial skills in them for that the following subject has been included in the curriculum: • Mine Management
5		Students should be aware of different environmental aspect of mining in the mining.	The subject which creates environment impact awareness among the students they are: ✓ Environmental Impact Assessment
6		Students should have real knowledge of mining field so time to time industry visit should be included in the curriculum.	Industry visit has stopped due to corona, which is about as the corona effect reduced. Internship is included in the syllabus and for

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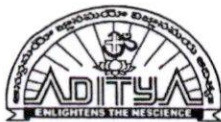
			final year the internship has been made mandate. ✓ Internship
7	6.3	The syllabus needs few rectifications as the few subjects are not including the automation and new needs of the mining world	The subjects which are improved with new inclusion in the course are as follows: ✓ Surface mining ✓ Rock Fragmentation Engineering ✓ Underground Coal Mining Technology
8	6.12	Students should be aware of new sampling and geostatistical approach for collection of sample in the mining field.	The course which meets the modern approach of sample collection for further analysis of the sample are as follows: ✓ Geo-statistics
9		Students should be more exposed to the real time problems of the mining industry	To make students more aware of industry related problems in mining the following course included: ✓ Industry related project
10	6.11	Students should be allowed for internship and industrial visit	Due to corona industry are not allowing outsider to get entry in their premises, For Internship management has allowed each student to visit mines, also faculties are helping them to get the internship from various companies.
11		Sports culture should be developed in the college and proper timing should be given to it.	Already our Physical education department is there who were helping each and every student to nurture in their individual sports.
12		Students should be aware of modern design prospects of a mine.	The subject which gives the student design prospect of mine are included in the curriculum they are: • Mine Planning and Design Lab

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Spino
BoS Chairperson

Head of the Department
DEPARTMENT OF MINING ENGINEERING
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Department of Agricultural Engineering

Date: 14-10-2020

Minutes of the VI meeting of BOS scheduled on 10-10-2020

The VI BOS meeting of Agricultural Engineering was virtually held in Microsoft Teams on 10-10-2020 at 10.00 AM. Dr. N.V. Gowtham Deekshithulu, Chairperson presided over the meeting.

Agenda 6.1: Welcome address by chairperson BOS.

Dr. N.V. Gowtham Deekshithulu, Chairperson of BOS, invited all the distinguished members of BOS to the VI BOS meeting.

Agenda 6.2: Discussion and ratification of the Vision and Mission of the agricultural engineering department and Program Educational Objectives (PEOs), Program Outcomes (POs) and Program Specific Outcomes (PSOs) of the Program under the Agricultural Engineering Department.

1. The BOS members accepted and ratified the Vision, Mission, Program Educational Objectives (PEOs), Program Outcomes (POs) and Program Specific Outcomes (PSOs) of the agricultural engineering department.
2. Suggested to equip students with the skills needed to adapt better to the changing global scenario and gain access to multiple career opportunities.

Agenda 6.3: Discussion on proposed AR19 B.Tech. (Ag.E) Program – IV & V semester syllabus and ratification of the same.

The BOS members approved AR19 B.Tech. (Ag.E) Program – IV & V semester syllabus after making the following changes in the proposed syllabi.

1. Suggested alignment and spacings to be corrected in Surface Water Hydrology.
2. Suggested to increase mass transfer syllabus in HMT subject and modification in CO 5.
3. Suggested to add numerical problems on mass balance studies in HMT lab.
4. Suggested to add double clutch, zero clutch in FPTs course.


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5. Suggested to check the alignment of lab experiments in order and add starting, stopping of tractor and driving of tractor in FPTs lab.
6. Suggested to add principles, practices of cold storage in TDRS course.
7. Suggested to add failure theory in Strength of materials course.
8. Suggested to add machine and structure in unit 1 and alignment of topics in order and removal of governors and addition of cam follower and springs topics in T&DAM course.
9. Suggested to align course objectives in order and add unit operations briefly under unit 1 in APE&FQ subject.
10. Suggested to add precession topic in MMI course.
11. Suggested to change "food grains, fruits and vegetables" to food commodities and aided products in EPBM course.
12. Suggested to add brief topics on organic farming, zero budget farming, vertical gardening, kitchen farming and specify the classification of few crops.

