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List of New Courses Highlighted BOS Meeting Minutes for the Academic Year 2021-2022

INDEX

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Department of Civil Engineering

Date: 20-04-2022

Minutes of the VIII meeting of BOS scheduled on 18-04-2022

The VIII meeting of the BOS of Civil Engineering was held virtually on 18-04-2022by 10:00 AM via Microsoft teams. Mr. P.Ravi Kishore, Chairperson presided over the meeting.

Agenda 8.1: Welcome address by Chairperson
Mr. P. Ravi Kishore, Chairperson of BOS, invited all the distinguished members of BOS to the VIII BOS meeting.

Agenda 8.2: Ratification of minutes of the previous Board of Studies meeting.
- Discussed regarding the minutes of the previous board of studies meeting held on 07-10-2021and the members have ratified the same.

Agenda 8.3: Discussion on proposed AR20 B.Tech (CE) Program – V, VI, VII & VIII semesters syllabus and ratification of the same.
The BOS members approved the V, VI, VII & VIII semesters syllabus of AR20 B.Tech, after suggesting the following changes–
- Structural Engineering track
  Concrete Technology:
    - Suggested to include NDT and durability in the syllabus
    - Suggested to include Textbook by S. Ramamrutham
  Construction Technology and Management: Suggested to include pre-cast element
  Construction Materials and Equipment: Suggested to include nano aggregates and
  Recycled Concrete Aggregate (RCA)
  Basic Concrete Technology: Suggested to include anti-wash concrete
- Transportation Engineering track
  Pavement Construction Maintenance and Management:
  Suggested to include median of road
- Environmental Engineering track
- Professional Electives:
  PE 1 EPC: 1.Suggested to include acts related to environment
  2. Suggested to prescribe an Indian author book
- Theory:
  Environmental Engineering: Suggested to include IS 456- 2000 standards for quality of water for Constructional activities

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1

Agenda 8.4: Discussion on proposed syllabus for courses in V to VIII semester under AR20 Honors & Minor degree and ratification of the same.

- BOS Chairman explained the detailed programme structure of AR20 B.Tech (CE) Including Regular, Honours, Minor degree B.Tech Programmes

Agenda 8.5: Discussion on the value-added courses to be offered for the students and ratification of the same.

- BoS members approved the list of value-added courses offered to students.
- 6 Value added courses are discussed from various online platforms like Course Era, Land T EdTech and Udemy and finalized the same.

Agenda 8.6: Discussion on the courses having focus on Employability/entrepreneurship/skill development in the programs of AR19 B.Tech (CE) and M.Tech,(Structural Engineering) and ratification of the same.

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

Agenda 8.7: Discussion on the new courses offered in the B.Tech (CE) and M.Tech (Structural Engineering) programs and ratification of the same

- Members of BOS noted the new courses offered in the AR19 B.Tech (CE) and M.Tech (Structural Engineering) programs and ratified the same. The percentage of new courses introduced in the academic year 2021-22 for B.Tech (CE) is 14.43%. The list of new courses during the academic year 2021-2022 enclosed as Annexure-I.

Agenda 8.8: 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 revision was done in B.Tech (CE) & M. Tech (Structural Engineering) program based on the stakeholder's feedback on Curriculum. The BoS members have approved and ratified all the syllabus revisions in B.Tech (CE)& M.Tech (Structural Engineering). The percentage of courses revised in this academic year 2021-22 for B.Tech (CE) is 41.72 % and M.Tech(Structural Engineering) is 3.03%.The list of courses revised is enclosed as Annexure-II.

Agenda 8.9: Discussion on the B.Tech (CE) and M.Tech (Structural Engineering) Programmes in which Choice Based Credit System (CBCS)/elective course system is being implemented and ratification of the same.

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

Agenda 8.10: 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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2

Agenda 8.11: Analysis of Results of the odd semester of the academic year 2021-22.

- The BOS Chairperson presented the even and odd semesters pass percentage of the A.Y. 2021-2022. The BOS members noted the same.

Agenda 8.12: Analysis of student feedback in the odd semester of the academic year 2021-22.

- BOS Chairperson expressed that the student feedback & action taken report process was initiated at end of each semester. The BOS members noted the same.
- BoS members suggested to present the students results in grade wise and subject wise. And also, to present the number of students who cleared all the subjects at the first attempt.

Agenda 8.13: Any other item with the approval of Chairperson.

- Discussed about Industry 4.0 and identification of related courses
- Discussed about integrated lab and theory courses of which 30 to 40% are through online platform
- Ways to improve GATE rankers among students

Agenda 8.14: Scheduling of next Board of Studies meeting.

- The next BOS meeting is tentatively scheduled in the month of November 2022.

Agenda 8.15: Vote of Thanks.

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

BOS Chairperson
Head of the Department
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3

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Department of Civil Engineering

Annexure I

List of new courses in the academic year 2021-2022

S. No	Program	Semester	Course Code	Course Name
1.	B. Tech (CE)	V	191PR5P02	Socially Relevant Project
2.	B. Tech (CE)	III	201SC3L01	Computer Aided Drafting Lab
3.	B. Tech (CE)	IV	201SC4L13	3D Modeling using Revit
4.	B. Tech (CE)	V	191CE5E04	Subsurface Investigation and Instrumentation
5.	B. Tech (CE)	V	191CE5E01	Airport Planning and Design
6.	B. Tech (CE)	V	191CE5E03	Environmental Pollution and Control
7.	B. Tech (CE)	V	191CE5O01	Basic Concrete Technology
8.	B. Tech (CE)	VI	191CE6E09	Railway Engineering
9.	B. Tech (CE)	VI	191CE6E08	Hydropower Development
10.	B. Tech (CE)	VI	191CE6E12	Expansive Soils
11.	B. Tech (CE)	VI	191CE6E11	Docks and Harbour Engineering
12.	B. Tech (CE)	VI	191CE6E15	Water Resources System Analysis
13.	B. Tech (CE)	VI	191CE6E14	Industrial Waste & Waste-Water Engineering
14.	B. Tech (CE)	VI	191CE6O02	Disaster Management

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4

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Department of Civil Engineering

Annexure II

List of courses revised in the academic year 2021-2022

S. No	Program	Semester	Course Code	Course Name
1	B. Tech (CE)	V	191CE5T09	Irrigation & water resource Engineering
2	B. Tech (CE)	V	191CE5E02	Construction Technology &Management
3	M. Tech (Structural Engineering)	III	192ST3E15	Industrial Structures
4	M. Tech (Structural Engineering)	III	192ST1E04	Bridge Engineering

BOS Chairperson
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5

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DEPARTMENT OF CIVIL ENGINEERING

Annexure III

Action taken report on Stakeholders Feedback in the Academic Year 2021-2022

S. No	Agenda Item No.	Stakeholders Recommended	Action Taken
1	8.6	Student's exposure to practice a land field knowledge.	Students has been taken to industrial visit to Yeleswaram dam and field trip on geology
		Conduct programming skills training for students to prepare them for interviews.	We have already implemented a training program.
		Trained the students in programming skills so that they can confidently face the technical interview.	We are providing training for placement jobs and will gradually increase training sessions.
2	8.4	Inclusion of minor degree sandhon our courses	For 3rd and 4th year B.Tech (AR20) students shall complete at least four subjects selected from four different specializations to get B.Tech Honors.
	8.13	It is preferable to offer GATE classes after college hours or during summer vacation.	The Civil Department is organizing GATE training for students who are eager to learn.
	8.5	Introduced software for steel structure design, such as TEKLA.	As per suggestions we will focus on software's which are related to steel structures.
3	8.5	Suggested to conduct on value-added course in odd semester and another value-added course in even semester.	In odd semester "Structural Design of RCBuildingsUsingEats",Inevensemester"2D & 3D Modelling Using Google Sketch Up" along with academics conducted.
	8.13	The curriculum should be revised and follow the Engineering Service Examination and the GATE exam syllabus.	Step by step, we are upgrading the syllabus.
	8.6	organize a workshop to discuss ways to improve the teaching and learning process	Based on your suggestions, we will create workshop schedules.

6

	8.6	Improve communication skills & employability caliber in students	Conductingcommunicationskills&badgetests undertheguidanceofTechnicalHubofAdityaEd ucationalInstitutions, Surampalem with continuous monitoring.
4	8.3	Students must receive advanced surveying training in order to increase practical knowledge and use the most up-to-date tools in the field of civil engineering.	Total station camp report submission was introduced in the third year of the B.Tech program as a means of improving students' practical knowledge approach to solving domain problems.
	8.3	Include all related basic engineering subjects in the first year and allow for branch change options in the second year.	We will consult with college administration based on the feedback we have received.

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Department of Electrical and Electronics Engineering

Date: 20-04-2022

Minutes of the VIII meeting of BOS scheduled on 20-04-2022

The VIII meeting of the BOS of EEE was held on 20/04/2022 at 9.30 AM, Ajivika Conference Hall. Dr. V. Srinivasa Rao, Chairperson presided over the meeting.

Agenda 8.1: Welcome address by Chairperson.

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

Agenda 8.2: 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 28/09/2021.

Agenda 8.3.: Discussion on proposed AR20B.Tech (EEE) V, VI, VII and VIII semesters syllabus and ratification of the same.

The BOS members approved the AR20B.Tech (EEE) V, VI, VII and VIII semesters syllabus after incorporating the following changes in the proposed syllabi.

- Suggested that in Power Electronics course the Unit-IV: Basics of choppers can be removed. Dual converter to be added.
- Suggested that in Electrical Measurements and Instrumentation lab 10th experiment in the compulsory experiments is swapped with 5th experiment in the augmented list of experiments.
- Suggested that in Industrial Electrical systems in Unit V PLC is replaced by max DNA.
- Suggested that in Neural Networks and Fuzzy Logic in Unit IV Kolmogorov Theorem Learning Difficulties and Improvements and Associative memories is replaced with Bidirectional associative memory, architecture of discrete Hopfield network and In Unit V Neural network applications is removed.
- Suggested to remove fuel cell and ocean energy from non-conventional energy resources.
- Suggested to include PMSM drives basic operation in power converters and drives.
- Suggested to include k-factors and non-three phase transmission lines in electrical distribution systems.
- Suggested to remove power system stabilizers and calculation of damping torque from power system analysis.
- Suggested to include these four experiments in power system and simulation lab:
  - i. Performance of long transmission line without compensation
  - ii. Performance of long transmission line with shunt compensation

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8

  iii. Analyze the Ferranti effect on long transmission line

  iv. Transient Stability analysis of single machine connected to an infinite bus (SMIB) using equal area criterion.

- Suggested to include the experiment Determination of the characteristics of a LVDT in electrical measurements and instrumentation lab.

Agenda 8.4: Discussion on proposed AR20 Honors and Minor Degree Courses syllabus and ratification of the same.

  The BOS Members ratified the syllabus of Honors and Minor Degree courses of AR20 V, VI and VII semesters.

Agenda 8.5: Discussion on value added courses offered for the students and ratification of the same.

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

Agenda 8.6: Discussion on the new courses offered in the B. Tech (EEE) program and ratification of the same.

  Members of BOS noted the percentage of new courses offered for the academic year 2021-2022 in the B. Tech (EEE) is 12.63% and ratified the same. The list of new courses is enclosed as Annexure-I.

Agenda 8.7: Discussion on the percentage of the syllabus revision has done in the B. Tech (EEE) & M. Tech (PED) programs and ratification of the same.

  The syllabus revisions done in B. Tech (EEE) & M. Tech (PED) programs based on the Stakeholders feedback on curriculum. The BOS members have approved all the percentage of syllabus revision for the academic year 2021-2022 in B. Tech (EEE) is 38.28% and M. Tech (PED) is 6.12%. The list of courses revised during is enclosed as Annexure-II.

Agenda 8.8: Discussion on the courses having focus on employability/ entrepreneurship/ skill development in the program of B. Tech (EEE) & M. Tech (PED) programs and ratification of the same.

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

Agenda 8.9: Discussion on the B. Tech (EEE) & 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) & M. Tech (PED) programs.

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Agenda 8.10: 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 8.11: Analysis of Results of the odd semester of the academic year 2021-22.

The BOS Chairperson presented the odd semesters pass percentage for the

A. Y. 2021-2022. The BOS members noted the same.

Agenda 8.12: Analysis of students feedback in the odd semester of the academic year 2021-22

BOS Chairperson expressed that the student feedback in academic year 2021-2022 for odd semester. The BOS members noted the same

Agenda 8.13: Any other items with the approval of Chairperson.

