



PRAGATI ENGINEERING COLLEGE

(Autonomous)

ADB Road, Surampalem, E.G.Dt., A.P. - 533437

(Approved by AICTE, Permanently Affiliated to JNTUK, Kakinada, Accredited by NAAC with 'A' Grade)

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Ph: 08852 - 252233, 34 Website: www.pragati.ac.in

DEPARTMENT OF CIVIL ENGINEERING

16-06-2022

PEC/CE/Circular/R20-BOS/3

CIRCULAR

All the members of Board of Studies (BOS) are here by informed that there will be a meeting on 18-06-2022 for discussing the following agenda.

AGENDA:

1. Welcome Address by BoS-Chairman
2. Discussion on ratification of new courses.
3. Ratification of III and IV years of R20 course structure for B.Tech program.
4. Ratification of III and IV year syllabus of B.Tech R20 regulation.
5. Discussion on Ratification of Course objectives, course outcomes and CO-PO mapping.
6. Ratification of Open Electives being offered to the other Departments
7. Discussion on ATR as per suggestions given by stakeholders.
8. Vote of Thanks.

Copy to...,

Dept. Notice Board.

The Director,

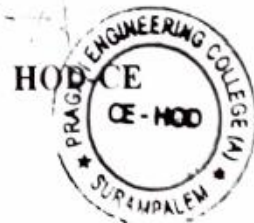
The Principal,

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DEPARTMENT OF CIVIL ENGINEERING

Department of Civil Engineering

MINUTES OF MEETING - IIIrd BOS R20

Minutes of the meeting of the board of studies in Civil Engineering for the ratification of R20 III & IV Year (I & II Semester) Course structure and syllabus, held on 18th June 2022 in the Department of Civil Engineering.

MEMBERS PRESENT:

S.No.	Recommended Composition	Name
1	Head of the Department concerned (Chairman)	Sri Mr. A RAVITEJA, M.Tech . All Faculty of the Department
2	The entire faculty of each specialization	1. Dr. K Saroja Rani 2. CH Vinay Chandra Sekhar 3. G Anjaneyulu 4. A.Kavya 5. K.Reshma
3	Two experts in the subject from outside the college to be nominated by the Academic Council.	Dr.S.Murthy D, Prof of CE, IIT Bombay Ph: 09869607604 Dr. Rama Seshu, Prof of CE, NIT Warangal Ph: 09490164794
4	One experts to be nominated by the vice - chancellor from a panel of six recommended by the college principal.	Dr. P. Subba Rao, Prof of CE, JNTU Kakinada Ph: 7093925555

AGENDA:

1. Welcome Address by BoS-Chairman
2. Discussion on ratification of new courses.
3. Ratification of III and IV years of R20 course structure for B. Tech program.
4. Ratification of III and IV year syllabus of B. Tech R20 regulation.
5. Discussion on Ratification of Course objectives, course outcomes and CO-PO mapping
6. Ratification of Open Electives being offered in the other Departments

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7. Discussion on ATR as per suggestions given by stakeholders.
8. Vote of Thanks

RESOLUTIONS:

Date: (18-06-2022)

1. The members ratified 31 number of new courses for regulation of R19.
2. The members ratified course objective, course outcomes and CO-PO mapping of all the course structure.
3. Resolved to ratify the proposed R-20 course structure and syllabi of following courses of third year and final year B. Tech (R-20 regulations along with course objectives and course outcomes.
4. Resolved to ratify the proposed syllabi of following courses of CE offered Open Electives for other departments (R-20 regulations) along with course objectives and course outcomes.
5. Resolved to ratify the textbooks, reference books and web resources as mentioned in the Points 3 and 4.
6. Design and detailing of reinforced concrete are suggested to change as design and drawing of reinforced concrete structures.
7. Design and detailing of steel structures is suggested to change as design and drawing of steel structures.
8. As per the BOS members suggestion, "Ground Improvement Techniques" the last part of the Unit 4 is swapped in Unit 2 of Professional Elective-III.
9. In accordance with the suggestion from BOS Members, III Year I semester Skill Oriented Course title is changed to "Analysis of Structures by Computer Aided Design (ETABS)" instead of "ETABS"
10. Based on the ATR suggestions given by the stake holders are included (Please refer Annexure-III)

BOS Chairman
Mr. A. Ravi Teja
(HOD-CE)

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DEPARTMENT OF CIVIL ENGINEERING

PEC/CE/Circular/R20-BOS/2

26-09-2021

CIRCULAR

All the members of Board of Studies (BOS) are here by informed that there will be a meeting on 02-10-2021 for discussing the following agenda.

Agenda:

1. Welcome Address by Chairman-BOS
2. Discussion on ratification of new courses.
3. Discussion on proposed R-20 Course Structure and ratification of II Year syllabus.
4. Discussion on Ratification of Course objectives, course outcomes and CO-PO mapping.
5. Discussion on ATR as per suggestions given by stakeholders.
6. Vote of thanks.

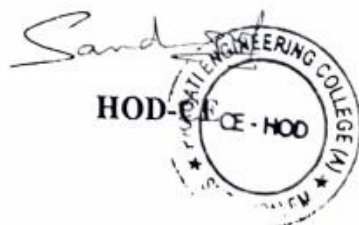
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The Principal,

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DEPARTMENT OF CIVIL ENGINEERING

Minutes of meeting- IInd BOS R-20

Minutes of the meeting of the Board of Studies in **Civil Engineering** for the ratification of R20 II- year (I & II Semester) course structure and syllabus, held on **2nd October, 2021** in the Department of Civil Engineering.

Members Present:

S. No	Recommended Composition	Name
1	Head of the Department concerned (Chairman)	Sri Mr. M. Sandeep
2	University Nominee	Dr. P. Subba Rao
3	External Nominee	Dr. D. Satyanarayana Murthy
4	External Nominee	Dr. D. Ramaseshu
5	Internal Academic Representative	Mr. V. Manideep
6	Internal Academic Representative	Mr. A. Raviteja
7	Internal Academic Representative	Mr. A Roger Antony

Agenda:

1. Welcome Address by Chairman-BOS
2. Discussion on ratification of new courses.
3. Discussion on proposed R-20 Course Structure and ratification of II Year syllabus.
4. Discussion on Ratification of Course objectives, course outcomes and CO-PO mapping.
5. Discussion on ATR as per suggestions given by stakeholders.
6. Vote of thanks.

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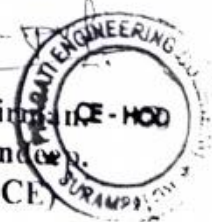
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RESOLUTIONS:

Date: (02-10-2021)

1. The members ratified 4 number of courses for regulation R20
2. The members ratified course objective, course outcomes and CO-PO mapping of all the course structure.
3. Topic on "determination of forces in trusses" was shifted from "Structural Analysis" to "Solid Mechanics" subject.
4. As discussed in I BOS – R20 meeting, "Construction Materials" and "Concrete Technology" subjects were combined as "Building Materials and Concrete Technology" subject and the same was approved by the nominees.
5. Topic of "Timber, Paints and finishing" were added to "Building Materials and Concrete Technology" subject.
6. In "Surveying" subject, "Curves" topic was shifted from Unit II to Unit IV.
7. "Total station" experiments were added to "Surveying field work-Laboratory".
8. Latest editions of text books for all subjects have been reviewed and updated.
9. Based on the ATR the suggestions given by the stakeholders are included (please refer Annexure-III)

Sand -
BOS- Chairman
Mr. M. Sandeep
(HOD-CE)



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Department of Electrical and Electronics Engineering

Department of EEE, Pragati Engineering College (Autonomous) is conducting Online BOS meeting on 14.06.2022 for ratification of the following.

AGENDA:

1. Welcome Address by Chairman-BOS.
2. Discussion on proposed R-20 B.Tech EEE course structure along with Third year, Fourth year syllabi and ratification of the same.
3. Discussion on proposed R-20 B.Tech, EEE Offered Open Electives for Other Departments syllabi and ratification of the same.
4. Discussion on ratification of course objectives, Course outcomes and CO-PO mapping.
5. Discussion on ratification of new courses in R20 regulation
6. Discussion on ATR as per suggestions given by stakeholders
7. Finalization of text books & reference books
8. Any other item.



& Regards
Mrs. K. Sandya rani
BOS-Chairman

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Department of Electrical and Electronics Engineering

RESOLUTIONS TAKEN:

1. Considered Item No. 2.

Resolved to ratify the proposed R-20 Course structure and syllabi of following courses of third year and final year B.Tech (R-20 regulations) along with course objectives and course outcomes.