Agenda 6.4: Discussion on proposed AR20 B.Tech. (Ag.E) first year program structure and ratification of the same.

The BOS members approved AR20 B.Tech. (Ag.E) Program – I year course structure after making the following changes:

Suggested to keep Principles of Agronomy and Soil Science theory and lab subject in the I sem itself as it was a basic fundamental course.

Agenda 6.5: Discussion on proposed AR20 B.Tech. (Ag.E) Program – I & II semesters syllabus and ratification of the same.

The BOS members approved AR20 B.Tech. (Ag.E) Program – I & II semesters syllabus after making the following changes in the proposed syllabi.

1. Suggested to keep only basic functions of N, P and K nutrients.
2. Suggested to keep concise concepts of agronomy and soil science.
3. Suggested to add identification of manures and fertilizers experiment in Principles of Agronomy and Soil Science lab.

Agenda 6.6: Discussion on Mathematics courses in the IV Semester of AR19 B.Tech. (Ag.E), AR20 B.Tech. (Ag.E) I to IV Semesters and ratification of the same.

The BOS members approved the Mathematics courses in the IV Semester of AR19 B.Tech. (Ag.E), AR20 B.Tech. (Ag.E) I to IV Semesters after making the following changes:


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1. Suggested to add probability and distribution, sampling theory and tests of hypothesis concepts as separate units in NMST course.
2. Suggested to add new reference text books in ITAPDE and NMST courses.
3. Suggested to complete all the mathematics courses in I & II semesters for the next regulations.

Agenda 6.7: Discussion on Courses having focus on employability / entrepreneurship/skill development in the program of B.Tech (Ag.E) program and ratification of the same.

The BOS members approved the recommended employability/entrepreneurship/skill development recommended courses and ratified the same.

Proposed to recognize C and CAD lab as an employability/skill oriented courses.

Agenda 6.8: 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 2020-2021 for B. Tech (Ag.E) is 15.56%. The list of new courses is enclosed as Annexure I.

Agenda 6.9: 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.

The BOS members recommended and ratified the B.Tech. (Ag.E) program in which Choice Based Credit System(CBCS)/elective course system.

The committee members advised to complete all the basic courses in the two years of B.Tech. (Ag.E) program and suggested to offer elective courses from the V semester according to the specialization.

Agenda 6.10: Discussion on the value-added courses offered for students and ratification of the same.

The BOS members approved the list of value-added courses offered to students and ratified the same.


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Agenda 6.11: Discussion on the percentage of syllabus revision done in B.Tech (Ag.E) the 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 2020-2021 for B. Tech (Ag.E) is 28.88%. The percentage of the courses revised is enclosed as Annexure II.

Agenda 6.12: Analysis of Results.

The BOS chairperson presented the results. The BOS members appreciated the faculty for achieving better pass percentages.

Agenda 6.13: 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 6.14: 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 6.15: Any other item/s with the approval of chairperson.

Suggested to keep professional core courses by increasing the credits.


Suggested to inculcate training programs for better job opportunities to the students.

Agenda 6.16: Scheduling of next BOS meeting.

After discussions with BOS members, the next BOS meeting will be planned in the month of September/October 2021.

Agenda 6.17: Vote of Thanks.