- Dr. M. Nageswara Rao suggested to prescribe relevant books for the new courses.
- Mr. M. Veera Suresh suggested to have relevant weblinks for all the courses.
- Dr. K Siva Kumar suggested to have remedial classes for the poor performers.
- Mr. N Siva Prasad suggested to frame syllabus with more emphasis on present practical requirement in the industry.
- Mr. N Siva Prasad suggested to use MAX DNA in place of PLC as per the present requirement of the industry.

Agenda 8.14: Scheduling of next Board of Studies meeting.

- The next BOS meeting is tentatively scheduled in the month of December 2022.

Agenda 8.15: Vote of Thanks

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

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BOS Chairperson
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Department of Electrical and Electronics Engineering

Annexure-I

List of New Courses in the Academic Year 2021-2022

S. No	Program	Semester	Course Code	Course Name
1	B. Tech (EEE)	III	201SO3L02	Design of Electrical Circuits using Engineering Software Tools
2	B. Tech (EEE)	IV	201SC4L14	IoT Applications of Electrical Engineering
3	B. Tech (EEE)	V	191EE5T12	Electrical Measurements and Instrumentation
4	B. Tech (EEE)	V	191EE5O02	Electrical Materials
5	B. Tech (EEE)	V	191EE5O03	Basic Electrical Measurements
6	B. Tech (EEE)	V	191PR5P02	Socially Relevant Project
7	B. Tech (EEE)	VI	191EE6E05	Advanced Power Electronics Converters
8	B. Tech (EEE)	VI	191EE6E11	High Voltage Transmission
9	B. Tech (EEE)	VI	191EE6E12	Switched mode power Converters
10	B. Tech (EEE)	VI	191EE6E09	Control Systems Design
11	B. Tech (EEE)	VI	191EE6E10	Electrical Safety
12	B. Tech (EEE)	VI	191EE6L06	Electrical Measurements & Instrumentation Lab

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Department of Electrical and Electronics Engineering

Annexure-II

List of Courses Revised in the Academic Year 2021-2022

S. No	Program	Semester	Course Code	Course Name
1	B. Tech (EEE)	III	201EE3T01	Analog Electronic Circuits
2	B. Tech (EEE)	III	201EE3L01	DC Machines and transformers
3	B. Tech (EEE)	VI	191EE6T13	Microprocessor & Interfacing
4	M. Tech (PED)	I	192PD1E03	Programmable Logic Controllers & Applications
5	M. Tech (PED)	I	192PD1E04	Artificial Intelligence Techniques
6	M. Tech (PED)	II	192PD2E09	Digital Control Systems
7	M. Tech (PED)	II	192PD2E10	Advanced Digital Signal Processing

BOS Chairperson

Head of The Department

Dept: Of Electrical & Electronics Engineering

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12

Department of Electrical and Electronics Engineering
Annexure-III
Action Taken Report on Stakeholders Feedback in the Academic Year 2021-22

S. No	Agenda Item No.	Stakeholders Recommended	Action Taken
1.	8.10	As electrical vehicles are a trendy topic in the coming years. Students are encouraged to know about the Electric Vehicles.	Considering Employer Feedback, a value added course named "Electric Vehicles design-simulation" is included in the curriculum.
2.	7.6	The importance is step up and step down of voltage and current is gaining importance in industry sector. The concept of instrumentation transformers (CT, PT) are to be included in the power systems of AR20	The concept of instrumentation transformers will be added in power systems subject.
3.	8.13	The course "MAX DNA" should be considered in the place id "PLC" for the industry oriented jobs	Based on the suggestions given by the employer, steps will be taken to replace the "PLC" course with "MAX DNA".
4.	8.3	For students to work in core sectors, they must have practical knowledge of electrical programming ideas.	Power electronic programming topics will be thoroughly analysed and efficiently demonstrated through PPTs, online/offline classes, and video presentation.
5.	7.4	Course structure of some subjects are to be modified in such a way student can gain more knowledge.	Taking Alumni feedback the courses named "Microprocessor and interfacing, Power system-II, Power Electronics and Energy Audit Conversation and Management" are modified.
6.	7.4	The course content of "Power quality and FACTS" in AR19 is vast and is to be reduced.	Necessary arrangement are to be taken in order to reduce the course content of "Power quality and FACTS" in AR19
7.	8.5	The courses of "Applications of Artificial intelligence to Electrical Engineering and Python Programming" are to be offered to the students that shares the knowledge of coding in electrical applications	the following courses "Applications of Artificial intelligence to Electrical Engineering and Python Programming" will be considered as a value added courses for the students.

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13

8.	7.13	The software and hardware knowledge must be balanced by introducing more courses related to simulation and demo oriented expert talks.	New courses will be introduced as open electives that balances the software and hardware
9.	7.15	Web links are to be included in the course syllabus	Considering Teacher Feedback, web links are provided at the end of every course in the AR19 and AR20 curriculum.
10.	7.4	As stabilizing power system is an important topic, it is recommended that the concept of "power system stabilizer" should be included in the power system course	Based on the suggestions given by the faculty, necessary arrangements will be made to include the concepts of power system stabilizers in the power systems course
11.	8.13	Remedial classes should be conducted for poor performers	Steps are to be taken to conduct remedial classes for poor performers
12.	8.3	Students should know the basics of all the fundamentals of power electrical devices.	Effective demonstration of fundamentals and basics are thought using PPT, placards, animations and video demonstrations.
13.	8.10	Increase industrial training practically	Since internships are now required, students must complete industry training and complete a project as part of their internship.
14.	7.12	Value added courses are to be conducted.	Necessary arrangements will be taken to conduct the value added courses like "battery management system and machine learning".
15.	8.3	As it is difficult to understand the concepts of "Neural Networks and Fuzzy logic" it is suggested to remove it from the curriculum	The idea of Neural networks and fuzzy logic and its applications will be removed from the curriculum.
16.	7.10	The addition of a new lab course can enhance students communication skills and their command of the English language.	Considering student/parent feedback, necessary measures will be taken to enhance the communication skills among the students.

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14

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Department of Mechanical Engineering

Date: 20-04-2022

Minutes of the VIII meeting of BOS scheduled on 18-04-2022

The VIII meeting of the BOS (Board of Studies) of ME was held on 18-04-2022 at 10:00 AM in the AjivikaConference Hall, Bill Gates Bhavan, AEC. Dr.Bh.Vara Prasad, Chairperson presided over the meeting.

Agenda 8.1:Welcome address by Chairperson.

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

Agenda 8.2: 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 28/09/2021.

Agenda 8.3:Discussion on proposed AR 20 B. Tech Program– V, VI, VII & VIII semesters syllabus and ratification of the same

> The BOS members approved the AR **20** B. Tech (ME) V,VI,VII&VIIISemesters syllabus after making the following changes in the proposed syllabi.

- Suggested to keep "Theory of Machines", III edition, Pearson Publication by Thomas Bevan and "Theory of Mechanisms and Machines" I edition, Metropolitan Publication by Jagdish Lal as Reference books in Theory of Machines -II subject.

- Suggested to add "Basics of Jet Propulsion and Rocket Engineering" topic in Unit-V of Thermal Engineering-II subject.

- Suggested to replace "Non-traditional" with "advanced machining Processes" and advised to remove "process parameters" of the advanced processes and also suggested to add "Manufacturing Technology- Metal cutting and machine tools by PN Rao, Tata Mc Grawhill as Reference book in Metal cutting and machine tools subject.

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SURAMPALEM - 533 437

15

- Suggested to add "Electrical vehicles" topicin AutomobileEngineering of Professional Elective-Iand also advised to introduce Electrical Vehicles as a separate elective subject.

- Suggested to add "introduction about ceramics" in unit-III of composite materials subject in professional Elective-I.

- Suggested to replace "gas turbines" topic with "hydraulic turbines and compressors"influid engineering subject of Professional Elective-I. Also suggested to change the subject title as "Fluid Machinery" instead of "Fluid Engineering".

- Suggested to introduce "Text Book of Mechanical Vibrations" by J.S.Rao and Rao.V. Dukkipati, II edition, 2012, PHI Publications as Reference book in Mechanical Vibrations subject of professional elective

- Suggested to reduce syllabus of "Automobile Engineering" in Open Elective-I.

- Suggested to add "Indian Scenario" topic in IPR (Mandatory Course).

- Suggested to add "Refrigeration and Air Conditioning"byW.F.Stoecker and J.W.Jones, II edition ,2014, Mc.Graw Hill Publicationsas reference book in Refrigeration and Air Conditioning Subject

- Suggested to change title of the subject from "alternate fuels" to "alternative fuels" in professional elective -III

- Suggested to extend "Design for manufacturing and Assembly" topic to real world topics where product based/ Automobile Engineers are looking nowadays in professional elective -III.

- Suggested to add "strain rate analysis and temperature analysis"in Unit-V in "Experimental stress analysis" subjectof professional elective -IV.

- Suggested to introduce "Mechatronics by Hindustan Machine Tools", I edition,2017,Mc. Graw Hill Publicationsin Mechatronics subject.

Agenda 8.4:Discussion on proposed syllabus for courses in V to VII Semester under AR20 Honors and Minor Degree and ratification of the same.

The BOS members approved the V, VI, VII&VIIISemester under AR20 Honors and Minor Degree syllabus after making the following changes in the proposed syllabi.

- Suggested to keep "Introduction to Robotics", II edition,2008, Mc. Graw Hill Publications by S.K.SAHA as reference book in Robotics-Modelling, Analysis& Control) in Pool-II of   B. Tech- Honors.

Agenda 8.5: **Discussion on the value-added courses to be offered for students and ratification of the same**

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

Agenda 8.6: **Discussion on the new courses offered in B. Tech (ME) program and ratification of the same**

The Members of BOS noted the new courses offered in the B.Tech (ME) program and ratified the same. The percentage of courses introduced in the academic year 2021-2022 for B.Tech (ME) Program is 12.59%. The list of courses introduced is enclosed as Annexure-I.

Agenda 8.7: **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) programs based on the stakeholders feedback on the curriculum. The BOS members have approved all the syllabus revisions in B. Tech (ME) and M.Tech (TE) programs. The percentage of courses revised in the academic year2021-2022 for B.Tech (ME) program is 38.58% and M.Tech (TE) program is 2%.The list of courses revised is enclosed as Annexure-II.

Agenda **8.8:Discussion on the courses having focus on employability/entrepreneurship/skill development of B. Tech (ME), M. Tech(TE) Programs and ratification of the same.**

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

Agenda 8.9: **Discussion on B. Tech (ME), M. Tech (T.E) programs in which Choice Based Credit System (CBCS) / Elective Course System (ECS) is being implemented and ratification of the same.**

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

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17

Agenda 8.10: **Analysis of stakeholder'sfeedback 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 is enclosed in Annexure III.

Agenda 8.11: **Analysis of results of the odd semesters of the academic year 2021-22**

The BOS chairperson presented odd semester pass percentage for the A.Y.2021-2022.The BOS members noted the same.

Agenda 8.12: **Analysis of student's feedback in the odd semesters of the academic year 2021-22**

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

Agenda 8.13: Any other item with the approval of Chairperson

NIL
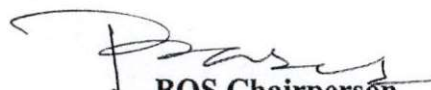
Agenda 8.14: Scheduling of next Board of Studies meeting.
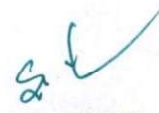
The next BOS meeting is tentatively scheduled in the month of September,2022.