S.No	Name of the Program	Name of the Course	Year and Semester
1	B. Tech (R-20)	Power system -II	III-I EEE
2		Power Electronics	III-I EEE
3		Control Systems	III-I EEE
4		Utilization of Electrical Energy(Professional Elective – I)	III-I EEE
5		Control Systems Laboratory	III-I EEE
6		Power Electronics Laboratory	III-I EEE
7		Summer Internship 2 Months (Mandatory) after second year (to be evaluated during V semester)	III-I EEE
8		Electrical Measurements and Instrumentation	III-II EEE
9		Power System Analysis	III-II EEE
10		Electric Drives(Professional Elective – II)	III-II EEE
11		Advanced Control Systems (Professional Elective – II)	III-II EEE
12		Power System Operation and Control (Professional Elective – II)	III-II EEE
13		Electrical Measurements and Instrumentation Laboratory	III-II EEE
14		Power Systems and Simulation Laboratory	III-II EEE
15		Renewable and Distributed Energy Technologies (Professional Elective – III)	IV-I EEE
16		Flexible AC Transmission Systems(Professional Elective – III)	IV-I EEE
17		Power Systems Deregulation(Professional Elective – III)	IV-I EEE
18		Hybrid Electric Vehicles (Professional Elective – IV)	IV-I EEE
19		High Voltage Engineering(Professional Elective – IV)	IV-I EEE
20		Programmable Logic Controllers and Applications(Professional Elective – IV)	IV-I EEE

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21		Switchgear and Protection (Professional Elective – V)	IV-I EEE
22		Switched Mode Power Conversion (Professional Elective – V)	IV-I EEE
23		AI Applications to Electrical Engineering (Professional Elective – V)	IV-I EEE
24		Industrial / Research Internship 2 Months (Mandatory) after third year (to be evaluated during VII Semester)	IV-I EEE
25		Project work, seminar, and internship in industry (6 Months)	IV-II EEE

The approved Course structure and syllabi are enclosed herewith. (Annexure-I, II for R-20 B.Tech EEE III- & IV-Year Syllabi) .

2. Considered Item No. 3.

Resolved to ratify the proposed syllabi of following courses of EEE Offered Open Electives For other Departments (R-20 regulations) along with course objectives and course outcomes.

S. No.	Name of the Programme	Name of the Course	Year and Semester
1.	B. Tech (R-20)	Renewable Energy Engineering	III-I CE, ME, ECE, CSE and IT
2.		Fundamentals of Electric Vehicles	III-II CE, ME, ECE, CSE and IT
3.		Battery Management Systems and Charging Stations	IV-I CE,ME, ECE, CSE and IT
4.		Smart Grid Technologies	IV-I CE,ME, ECE, CSE and IT

The approved syllabi are enclosed herewith. (Annexure-II for EEE Offered Open Electives for other Departments.

3. Considered Item No. 4.

The members ratified course objectives, course outcomes and CO-PO mapping of all the courses in the course structure.

4. Considered Item No. 5.

The members ratified 32 new courses for III & IV year in R-20 regulation. The details are enclosed in Annexure III.

5. Considered Item No. 6.

Based on the ATR, the suggestions given by the stakeholders are included. The details are enclosed in Annexure IV.

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6. Considered Item No. 7.

Resolved to ratify the textbooks and reference books as mentioned in the Item Nos.2, 3.

7. Considered Item No. 8.

i) As per the BOS Members suggestion, III Year I semester: Control Systems Laboratory, Experiment No.12 is to be replaced with Experiment No.13 as follows:

“Block Diagram Representation of Field Controlled DC Servo Motor using SIMULINK.”

ii) As per the BOS Members suggestion, “AC servo Motor” topic is to be included in UNIT 1 of Control Systems Theory of III Year I semester.

iii) “Single phase and three phase - half wave rectifiers” in UNIT 2 and UNIT 3 respectively, of Power Electronics Theory of III Year I semester are removed according to the BOS Members suggestion.

iv) Power System Operation and Control of Professional Elective – V in IV Year I semester is swapped with Switchgear and Protection of Professional Elective – II, as per the BOS Members suggestion.

v) In accordance with the suggestion from BOS Members, III Year II semester (Professional Elective – II): Advanced Control Systems, UNIT 2 title is changed to “Controllability - Observability and Design of State Feedback Control” instead of “Controllability - Observability and Design of Pole Placement”.

vi) As per the BOS Members suggestion, III Year II semester: Power Systems and Simulation Laboratory, Experiment No.12, 13, 14 is to be replaced with Experiment No.11, 13, 14 as follows:

“Calibration of Tong Tester.”

“Fast Decoupled flow analysis using MATLAB.”

“Short Circuit analysis for line to ground fault and line to line fault using MATLAB.”

Finally, Chairman of BOS thanked all the members for their valuable inputs and active participation in the meeting.

You are requested to collect the above information and approve the same.



Thanks & Regards
Mrs. K. Sandya rani
BOS-Chairman



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Department of Electrical and Electronics Engineering

Minutes of meeting of the Board of studies in EEE Department regarding ratification of B.Tech (R-19 III year, IV year syllabi and R-20 I year course structure and I year syllabi) held on 20.01.2021.

Members Present:

S. No.	Name
1	Dr. K. Satyanarayana, Professor, HOD-EEE, Chairman of BOS-EEE
2	Dr. Srirama Srinivas, Professor of EE, IIT Madras, Chennai
3	Dr. P.Mallikarjuna Rao, Professor of EE, UCE, Andhra University
4	Dr. K. Ravindra, Associate Professor of EEE, JNTUK, Kakinada
5	Dr. G. Naresh, Professor of EEE Dept.
6	Sri. B. Pradeep Raja Vardhan, Assistant Manager, Reliance Jio Infocomm Ltd., Visakhapatnam
7	Sri. R.Sudhakar, Assoc. Professor of EEE Dept.
8	Sri M.Satya Harish, Asst.Professor of EEE Dept.

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Department of Electrical and Electronics Engineering

Minutes of meeting of the Board of studies in EEE Department regarding ratification of B.Tech (R-20 II year course structure and II year syllabi) held on 25.09.2021 through ONLINE.

AGENDA:

1. Welcome Address by Chairman-BOS.
2. Discussion on proposed R-20 B.Tech EEE Second Year course structure and syllabi along with subject codes
3. Discussion on ratification of course objectives, Course outcomes and CO-PO mapping.
4. Discussion on ratification of new courses in R19 regulation.
5. Discussion on ATR as per suggestions given by stakeholders
6. Finalization of text books & reference books
7. Any other item

RESOLUTIONS TAKEN:

1. Considered Item No. 2.

Resolved to ratify the proposed syllabi of following courses of second year B.Tech (R-20 regulations) along with course objectives and course outcomes & programme outcomes by incorporating following changes

- i) Members suggested to change II-I semester Theory course title "DC Machines and Transformers" as "Transformers and DC Machines" and Lab course title "DC Machines and Transformers Lab" as "Transformers and DC Machines Lab"

S. No.	Name of the Programme	Name of the Course	Year and Semester
1.	B. Tech (R-20)	Electrical Circuit Analysis-II	II-I EEE
2.		Transformers and DC Machine	II-I EEE
3.		Electro Magnetic Fields	II-I EEE
4.		Electrical Circuits Lab	II-I EEE
5.		Transformers and DC Machines Lab	II-I EEE
6.		Skill oriented course-Design of Electrical Circuits using Engineering Software Tools	II-I EEE
7.		Power System-I	II-II EEE
8.		Induction and Synchronous Machines	II-II EEE
9.		Induction and Synchronous Machines Lab	II-II EEE

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The approved syllabus copies are enclosed herewith. (Annexure-I for R-20 B.Tech EEE II Year Syllabi)

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2. Considered Item No. 3.

The members ratified course objectives, course outcomes and CO-PO mapping of all the Courses in the course structure.

3. Considered Item No. 4.

The members introduced 4 new courses in II year course structure of R-20 regulation.

4. Considered Item No. 5.

Based on the ATR, the suggestions given by the stakeholders are included.

5. Considered Item No. 6.

Resolved to ratify the text books and reference books as mentioned in the Item Nos. 2

Finally Chairman of BOS thanked all the members for their valuable inputs and active participation in the meeting.