Dr. N.V. Gowtham Deekshithulu, 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 2020-2021

S. No	Program	Semester	Course Code	Course Name
1	B. Tech (Ag.E)	II	201ES2L12	Computer Aided Drafting Lab
2	B. Tech (Ag.E)	III	191ES3T10	Internet of Things
3	B. Tech (Ag.E)	III	191MC3A04	Essence of Indian Traditional Knowledge
4	B. Tech (Ag.E)	IV	191BS4T16	Numerical Methods & Statistical Techniques
5	B. Tech (Ag.E)	IV	191AG4L04	Ground Water Hydrology Lab
6	B. Tech (Ag.E)	IV	191AG4L06	Heat and Mass Transfer lab
7	B. Tech (Ag.E)	IV	191MC4A06	Biology for Engineers
8	B. Tech (Ag.E)	VII	171AG7E12	Aqua Cultural Engineering
9	B. Tech (Ag.E)	VII	171AG7E13	Soil Dynamics in Tillage and Traction
10	B. Tech (Ag.E)	VII	171AG7E14	Computational Fluid Dynamics
11	B. Tech (Ag.E)	VII	171AG7P01	Industry Oriented (Internship) Minor Project
12	B. Tech (Ag.E)	VIII	171AG8E15	Hydraulic Devices and Control
13	B. Tech (Ag.E)	VIII	171AG8O03	Mechatronics
14	B. Tech (Ag.E)	VIII	171AG8O05	Image Processing Techniques

N.V. Geel

BoS Chairperson
Head of the Department

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Annexure-II

List of Revised Courses in the Academic Year 2020-2021

S. No	Program	Semester	Course Code	Course Name
1	B. Tech (Ag.E)	I	201ES1L04	Soil Science and Agronomy Field Lab
2	B. Tech (Ag.E)	III	191BS3T11	Integral Transforms and Applications of Partial Differential Equations
3	B. Tech (Ag.E)	III	191AG3L01	Principles of Agronomy and Soil Science Lab
4	B. Tech (Ag.E)	IV	191AG4L05	Farm Power and Tractor Systems Lab
5	B. Tech (Ag.E)	VII	171AG7T19	Farm Machinery and Equipment – II
6	B. Tech (Ag.E)	VII	171AG7E09	Seed Processing and Storage Engineering
7	B. Tech (Ag.E)	VII	171AG7E11	Food Packaging Technology
8	B. Tech (Ag.E)	VII	171AG7L06	Farm Machinery Lab – II
9	B. Tech (Ag.E)	VII	171AG7L07	Dairy and Food Engineering Lab
10	B. Tech (Ag.E)	VIII	171AG8E17	Design of Agricultural Machinery
11	B. Tech (Ag.E)	VIII	171AG8O02	Industrial Pollution Control Engineering
12	B. Tech (Ag.E)	VIII	171CS8O04	Operations Research

N.V. God

BoS Chairperson

Head of the Department

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Annexure-III


Action Taken Report on Stakeholders Feedback in the Academic Year 2020-2021

S. No	Agenda Item No.	Stakeholders Recommended	Action Taken
1	6.15	Suggested to include Skill development courses to improve technical skills of students.	As per suggestions, Skill Oriented Courses will be included in the course curriculum.
2	6.11	Suggested to add courses which help them in industry sector.	As per suggestions, VACs will be selected and included in the course curriculum.
3	6.15	Suggested to include more industrial visits so, that students will gain practical knowledge.	As per suggestions, more industrial visits will be included in the coming semesters.
4		It is better to have MOU and placements with core industries.	As per suggestions and discussions made, necessary step will be initiated in coming years.
5		Suggested to elaborate HACCP concept in skill Oriented Course-Food Quality and Control.	As per suggestions, HACCP concept will be given in skill Oriented Course- Food Quality and Control.
6		Suggested to inculcate training programmes for better job opportunities to the students.	As per suggestions and discussions made, necessary step will be taken
7		For better understanding of Heat and Mass Transfer course, practical knowledge is required.	As per suggestions, Heat and Mass Transfer Lab will be included in course curriculum.
8		Suggested to include more advanced courses to merit students to enhance their knowledge	As per suggestions, Honor and minor courses will be included in course curriculum.
9		Suggested to add simulation topics in Computer Aided Manufacturing course.	As per suggestions, simulation topics will be included in Computer Aided Manufacturing course.
10	6.14	Requested to provide career guidance and expert talks by industrialists.	As per suggestions, Alumni meets, and guest lectures will be included.