Agenda 8.15:Vote of Thanks

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

BOS Chairperson

Head of the Department
Department of Mechanical Engineering
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18

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Department of Mechanical Engineering

Annexure-I

List of New Courses in the Academic Year 2021-22

S. No	Program	Semester	Course Code	Course Name
1	B. Tech (ME)	III	201SC3L03	Java Programming Lab
2	B. Tech (ME)	IV	201SC4L15	Python Programming Lab
3	B. Tech (ME)	V	191ME5E02	Composite Materials
4	B. Tech (ME)	V	191ME5E06	Organizational Behavior
5	B. Tech (ME)	V	191ME6O01	Renewable Energy Sources
6	B. Tech (ME)	V	191ME6O02	Fundamentals of Mechanical Engineering
7	B. Tech (ME)	V	191ME6O03	Supply Chain Management
8	B. Tech (ME)	V	191ME6O04	3D Printing
9	B. Tech (ME)	V	191ME6O05	Entrepreneurship Development and Incubation
10	B. Tech (ME)	V	191PR5P02	Socially Relevant Project
11	B. Tech (ME)	VI	191ME6E13	Alternative Fuels
12	B. Tech (ME)	VI	191ME6E16	Lean Manufacturing
13	B. Tech (ME)	VI	191ME6O06	Solar Energy Utilization
14	B. Tech (ME)	VI	191ME6O07	Basic Thermodynamics and Heat Transfer
15	B. Tech (ME)	VI	191ME6O08	Introduction to Hydraulics and Pneumatics
16	B. Tech (ME)	VI	191ME6O10	Robotics

BOS Chairperson

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19

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Department of Mechanical Engineering

Annexure-II

List of Courses Revised in the Academic Year 2021-22

S. No	Program	Semester	Course Code	Course Name
1	B. Tech (ME)	IV	201ME4T04	Theory of Machines-I
2	B. Tech (ME)	V	191ME5E03	Fluid Engineering
3	B. Tech (ME)	V	191ME5E04	Mechanical Vibrations
4	B. Tech (ME)	VI	191ME6E08	Mechatronics
5	B. Tech (ME)	VI	191ME6E12	Additive Manufacturing
6	M. Tech (TE)	II	192TE2E13	Jet Propulsion & Rocket Engineering
7	M. Tech (TE)	III	192TE3E19	Convective Heat Transfer

BOS Chairperson

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Department of Mechanical Engineering

Annexure III

Action Taken Report on Stakeholders Feedback in the Academic Year 2021-22

S. No	Agenda Item No.	Stakeholders Recommended	Action Taken
1	8.3	In automotive, Technology is advancing day by day from conventional to hybrid, knowledge on electric usage must be known.	As suggested, introduction to electric vehicles will be introduced based on the discussion made.
2	8.10	Capability to acquire and apply fundamental principles of engineering is needed.	As per suggestions Internship is made mandatory and thereby the students should take the industry training.
3	8.3	Suggested to involve advanced manufacturing topics, where product based/ Automobile Engineers are looking nowadays in the curriculum.	According to the suggestions and discussions made, Design for Manufacturing and Assembly will be added to the curriculum.
4	8.10	A clear understanding on the material must be known to perform research.	As per suggestion received, introduction about ceramics will be introduced in the composite materials.
5	8.10	Due to the tremendous growth in theIT industry it is better to get known to programming related subjects.	As per suggestions, SOC (Skill Oriented Course) will be introduced to the curriculum.
6	8.3	It is better that students have knowledge on the cutting edge technologies.	According to the suggestion received, additive manufacturing will be introduced to the curriculum based on the discussions made.

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7	8.10	Every students to understand the basic principles of engineering and the introduction of biological concepts so that they can effectively interact to concern for providing solutions to the problems related to bio systems.	As suggested, biology for engineers willbe introduced into the curriculum.
8	8.10	It is better to have Knowledge on power plant operations and its working.	As per the suggestions, course on powerplant economics will be introduced.
9	8.4	It is better student have knowledge on the computer science related subjects during their graduation.	As per the suggestions and discussion made with the experts, BOS and Professionals, Honours and Minor degree programs will be introduced based on the students choice.
10	8.8	Better to add technical oriented courses so that student may be industry ready and can perform the project well.	As per suggestion, Technical courses such as CATIA, ANSYS and Solid edge will be taught in association with APSSDC.
11	8.12	Advancements in industries and job opportunities in the core must be known.	As per suggestion, seminars and workshops will be conducted in association with T2 and product based companies and global engineers.
12	8.10	Better to perform projects on the real time applications for better employment.	As per suggestions, it will be planned to discuss with the M.Tech coordinator and project guides for the implementation of experimental and analytical projects.

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22

13	8.10	Better to learn advanced courses for knowledge enhancement.	As per the suggestion received, student will be encouraged to take SWAYAM courses in accordance with discussion with deans.
14	8.10	For better placement in the companies, problem solving skills and performance of the student needs to be enhanced.	As per the feedback, AICTE and college will implement to get the access of PARAKH – SLAP to practice exams online for the placement.
15	8.12	Better to provide more technical sessions, webinars on the advanced topics.	As suggested, industrial orientation sessions from industry experts and global engineers will be initiated.

BOS Chairperson

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23

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Department of Electronics and Communication Engineering

Date: 26-04-2022

Minutes of the VIII meeting of BOS scheduled on 25-04-2022

The VIII meeting of the BOS of Electronics and Communication Engineering Department was held on 25-04-2022 at 09.30 AM.

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

Agenda 8.1: **Welcome address by Chairman**
Dr. G. Sridevi, Chairman of BOS, invited all the distinguished members of BOS to the first BOS meeting.

Agenda 8.2: **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 07-10-2021.

Agenda 8.3: **Discussion on proposed AR20B.Tech (ECE) V, VI, VII and VIII semesters syllabus and ratification of the same.**
The BOS members approved the AR20B.Tech (ECE) V, VI, VII and VIII semesters syllabus after incorporating the following changes in the proposed syllabus.

The members of BOS suggested the following changes to the proposed AR19 VI, VII and VIII Semester B.Tech (ECE):

- Suggested to include Industrial IoT concepts in the Internet of Things course of VI semester.
- Suggested to include current advancements as augmented experiments in IoT laboratory course of VI semester.
- Suggested to include some of the Nano Electronics concepts in VLSI course of VI semester.
- Suggested to make "Modern VLSI Design: System-on-Chip Design, Wolf Wayne" as a text book instead of reference book.
- Suggested to include counters / registers based experiments in VLSI laboratory course of VI semester.
- Suggested to include Cryptography concepts like error control coding, RS, DES and AES algorithms in Information Theory and Coding course (Professional Elective –II) of VI semester.

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24

- Suggested to remove MTI Radar and concentrate more on Range Gated Doppler Radar in UNIT-II of Radar Systems course in VI semester.
- Suggested to reframe the syllabus contents of Embedded C course (Professional Elective –III) in VI semester.
- Suggested to include overview of evolutionary techniques for testing in Design for Testability course (Professional Elective –III) of VI semester.
- Suggested to frame the syllabus of Signal Transform Techniques course of VI semester in an application-oriented approach as it seems to be mathematical course.
- Suggested to include power link budgeting concept and frame the syllabus in a qualitative approach for Microwave and Optical Communication course in VII semester.

Agenda 8.4: **Discussion on proposed AR20 Honor and Minor Degree Courses syllabus and ratification of the same.**

After long discussions with the BOS members on the proposed list of courses offered to obtain Honor degree in ECE and Minor degree under AR20 B.Tech Regulation and the following suggestions are made:

- Suggested to frame a course with Advanced Modulation techniques and coding techniques instead of Optical Networks in IV semester of Honors Degree program structure.
- Suggested to frame the syllabus of Open Elective courses and Minor Degree courses in a qualitative approach.
- Suggested to give different the course names for Open Elective courses and Minor Degree courses to avoid ambiguity at the time examination conduction.

Agenda 8.5: **Discussion on value added courses offered for the students and ratification of the same.**

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

- Signal and Image Processing using MATLAB
- NI_LabVIEW
- PCB Designing
- AWS Cloud Computing
- Arduino based Programming
- Block chain Technology
- Cyber security Essentials
- Machine Learning using Python

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Agenda 8.6: **Discussion on the new courses offered in the B.Tech (ECE) program and ratification of the same.**

Members of BOS noted the new courses offered in the B.Tech (ECE) program and ratified the same. Percentage of new courses introduced in the academic year 2021-2022 for B.Tech (ECE) is 20.65 %. The list of new courses is enclosed as Annexure-I.

Agenda 8.7: **Discussion on the percentage of the syllabus revision has done in the B.Tech(ECE) & M.Tech(VLSI Design) programs and ratification of the same.**

The syllabus revisions done in B.Tech(ECE) & M.Tech(VLSI Design) programs based on the Stakeholders feedback on curriculum. The BOS members have approved all the syllabus revisions in B.Tech(ECE) & M.Tech(VLSI Design) programs. The percentage of courses revised in the academic year 2021-2022 for the B.Tech (ECE) is 36.2% and M.Tech (VLSI Design) is 4.54%. The list of courses revised during the academic year 2021-2022 is enclosed as Annexure-II.

Agenda 8.8: **Discussion on the courses having focus on employability/ entrepreneurship/ skill development in the program of B.Tech(ECE) & M.Tech(VLSI Design) programs and ratification of the same.**

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

Agenda 8.9: **Discussion on the B.Tech (ECE) & M.Tech (VLSI Design) 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(ECE) & M.Tech(VLSI Design) programs.

Agenda 8.10: **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 sameand the Action Taken Report is enclosed as Annexure-III.

Agenda 8.11: **Analysis of Results of the odd semester of the academic year 2021-22.**

The BOS Chairperson presented the odd semesters pass percentage for the A. Y. 2021-2022. The BOS members noted the same.

Agenda 8.12: **Analysis of students feedback in the odd semester of the academic year 2021-22**

BOS Chairperson expressed that the student feedback in academic year 2021-2022for odd semester. The BOS members noted the same

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26
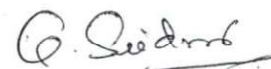
Agenda 8.13: **Any other items with the approval of Chairperson**
More emphasis should be given on laboratories with design oriented experiments.

Agenda 8.14: **Scheduling of next Board of Studies meeting.**
The next BOS meeting is tentatively scheduled in the month of December 2022.

Agenda 8.15: **Vote of Thanks**
Dr. G.Sridevi, BOS Chairperson presented the Vote of thanks.

BOS Chairperson

Head of the Department
Department of E.C.E.
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27

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Department of Electronics and Communication Engineering

Annexure-I

List of New Courses in the Academic Year 2021-2022

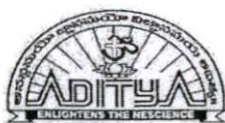| S. No	Program	Semester	Course Code	Course Name
1	B. Tech (ECE)	V	191PR5P02	Socially Relevant Project
2	B. Tech (ECE)	III	201EC3L02	Signals and Systems Lab
3	B. Tech (ECE)	III	201SO3L04	Skill Oriented Course I: Python Programming
4	B. Tech (ECE)	IV	201SC4L16	Skill Oriented Course-II: a) PCB Designing
5	B. Tech (ECE)	IV	201SC4L17	Skill Oriented Course-II: b) Applications of Python Programming
6	B. Tech (ECE)	V	191EC5E02	Digital System Design-I
7	B. Tech (ECE)	V	191EC5E03	Electromagnetic Interference & Compatibility
8	B. Tech (ECE)	V	191EC5E04	Python Programming
9	B. Tech (ECE)	V	191EC5O01	Signals & Systems
10	B. Tech (ECE)	V	191EC5O02	Digital Electronics and Logic Design
11	B. Tech (ECE)	V	191EC5O03	Semi conductor devices
12	B. Tech (ECE)	VI	191EC6E05	Digital System Design-II
13	B. Tech (ECE)	VI	191EC6E08	Soft Computing Techniques
14	B. Tech (ECE)	VI	191EC6E10	Embedded C
15	B. Tech (ECE)	VI	191EC6E09	Design for Testability
16	B. Tech (ECE)	VI	191EC6E12	Signal Transform Techniques
17	B. Tech (ECE)	VI	191EC6O04	Biomedical Instrumentation
18	B. Tech (ECE)	VI	191EC6O05	ECAD Tools
19	B. Tech (ECE)	VI	191EC6L07	Internet of Things Lab

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BOS Chairperson
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Department of Electronics and Communications Engineering

Annexure-II

List of Courses Revised in the Academic Year 2021-2022

S. No	Program	Semester	Course Code	Course Name
1	B. Tech (ECE)	V	191EC5E01	Computer System Architecture
2	B. Tech (ECE)	V	191EC5L05	Integrated circuits and applications lab
3	B. Tech (ECE)	VI	191EC6T13	VLSI Design
4	B. Tech (ECE)	VI	191EC6E07	Information Theory and Coding
5	B. Tech (ECE)	VI	191EC6L08	VLSI Lab
6	M. Tech (VLSID)	I	192VD1E03	MEMS Technology
7	M. Tech (VLSID)	I	192VD1E06	Photonics
8	M. Tech (VLSID)	II	192VD2E08	IoT & Its Applications

BOS Chairperson

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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	8.10	Institution and Industry interaction is needed for the students.	Institute has signed MOUs 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.
2	8.10	Include cutting technologies in the syllabus	In the revised Syllabus, Open Elective I, II, III & IV are introduced and all the emerging technologies are included in these courses.
3	8.10	Include a greater number of courses related to IT.	Web Technologies, Cyber Security, Operating Systems are in electives, can be opted by students who are interested in IT sector as their career.
4	8.10	Differential equations and linear algebra, Applied Physics courses are included in I^{ST} semester. It will be a difficult task for fresh engineering graduate to handle two mathematical background courses in the very first semester. This may be taken care of to reduce the burden over an average performing students.	Applied Physics course in the first semester is substituted with the course Engineering chemistry and Applied Physics is included in the second semester.
5	8.10	Environmental Science and Constitution of India are included in the same semester which is non-technical courses. Please substitute one of the courses with a technical course.	The course Engineering Graphics and Design is included in the first semester and Constitution of India is included in the second semester.