Sr.K.Satyanarayana
Thanks & Regards
Sr.K.Satyanarayana
Chairman- BOS

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Sr.K.Satyanarayana
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DEPARTMENT OF MECHANICAL ENGINEERING

Date: 15-06-2022

CIRCULAR

All the members of Board of Studies(BoS) are here by informed that there will be a meeting on 18th June 2022 for discussing the following agenda.

Agenda:

1. Discussion on proposed course structure R20 regulations of B.Tech Third Year and Fourth Year and ratification of the same.
2. Discussion on proposed B.Tech Third Year and Fourth Year courses syllabi of R20 and ratification of the same.
3. Ratification of the proposed model papers for internal and external examination of both theory and laboratory courses.
4. Discussion on ratification of new courses introduced in R20 Regulation.
5. Discussion on ratification of Course Objectives, Course Outcomes and CO-PO mapping.
6. Finalization of text books and reference books.
7. Discussion on ATR as per suggestions given by the stake holder.
8. Any other item.



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1. All members of BoS.
2. Department circular file.

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DEPARTMENT OF MECHANICAL ENGINEERING

Date: 18-06-2022

Minutes of meeting of B.Tech & M.Tech Board of Studies (BoS) of Mechanical Engineering conducted on 18th June 2022 for approval/ratification of R19 & R20 regulations.

Members Present:

BOS-CHAIRMAN

Dr. B.S.V. Rama Rao
Professor and Hod
Mechanical Engineering Department
Pragati Engineering College

UNIVERSITY NOMINEE

Dr. M. Kumara Swamy
Associate Professor
University College Of Engineering, JNTUK
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EXTERNAL-EXPERT

Dr. Ch. Srinivasa Rao
Professor
Department Of Mechanical Engineering
University College of Engineering
Andhra University
9556713217

Dr. E. Anil Kumar
Professor
Department Of Mechanical Engineering
IIT TIRUPATI
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INTERNAL MEMBERS

- | | |
|------------------------|------------------|
| • Dr. S. Sambhu Prasad | - Faculty Member |
| • Dr. R. Dharmalingam | - Faculty Member |
| • Dr. G. Satish | - Faculty Member |
| • Mr. G. Avinash | - Faculty Member |
| • Mr. D.J. Johnson | - Faculty Member |
| • Mr. M. Sunil Raj | - Faculty Member |
| • Mr. G.V.N. Santhosh | - Faculty Member |

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Agenda:

1. Discussion on proposed course structure R20 regulations of B.Tech Third Year and Fourth Year and ratification of the same.
2. Discussion on proposed B.Tech Third Year and Fourth Year courses syllabi of R20
3. Ratification of B.Tech Third Year and Fourth Year courses syllabi of R20.
4. Ratification of the proposed model papers for internal and external examination of both theory and laboratory courses.
5. Discussion on ratification of new courses introduced in R20 Regulation.
6. Discussion on ratification of Course Objectives, Course Outcomes and CO-PO mapping.
7. Finalization of text books and reference books.
8. Discussion on ATR as per suggestions given by the stake holder.
9. Any other item.

Proceedings:

- The meeting began at 10.00AM in the R&D Laboratory. The Chairman of the Board Dr. B.S.V. Rama Rao welcomed all the members for the meeting.
- With respect to point 2 of agenda, the following changes were suggested in B.Tech syllabi:
 - Proposed course structure of R20 regulation of Third Year and Fourth Year B.Tech is approved by the members of BoS without any modification.
- With respect to point 3 of agenda, the following changes were made:
 - It is suggested to add the concept of mass transfer in the course "Heat Transfer" in III year II sem and the concept of mass transfer is included.
 - It is suggested to add the concept of reverse engineering in the course "Additive Manufacturing" in IV year I sem and the concept of reverse engineering is included in the course Additive Manufacturing.
 - It is suggested to verify the syllabus of "Sustainable Energy Technologies" which comes open elective to other departments. In IV year I sem. The syllabus is verified and modified accordingly
- With respect to point 8 of agenda, the following changes were made:
 - The request received from the department of IT(Information Technology) to place the subject "Industrial Robotics" instead of "Sustainable Energy Technologies" under the category of OPEN ELECTIVE in IV year I sem which is offered by the Mechanical Engineering and the request is accepted by all; the bos members of the department of Mechanical Engineering.
 - The request received from the department of CSE and its allied branches i.e, CSE,CSE-DS,CSE-AI,CSE-AIML to place the subject "Optimization Techniques" instead of "Operational Research" under the category of OPEN ELECTIVE in III year I sem which is offered by the Mechanical Engineering and the request is accepted by all; the bos members of the department of Mechanical Engineering.

Resolutions:

The following resolutions have been made in the meeting

- The Third Year and Fourth Year course structure of R20 regulations of B.Tech is approved without any modifications.
- The Third Year and Fourth Year syllabus for B.Tech of R20 regulations is accepted

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without any modifications and was thoroughly discussed, finalized and approved. BOS Chairman is authorized to endorse the syllabus.

- The proposed model papers for internal and external examination of both theory and laboratory courses were discussed and ratified.
- The members ratified 04 new courses for R20 regulation.
- It is resolved to have only two text books and up to five reference books for all the courses to the possible extent.
- Based on the ATR the suggestions given by the stake holders are included.
- The members decided to convey the same to Academic Council members for approval.

The meeting came to an end with vote of thanks.



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DEPARTMENT OF MECHANICAL ENGINEERING

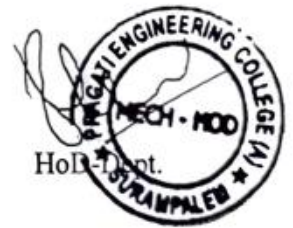
Date: 20-09-2021

CIRCULAR

All the members of Board of Studies(BoS) are hereby informed that there will be a meeting on 24th September 2021 for discussing the following agenda.

Agenda:

1. Discussion on proposed course structure R20 regulations of B.Tech second Year and ratification of the same.
2. Discussion on proposed B.Tech second Year courses syllabi of R20.
3. Ratification of proposed B.Tech second Year courses syllabi of R20.
4. Ratification of the proposed model papers for internal and external examination of both theory and laboratory courses.
5. Discussion on ratification of new courses introduced in R20 Regulation.
6. Discussion on ratification of Course Objectives, Course Outcomes and CO-PO mapping.
7. Finalization of text books and reference books.
8. Discussion on ATR as per suggestions given by the stake holder.
9. Any other item.



Copy to:

1. All members of BoS.
2. Department circular file.

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DEPARTMENT OF MECHANICAL ENGINEERING

Date: 24-09-2021

Minutes of meeting of B.Tech & M.Tech Board of Studies (BoS) of Mechanical Engineering conducted on 24th September 2021 for approval/ratification of R19 & R20 regulations.

Members Present:

BOS-CHAIRMAN

Dr. B.S.V. Rama Rao

Professor and Hod

Mechanical Engineering Department

Pragati Engineering College

UNIVERSITY NOMINEE

Dr. M. Kumara Swamy

Associate Professor

University College Of Engineering, JNTUK

kmpalli@jntucek.ac.in

9908295810

EXTERNAL-EXPERT

Dr. Ch. Srinivasa Rao

Professor

Department Of Mechanical Engineering

University College of Engineering

Andhra University

9556713217

Dr. E. Anil Kumar

Professor

Department Of Mechanical Engineering

IIT TIRUPATI

anil@iittp.ac.in

8772503405

INTERNAL MEMBERS

- | | |
|------------------------|------------------|
| • Dr. S. Sambhu Prasad | - Faculty Member |
| • Dr. R. Dharmalingam | - Faculty Member |
| • Dr. G. Satish | - Faculty Member |
| • Mr. G. Avinash | - Faculty Member |
| • Mr. D.J. Johnson | - Faculty Member |
| • Mr. M. Sunil Raj | - Faculty Member |
| • Mr. G.V.N. Santhosh | - Faculty Member |
| • Mrs. K. Aravinda | - Faculty Member |

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Agenda:

1. Discussion on proposed course structure R20 regulations of B.Tech second Year and ratification of the same.
2. Discussion on proposed B.Tech second Year courses syllabi of R20.
3. Ratification of proposed B.Tech second Year courses syllabi of R20.
4. Ratification of the proposed model papers for internal and external examination of both theory and laboratory courses.
5. Discussion on ratification of new courses introduced in R20 Regulation.
6. Discussion on ratification of Course Objectives, Course Outcomes and CO-PO mapping.
7. Finalization of text books and reference books.
8. Discussion on ATR as per suggestions given by the stake holder.
9. Any other item.