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11		Suggested to add new textbooks and reference books in Integral Transforms and Applications of Partial Differential Equations.	As per suggestions, new textbooks and reference books will be included in Integral Transforms and Applications of Partial Differential Equations
12		Suggested to reduce syllabus in Irrigation and Drainage Engineering.	As per suggestions and discussions made, topics of Lacey's and Kennedy's theory removed in design of irrigation canal capacity in Irrigation and Drainage Engineering.


 N.V. God
 BoS Chairperson
 Head of the Department
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Department of Management Studies

Date: 09-11-2020

Minutes of the VI meeting of BOS scheduled on 07/11/2020

The VI meeting of the BOS of Management Studies was held virtually on 7th November 2020 at 11.00 AM through Microsoft Teams. Dr. N. Visalakshi, Chairperson presided over the meeting.

Agenda 6.1: Welcome address by Chair Person-BOS. .

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

Agenda 6.2: Ratification of minutes of the previous Board of Studies meeting

BOS Members have ratified the points discussed in the previous board of studies meeting held on 05-11-2019.

Agenda 6.3: Discussion on syllabus of proposed courses of AR19 IMBAV,VI,VII Semesters, and finalization of the same.

BOS members accepted the syllabus of AR19 IMBA- V,VI,VII semesters, & ratified the same.

Agenda 6.4: Discussion on the courses having focus on employability/entrepreneurship /skill development in MBA and IMBA program and ratification of the same.


The members of BOS ratified the courses having focus on employability/ Entrepreneurship / skill development in MBA and IMBA program.

Agenda 6.5: Discussion on the new courses offered in MBA and IMBA program & Ratification of the same.

Members of BOS noted the new courses offered in MBA and IMBA program and ratified the same. The percentage of new courses introduced in the academic year 2020-21 for MBA is 27.11% and for IMBA is 19.17%. List of new courses is enclosed as Annexure-I.

Agenda 6.6: 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.


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Agenda 6.7: Discussion on MBA and IMBA program in which 'Choice based credit system (CBCS)/elective course system is being implemented and ratification of the same

Members of BOS ratified (CBCS)/elective course system that is being implemented.

Agenda 6.8: Discussion on the percentage of revision of syllabus done in IMBA and MBA Program and ratification of the same.

The chairperson presented that Syllabus revision done in IMBA and MBA Program and ratified the same. The percentage of courses revised in the Academic year 2020-21 for MBA is 45.7% and for IMBA is 19.17%. List of Courses revised is enclosed in Annexure-II.

Agenda 6.9: 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 6.10: Analysis of stakeholder 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 6.11: 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 6.12: Any other items.

- Suggested that the Students and Faculty should attend the National & International Conferences and Seminars for the global exposure.
- Suggested to participate in Faculty Development Programs for upgrading their knowledge in terms of industry and academic requirements.

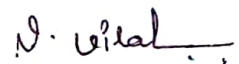
Agenda 6.13: Scheduling of next board of studies meeting.

The next meeting of BOS will be scheduled in the month of the Sept-2021.

Agenda 6.14: Vote of Thanks

The Chairperson presented the Vote of Thanks.


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BOS Chairperson
Head of the Department
Department of Management Studies
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Annexure-I