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6	8.10	A course should be included in the curriculum which provides a proper guideline for project work.	Engineering exploration project appears in the II semester to provide an insight to how to carry out an effective project work by students.
7	8.10	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.
8	8.10	workshops and FDPs which focuses on outcome-based education should be organized.	Recommendation will be taken forward to the concerned body.
9	8.10	It was observed that quiet number of students are showing interest towards animation and VFX technologies. Proper guidance may be suggestable.	3D PRINTING course is included in the syllabus offering as elective. Students who are interested can opt for the course.
10	8.12	It will be helpful to the students if 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.	Integrated circuits and applications course is included in the curriculum in the IV semester which is one of the core subjects of electronics and communication engineering course.
11	8.12	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, Python programming, PCB design, Applications of Python Programming are introduced in the III and IV semesters to have an exposure on cutting edge technologies.
12	8.12	In Network Analysis course, filters topic which cannot be handled by a student in the early semesters. It should be excluded from the course.	Filters topic is excluded from Network Analysis as it appears in the other courses in the up-coming semesters.
13	8.10	Students will benefit from Industry institute interaction if facilitated.	Institute has signed MOUs with renowned industries to cater the students to aware of real time applications and recent trends in Industries.
14		ASIC & FPGA design methodologies, HVL: System Verilog, SVA, Verification Planning and Management, Code and Functional Coverage, Perl	This suggestion will be taken forward to the concerned desk for necessary action to be taken.

	8.10	scripting language and VIP coding style are advanced courses. One can easily enter into the VLSI industry with the skill sets that are gained through these courses.	
15	8.10	Encourage students to be a part of real time and live projects.	This suggestion will be taken forward to the concerned desk for necessary action to be taken.
16	8.10	Physical Design courses emphasizes on issues faced in industry level and how to resolve those issues. courses also focus on other aspects of VLSI back-end flow including Synthesis, IR drop analysis and Physical verification. Courses also will provide students with entire back-end flow, making sure that students fit in to various job requirements. Facilitate courses related to this.	This suggestion will be taken forward to the concerned desk for necessary action to be taken.
17	8.10	Students should be encouraged in taking active part in research and development.	This suggestion will be taken forward to the concerned desk for necessary action to be taken in such a way that the students can be involved in research activities.
18	8.12	Job oriented and skill-oriented courses related to the domain, if included in the curriculum will help students to a great extent.	This suggestion will be discussed in the BOS meeting and changes will be brought in the curriculum with proper approval.
19	8.12	The dynamic curriculum of Advance VLSI Design and Verification course fits perfectly with the career aim of fresh engineering graduates and helps them to 'future-proof' themselves and remain relevant for the rapidly evolving Semiconductor technology space. Include such courses in the curriculum.	This suggestion will be discussed in the BOS meeting and changes will be brought in the curriculum with proper approval.

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BOS Chairperson
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Department of Computer Science and Engineering

Date: 30-04-2022

Minutes of the VIII meeting of BoS scheduled on 27-04-2022

The VIII meeting of the BoS of CSE was held on 27-04-2022 at 10.00 AM at Ajivika Conference Hall. Prof A. Vanathi, Chairperson presided over the meeting.

Agenda 8.1: Welcome address by Chairperson.

Prof. A. Vanathi, BoS Chairperson invited the distinguished members of BoS to the VIII BoS Meeting.

Agenda 8.2: 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 01/10/2021.

Agenda 8.3: Discussion on proposed AR20 B. Tech (CSE) Program –V, VI ,VII& VIII

semesters syllabus and ratification of the same.

The BoS members approved the AR 20 B. Tech (CSE) V, VI, VII and VIII semesters syllabus after making the following changes in the proposed syllabi.

- Suggested to include modify the reference links.
- Suggested to add some programs to DAA course and to include a reference book by Skeina.
- Suggested to add the weblink for DMDW course
- Suggested to add Functional programming and knowledge graph and to remove old topics expert systems
- Suggested
- Suggested to include Textbook written by Dr. N.B. Venkateshwarlu
- Suggested to add specific weblinks for the Skill oriented course and also share the syllabus of Robotic Process Automation course to ratify.
- Suggested to add the weblink of Mitesh Khapra, IIT Madras Machine Learning
- Suggested to swap Text book 1 with Text book 2 for the course Distributed Systems.
- Suggested to include weblink of NPTEL for the course Cyber Security
- Dr. M. N. Murthy, shared a material offered by Stanford university, suggested to utilize that for the course Social Networks and Semantic Web.

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33

- Suggested to include a textbook "Neural Networks and Deep Learning" by Charu C. Agarwal.

Agenda 8.4: Discussion on proposed syllabus for courses in V to VII Semester under Honors and Minor Degree and ratification of the same.

BoS members ratified the syllabus of Honor Degree. For Minor Degree, the members of BoS suggested to change the title of courses offered.

Agenda 8.5: Discussion on the value-added courses offered for students and ratification of the same.

- BoS members approved the list of value-added courses offered to students.
- BoS members suggested to add courses based on Hardware and Networking, which benefits the students who are not good at coding.

Agenda 8.6: Discussion on the new courses offered in all the programs and ratification of the same.

Members of BOS noted the new courses offered in the B. Tech (CSE) & M. Tech (CSE) programs and ratified the same. The percentage of new courses introduced during the academic year 2021-22 for B.Tech (CSE) is 16.56 %. The list of new courses is enclosed as Annexure-I.

Agenda 8.7: Discussion on the percentage of syllabus revision done in B. Tech (CSE) and M. Tech (CSE) program and ratification of the same.

The syllabus revision was done in B. Tech (CSE) & M. Tech (CSE) program based on the stakeholders feedback on Curriculum. The BoS members have approved and ratified all the syllabus revisions in B. Tech (CSE) & M. Tech (CSE). The percentage of courses revised in this academic year 2021-22 for B. Tech (CSE) is 44.37 % and M. Tech (CSE) is 4.61 %. The list of courses revised is enclosed as Annexure-II.

Agenda 8.8: Discussion on the courses having focus on Employability / Entrepreneurship / Skill development in B. Tech (CSE) & M. Tech (CSE) programs and ratification of the same.

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

Agenda 8.9: Discussion on all the 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.

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Agenda 8.10: Analysis of Stakeholders feedback on Curriculum.

The BoS Chairperson presented the analysis of Feedback on Curriculum which is taken from the various Stakeholders. The Action Taken Report is enclosed as Annexure-III.

Agenda 8.11: Analysis of Results of the Odd semester of the academic year 2021-22.

- The BoS Chairperson presented the odd semester pass percentage for the A.Y.2021-2022. The BoS members noted the same and appreciated the faculty members.

- BoS members suggested to present the students results in grade wise and subject wise. And also, to present the number of students who cleared all the subjects at the first attempt.

Agenda 8.12: Analysis of Students Feedback in the Odd semester of the academic year 2021-22.

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

- BoS members suggested to present the feedback with the student's remarks.

Agenda 8.13: Any other item with the approval of Chairman.

- Suggested to conduct Alumni meet frequently. And suggested to form a mentor group of Alumni students of different domains and to make them to guide the students on different technologies.

- Suggested to concentrate on CO-PO mapping for all courses.

- Suggested to include text book of new editions for all the courses.

Agenda 8.14: Scheduling of next Board of Studies meeting.

- The next BoS meeting is tentatively scheduled in the month of September 2022.

Agenda 8.15: Vote of Thanks

Prof. A. Vanathi, BoS Chairperson presented the Vote of thanks.

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Annexure-I

List of New Courses in the Academic Year 2021-22

S. No	Program	Semester	Course Code	Course Name
1	B. Tech (CSE)	III	201CS3T02	Object Oriented Programming through C++
2	B. Tech (CSE)	III	201CS3L01	Object Oriented Programming through C++ Lab
3	B. Tech (CSE)	III	201CS3L03	Unix and Shell Programming Lab
4	B. Tech (CSE)	III	201SC3L05	Applications of python-numpy
5	B. Tech (CSE)	III	201SC3L06	Web application development using full stack frontend development–module –I
6	B. Tech (CSE)	IV	201SC4L18	Applications of python-pandas
7	B. Tech (CSE)	IV	201SC4L19	Web Application development using full stack frontend development - Module-II
8	B. Tech (CSE)	IV	201CS4L05	Java Programming Lab
9	B. Tech (CSE)	IV	201CS4L06	R Programming Lab
10	B. Tech (CSE)	V	191CS5E04	Functional and Logic Programming
11	B. Tech (CSE)	V	191CS5E02	Artificial Intelligence
12	B. Tech (CSE)	V	191CS5E05	Software Requirement and Estimation
13	B. Tech (CSE)	V	191CE5O01	Basic Concrete Technology
14	B. Tech (CSE)	V	191EE5O01	Electrical Safety
15	B. Tech (CSE)	V	191EE5O02	Electrical Materials
16	B. Tech (CSE)	V	191EE5O03	Basic Electrical Measurements

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36

17	B. Tech (CSE)	V	191ME5O01	Renewable Energy Sources
18	B. Tech (CSE)	V	191ME5O02	Fundamentals of Mechanical Engineering
19	B. Tech (CSE)	V	191ME5O03	Supply Chain Management
20	B. Tech (CSE)	V	191ME5O04	3D Printing
21	B. Tech (CSE)	V	191ME5O05	Entrepreneurship Development and Incubation
22	B. Tech (CSE)	V	191EC5O01	Signals & Systems
23	B. Tech (CSE)	V	191EC5O02	Digital Electronics and Logic Design
24	B. Tech (CSE)	V	191EC5O03	Semi conductor devices
25	B. Tech (CSE)	V	191IT5O01	Data Base Management Systems
26	B. Tech (CSE)	V	191IT5O02	Computer Graphics
27	B. Tech (CSE)	V	191MI5O01	Overview of Mining
28	B. Tech (CSE)	V	191PT5O01	Process Intensification in Petroleum Industry
29	B. Tech (CSE)	V	191PT5O02	Fundamentals of Petroleum Industry
30	B. Tech (CSE)	V	191AG5O01	Basic Crop Production Practices
31	B. Tech (CSE)	V	191CS5L04	Operating Systems and Computer Networks Lab
32	B. Tech (CSE)	V	191PR5P02	Socially Relevant Project
33	B. Tech (CSE)	VI	191CS6T13	Object Oriented Analysis and Design
34	B. Tech (CSE)	VI	191CS6E09	Scripting languages
35	B. Tech (CSE)	VI	191CS6E06	Advance Operating Systems
36	B. Tech (CSE)	VI	191CS6E11	C# .Net
37	B. Tech (CSE)	VI	191CS6E13	Distributed Systems
38	B. Tech (CSE)	VI	191CS6E14	Natural Language Processing
39	B. Tech (CSE)	VI	191CE6O02	Disaster Management
40	B. Tech (CSE)	VI	191EE6O04	Energy Audit and Conservation Management
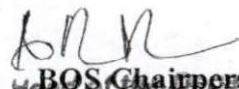
41	B. Tech (CSE)	VI	191EE6O05	Non Conventional Energy resources
42	B. Tech (CSE)	VI	191EE6O06	Instrumentation
43	B. Tech (CSE)	VI	191ME6O06	Solar Energy Utilisation
44	B. Tech (CSE)	VI	191ME6O07	Basic Thermodynamics and Heat Transfer
45	B. Tech (CSE)	VI	191ME6O08	Introduction to Hydraulics and Pneumatics
46	B. Tech (CSE)	VI	191ME6O09	3D Printing
47	B. Tech (CSE)	VI	191ME6O11	Robotics
48	B. Tech (CSE)	VI	191ME6O12	Management Science
49	B. Tech (CSE)	VI	191EC6O04	Entrepreneurship Development and Incubation
50	B. Tech (CSE)	VI	191EC6O05	Biomedical Instrumentation
51	B. Tech (CSE)	VI	191ME6O08	ECAD Tools
52	B. Tech (CSE)	VI	191IT6O03	Computer Organization
53	B. Tech (CSE)	VI	191IT6O04	AI Tools & Techniques
54	B. Tech (CSE)	VI	191IT6O05	Robotic Process Automation
55	B. Tech (CSE)	VI	191MI6O02	Industrial Safety Practices
56	B. Tech (CSE)	VI	191MI6O03	Electrical Equipment's in Mines
57	B. Tech (CSE)	VI	191PT6O03	Unconventional Hydrocarbon Resources
58	B. Tech (CSE)	VI	191PT6O04	Asset Management
59	B. Tech (CSE)	VI	191AG6O02	Weather forecast in Agriculture
60	B. Tech (CSE)	VI	191AG6O03	Bio-energy systems design and applications
61	B. Tech (CSE)	VI	191CS6L06	Data Mining and Object Oriented Analysis and Design Lab