Proceedings:

- The meeting began at 10.00AM in the R&D Laboratory. The Chairman of the Board Dr. B.S.V. Rama Rao welcomed all the members for the meeting.
- With respect to point 2 of agenda, the following changes were suggested in B.Tech syllabi:
 - Production Technology Theory and Lab shifted to II year- II sem.
 - MMS Theory and Lab shifted to II year- I sem in place of Production Technology Theory and Lab.
 - Kinematics of Machinery Theory and Thermal Engineering Lab shifted to II year- II sem.
 - Mechanics of Solid Theory and Lab shifted to II year- I sem in place of KOM and TE Lab.
 - Dynamics of Machinery in II year- II sem is replaced with Applied Thermodynamics (Extension of Thermodynamics of II year-I sem).
 - Dynamics of Machinery will be placed in III year- I sem.
- With respect to point 3 of agenda, the following changes were made:
 - The name of Applied Thermodynamics can be called as Thermodynamics and the following points to be considered.
 - Available energy or availability of exergy to be included.
 - Non-reactive gas mixtures and reactive gas mixtures can be included.
 - All thermal cycles to be included (Air standard cycle, Refrigeration cycle, etc...)
 - Metallurgy Lab experiment 8 and 9 to be verified.
- As per suggestions given in the previous Bos meeting new skill oriented labs has been introduced in R20 regulation.

Resolutions:

The following resolutions have been made in the meeting

- The Second year course structure of R20 regulations of B.Tech is approved without any modifications.
- The Second year syllabus for B.Tech of R20 regulations is accepted without any modifications and was thoroughly discussed, finalized and approved. BOS Chairman is authorized to endorse the syllabus.
- The proposed model papers for internal and external examination of both theory and



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laboratory courses were discussed and ratified.

- The members ratified 03 new courses for R20 regulation.
- It is resolved to have only two text books and up to five reference books for all the courses to the possible extent.
- Based on the ATR the suggestions given by the stake holders are included.
- The members decided to convey the same to Academic Council members for approval.

The meeting came to an end with vote of thanks.



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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

06-06-2022

PEC/ECE/Circular/BoS/2021-20/22

CIRCULAR

All the members of Board of Studies (BoS) are here by informed that there will be a meeting on 09-06-2022 for discussing the following agenda.

Agenda:

1. Welcome Address by BoS-Chairman.
2. Ratification of III&IV-year course structure and syllabi of R-20 regulation for B Tech program.
3. Ratification of interdepartmental courses offered by ECE department of R-20 regulation for III&IV-year.
4. Discussion of Ratification of new courses.
5. Discussion of Ratification of Course Objectives, Course Outcomes, and CO- PO mapping for each course.
6. Finalization of text books and reference books.
7. Any other item.

Sailaja V.

BoS Chairman

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

09-06-2022

Minutes of the Meeting-Board of Studies

The 7th Board of Studies of meeting of ECE Department was held on 09-06-2022 to review and ratify Course structure of R20 Regulation and Syllabus of III and IV years through virtual Mode. The following are the resolutions taken during Session

Resolutions:

Considered Item no 2: It is resolved to ratify the course structure and syllabi of R-20 regulation B Tech III&IV-year courses with the following modifications

III & IV Year Courses:

1. Analog and Digital Communications :

- This course should have proper discussion on modulation and demodulation techniques in a general manner instead of separation of Analog and digital.
 - SSB technique should be combined with AM techniques and arrange a separate chapter for Angle Modulation.
 - In Angle modulation in unit –III give more emphasis on Capturing effect in demodulation of FM using PLL and reframe the syllabus in line with Shamshanmukam author.
2. For **Internships**, the members suggested that the student has to submit the report by video presentation to make the evaluation process as simpler.
 3. In Skill oriented Course, rename the course ARM/ Aurdino based Programming as interactive programming /Interfacing with processors.
 4. In **Digital Signal Processing** ,overlapping of frequency analysis of LTI systems with signals and systems
 5. In **Optical Communication**, give more emphasis on optical detector, *transimpedance amplifier* (TIA) is a current to voltage converter (Trans -Z) amplifier.

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6. Include FET amplifiers in **Optical Communication** Subject
7. Prescribe **Satellite Communication: Concepts and Applications** Second Edition by N.Raja Rao For Satellite Communication Subject
8. More exercise problem should be solved in **Skill oriented Courses**
9. In IoT theory Course ,include industrial IoT as a separate chapter

Considered Item no 3: It is resolved to ratify courses offered by ECE department to other branches of R-20 regulation III&IV years.

- Rename the title of **Principles of Communication** as **Principles of Communication Engineering**
- Prescribe Communication Systems, 2E - RP Singh, SD Sapre for **Principles of Communication Engineering** Subject
- Rename the title of **Transducers & Sensors** as **Sensors and Transducers** as per textbook title.
- In **Digital Signal Processing**, syllabus should be minimized in DFT, FFT with basic concepts only.
- In convolution topic also remove filtering method for convolution of long sequences .

Considered Item no 4: Refer to the Annexure III, New courses introduced in the R20 Course structure for III and IV years. Total 38 New courses were introduced and Syllabus is ratified

Considered Item no 5: Course objectives, Course outcomes and CO-PO mapping were reviewed and advised faculty members to verify the mapping again.

Considered Item no 6:

1. It is resolved to include 2 text books and 3 reference books for every course of III&IV Year- R-20 course structure and the subject title should map with text book title.

Suggestions:

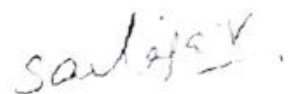
1. Fundamentals should be strong and methodologies adopted should enhance the knowledge gained by students along with skills.
2. Every lab must be on design oriented and include simulation concepts in theory courses.

UP


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3. Emphasis should be given on Entrepreneurship and Business Management Courses in OPEN ELECTIVE.
4. Members suggested that Paper should be Framed internally for External Examinations which will benefit students as Syllabus is excess in some subjects.



BoS-Chairman

(Dr. V. Sailaja)

HOD-FCE

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

21-09-2021

PEC/ECE/Circular/BoS/2021-22/1

CIRCULAR

All BoS members are requested to attend the Board of Studies Meeting of Electronics and Communication Engineering in the virtual mode on 28-09-2021 through Teams APP. The link will be shared through whatsapp.

Agenda:

1. Welcome Address by BoS-Chairman.
2. Discussion of Ratification of II-year course structure and syllabi of R-20 regulation for B Tech program.
3. Discussion of Ratification of new courses.
4. Discussion of Ratification of Course Objectives, Course Outcomes, and CO- PO mapping for each course.
5. Finalization of text books and reference books.
6. Discussion of Action Taken Report from stake holders.
7. Any other item.

Chairman-BoS

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

29-09-2021

The Department of Electronics and Communication Engineering 6th BoS meeting held on 28-09-2021. The following are the Resolutions and suggestion given by BoS experts.

Resolutions:

Considered Item no 2:

It is resolved to ratify the syllabi of R-20 regulation B Tech II-year courses with the following modifications II Year Courses:

1. Signals and Systems course should have proper discussion on System novelty and also include Causality and stability in UNIT-4
2. In Switching Theory and Logic Design most emphasis is to be given on tabular minimization
3. In Electronic Devices and Circuits Lab Cut-in reverse and forward voltage is to be calculated for both silicon and germanium diodes. Bi-filter is to be included in Laboratory experiments
4. In Switching Theory and Logic Design Lab, design oriented or indirect experiments must be provided to students
5. More exercise problem should be solved in Interactive Programming through MATLAB
6. Reduce the content of BJT in Electronic Circuit Analysis course
7. In Control Systems Course prerequisite for DC servo motors is Synchronous motor and their features. Include Text books/reference books which are having more exercise problems
8. Electronic Circuit Analysis Lab should have experiment on both hardware and software with design oriented approach.
9. Entrepreneur course is included as per the suggestions.

Considered Item no 3:

The syllabus for 4 new courses for II year in R20 Course structure is ratified

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Considered Item no 4:

Course objectives, Course outcomes and CO-PO mapping were reviewed and advised faculty members to verify the mapping again.