List of New Courses in the Academic Year 2020-21

S. No	Program	Semester	Course Code	Course Name
1.	MBA	III	194MB3T13	Operations Research.
2.	MBA	III	194HR3E03	Human Capital Management.
3.	MBA	III	194HR3E04	Manpower Planning, Recruitment, and Selection
4.	MBA	III	194MA3E04	Digital and Social Media Marketing
5.	MBA	III	194HR3E01	Leadership and Change Management
6.	MBA	IV	194HR4E05	Labour Welfare and employment laws
7.	MBA	IV	194MB4T15	Innovation and Entrepreneurship
8.	MBA	IV	194HR4E07	Employee Relations and Engagement
9.	MBA	IV	194FI4E05	Financial Derivatives
10.	MBA	IV	194FI4E08	Behavioral Finance
11.	MBA	IV	194MA4E07	Green Marketing
12.	MBA	IV	194MA4E08	Global Marketing Management
13.	MBA	IV	194SY3E01	Data Mining for Business Decisions
14.	MBA	IV	194SY3E02	Managing Software Projects
15.	MBA	IV	194SY4E05	Big Data Analytics
16.	MBA	IV	194SY4E08	Artificial Intelligence and Machine Learning
17.	IMBA	IX	16IM901	Intellectual Property Rights
18.	IMBA	IX	16IM902	Corporate Governance

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19.	IMBA	IX	16IM903A	Global HRM
20.	IMBA	IX	16IM904A	Labor Welfare & Legislation
21.	IMBA	IX	16IM905A	Management of Industrial Relations
22.	IMBA	IX	16IM903B	Global Financial Management
23.	IMBA	IX	16IM904B	Risk Management
24.	IMBA	IX	16IM905B	Tax Management
25.	IMBA	IX	16IM903C	Promotion and Distribution Management
26.	IMBA	IX	16IM904C	Global Marketing Management
27.	IMBA	IX	16IM905C	Retail Marketing
28.	IMBA	IX	16IM903D	Cyber Laws & Security
29.	IMBA	IX	16IM904D	Information Systems & Audit
30.	IMBA	IX	16IM905D	SAP


BOS Chairperson

Head of the Department
Department of Management Studies
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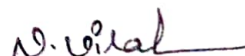
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Annexure-II

List of Courses Revised in the Academic Year 2020-21

S. No	Program	Semester	Course Code	Course Name
1.	MBA	III	194HR3E02	Performance Evaluation and Compensation Management
2.	MBA	III	194HR3E02	Investment Analysis and Portfolio Management
3.	MBA	III	194FI3E02	Managing Banks and Financial Institutions
4.	MBA	III	194FI3E03	Financial Markets and Services
5.	MBA	III	194FI3E04	Taxation
6.	MBA	III	194MA3E01	Consumer Behavior
7.	MBA	III	194MA3E02	Retail Management
8.	MBA	IV	194MB4T14	Supply Chain Management and Analytics
9.	MBA	IV	194HR4E06	International HRM
10.	MBA	IV	194FI4E07	Risk Management
11.	MBA	IV	194MA4E06	Promotional and Distribution Management


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BOS Chairperson
Head of the Department
Department of Management Studies
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Department of Management Studies

Annexure III

Action Taken Report on Stakeholders Feedback in the Academic Year 2020-21

S. No	Agenda Item No.	Stakeholders Recommended	Action Taken
1.	6.5	Suggested to Include the digital and social media marketing in curriculum.	Digital and social media marketing is included as a marketing elective in curriculum with the course code 194MA3E04.
2.	6.5	Suggested to Introduce Human Resource development related subjects	Human Capital Management(194HR3E03), Manpower Planning, Recruitment, and Selection(194HR3E04) are introduced in Curriculum
3.	6.5	Suggested to have more placement related courses in curriculum	Data Mining for Business Decisions (194SY3E01), Labour Welfare and employment laws(194HR4E05) included in curriculum
4.	6.5	Suggested to Introduce new demanded courses in curriculum	Financial Derivatives (194FI4E05) & Behavioral Finance (194FI4E08) is included in curriculum.
5.	6.5	Suggested to have latest technology related courses in curriculum.	Big Data Analytics (194SY4E05) and artificial intelligence (194SY4E08) courses for system specialization students are included in curriculum.
6.	6.10	Suggested to have more Industrial exposure for students	It is planned to organize two Industrial visits per semester beyond the Curriculum
7.	6.10	Encourage the students to complete more skill oriented courses	As per discussions value added course with hand on training will be implemented
8.	6.10	Suggested to have Skill oriented courses in curriculum.	Managing Software Projects (194SY3E02) are included in curriculum.
9.	6.10	Suggested to have more entrepreneurship related courses in curriculum.	Innovation and Entrepreneurship (194MB4T15) is included in curriculum.
10.	6.10	Suggested to have more reference books in curriculum.	Reference books and text books are finalized by BOS members