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38

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Annexure-II

List of Courses Revised in the Academic Year 2021-22

S. No	Program	Semester	Course Code	Course Name
1	B. Tech (CSE)	III	201CS3T01	Advanced Data Structures
2	B. Tech (CSE)	III	201CS3T03	Operating Systems
3	B. Tech (CSE)	III	201CS3T04	Software Engineering
4	B. Tech (CSE)	VI	191CS6T14	Web Technologies
5	B. Tech (CSE)	VI	191CS6E10	Software Testing Methodologies
6	B. Tech (CSE)	VI	191CS6E07	Image Processing
7	M. Tech (CSE)	I	192CS1E02	Digital Image Processing
8	M. Tech (CSE)	II	192CS2E09	Soft Computing
9	M. Tech (CSE)	II	192CS2E11	Principles of computer security

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Annexure-III

Action Taken Report on Stakeholders Feedback in the Academic Year 2021-22

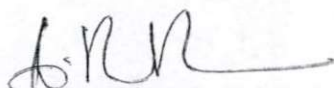| S. No	Agenda Item No.	Stakeholders Recommended	Action Taken
1	8.10	It is better to offer the data Structure and C++ courses separately.	As per the suggestions, the Object-Oriented Programming through C++ course is offered separately in the III semester of AR 20 curriculum.
		Apart from the regular academic curriculum, students should be exposed to latest technological trends.	Thrust areas courses are introduced in the Professional and Open Electives. The trainings on various domains of technical content are given to the students.
		Introduce Personality development courses.	Introduce Personality development courses in new syllabi.
2	8.10	Need to improve the aptitude skills and Technical skills like coding.	Encouragement is provided to improve aptitude skills by training programs and Active Learning Strategies to get clear knowledge of the various concept of coding
		Industrial Visits like ISRO, Power plant should be made as mandatory for the students.	Students are taken to Industrial visit and made them to get knowledge on Space research and Technical activities and assembling of rocket are displayed clearly.
		Conduct activities to enhance	Guest Lecture series and

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40

		teaching skills of students	national conferences, Celebration of national Science Day (NSD), National Mathematics Day (NMD) and National Statistics Day (NSD) Celebration are organized
3	8.10	Students need to be aware of patriotism, discipline and basic First aid tips for protecting themselves and also for societal benefits	Students are encouraged to do project on societal issues. Students are made to interact with Soldier persons regarding their duties and time management.
		Include more visual activities and role play activities to make students better understand	Special videos on specific topic are made by faculty and given to students for better understanding of concepts.
		Provide Workshop for exploration of various online teaching platform shall be arranged	Online workshop for the use of various online teaching platforms is organised.
4	8.12	To make students to face the corporate world with both technical and moral knowledge.	Extra classes on competitive exams like GATE and Higher education courses like Career guidance is provided for the students in a regular basis.
		Need to give training and hands-on Session on socially relevant projects	Made students to do socially relevant project and hands-on sessions on recent projects virtually.
		A System should be developed to appraise and track student progression	Online meet are arranged through Microsoft teams with all the students and their parents with the Vice-Chairman.
5	8.10	Suggestion to promote work environment for team work	Teachers encouraged students to work in team and positive results of working in a team are visible.

41

		Good Motivation for NET SET exam	NET/ SET /TET workshops have been arranged in the Department.
		Include Emerging technologies and subjects in the syllabus	Deep learning subject has been introduced as new course.
6	8.10	Involve alumni in BOS and take their suggestions to rewrite the curriculum.	Suggestions by the alumni were considered. Prestigious alumina was invited to give motivational talks to the students
		Any Activity organized should be beneficial for development of the individuals, but the students must organize more practical oriented event.	Certificate course in computerized activities using open-source software (Python)
7	8.10	Teachers should have the right to adopt innovative strategies of teaching	Teachers were encouraged to adopt more innovative techniques and strategies for teaching.
		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	8.12	Depth of the course content needs to be increased for achieving the expected Course Outcomes	Teachers made students familiar with ideas of POs and COs and their expected outcomes.
		Suggested to concentrate more on research activities	Research methodology workshop is organised.

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42

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Department of Information Technology

Date: 29-04-2022

VIII BOS Minutes of Meeting held on 27/04/2022

The 8th meeting of the BOS for IT was held on 27th April 2022 at 10.00AM, Ajivika Conference Hall, Bill Gates Bhavan. Mr. M. Raja Babu, Chairperson presided over the meeting.

Agenda 8.1: Welcome address by Chairperson.

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

Agenda 8.2: 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 01/10/2021.

Agenda 8.3: Discussion on proposed AR20 B.Tech (IT) Program –V,VI ,VII& VIII semesters syllabus and ratification of the same.

The BOS members approved the AR 20 B.Tech (IT) V,VI, VII and VIII semesters syllabus after making the following changes in the proposed syllabi.

• Suggested to include modify the reference links.

• Suggested to add some programs to DAA course and to include a reference book by Skeina.

• Suggested to add the weblink for DMDW course.

• Suggested to add Functional programming and knowledge graph and to remove old topics expert systems

• Suggested to include Textbook written by Dr. N.B. Venkateshwarlu

• Suggested to add specific weblinks for the Skill oriented course and also share the syllabus of Robotic Process Automation course to ratify.

• Suggested to add the weblink of Mitesh Khapra, IIT Madras Machine Learning

• Suggested to swap Text book 1 with Text book 2 for the course Distributed Systems.

• Suggested to include weblink of NPTEL for the course Cyber Security

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43

- Dr. M. N. Murthy, shared a material offered by Stanford university,
- Suggested to utilize that for the course Social Networks and Semantic Web.
- Suggested to include a textbook "Neural Networks and Deep Learning" by Charu C. Agarwal.

Agenda 8.4:Discussion on proposed syllabus for courses in V to VII Semester under Honours and Minor Degree and ratification of the same.

BoS members ratified the syllabus of Honor Degree. For Minor Degree, the members of BoS suggested to change the title of courses offered.

Agenda 8.5:Discussion on the value-added courses offered for students and ratification of the same.

- BoS members approved the list of value-added courses offered to students.
- BoS members suggested to add courses based on Hardware and Networking, which benefits the students who are not good at coding.

Agenda 8.6:Discussion on the new courses offered in B.Tech(IT) programme and ratification of the same

Members of BOS ratified the new courses offered in in B.Tech(IT) program. The percentage of new courses introduced in this academic year 2021-2022 for B.Tech (IT) is 14.19%.The list of new courses is enclosed as Annexure-I.

Agenda 8.7:Discussion on the percentage of syllabus revision done in the AR20 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 2021-2022 for B.Tech (IT) is 18.06%. The list of courses revised is enclosed as Annexure-II.

Agenda 8.8: Discussion on the courses having focus on employability/ entrepreneurship/ skill development in B.Tech (IT) program and ratification of the same.

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

Agenda 8.9: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 B.Tech (IT) program, in which Choice Based Credit System(CBCS)/elective course system is being implemented.

Agenda 8.10: Analysis of Feedback on Curriculum from Stake holders.

The BoS Chairperson presented the analysis of Feedback on Curriculum which is taken from the various Stakeholders. The BOS members noted the same. The Action Taken Report is enclosed as Annexure-III.

Agenda 8.11: Analysis of Results

The BoS Chairperson presented the odd semester pass percentage for the A.Y.2021-2022. The BoS members noted the same. BoS members suggested to present the students results in grade wise and subject wise and to present the number of students who cleared all the subjects at the first attempt.

Agenda 8.12: 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 8.13: Any other item with the approval of Chairman.

- Suggested to conduct Alumni meet frequently. And suggested to form a mentor group of Alumni students of different domains and to make them to guide the students on different technologies.
- Suggested to concentrate on CO-PO mapping for all courses.
- Suggested to include text book of new editions for all the courses.
- Suggested to form a ICC committee for curriculum suggestion and enhancement.

Agenda 8.14: Scheduling of next Board of Studies meeting.

The next BoS meeting is tentatively scheduled in the month of September 2022.

Agenda 8.15: Vote of Thanks

The Chairperson presented the Vote of Thanks.

BOS Chairperson

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Annexure I

List of New Courses in the Academic Year 2021-22

S. No	Program	Semester	Course Code	Course Name
1	B. Tech (IT)	III	201SO3L05	Skill Oriented Course-I 1. Applications Of Python NumPy
2	B. Tech (IT)	III	201CS3T02	Object-Oriented Programming Through C++
3	B. Tech (IT)	III	201CS3L03	Unix And Shell Programming Lab
4	B. Tech (IT)	III	201SO3L06	Web Application Development Using Full-Stack Frontend Development – Module –I
5	B. Tech (IT)	IV	201SC4L18	Skill Oriented Course II 1. Applications of Python- Pandas
6	B. Tech (IT)	IV	201SC4L19	2. Web Application Development Using Full-Stack Frontend Development Module-II)
7	B. Tech (IT)	IV	201CS4L05	Java Programming Lab
8	B. Tech (IT)	IV	201CS4L06	R Programming Lab
9	B. Tech (IT)	VI	191CS6T13	Object Oriented Analysis and Design
10	B. Tech (IT)	V	191CS5E04	Functional And Logic Programming
11	B. Tech (IT)	V	191CS5E02	Artificial Intelligence
12	B. Tech (IT)	V	191CS5E05	Software Requirement and Estimation
13	B. Tech (IT)	V	191CS5L04	Operating Systems and Computer Networks Lab

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46

14	B. Tech (IT)	V	191PR5P02	Socially Relevant Project
15	B. Tech (IT)	VI	191CS6L06	Data Mining and Object-Oriented Analysis and Design Lab
16	B. Tech (IT)	VI	191CS6E09	Scripting languages
17	B. Tech (IT)	VI	191CS6E06	Advanced Operating Systems
18	B. Tech (IT)	VI	191CS6E11	C# .Net
19	B. Tech (IT)	VI	191CS6E13	Distributed Systems
20	B. Tech (IT)	VI	191CS6E14	Natural Language Processing
21	B. Tech (IT)	VI	191IT6O04	AI Tools & Techniques
22	B. Tech (IT)	VI	191IT6O05	Robotic Process Automation

BOS Chairperson

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Annexure II

List of Courses Revised in the Academic Year 2021-22

S. No	Program	Semester	Course Code	Course Name
1	B. Tech (IT)	III	201CS3T01	Advanced-Data Structures
2	B. Tech (IT)	III	201CS3T03	Operating Systems
3	B. Tech (IT)	III	201CS3T04	Software Engineering
4	B. Tech (IT)	VI	191CS6T14	Web Technologies
5	B. Tech (IT)	VI	191CS6E10	Software Testing Methodologies
6	B. Tech (IT)	VI	191CS6E07	Image Processing

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Annexure III

Action Taken Report on Stakeholders Feedback in the Academic Year 2021-22

S. No	Agenda Item No.	Stakeholders Recommended	Action Taken
1	8.9	Suggested to include some professional Elective Courses that focus on Web Application Development.	Scripting Languages and .Net courses have been introduced.
2	8.9	Include Emerging technologies in the syllabus	As per suggestion, Open Elective II, Open Elective III, and Open Elective IV will be introduced and all the emerging technologies like Cybersecurity, AR/VR, Computer Vision, and Robotics are going to be included.
3	8.12 .	Suggested to add some general courses from other domains.	Courses like Electrical Safety, Electrical Materials, and Fundamentals of Mechanical Engineering will be introduced
4	8.3	Some courses should be introduced as skill-oriented courses in the early bird stage itself so that the student can focus on basics as well as the advancements made in that technology.	The course Applications of Python-NumPy and Web Application Development using Full Stack Front End Development Module-1 will be included in the 3rd semester and Applications of Python-Pandas and Web Application Development using Full Stack Front End Development Module-2 are going to be included in the 4th semester.