Considered Item no 5:

1. It is resolved to include 2 text books and 3 reference books for every course of II Year R-20 course structure.

Considered Item no 6:

1. Action Taken Report on Curriculum feedback from stake holders for Academic year 2020-21 is presented for discussion
2. BoS Experts suggested based on feedback increase number of value added/certificate courses in Department.
3. NPTEL Courses on Employability to be encouraged

Suggestions:

1. Fundamentals should be strong and methodologies adopted should enhance the knowledge gained by students along with skills.
2. Every lab must be on design oriented and include simulation concepts in theory courses.
BoS-Chairman.
3. Experts suggested more focus should be on Skill Oriented and Employability courses.


BoS Chairman
HOD/EECE

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Date: 17-06-2022

CIRCULAR

All the members of Board of Studies (BoS) are hereby informed that there will be a meeting on 20th June 2022 for discussing the following agenda.

Agenda for the Board of Studies Meeting:

1. Welcome Address by BOS-Chairman
2. Ratification of proposed III Year Course Structure & Syllabus of B. Tech (CSE) for R20 regulation.
3. Ratification of proposed IV Year Course Structure & Syllabus of B. Tech (CSE) for R20 regulation.
4. Discussion on ratification of new courses introduced in R20 Regulation.
5. Discussion on ratification of Course Objectives, Course Outcomes and CO-PO Mapping.
6. Finalization of text books and reference books.
7. Discussion on ATR as per suggestions given by Stakeholders (Please Refer Annexure-IV).
8. Ratification of the proposed model papers for internal and external examination of both theory and laboratory courses for R20 regulation.
9. Any other item.
10. Vote of Thanks.


HoD-Dept.



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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Date: 20-06-2022

Minutes of meeting of B. Tech Board of Studies (BoS) of Computer Science and Engineering conducted on 20th June 2022 for approval/ratification of R20 regulation.

Members Present:

1. Chairman-BoS

Dr. M. Radhika Mani
Professor & HOD,
Department of CSE,
Pragati Engineering College,
Surampalem. A. P.
India.

2. University Nominee

Dr. K. Sahadevaiah
Professor of CSE,
JNTUK, Kakinada. A. P.
India.

3. Subject Expert

Dr. D. V. L. N. Somayajulu
Professor of CSE,
NIT Warangal, Warangal. A. P.
India.

4. Subject Expert

Dr. M. V. PanduRangaRao
Associate Professor of CSE,
IIT Hyderabad.
India

5. Industry Expert

Sri Praveen Kumar Y,
TCS-Hyderabad. India.

6. Alumni

Dr. V Srinivasa Naresh,
Professor of Computer Science and Engineering,
Sri Vasavi Engineering College,

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7. Faculty members of CSE Department

- i. Dr. Y. Jaya Babu
- ii. Dr. Y.V. Ram Kumar
- iii. Dr. S. Suresh
- iv. Dr. S. Sarada
- v. Dr. D. V. Manjula
- vi. Dr. M. Uma Devi

Agenda:

1. Welcome Address by BOS-Chairman
2. Ratification of proposed III Year Course Structure & Syllabus of B. Tech (CSE) for R20 regulation.
3. Ratification of proposed IV Year Course Structure & Syllabus of B. Tech (CSE) for R20 regulation.
4. Discussion on ratification of new courses introduced in R20 Regulation.
5. Discussion on ratification of Course Objectives, Course Outcomes and CO-PO Mapping.
6. Finalization of text books and reference books.
7. Discussion on ATR as per suggestions given by Stakeholders (Please Refer Annexure-IV).
8. Ratification of the proposed model papers for internal and external examination of both theory and laboratory courses for R20 regulation.
9. Any other item.
10. Vote of Thanks.

Suggestions:

The following suggestions given by the members of BoS.

- Discuss with Mechanical Engineering Board for possibility to change the Open Elective Course "Operations Research" to "Optimization Techniques".
- Discuss with the Electrical and Electronics Engineering Board for possibility to change the Open Elective Course "Fundamentals of Electric Vehicles" to any other Course required for Computer Science students.
- Discuss with the Humanities and Management Board for possibility to change the Open Elective Course "Organizational Behavior" to "Management Information System".
- Discuss with the Humanities and Management Board for possibility to change the Open Elective Course "Marketing Management" to any other Course required for Computer Science students.
- Update all the Textbooks and Reference Books with Volume and Edition details.
- Minimize the content of Unit-IV in "Computer Networks" syllabus.
- Include "P and NP problems" content in Unit-V of "Design and Analysis of Algorithms" syllabus.
- Include "Arun K. Pujari, Data Mining Techniques, Universities Press, 2001"

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- Include "Reference book for "Data Warehousing and Data Mining" course syllabus
- Include "Laboratory" component in "Human Computer Interactions" in next regulation course structure
- Include "Lex and Bison" content in "Compiler Design" course
- Include the following Reference books for "Compiler Design" course
 - Jean-Paul Tremblay, P. G. Sorenson, Sorenson Gaul G, "Theory and Practice of Compiler Writing" McGraw-Hill, 1985."
 - Cooper, Keith D., Torczon, Linda, "Engineering a Compiler" Netherlands: Elsevier Science, 2011.
- Include the following Reference book for "Mobile Computing" course
 - Raj Kamal, "Mobile Computing" 3rd Edition, Oxford Universities Press, 2018.
- Provide the following textbook for "Cloud Computing"
 - Cloud Computing, Theory and Practice, Dan C Marinescu, MK Elsevier
- Include the following reference textbook for "Cloud Computing"
 - Distributed and Cloud Computing, Kai Hwang, Geoffrey C. Fox, Jack Dongarra MK Elsevier.
- Minimize the content of Unit-II in "Ad-hoc and Sensor Networks" syllabus by mentioning only important routing algorithms.
- Include "Information Technology Act-ITA 2000" content in Unit-V of "Computer Forensics".
- Include the following Reference book for "Social Networks and Semantic Web course",
 - Robert W. Sebesta, "Programming The World Wide Web" Pearson, 2019.
- Include "Zigbee Technology" content in "Wireless Sensor Networks".

Resolutions:

The following resolutions have been made in the meeting

- Replace the title of the Course "Cyber Security & Forensics" to "Computer Forensics".
- The changes suggested were thoroughly discussed and the R20 regulation of III & IV year course structures of B. Tech (CSE) are finalized and approved.
- The syllabus for R20 regulation of III & IV year B. Tech (CSE) courses were thoroughly discussed finalized and approved. BOS Chairman is authorized to endorse the syllabus.
- The members ratified course objectives, course outcomes and CO-PO mapping for all the courses in the course structure.
- **The members ratified 16 new courses for B. Tech (CSE) for R20 regulation.**
- The proposed model papers for internal and external examination of both theory and laboratory courses for R20 regulation were discussed and ratified.
- As per suggestions from the previous BoS meeting, Entrepreneurship course included in the curriculum.
- As per suggestions from the previous BoS meeting, Honors and Minors courses included in the curriculum.

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- Based on the ATR the suggestions given by the stakeholders are included
- The members decided to convey the same to Academic Council members for approval.

U. Kishore

BoS-Chairman



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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Date: 02-11-2021

CIRCULAR

All the members of Board of Studies (BoS) are hereby informed that there will be a meeting on 6th November 2021 for discussing the following agenda.

Agenda for the 5th Board of Studies Meeting:

1. Welcome Address by BOS-Chairman
2. Ratification of proposed B.Tech Second Year Course Structure & Syllabus of B.Tech (CSE) for R20 regulation.
3. Discussion on ratification of new courses introduced in R20 Regulation.
4. Discussion on ratification of Course Objectives, Course Outcomes and CO-PO Mapping.
5. Finalization of text books and reference books.
6. Discussion on ATR as per suggestions given by Stakeholders (Please Refer Annexure IV).
7. Ratification of the proposed model papers for internal and external examination of both theory and laboratory courses for R20 regulation.
8. Any other item.
9. Vote of Thanks.

Copy to:

1. All members of BoS.
2. Department circular file.

H. Reddy
HoD-Dept.



1 of 1

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Date: 06-11-2021

Minutes of meeting of B. Tech Board of Studies (BoS) of Computer Science and Engineering conducted on 6th November 2021 for approval/ratification of R20 regulations.

Members Present:

1. Chairman-BoS

Dr. M. Radhika Mani
Professor & HOD,
Department of CSE,
Pragati Engineering College,
Surampalem. A. P.
India.

2. University Nominee

Dr. K. Sahadevaiah
Professor of CSE,
JNTUK, Kakinada. A. P.
India.

3. Subject Expert

Dr. D. V. L. N. Somayajulu
Professor of CSE,
NIT Warangal, Warangal. A. P.
India.