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11.	6.11	Suggested to conduct online exam due to Covid-19 pandemic	As per the State Government rule online exams are restricted to conduct. it is planned to conduct exams in offline
12.	6.11	Sports culture should be developed in the college and proper time should be given.	Physical Department is asked to conduct more sports competitions for MBA students and conducted more competitions.
13.	6.11	Students suggested to an interaction with Industrial employees to increase practical knowledge	Students are encouraged to do Internships to have interaction with Industry people


BOS Chairperson

Head of the Department
Department of Management Studies
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Department of Master of Computer Applications

Date:17/10/2020

Minutes of the 6th Meeting of BOS Scheduled on 15/10/2020

The VI meeting of the BOS of MCA was held virtually on 15th October 2020 at 11.30 AM through Microsoft Teams. Prof D.Beulah, Chairperson presided over the meeting.

Agenda 6.1: Welcome address by Chair Person-BOS.

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

Agenda 6.2: 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 08/11/2019.

Agenda 6.3: Discussion on proposed AR19 MCA Program – IV & V semester syllabus and ratification of the same.

The members of BOS ratified the AR 19 IV & V Semesters MCA syllabus after incorporating the following changes:

- Suggested to prepare COs in all levels of Blooms Taxonomy covering entire syllabus for all the Courses.
- Suggested to remove second text book in the course "Theory of Computation".
- Suggested to involve the students in real-time applications using IOT.
- Suggested to include practical oriented books for lab courses.
- Suggested to check the continuity of the topic Optimal randomized algorithm in Unit III of the course "Design and analysis of algorithms"
- Suggested to include IIT Delhi and IIT Kharagpur experts NPTEL weblinks in the course "Design and analysis of algorithms".
- Suggested to include Logic programming concepts as one unit in the course "Functional and logic programming".
- Suggested to add the web links of Pallab Das Gupta, Subject expert from IIT Kharagpur in the course "Artificial Intelligence".

Agenda 6.4: Discussion on proposed AR20 MCA First Year Program structure and ratification of the same.

The members of BOS ratified the MCA First Year Program structure.

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Agenda 6.5: Discussion on proposed AR20 MCA Program – I & II semesters syllabus and ratification of the same.

The members of BOS ratified the MCA Program – I & II semesters syllabus.

Agenda 6.6: Discussion on the courses having focus on employability/entrepreneurship/skill development in MCA programs and ratification of the same.

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

Agenda 6.7: Discussion on the new courses offered in MCA program and ratification of the same.

Members of BOS noted the new courses offered in MCA programme and ratified the same. The Percentage of new courses introduced in the academic year 2020-2021 for MCA is 25%. The list of new courses is enclosed as Annexure-I.

Agenda 6.8: Discussion on MCA 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 MCA program.

Agenda 6.9: 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 6.10: 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 2020-2021 for MCA is 57.6%. The list of courses revised during is enclosed as Annexure-II.

Agenda 6.11: Analysis of Results

Members of BOS noted the result analysis presented by the Chairperson for the A.Y.2020-21 and ratified the same.


Agenda 6.12: 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 6.13: 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 6.14: Any other item/s


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- Suggested to follow the competitive exams pattern partially in preparation of the question paper for sessional examinations.
- Suggested to involve the Alumni students to give guest lectures on few topics in the curriculum.
- Suggested to involve the students in smart city projects of Kakinada.

Agenda 6.15: Scheduling of the next BOS meeting.

The next BOS meeting is tentatively scheduled in the month of April 2020.