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49

5	8.12	Suggested to provide effective language training to be provided for interview purposes.	As suggested, the Formal Languages and Automata Theory course will be introduced.
6	8.8	Suggested to include a course which concentrates on Entrepreneurship Development	Courses like Entrepreneurship Development and Incubation will be included in the coming semesters.
7	8.12	Make the students work with the industry by including a course that either offers them an internship or job opportunity in the industry.	An internship course has been introduced.
8	8.12	Divide the project work into 2 semesters so that students focus on requirements elicitation and design in 1 semester and coding and testing in another semester.	Project Part1 and Project Part 2 courses are introduced.
9	8.3	Suggested to include courses on an electronic base for the projects .	Signals & Systems, Digital Electronics, and Logic Design and Semiconductor devices courses will be introduced.
10	8.3	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.	Operating Systems and Software Engineering are going to be included in the 3rd semester . and Database Management Systems and Database Management Systems Lab will be included in the 4th semester.
11	8.12	Make the Internship and Project Part available in different semesters	Taken into consideration and can be implemented in the next regulation.
12	8.3	Please include some trending tool courses for real-time practice	As per suggestion, AI Tools & Techniques and ECAD Tools will be introduced.

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Department of Petroleum Technology

Date: 02-05-2022

Minutes of the VIII meeting of BOS scheduled on 29-04-2022

The VIII meeting of the BOS (Board of Studies) of PT was held on 29-04-2022 at 10:00 AM in the Ajivika Conference Hall, Bill Gates Bhavan, AEC. Dr. R. Giri Prasad, chairperson presided over the meeting.

Agenda 8.1: Welcome address by Chairperson.

Dr. R. Giri Prasad, BOS chairperson invited the distinguished members of BOS to the VIII BOS Meeting.

Agenda 8 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 29/04/2022.

Agenda 8.3: Discussion on proposed AR 20 B. Tech Program – V, VI, VII & VIII Semesters Syllabus and ratification of the same

The BOS members approved the AR 20 B. Tech (PT) V, VI, VII & VIII Semesters syllabus after making the following changes in the proposed syllabi.

- Suggested to keep "IPC first order and second order systems
- Suggested to add "IPC text latest edition
- Suggested to replace "FIT, special drill fluids in drilling and well completions
- Suggested to replace well logging, mud logging and formation evaluation.
- Suggested to add liquefaction in unit 4 natural gas engineering.
- Suggested to replace "u-5 in reservoir engineering with immiscible displacement topics.
- Suggested to introduce reference text books for IPC labs.
- Suggested to add "developments of an LNG project in unit 1 in FLNG Elective subject, some new text books also referred.
- Suggested to add HSE FE unit 3 modifications and some reference text books suggested.
- Suggested to replace pipe line engineering as basic pipeline engineering.

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51

Agenda 8.4: Discussion on proposed syllabus for courses in V to VII Semester under AR20 Honors and Minor Degree and ratification of the same.

The BOS members approved the V, VI, VII &VIII Semester under AR20 Honors and Minor Degree syllabus after making the following changes in the proposed syllabi.

- Suggested to keep "fundamentals of petroleum industry as basic concepts in seismic methods for hydrocarbon exploration.
- Suggested to keep some topics in applied RE &M subject in unit 5 and some latest text are referred.
- Suggested to keep natural gas engineering as mass transfer operations
- Suggested to keep underground coal gasification in tight gas engineering.

Agenda 8.5: Discussion on the value-added courses to be offered for students and ratification of the same.

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

Agenda 8.6: Discussion on the new courses offered for B. Tech (PT) programs and ratification of the same.

The BOS members have ratified the new courses offered in B. Tech (PT) programs. The percentage of new courses introduced in the academic year 2021-2022 for B. Tech (PT) is 6.81 %.The list of new courses is enclosed as Annexure-I.

Agenda 8.7: Discussion on the percentage of syllabus revision done in the B. Tech (PT) program and ratification of the same.

The BOS members have ratified the B. Tech (PT) and M. Tech (PE) syllabus revision percentage. The percentage of courses revised in this academic year 2021-2022 for B. Tech (PT) is 38.93% and M. Tech (PE) is 3.07 %. The list of courses revised is enclosed as Annexure-II

Agenda 8.8: Discussion on the courses having focus on employability/entrepreneurship/skill development in B. Tech (PT) and M. Tech (PE) programs and ratification of the same.

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

Agenda 8.9: Discussion on all the 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) Choice Based Credit System (CBCS)/Elective course system.

Agenda 8.10: Analysis of Feedback on curriculum from stake holders

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 8.11: Analysis of results of the odd semesters of the academic year 2021-22

The BOS chairperson presented odd semester pass percentage for the A.Y.2021-2022.The BOS members noted the same and appreciated the faculty.

Agenda8.12: Analysis of student's feedback in the odd semesters of the academic year 2021-22

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

Agenda 8.13: Any other item with the approval of Chairman

NIL

Agenda 8.14: Scheduling of next Board of Studies meeting.

The next BOS meeting is tentatively scheduled in the month of September, 2022.

Agenda 8.15: Vote of Thanks

Dr. R. Giri Prasad, BOS chairperson presented the vote of thanks.

BOS Chairperson

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Annexure-I

List of New Courses in the Academic Year 2021-2022

S. No	Program	Semester	Course Code	Course Name
1.	B. Tech (PT)	III	201SC3L10	Industry Exploration Project
2.	B. Tech (PT)	V	191PR5P02	Socially Relevant Project
3.	B. Tech (PT)	V	191PT5E01	Natural Gas Engineering and Processing
4.	B. Tech (PT)	V	191PT5O02	Fundamentals of Petroleum Industry
5.	B. Tech (PT)	V	191PT6E05	Operational and Maintenance of Pipelines
6.	B. Tech (PT)	V	191PT7E09	Unconventional Hydrocarbon Resources
7.	B. Tech (PT)	V	191PT5O01	Process Intensification in Petroleum Industry
8.	B. Tech (PT)	VI	191PT6E07	Advanced Separation Techniques
9.	B. Tech (PT)	VI	191PT6O03	Unconventional Hydrocarbon Resources
10.	B. Tech (PT)	VI	191PT6O04	Asset Management

BOS Chairperson

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Annexure-II

List of Courses Revised in the Academic Year 2021-2022

S. No	Program	Semester	Course Code	Course Name
1.	B. Tech (PT)	V	191PT5T09	Well Logging and Mud Logging
2.	B. Tech (PT)	VI	191PT6E04	Fundamentals of Liquefied Natural gas
3.	M. Tech (PE)	I	192PE1E04	Advanced Well Logging Techniques and Well Testing Analysis
4.	M. Tech (PE)	II	192PE2E06	Advanced Well Completions

BOS Chairperson

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Annexure III

Action Taken Report on Stakeholders Feedback in the Academic Year 2021-2022

S. No	Agenda Item No.	Stakeholders Recommended	Action Taken
1.	8.4	Suggested to keep transferable and necessary skills with rising demand in all industries.	As suggested and discussion made with members pipeline project management course will be implemented.
2.	8.8	Capability to acquire and apply fundamental principles of engineering is needed.	As per suggestions Internship is made mandatory and thereby the students should take the industry training.
3.	8.8	Suggested to involve advanced topics, Engineers are looking nowadays in the curriculum.	According to the suggestions and discussions made it will be added to the curriculum.
4.	8.8	Capability to acquire and apply fundamental principles of engineering is needed.	As per suggestions Internship is made mandatory and thereby the students should take the industry training.
5.	8.12	Advancements in industries and job opportunities in the core must be known.	As per suggestion, seminars and workshops will be conducted.
6.	8.3	Due to tremendous response in the companies of software courses in the petroleum industry , it is better to get the basic knowledge on application	As suggested, Various modelling software's like CMG, MATLAB, ASPEN HYSIS etc will be included in the curriculum.
7.	8.4	Perception of the need for more topics to be included, as well as the general need for a few topics to be modified.	As per suggestions some topics introduced and removed in core subjects
8.	8.3	Every students to understand the basic principles of engineering and the introduction of biological concepts so that they can effectively interact to concern for providing solutions to the problems related to bio systems.	As suggested, biology for engineers will be introduced into the curriculum.
9.	8.3	It is better student have knowledge on the computer science related subjects during their graduation.	As per the suggestions and discussion made with the experts, BOS and Professionals, Honours and Minor degree programs will be introduced based on the students choice.
10.	8.8	Due to the tremendous growth in the IT industry it is better to get known to programming related subjects.	As per suggestions, SOC (Skill Oriented Course) will be introduced to the curriculum.

11.	8.3	A clear understanding on the material must be known to perform research.	As per suggestion received, introduction about exploration project will be introduced.
12.	8.12	It is better that students have knowledge on the cutting edge technologies.	According to the suggestion received, it will be introduced to the curriculum based on the discussions made.
13.	8.3	Better to perform real time applications for better employment.	As per suggestions it will be planned to discuss with the m .tech coordinator and project guides for the implementation of experimental and analytical projects.
14.	8.8	Due to the tremendous growth in the IT industry it is better to get known to programming related subjects.	As per suggestions, and discussions SOC (Skill Oriented Course) implemented
15.	8.4	Capability to acquire and apply fundamental principles of engineering is needed.	As per suggestions Internship is made mandatory and thereby the students should take the industry training for project.
16.	8.4	Due to tremendous response in the companies of software courses in the petroleum industry , it is better to get the basic knowledge on application.	As suggested, Various modelling software's like MATLAB already included in the curriculum.
17.	8.3	For better placement in the core companies problem solving skills and performance need to be enhanced.	As per feedback, AICTE and college will implement to get the access of PARAKH –SLAP to practise online exams for job.

BOS Chairperson

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57

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Department of Agricultural Engineering

Date: 03-05-2022

Minutes of the VIII meeting of BOS scheduled on 25-04-2022 and 30-04-2022

The VIII BOS meeting of Agricultural Engineering was virtually held in Microsoft Teams on 25-04-2022 and 30-04-2022 at 9.30 AM. **Dr. N.V. Gowtham Deekshithulu**, Chairperson presided over the meeting.

Agenda 8.1: Welcome address by chairperson BOS.

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

Agenda 8.2: Ratification of minutes of VII BOS meeting.

The BOS members accepted and ratified the minutes of VII BOS meeting unanimously.

Agenda 8.3.: Discussion on proposed AR20 B. Tech Program – V, VI, VII &VIII semesters syllabus and ratification of the same.

The BOS members approved the AR20 B.Tech. (Ag.E) V, VI, VII and VIII semesters syllabus after making the following changes in the proposed syllabi.

1. Suggested to change CO's, add topics on creep, epicyclic gear train, speed of governors, coefficient of fluctuation of speed and energy, design of flywheel and add textbook in Theory of Machines.

2. Suggested to add minor changes in COB's, CO's and add direct and indirect methods of stream flow measurements, Simple storm and complex storm and Unit hydrograph derivation in Watershed Hydrology.

3. Suggested to add Modified Penman Monteith Method in Evapotranspiration estimation methods, List of irrigation water control &diversion structures instead of irrigation structures and add new text books and remove topics of Lacey's and Kennedy's theory in design of irrigation canal capacity in Irrigation and Drainage Engineering.

4. Suggested to improve COB's, CO's and to add head loss calculation of the sprinkler and drip irrigation system topics in Sprinkler and Micro Irrigation Systems.

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58

5. Suggested to add mean areal rainfall measurement topic instead of rainfall measurement and shift exercise on unit hydrograph lab from augmented experiments to main list of experiments in Watershed Hydrology Lab.

6. Suggested to change CO5 in Irrigation and Drainage Engineering Lab.

7. Suggested a minor change in CO's and add term tillage implements instead of tillage implement, levelers instead of levelled, combine harvester instead of combine, types of threshers and losses and troubleshooting in Farm Machinery and Equipment.

8. Suggested to add splash erosion, roughness coefficient instead of roughness and add a book from reference books to textbooks in Soil and Water Conservation Engineering.

9. Suggested to add methods of drying topic in Post Harvest Engineering of Cereals, Pulses and Oil Seeds.

10. Suggested to add wider and narrow tools topic in Mechanics of Tillage and Traction.

11. Suggested to add a minor change in COB and add planning of warabandhi irrigation system, Water control and diversion structures topics in Management of Canal Irrigation System.