4. Subject Expert

Dr. M. V. Pandu Ranga Rao
Associate Professor of CSE,
IIT Hyderabad.
India

5. Industry Expert

Sri Praveen Kumar Y,
TCS-Hyderabad. India.

6. Alumni

Dr. V Srinivasa Naresh,
Professor of Computer Science and Engineering,
Sri Vasavi Engineering College,

1 of 5

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7. Faculty members of CSE Department

- i. Dr. Y. Jaya Babu
- ii. Dr. Y. V. Ram Kumar
- iii. Dr. A. Radha Krishna
- iv. Dr. S. Suresh
- v. Dr. S. Sarada

Agenda:

1. Welcome Address by BOS-Chairman
2. Ratification of proposed B.Tech Second Year Course Structure & Syllabus of B.Tech (CSE) for R20 regulation.
3. Discussion on ratification of new courses introduced in R20 Regulation.
4. Discussion on ratification of Course Objectives, Course Outcomes and CO-PO Mapping.
5. Finalization of text books and reference books.
6. Discussion on ATR as per suggestions given by Stakeholders (Please Refer Annexure IV).
7. Ratification of the proposed model papers for internal and external examination of both theory and laboratory courses for R20 regulation.
8. Any other item.
9. Vote of Thanks.

Suggestions:

The following suggestions given by the members of BoS.

- Include 1 or 2 experiments covering Multi way search trees or Digital Search Structures concepts in “Advanced Data Structures Laboratory” course.
- Include 1 or 2 experiments covering applications of Numpy in “Applications of Python- NumPy Laboratory” course.
- In “Formal Languages and Automata Theory” course–Reference book list, remove the following book.
 - Theory of Computation, V. Kulkarni, Oxford University Press, 2013
- In “Formal Languages and Automata Theory” course–Reference book list, include the following books.
 - Formal Language and Automata Theory, K. V. N. Sunitha, N. Kalyani, 2nd Edition, Pearson Education, 2015
 - An Introduction to Formal Languages and Automata, Peter Linz, 6th Edition, Jones & Bartlett Learning, 2017
- In “Java Programming” course, include the concepts of AWT and Swings in Unit-V.
- In “Java Programming” course, remove the following Textbook
 - JAVA one step ahead, Anitha Seth, B. L. Juneja, Oxford.
- In “Java Programming” course, add the following Textbook
 - Introduction to java programming, 7th edition by Y Daniel Liang, Pearson
- In “Java Programming laboratory” course, include one or two experiments in AWT,

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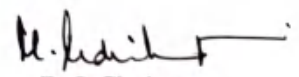
Swing and JDBC concepts.

- In "Web Application Development and Full Stack Front end Development II" course, include 1 or 2 experiments covering Node.js concept.
- Combine the "Computer Networks" and "Compiler Design" Laboratory courses in to single laboratory course.
- Include "Machine Learning" course as Professional core course and Include "Machine Learning Laboratory" course as Professional core laboratory.
- Remove "AI Tools & Techniques" Theory and Laboratory courses.
- Include "Wireless Sensors and Adhoc Networks" course in Professional Elective.
- Replace the "Block Chain Technologies-Hyper ledger" Skill oriented course with the industry demanded course.
- The external experts suggested to add new courses in the curriculum by following the AICTE guidelines.
- BoS members suggested to introduce any of the Internship program in the curriculum.
- BoS members suggested to have only two text books and up to five reference books for all the courses.
- The external experts suggested identifying courses that would enhance the employability skills and also suggested to add few Skill Oriented courses for the students.

Resolutions:


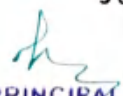
The following resolutions have been made in the meeting

- The changes suggested were thoroughly discussed and the R20 regulation course structures of B. Tech (CSE) are finalized and approved.
- The syllabus for R20 regulation of B. Tech (CSE) course was thoroughly discussed, finalized and approved. BOS Chairman is authorized to endorse the syllabus.
- The members ratified course objectives, course outcomes and CO-PO mapping for all the courses in the course structure.
- **The members ratified 06 new courses for B. Tech (CSE) for R20 regulation.**
- The proposed model papers for internal and external examination of both theory and laboratory courses for R20 regulation were discussed and ratified.
- MFCS, DBMS, DBMS Lab, OS & OS Lab Courses are ratified in IT Department BoS.
- Based on the ATR the suggestions given by the stakeholders are included
- The members decided to convey the same to Academic Council members for approval.
- As per suggestions from the previous BoS meeting, Honors and Minors courses included in the curriculum.


BoS-Chairman



3 of 5



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DEPARTMENT OF INFORMATION TECHNOLOGY

Date: 10-06-2022

CIRCULAR

All the faculty of Department of Information Technology are hereby informed that a meeting of the Board of studies of our department will be held on 15th June 2022. You are requested to attend the same. Following is the agenda.

AGENDA:

- Welcome address by Chairman – BOS
- Discussion on proposed B.Tech Second Year courses syllabus and ratification of the same of R16 regulation (Refer Annexure I)
- Discussion on ratification of new courses. (Refer Annexure II)
- Discussion on ratification of course objectives, course outcomes and CO-PO Mappings(Refer Annexure IV)
- Discussion on ATR as per suggestions given by stakeholders (Refer Annexure III)
- Ratification of the proposed model papers for internal and external examinations of both theory and laboratory courses for B.Tech Second, Third and Final year courses
- Finalization of text books and reference books.
- Discussion on proposed value added courses and ratification of the same.
- Any other item.
 1. Obtaining member's opinion on the proposed Vision, Mission, POs, PEOs and PSOs of the B.Tech (IT) programme.
 2. Obtaining inputs from the BOS members regarding the connectivity of various courses in the course structure.
- Vote of Thanks.

Circulation among Faculty- Department of IT

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Minutes of the meeting of the Board of Studies in Information Technology held on 15th June 2022.

AGENDA:

- Welcome address by Chairman – BOS
- Ratification of proposed Course Structure and syllabi of III,IV B.Tech. R20 regulation (Refer Annexure I)
- Discussion on ratification of new courses. (Refer Annexure II)
- Discussion on ratification of course objectives, course outcomes and CO-PO Mappings(Refer Annexure IV)
- Discussion on ATR as per suggestions given by stakeholders(Refer Annexure III)
- Finalization of textbooks and reference books.
- Ratification of proposed model papers for internal and external examinations of both theory and laboratory courses.
- Discussion on proposed value added courses and ratification of the same.
- Any other item.
- Vote of Thanks.

24

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RESOLUTIONS:

1. Considered item No.2-

Following suggestions are given regarding course structure of III,IV B.Tech. R20 regulation

- In III B.Tech I sem, laboratory course "Data Mining Techniques with python" title must be revise as "**Data Mining Techniques**".
- In III B.Tech II sem, Professional elective II course "Mobile Computing" must be replaced with the course "**Wireless Sensor Networks**".
- In IV B.Tech I sem, Professional elective II course "Advanced Databases" must be replaced with the course "**Human Computer Interaction**".
- In IV/I Sem, Profesisonal Elective-V course "Ethical Hacking" to be substituted with "**Reinforcement Learning**".
- Replace open elective-IV course in IV/I sem offered by Mechanical Engineering Department "Sustainable Energy Technologies" with "**Industrial Robotics**".
- In IV/I Sem, the title of Skill Oriented course "Pyhton: Deep Learning" must be revised as "**Deep Learning using Python**".

Following suggestions are given regarding syllabus of III,IV B.Tech. R20 regulation

- In III/I Sem, Professional Elective-I course "**Agile Software Process**", contents in Unit-IV must be eliminated and contents in Unit-V must be shifted to Unit-IV and more detailed concepts on Scrum must be included in Unit-V

2. Considered item No.3-

The Members ratified 29 new courses for III,IV B.Tech. R20.

3. Considered item No.4-

The members ratified course objectives, course outcomes and CO-PO mappings of all the courses in the course structure

4. Considered item No.5-

Based on the ATR, The suggestions given by the stakeholders are included.

5. Considered item No.6-

Recommended the text books and reference books for II year courses.

6. Considered item No.7-

Model papers for internal and external examinations of both theory and laboratory courses are reviewed and ratified.

↓

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7. Considered item No.8-

Reviewed the list of Value Added Courses and ratified the same.

8. Considered item No.9-

Entrepreneurship courses, Skill oriented and Employability courses included as per the previous BOS meeting suggestions.



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DEPARTMENT OF INFORMATION TECHNOLOGY

Date: 21-09-2021

CIRCULAR

All the faculty of Department of Information Technology are hereby informed that a meeting of the Board of studies of our department will be held on 25th Sept 2021.