Agenda 6.16: Vote of Thanks

The Chairperson presented the Vote of Thanks.



BOS Chairperson

Head of the Department

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Annexure-I

List of New Courses in the Academic Year 2020-2021

S. No	Program	Semester	Course Code	Course Name
1	MCA	I	203MC1L01	Operating Systems and Linux Lab
2	MCA	I	203MC1P01	Socially Relevant Project using
3	MCA	II	203MC2T08	Software Engineering and Design
4	MCA	II	203MC2S01	Bridge Course (Python Programming
5	MCA	II	203MC2E01	No SQL Databases
6	MCA	IV	193MC4T17	Full Stack Technologies
7	MCA	IV	193MC4L10	Full Stack Technologies Lab
8	MCA	IV	193MC4L11	Data Mining with R Lab
9	MCA	IV	193MC5T20	Big Data Analytics
10	MCA	V	193MC5T21	Machine Learning
11	MCA	V	173MC5T21	Python Programming
12	MCA	V	173MC5E08	Computer Forensics
13	MCA	V	173MC5E10	Internet of Things

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Annexure-II

List of Courses Revised in the Academic Year 2020-2021


S. No	Program	Semester	Course Code	Course Name
1	MCA	V	193MC4E01	EMBEDDED COMPUTING

BOS Chairperson

Head of the Department

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Annexure-III

Action Taken Report on Stakeholders Feedback in the Academic Year


2020-2021

S. No	Agenda Item No.	Stakeholders Recommended	Action Taken
1	6.3	Effective Soft-skill training to be provided	Industry Oriented exclusive Soft-skill trainer is appointed as a trainer. Communication Skill lab-I & II also included in the Syllabus. The students are encouraged to present in seminar session.
2	6.3	Include Emerging technologies in the syllabus like Full Stack Technologies, Block Chain Technologies, Data Science, ...etc	As per the suggestion given by the employer and alumni Syllabus was revised, Open Elective I, II, III & IV are introduced, and emerging Full Stack Technologies, Block chain Technologies, Data Science are included in the syllabus.
3	6.3	Suggested more practical oriented courses in the curriculum	Courses are introduced as per the suggestion.
4	6.3	In comparison with the syllabus Computer Organization and Operating System, it has a combination of Computer Organization and Operating System syllabus. If possible, reduce the syllabus and keep the subject in 2 nd semester.	As per the suggestions given by the alumni Computer Organization and Operating System syllabus has been reduced.
5	6.14	To provide a chance for students to learn the work culture in the companies	Students are allowed to go for internships and carry out the projects to learn the work culture.
6	6.14	Take more precautions in these pandemic years	All the COVID-19 precautions such as checking the student's temperature, Sanitizing the

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			classrooms/ Laboratories, placing Sanitizer in every floor, and maintain the social Distance during exams and class works. The Doctors in the health centre inside the campus are there to provide first aid.
7	6.12	Increase industrial training practically	The internship is made mandatory from AR20 regulations onwards and thereby the students should take the industry training and implement a project as part of the Internship.
8	6.12	Requested to conduct online exam for students due to Covid-19 pandemic	As per the State Government rule online exams are restricted to conduct. it is planned to conduct exams in online
9	6.12	Please design the curriculum in such a way that the students come across department related courses in the early semester itself. This helps the students in having an insight on GATE and other competitive exams as well as placements.	Computer Organization and Operating System and Data Structures subjects are included in 1 st semester and Database Management Systems, Computer Networks, and Software Engineering and Design Patterns are included in 2 nd semester.
10	6.14	Take more precautions in these pandemic years.	All the COVID-19 precautions such as checking the student's temperature, Sanitizing the classrooms/ Laboratories, placing Sanitizer in every floor, and maintain the social Distance during exams and class works. The Doctors in the health centre inside the campus are there to provide first aid.
11	6.12	Increase industrial training practically	The internship is made mandatory from AR20 regulations onwards and thereby the students should take the industry training and implement a project as part of the Internship.


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