12. Suggested to change COB1 and CO1 and add CIP principals- techniques, FSSAI standards and regulations for dairy products topics in Dairy and Food Engineering.

13. Suggested to add Short-term harvesting techniques - contour bunds, semicircular hoop, trapezoidal bunds, graded bunds, rock catchment and ground catchment, Design of Gabion structures, drop inlet spillway- design criteria topics in Water Harvesting and Soil Conservation Structures.

14. Suggested to change Wastewater treatment and management course title as Agricultural Structures and Protected Cultivation.

15. Suggested to add combine harvester instead of combine and add experiment on land levelling using the laser guided land leveler in augmented experiments list in Farm Machinery and Equipment Lab.

16. Suggested to add visit to watershed project for studying erosion control and water conservation measures in list of experiments and move Study of rainfall simulator for erosion assessment to list of augmented experiments and add Field Manual on Watershed Management in Soil and Water Conversation Engineering Lab.

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17. Suggested to add experiment on determination of EMC of food grains in list of augmented experiments in Post Harvest Engineering of Cereals, Pulses and Oilseeds Lab.

18. Suggested to add watershed atlas, prioritization of watersheds topics in Watershed Planning and Management.

19. Suggested to add CO6 and add terms rice bran, commercial products of coconut, Cashew nut based products in Waste and By-Products Utilization.

20. Hydraulic Devices And Control.

21. Suggested to remove term civil engineering in Remote Sensing and GIS Applications.

22. Human Engineering And Safety

23. Suggested to change COB3 and add term materials instead of material and add text book on Building Material, Construction and Planning in Building Construction and Cost Estimation.

24. Suggested to add FSSAI standard codes for layout of Food Processing Plant Design and Layout.

25. Suggested to add shade nets topic in green house technology.

26. Suggested to add hydraulic hitch and ADDC topics in Hydraulic devices and control.

27. Suggested to change title as Introduction to Remote sensing and GIS, add important features of remote sensing satellites, vegetation indices, NDVI, identification of layers, application of RS and GIS in land and water use.

28. Suggested to align the concepts in continuity and change the title as Applications of RS and GIS in Land and Water Resources Management for GIS essentials in agriculture and its application.

Agenda 8.4: Discussion on proposed syllabus for courses in V to VII semesters under AR20 Honors and Minor Degree and ratification of the same.

The BOS members approved the AR20 B.Tech. (Ag.E) III and IV semesters syllabus program after making the following changes in the proposed AR20 B.Tech. (Ag.E) syllabi.

1. Suggested to add new textbooks and reference books in Integral Transforms and Applications of Partial Differential Equations.

2. Suggested to follow the fifth deans committee syllabus for all the courses.

3. Suggested to add Struts topic in Strength of Materials course.

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4. Suggested to add simulation topics and keep it as a complete unit in Computer Aided Manufacturing course.

5. Suggested to keep Entrepreneurship Development and Business Management course under HSS category.

6. Suggested to elaborate HACCP concept in skill oriented course in Food Quality and Control.

Agenda 8.5: Discussion on the value-added courses to be 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 8.6: Discussion on the new courses offered in the B.Tech. (Ag.E), program and ratification of the same.

The BOS members have discussed and approved the new courses introduced in all the B.Tech. (Ag.E), program. The percentage of new courses introduced in the academic year 2021-2022 for B. Tech (Ag.E) is 15.73%. The list of new courses is enclosed as Annexure I.

Agenda 8.7: Discussion on the percentage of the syllabus revision done in the B. Tech (Ag.E) program 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 2021-2022 for B. Tech (Ag.E) is 45.7%. The percentage of the courses revised is enclosed as Annexure II.

Agenda 8.8: Discussion on the courses having focus on employability/entrepreneurship/skill development in the B.Tech (Ag.E) program and ratification of the same.

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

Agenda 8.9: 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 members discussed and approved the choice-based credit system for all the B.Tech. (Ag.E), program.

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Agenda 8.10: Analysis of Feedback on Curriculum from Stakeholders.

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 8.11: Analysis of results

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

Agenda 8.12: Analysis of student's feedback

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

Agenda 8.13: Any other item/s with the approval of chairperson

Suggested to keep more basic professional core courses before starting of professional electives.

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

Agenda 8.14: Scheduling of next BOS meeting

After discussions with BOS members, the next BOS meeting will be planned in the month of March/April 2023.

Agenda 8.15: Vote of Thanks

Dr. N. V. Gowtham Deekshithulu, BOS chairperson presented the Vote of thanks.

N.V. God

BoS Chairperson
Head of the Department
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Annexure-I

List of New Courses in the Academic Year 2021-2022

| S. No	Program	Semester	Course Code	Course Name
1	B. Tech (Ag.E)	III	201AG3L03	Thermodynamics, Refrigeration and Air Conditioning Lab
2	B. Tech (Ag.E)	III	201SO3L10	1) Computer Aided Manufacturing
3	B. Tech (Ag.E)	III	201SO3L11	2) Computer Aided Design using SolidWorks
4	B. Tech (Ag.E)	IV	201ES4T21	Soil Mechanics
5	B. Tech (Ag.E)	IV	201HS4T07	Entrepreneurship Development and Business Management
6	B. Tech (Ag.E)	IV	201SC4L22	1) Analysis/Simulation using MATLAB
7	B. Tech (Ag.E)	IV	201SC4L23	2) Food Quality and Control
8	B. Tech (Ag.E)	V	191AG5O01	Basic Crop Production Practices
9	B. Tech (Ag.E)	V	191AG5L07	Soil Mechanics Lab
10	B. Tech (Ag.E)	V	191AG5L08	Theory and Design of Agricultural Machine LAB
11	B. Tech (Ag.E)	V	191PR5P02	Socially Relevant Project
12	B. Tech (Ag.E)	VI	191AG6O02	Weather Forecast in Agriculture
13	B. Tech (Ag.E)	VI	191AG6O03	Bio-Energy Systems Design and Applications
14	B. Tech (Ag.E)	VI	191AG6L10	Irrigation and Drainage Engineering LAB

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N.V. Goel
BoS Chairperson
Head of the Department
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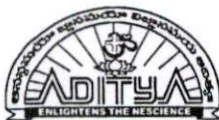
Annexure-II

List of Revised Courses in the Academic Year 2021-2022

S. No	Program	Semester	Course Code	Course Name
1	B. Tech (Ag.E)	III	201AG3T03	Thermodynamics, Refrigeration and Air Conditioning
2	B. Tech (Ag.E)	IV	201AG4T06	Tractor Systems and Controls
3	B. Tech (Ag.E)	IV	201AG4L04	Tractor Systems and Controls Lab
4	B. Tech (Ag.E)	V	191AG5T10	Theory and Design of Agricultural Machinery
5	B. Tech (Ag.E)	V	191AG5T11	Agricultural Process Engineering and Food Quality
6	B. Tech (Ag.E)	V	191AG5E01	Engineering Properties of Biological Materials
7	B. Tech (Ag.E)	VI	191AG6T14	Agricultural Machinery and Equipment
8	B. Tech (Ag.E)	VI	191AG6E07	Design of Agricultural Machinery
9	B. Tech (Ag.E)	VI	191AG6L11	Agricultural Machinery and Equipment Lab

N.V. God
BoS Chairperson
Head of the Department
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Department of Agricultural Engineering

Annexure-III

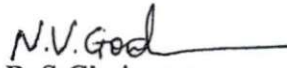### Action Taken Report on Stakeholders Feedback in the Academic Year 2021-2022

S. No	Agenda Item No.	Stakeholders Recommended	Action Taken
1	8.10	Suggested to include more Skill Oriented Courses for better employability.	As per suggestions, Skill Oriented Courses will be included in course curriculum.
2	8.3	Suggested to add Modified Penman Monteith Method in Evapotranspiration estimation methods in Irrigation and Drainage Engineering.	As per suggestions, ·Modified Penman Monteith Method in Evapotranspiration estimation methods will be included in Irrigation and Drainage Engineering.
3		Suggested to add FSSAI standard codes for layout of Food Processing Plant in Food Processing Plant Design and Layout.	As per suggestions, FSSAI standard codes for layout of Food Processing Plant in Food Processing Plant Design and Layout.
4	8.10	More exposure to field visits to gain practical knowledge.	As per suggestions, more field visits will be conducted in coming semesters.
5	8.3	Suggested to add FSSAI standards and regulations for dairy products topics in Dairy and Food Engineering.	As per suggestions, FSSAI standards and regulations for dairy products topics will be included in Dairy and Food Engineering.
6	8.10	Suggested to bring more core companies for Internships and placements.	As per suggestions, necessary steps will be taken.
7	8.3	Suggested to add head loss calculation of the sprinkler and drip irrigation system topics in Sprinkler and Micro Irrigation Systems.	As per suggestions, head loss calculation of the sprinkler and drip irrigation system topics will be included in Sprinkler and Micro Irrigation Systems.
8	8.10	For better understanding of Thermodynamics, Refrigeration and Air Conditioning subject, practical knowledge is required.	As per suggestions, Thermodynamics, Refrigeration and Air Conditioning Lab will be included in course curriculum.

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65

9	8.3	Suggested to add direct and indirect methods of stream flow measurements, Simple storm and complex storm and Unit hydrograph derivation in Watershed Hydrology.	As per suggestions, mentioned topics will be included in Watershed Hydrology.
10		Suggested to modify some topics in Irrigation and Drainage Engineering.	As per suggestions, modifications will be included in course curriculum.
11	8.12	Suggested free access to online journals	As per suggestions and discussions made, 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.
12		Suggested to arrange some guest lectures with industry experts.	As per suggestions, guest lectures will be included in coming semesters.

N.V. God
BoS Chairperson
Head of the Department
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66

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Department of Mining Engineering

Dt-26/04/2022

Minutes of VIII BoS meeting conducted on 23.04.2022

The VIII meeting of the Board of Studies of Mining Engineering Department was held on 23-04-2022 at 10.00 AM through Microsoft Team. Mr. Satyajeet Parida, Chairperson presided over the meeting.

Agenda 8.1: Welcome address by Chairperson- BoS

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

Agenda 8.2: Ratification of the minutes of VII BoS meeting

The BoS members have ratified the points discussed in the previous BoS meeting held on 06-10-2021 and 07-10-2021.

Agenda 8.3: Discussion on proposed AR20 B.Tech. Program - V, VI, VII & VIII semesters syllabus and ratification of the same.

The BOS members approved the AR20 B.Tech. Program - V, VI, VII & VIII semesters syllabus after making the following changes, and some minor rectifications as listed.

1. Case Studies in mine system engineering
2. Mine illumination in mine ventilation
3. Minor changes in PE-1, EIA
4. Contribution of greenhouse gases to be included in Environmental management
5. Environmental audit is suggested to be included in EIA
6. The unit V of EIA was changed to Environmental performance assessment
7. Unit names for POUCMP were added as Planning objectives, Exploitation & Mechanization, Production, Transport & Automation, Planning of thick seam mining and Project planning
8. Land acquisition & Revenue was suggested to be included in ML&GS
9. Suggested to include mine fan characteristics in Mine Ventilation & Environment Lab
10. Suggested to keep at most 10 -11 experiments
11. Unit III in MPT has shifted to Unit II, Unit II shifted to Unit I, part of Unit IV is removed and added in Unit II
12. Suggested to include man riding system in Unit II of Mine Machinery,
13. Suggested to add Land acquisition & revenue, related laws and regulations in Unit V of ML&GS
14. Suggested to remove Safety & mines legislation in Unit I of ML&GS

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67

15. Suggested to include Accident enquiry report in Unit II of MHSE and removed the prevention in surface & underground mines

16. Suggested to change Unit III heading as Hazard identification & analysis in MHSE

17. Suggested to change headings of Unit IV & V as Behavioral based safety, Safety management and audit and added innovations in mine safety engineering in Unit V

18. Suggested to keep headings as, Design of stoping operations, Equipment & Support systems, Transport & Backfilling, Case studies, Basic considerations for the Units II, III, IV, V & I, removed grade control in Unit III and added in Unit I, also planning of stoping methods in Unit I of PUMMP.

19. Suggested to include Bio fuels in Unit V from Unit I in Green Mining

20. In RFE, removed the portion of types of explosives & accessories in Unit IV and suggested the headings as Blasting design, Blasting monitoring & control for IV & V Units.