You are requested to attend the same. Following is the agenda.

AGENDA:

- Welcome address by Chairman – BOS
- Ratification of proposed Course Structure and syllabi of II B.Tech. R20 regulation (Refer Annexure I)
- Discussion on ratification of new courses. (Refer Annexure II)
- Discussion on ratification of course objectives, course outcomes and CO-PO Mappings (Refer Annexure IV)
- Discussion on ATR as per suggestions given by stakeholders (Refer Annexure III)
- Finalization of textbooks and reference books.
- Ratification of proposed model papers for internal and external examinations of both theory and laboratory courses.
- Discussion on proposed value added courses and ratification of the same.
- Any other item.
- Vote of Thanks.

Circulation among Faculty- Department of IT

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Minutes of the meeting of the Board of Studies in Information Technology held on 25th September 2021.

AGENDA:

- Welcome address by Chairman – BOS
- Ratification of proposed Course Structure and syllabi of II B.Tech. R20 regulation (Refer Annexure I)
- **Discussion on ratification of new courses. (Refer Annexure II)**
- Discussion on ratification of course objectives, course outcomes and CO-PO Mappings (Refer Annexure IV)
- Discussion on ATR as per suggestions given by stakeholders (Refer Annexure III)
- Finalization of textbooks and reference books.
- Ratification of proposed model papers for internal and external examinations of both theory and laboratory courses.
- Discussion on proposed value added courses and ratification of the same.
- Any other item.
- Vote of Thanks.

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RESOLUTIONS:

1. Considered item No.2-

Course Structure is designed for all semesters.

Syllabi is framed for the following courses till II B.Tech II Semester and ratified the same.

- The course code for the course Software Engineering in II B.Tech I Semester is to be provided by the Department of IT and the course code for the course Mathematical Foundations for Computer Science in II B.Tech I Semester is to be provided by the Department of CSE.
- Skill Oriented Courses I and II in II/I and II/II Semester namely Distributed Technologies – NoSQL, and MongoDB respectively are incorporated as NoSQL Databases, Skill Oriented Courses I in II/I.
- Free Open Source Software Laboratory in II B.Tech I Semester is substituted with R Programming Laboratory.
- Skill Oriented Courses II in II B.Tech II Semester namely MongoDB is substituted with Web Application Development using Full Stack – Frontend Development.
- For Database Management Course in II B.Tech I Semester,
 - a) ER Model concept from Unit-III is moved to Unit-I.
 - b) Indexing Techniques topics from Unit-V is moved to Unit-III.
- The following are the aspects to be considered for the evaluation of Skill Oriented courses –
 - a) Day to day assessment
 - b) Skill test
 - c) A single project to be assigned applying the concepts covered in Skill Oriented Course I and II.

2. Considered item No.3-

The Members ratified 03 new courses for II B.Tech.R20.

3. Considered item No.4-

The members ratified course objectives, course outcomes and CO-PO mappings of all the courses in the course structure.

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4. Considered item No.5-

Based on the ATR, The suggestions given by the stakeholders are included.

5. Considered item No.6-

Recommended the text books and reference books for II year courses.

6. Considered item No.7-

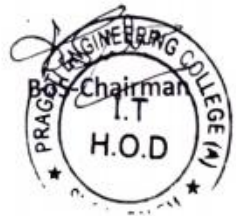
Model papers for internal and external examinations of both theory and laboratory courses are reviewed and ratified.

7. Considered item No.8-

Reviewed the list of Value Added Courses and ratified the same.

8. Considered item No.9-

Entrepreneurship courses, Skill oriented and Employability courses included as per the previous BOS meeting suggestions.



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DEPARTMENT OF CIVIL ENGINEERING

PEC/CE/Circular/R20-BOS/1

26-12-2020

CIRCULAR

All the members of Board of Studies (BOS) are hereby informed that there will be a meeting on 01-01-2021 for discussing the following agenda.

AGENDA:

1. Welcome Address by Chairman-BOS
2. Discussion on ratification of new courses
3. Discussion on proposed R-20 Course Structure and ratify the Ist year Semester I&II course structure.
4. Discussion on proposed B.Tech First Year course syllabi and ratification of the same.
5. Discussion on ratification of course objectives, course outcomes and CO-PO mapping.
6. Finalization of text books and reference books.
7. Discussion on ATR as per suggestions given by stakeholders.
8. Any other item.

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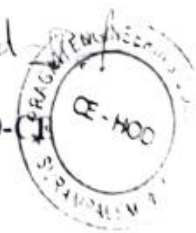
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DEPARTMENT OF CIVIL ENGINEERING

Minutes of meeting-1" BOS R-20

Minutes of the meeting of the Board of Studies in Civil Engineering held on 1st January, 2021 in the Department of Civil Engineering.

Members Present:

S.NO	Recommended Composition	Name
1	Head of the Department concerned (Chairman)	Mr. M. Sandeep, M.Tech (PhD)
2	The entire faculty of each specialization	All Faculty of the Department
3	Two experts in the subject from outside the college to be nominated by the academic Council	1. Dr. S. Murthy D. Prof of CE, IIT Bombay Ph: 09869607604 2. Dr. Rama Seshu. Prof of CE, NIT Warangal Ph: 09490164794
4	One expert to be nominated by the vice -chancellor from a panel of six recommended by the college principal.	Dr. P. Subba Rao, Prof of CE, JNTU Kakinada Ph: 7093925555
5	One representative from industry corporate sector allied area relating to placement.	-----
6	One postgraduate meritorious alumnus to be nominated by the principal.	-----

AGENDA:

1. Welcome Address by Chairman-BOS

2. Discussion on ratification of new courses

3. Discussion on proposed R-20 Course Structure and ratify the course structure

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- 4 Discussion on proposed B Tech First Year course syllabi and ratification of the same
- 5 Discussion on ratification of course objectives, course outcomes and C O PO mapping
- 6 Finalisation of text books and reference books
- 7 Discussion on ATR as per suggestions given by stakeholders
- 8 Any other item.

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RESOLUTIONS:

Date: (23-01-2021)

1. The Members ratified course objective, course outcomes and CO-PO mapping of all the course structure
2. Integrated Course of Engineering Geology theory and lab is Replaced with Basic of Electrical and Electronics Engineering theory and lab in Ist year I sem as Engineering geology is too early for the students.
3. Building planning and computer aided laboratory should be combined with Building planning and drawing laboratory in II year-II Sem instead of I year – I sem.
4. Civil Engineering workshop has to be included instead of building planning and computer aided laboratory
5. Name of Strength of Materials – I subject has to be changed as Strength of materials
6. Name of Strength of Materials – II subject has to be changed as Solid mechanics
7. Based on the ATR the suggestions given by the stakeholders are included (please refer Annexure-III)

SUGGESTIONS:

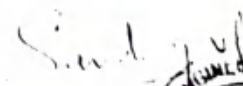
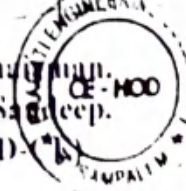
1. Modification in evaluation pattern for Laboratory if possible.
2. Communicate to BOS members after confirming with JNTU regarding change in evaluation pattern for laboratory, if any.
3. Mechanics of Joints topic should be included with Engineering Mechanics
4. Suggestion was given to make MOU's with industries regarding student internships.
5. Suggested to keep an official letter to the government from college that Industries have to invite the students for Internships.
6. CAD has to be included with Engineering Drawing laboratory.
7. Construction material testing experiments can be included with SOM – I laboratory

Note:

In the BOS of R-20 Ist meeting, course structure of I year Ist Sem and IInd Sem is ratified and further discussions and suggestions given for II-I, II-II, III-I, III-II, IV-I, IV-II will be done in up-coming BOS Meetings

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BOS- Chairman
Mr. M. S. Deep.
(HOD-)



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DEPARTMENT OF CIVIL ENGINEERING

28-01-2024

PEC/CE/Circular/R19-BOS/2

CIRCULAR

All the members of Board of Studies (BOS) are here by informed that there will be a meeting on 03-02-2024 for discussing the following agenda.

AGENDA:

1. Welcome Address by Chairman-BOS
2. Discussion on Ratification of new courses.
3. Discussion on proposed R-19 Course Structure and ratification of IIIrd and IVth year syllabus.
4. Discussion on ratification of course objectives, course outcomes and CO-PO mapping.
5. Discussion on proposed B.Tech IIIrd & IVth Year course syllabi and ratification of the same
6. Discussion on ATR as per suggestions given by stakeholders.
7. Vote of thanks.