21. In MPT Lab, John riffle method is removed in experiment I, kept Proximate analysis of coal in experiment VII, and small changes in II, III, IV, V and VIII experiments

22. In Environmental Engineering Lab, added DO & BOD of water sample and PH content & conductivity of water sample in exp I & II, acidity & alkalinity, determination of ambient air quality using respirable dust samples, application of sensor for air quality measurement, determination of organic matter content of soil, soil resistivity, noise quality assessment using sound level meter, determination of soil texture in list of experiments and determination of sulphate content Na, K, Ca, ions using flame photo meter, determination of hardness of water in augmented experiments.

23. In PSMP, suggested all Units headings as Preliminary Investigations, Production planning & scheduling, Transport & Material handling, Design of slopes, Other Mining Techniques.

24. Headings of units are changed as Introduction, Profile of the sea, Marine deposit, Offshore exploration, Legal aspects of ocean floor mining in Deep Sea Mining.

25. Unit II heading is changed as Properties of Rocks in REE.

26. In Safety practices in mines, included accident analysis, Henrich & Pearson triangle for mine accidents, rescue apparatus and Safety appliances w.r.t mine gasses in Unit III & IV.

27. Suggested the headings as Mechanism of slope failure, monitoring & analysis, Parameters affecting slope stability and included Static & dynamic loading in Unit III, Biological & Engineering Techniques in Unit V, Software's for slope stability analysis in Unit IV for Rock Slope Technology.

28. Identification of safety issues in different industries, changed the term technological to engineering in Unit IV, headings as Concept of mine closure, mine closure planning, implementation of mine planning, mine reclamation challenges, risk of mine closure planning, Financial Provisions for all the units and included mine closure funding sources, Escrow account, penalties, cost of mine closure & reclamation in Unit V of MC& R.

29. In Unit IV & V, removed design of open pit slopes, waste dumps and included Factor of safety, Design & stability, subsidence damage and prevention.

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68

30. Suggested mine design software heading for Unit V for Software's in mine planning and blasting
31. Suggested to add Planning & Designing of Surface Mining Project in Minor & Honors degree courses.

Agenda 8.4: Discussion on proposed syllabus for courses in V to VII Semester under AR20 honours and Minor Degree and ratification of the same.

The BoS members have discussed and approved the courses in V to VII Semester under AR20 honours and Minor Degree.

Agenda 8.5: Discussion on the value-added courses to be 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 8.6: Discussion on the new courses offered in B. Tech. (Min.E), programme and ratification of the same.

The BoS members have discussed and approved the new courses introduced in B. Tech. (Min.E), programmes. The Percentage of new courses introduced in the academic year 2021-2022 for B.Tech (Min.E) is 7.69%. The list of new courses is enclosed as Annexure-I.

Agenda 8.7: Discussion on the percentage of syllabus revision done in B.Tech.(Min.E) programme and ratification of the same.

The BoS Members approved the change in of syllabus revision done in the AR20 B.Tech. (Min.E) program. The percentage of courses revised in the academic year 2021-2022 for B.Tech (Min. E) is 41.79%. The list of courses revised is enclosed as Annexure-II.

Agenda 8.8: Discussion on the courses having focus on employability/entrepreneurship/skill development in B.tech (Min.E) programs and ratification of the same.

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

Agenda 8.9: Discussion on B.Tech. (Min.E), programme 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 B.Tech. (Min.E), programme.

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Agenda 8.10: Analysis of Feedback on Curriculum from Stakeholders

The BoS chairperson expressed the process of collecting feedback from the stake holders, the BoS members reviewed and discussed regarding that. 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 8.11: Analysis of Results of the odd semester of the academic year 2021-22.

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

Agenda 8.12: Analysis of student's feedback in the odd semester of the A.Y 2021-22.

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 the odd semester.

Agenda 8.13: Any other item/s

BoS members suggested to extend the period of internships for the students and encourage the students to pursue software applications.

Agenda 8.14: Scheduling of the next BoS meeting.

The next BoS meeting is tentatively scheduled in the month of June 2023.

Agenda 8.15: Vote of Thanks

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

BoS Chairperson

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70

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Department of Mining Engineering

Annexure-I

List of New Courses in the Academic Year 2021-2022

S. No	Program	Semester	Course Code	Course Name
1	B. Tech (Min.E)	IV	201SC4L20	Skill Oriented Course-II Data Analytics for Mining using Python
2	B. Tech (Min.E)	V	191PR5P02	Socially Relevant Project
3	B. Tech (Min.E)	V	191MI5E04	Sustainable Mining
4	B. Tech (Min.E)	V	191MI5O01	Overview of Mining
5	B. Tech (Min.E)	VI	191MI6T15	Environmental Management in Mines
6	B. Tech (Min.E)	VI	191MI6E05	Green Mining
7	B. Tech (Min.E)	VI	191MI6O03	Electrical equipment's in Mine

BoS Chairperson

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Annexure-II

List of Courses Revised in the Academic Year 2021-2022

S. No	Program	Semester	Course Code	Course Name
1	B. Tech (Min.E)	III	201SO3L09	Geo-Statistics through SURPAC
2	B. Tech (Min.E)	VI	191MI6T13	Mineral Processing Technology
3	B. Tech (Min.E)	VI	191MI6E12	Rock Excavation Engineering
4	B. Tech (Min.E)	VI	191MI6L06	Mineral Processing Lab

BoS Chairperson

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Department of Mining Engineering

Annexure III

Action Taken Report on Stakeholders Feedback in the Academic Year 2021-2022

S. No	Agenda Item No.	Stakeholders Recommended	Action Taken
1	8.10	The courses which provide different information about various electrical equipment should be included in the curriculum	The subject which gives relative knowledge about electrical equipment in the mines were included in the curriculum they were as follows • Electrical equipment's in Mine
2	8.3	The sustainability and environment friendly mining activity should be followed in the upcoming days. Students should give importance towards it.	To make student aware of sustainability and environment friendly mining activity some courses added to the curriculum they are: ✓ Green Mining ✓ Environmental Management in Mines
3	8.10	Mining students should have good knowledge in the planning of underground and surface mines	For the planning of different underground and surface mines various related courses has been included in the syllabus they are: ✓ Planning of UGMM Project ✓ Planning of UGCM Project ✓ Planning of Surface Mining Project
4	8.10	Students should participate in social relevant project which develops their internal and external personality.	The socially involved project course was included in the curriculum ✓ Socially Relevant Project

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73

		Include various case studies in the core mining subject for the better understanding of the same course	As per the recommendation few case studies are included in different core mining subjects they are:
5	8.10		 • Mine hazards and rescue • Strata mechanics • Mine Closure & Reclamation
6	8.3	The new innovation, areas and new technology are upcoming in the mining field include those things in the Curriculum.	One new subject has been introduced which is completely in the different are i.e Space mining technology. The old syllabus of Deep Sea Mining and its contents heading is being changed
7		Subject that creates job opportunities Should be included in curriculum and students should be aware of the subject importance.	The subject which creates job opportunities are included in the syllabus they are as follows: • Geo-statistics through Surpac • Data analytics for Mining Using Python
8	8.10	Students should be aware of latest software used in mining that helps in mining industry	The subject which are related to mining and are application of software in it has been included in the curriculum are as follows: • Computer Aided Mine planning • Geo spatial Imaging and geo informatics
9		Students should be aware of different environment impact created by mining activities.	For making aware students the harmful effect of different mining activities and its effect on environment the following course included in the curriculum. ✓ Environmental Impact Assessment
10	8.12	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	8.12	Alumni and industry person should visit the campus. So that industry condition should be understood properly	We have already arranged student alumni meeting and it will be held soon. Due to corona industry persons were refrain themselves to visit the campus but they were available in online mode and the instruction is passed to the Hods of the respective department to arrange the interaction as soon as possible.
12		Different MoU should be signed with different industries so that student can be benefited out of it.	Already our department has signed MoU with different educational institutes also we are planning to do MoU with few industries which will happen in the upcoming years.

BoS Chairperson

Head of the Department
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Department of Master of Computer Applications

Date:5/5/2022

Minutes of the 8th Meeting of BOS Scheduled on 27/04/2022

The VII meeting of the BOS of Master of Computer Applications Department was held on 27-10-2021 at 09.30 AM.

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

Agenda 8.1: Welcome address by Chairperson.

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

Agenda 8.2: 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 01/10/2021.

Agenda 8.3: Discussion on the value-added courses offered for students and ratification of the same.

- BoS members approved the list of value-added courses offered to students.
- BoS members suggested to add courses based on Hardware and Networking, which benefits the students who are not good at coding.

Agenda 8.4: Discussion on the courses having focus on employability / entrepreneurship / skill development in MCA program and ratification of the same.

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

Agenda 8.5: Discussion on the new courses offered in MCA Programme and ratification of the same

Members of BOS ratified the new courses offered in in MCA programme. The Percentage of new courses introduced during in the academic year 2021-2022 for MCA is 63.33%. The list of new courses is enclosed as Annexure-I.

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76

Agenda 8.6: 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 MCA program, in which Choice Based Credit System (CBCS) / elective course system is being implemented.

Agenda 8.7: Analysis of Feedback on Curriculum from Stake holders.

The BoS Chairperson presented the analysis of Feedback on Curriculum which is taken from the various Stakeholders.

Agenda 8.8: Analysis of Results of the Odd semester of the academic year 2021-22.

- Members of BOS noted the result analysis presented by the Chairperson for the A.Y.2019-20 and ratified the same.
- BoS members suggested to present the students results in grade wise and subject wise. And also, to present the number of students who cleared all the subjects at the first attempt.

Agenda 8.9: Analysis of Students Feedback in the Odd semester of the academic year 2021-22.

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 8.10: 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 the action taken report is enclosed in Annexure II.

Agenda 8.11: Any other item with the approval of Chairman.

- Suggested to conduct Alumni meet frequently. And suggested to form a mentor group of Alumni students of different domains and to make them to guide the students on different technologies.

- Suggested to concentrate on CO-PO mapping for all courses.

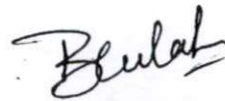- Suggested to include textbook of new editions for all the courses.

Agenda 8.12: Scheduling of next Board of Studies meeting.

The next BoS meeting is tentatively scheduled in the month of September 2022.

Agenda 8.13: Vote of Thanks

The Chairperson presented the Vote of Thanks.

Beulah

BOS Chairperson

Head of the Department
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Department of Master of Computer Applications

Annexure-I

List of New Courses in the Academic Year 2021-2022

S. No	Program	Semester	Course Code	Course Name
1	MCA	III	203MC3L08	IoT Lab
2	MCA	III	203MC3P02	Internship/Industry Oriented Mini Project/Skill Development
3	MCA	III	203MC3E06	Soft Computing
4	MCA	IV	203MC4E13	Deep Learning
5	MCA	IV	203MC4E16	Block Chain technologies
6	MCA	V	193MC5T20	Big Data Analytics
7	MCA	V	193MC5T21	Machine Learning
8	MCA	V	193MC5E07	Digital Marketing
9	MCA	V	193MC5E08	Natural Language Processing
10	MCA	V	193MC5E11	DevOps
11	MCA	V	193MC5L15	Machine Learning with Python Lab

BOS Chairperson
Head of the Department
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79

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Annexure-II

Action Taken Report on Stakeholders Feedback in the Academic Year 2021-2022

S. No	Agenda Item No.	Stakeholders Recommended	Action Taken
1	8.4	Design the syllabus for Machine Learning with Python, Internet of Things, Web Technologies, Cloud Computing, Deep Learning, and Block Chain technologies as per industry requirements.	As per the suggestion given by the employer Machine Learning with Python, Internet of Things, Web Technologies, Cloud Computing subjects are included in the 3rd semester and Deep Learning, Block Chain technologies, will be included in the 4th-semester syllabus was revised and prepared as per industry standards.
2	8.4	Suggested to improve the skill for employability in the new technologies	Advised to take up online certifications in the recent technologies.
3	8.4	Experience on finding solutions for challenging issues in global industrial market.	Implement innovative ideas in enhancing the programming skill and developing good projects by participating in HACKATHON events
4	8.10	Impart effective communication and interview cracking skills among students.	As per the suggestions given by the alumni, the communication skills and interview cracking skills training classes are conducted.
5	8.5	Develop the programming skills to find a better opportunity	Encouraged to complete the online certification courses offered by NPTEL, Coursera etc.,
6	8.10	Impart basic knowledge of Salesforce technology.	As per the suggestions given by the alumni, the guest lecture will be conducted on Salesforce.

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