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DEPARTMENT OF CIVIL ENGINEERING

Minutes of meeting- IInd BOS R-19

Minutes of the meeting of the Board of Studies in **Civil Engineering** held on **3rd February, 2021** in the Department of **Civil Engineering**.

Members Present:

S. No	Recommended Composition	Name	Signature
1	Head of the Department concerned (Chairman)	Sri Mr. M. Sandeep	<i>Sandeep</i>
2	University Nominee	Dr. P. Subba Rao	<i>Subba Rao</i>
3	External Nominee	Dr. D. Satyanarayana Murthy	- online -
4	External Nominee	Dr. D. Rama Seshu	- online -
5	Internal Academic Representative	Mr. V. Manideep	<i>Manideep</i>
6	Internal Academic Representative	Mr. A. Raviteja	<i>A. Raviteja</i>
7	Internal Academic Representative	Mr. A Roger Antony	<i>A. Roger Antony</i>

Agenda:

1. Welcome Address by Chairman-BOS
2. Discussion on Ratification of new courses.
3. Discussion on proposed R+19 Course Structure and ratification of IIIrd and IVth year syllabus.
4. Discussion on ratification of course objectives, course outcomes and CO-PO mapping.
5. Discussion on proposed B.Tech IIIrd & IVth Year course syllabi and ratification of the same
6. Discussion on ATR as per suggestions given by stakeholders.
7. Vote of thanks.

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RESOLUTIONS:

Date: (03-02-2021)

1. The members ratified 13 number of new courses for regulation R19
2. The members ratified course objective, course outcomes and CO-PO mapping of all the course structure.
3. Irrigation drawing laboratory name should be changed as "Detailing and Drawing of Civil Structures Laboratory".
4. Steel and Concrete structural elements can be added to the syllabus of "Detailing and Drawing Civil Structures Laboratory".
5. **Advanced Foundation Engineering** subject should be removed since the syllabus is heavy for B.Tech level, as there are 3 courses for soil engineering.
6. As **Advanced Foundation Engineering** course and its course code has been ratified in course structure in 1st meeting of BOS R19, so remove only syllabus from course structure.
7. Course outcome should be framed in brief and they should be based on Blooms Taxonomy Levels.
8. Publication year and publisher name of text books has to be mentioned in the syllabus.
9. Small experiments can be combined as a single experiment in all laboratory subjects.
10. Add Design of truss and design of plate girder in "Design & Detailing of Steel Structures" subject.
11. Add "Introduction to Gantry girder" to the subject "Design & Detailing of steel structures".
12. BOD determination experiment has to be added to the "Environmental Engineering Laboratory".
13. Remove pre-requisites for all elective subjects.
14. Based on the ATR suggestions given by the stake holders are included (Please refer Annexure- III)


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BOS- Chairman.
Mr. M. Sandeep
(HOD-CE)





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Department of Electrical and Electronics Engineering

Date: 18/01/2021

CIRCULAR

All the members of Board of Studies (BOS) are hereby informed that there will be a meeting on 20th January 2021 to discuss the following agenda.

AGENDA:

1. Welcome Address by Chairman-BOS.
2. Common BOS Guidelines.
3. Discussion on proposed R-19 B. Tech EEE Third year, Fourth year syllabi and ratification of the same.
4. Discussion on proposed R-19 B.Tech EEE Offered Open Electives for Other Departments syllabi and ratification of the same.
5. Discussion on proposed R-20 B.Tech EEE First Year course structure, syllabi and ratification of the same.
6. Discussion on proposed R-20, EEE offered Inter Departmental First Year courses syllabi and ratification of the same
7. Discussion on ratification of course objectives, Course outcomes and CO-PO mapping.
8. Discussion on ratification of new courses in R20 regulation.
9. Finalization of text books and reference books.
10. Ratification of the proposed model papers for internal and external examinations of both theory and laboratory courses (R-20)
11. Discussion on ATR as per suggestions given by stakeholders.
12. Any other item.



Anshyanarayana
Chairman- BOS

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Item No:1 Welcome Address by Chairman – Board of Studies

On behalf of team EEE, I extend a warm welcome to you all for the first meeting of Board of Studies. I deem it a privilege in welcoming the dignitaries for the Board of Studies – EEE Dept.

- Dr. Srirama Srinivas, Professor of EE, IIT Madras, Chennai.
- Dr. P. Mallikarjuna Rao, Professor of EE, UCE, Andhra University
- Dr. K. Ravindra, Associate Professor of EEE, JNTUK, Kakinada
- Sri. B. Pradeep Raja Vardhan, Assistant Manager., Reliance Jio Infocomm Ltd., Visakhapatnam
- Members presented from the department of EEE of PEC.

Year of Establishment	2002 (B.Tech), 2011 (M.Tech)
AICTE Approval No	F. No. 730-50-311(E)/ET/2001
Duration of Programme	04 Years (B.Tech) & 02 Years (M.Tech)
Sanctioned Intake	B. Tech : EEE 60 from 2002-03 to the year 2011-12 120 from 2012-13 onwards M.Tech (PE&ED): 18 from 2011 onwards
Affiliation	Permanently affiliated to Jawaharlal Nehru Technological University, Kakinada

- | | |
|--|--|
| Kakinada | |
| <ul style="list-style-type: none"> ✚ The Electrical and Electronics Engineering Department of this college is started with the objective of giving best "Technical Education" to aspire power engineers. This department provides an environment where young minds can grow to their full potential and become strong, principled and committed citizens of the country. ✚ This department faculty consists of highly experienced Professors, well qualified & dedicated Associate Professors and young & dynamic Assistant Professors who work with commitment to give their best to the young Engineers. | |

ACHIEVEMENTS OF THE DEPARTMENT

- o Department of EEE successfully conducted two online AICTE sponsored Short Term Training Programs on "RECENT TRENDS IN ELECTRIC VEHICLES " in the month of November 2020 and December 2020, with sanctioned amount of 1.54 lacks.
- o AICTE sanctioned a grant of 11.06 lacks for MODROBs project on the title of "Voltage sag/swell mitigation using FPGA Controller based Unified Power quality Conditioner"
- o AICTE-ISTE sanctioned to conduct three online Induction/Refresher Programs on "Hybrid Energy Storage Systems", will be conducted before May 2021.

BEST PRACTICES

- ST PRACTICES**
- ❖ Consistent Academic performance in End Examination Results.
 - ❖ Placements and higher education are increasing year by year.
 - ❖ Student involvement in Project models.
 - ❖ All the students are encouraged to present their innovative ideas.
 - ❖ Releasing department News Letters in half yearly mode since 2007.
 - ❖ Workshops organized in the latest areas of Electrical Engineering.
 - ❖ Students are encouraged to undergo industrial training and internships.
 - ❖ Industrial visits provided once in a semester for students.

FUTURE PLANS

- UTURE PLANS**
- To establish center of excellence in one or more thrust areas of Electrical Engineering.
 - To enter into MOUs with reputed academic and Industrial organizations.
 - To establish research oriented laboratories.
 - To achieve 90% and above result.
 - To achieve 100% placements among eligible candidates through campus selections.

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RESOLUTIONS TAKEN:

1. Considered Item No. 3.

Resolved to ratify the proposed syllabi of following **courses** of third year and final year B.Tech (R-19 regulations) along with course objectives, course outcomes.

S. No.	Name of the Programme	Name of the Course	Year and Semester
1.	B. Tech (R-19)	Electrical Power Transmission Systems	III-I EEE
2.		Power Electronics	III-I EEE
3.		Digital Control Systems	III-I EEE
4.		Electrical Machines-II Laboratory	III-I EEE
5.		Control Systems Laboratory	III-I EEE
6.		Power Electronic Controllers and Drives	III-II EEE
7.		Power System Analysis	III-II EEE
8.		Electrical Distribution System	III-II EEE
9.		Artificial Intelligence Techniques	III-II EEE
10.		Electrical Machine Modeling and Analysis	III-II EEE
11.		Advanced Control Systems	III-II EEE
12.		Power Electronics Laboratory	III-II EEE
13.		Utilization of Electrical Energy	IV-I EEE
14.		Renewable Energy Sources	IV-I EEE
15.		Power System Protection	IV-I EEE
16.		High Voltage Engineering	IV-I EEE
17.		Energy audit, conservation and Management	IV-I EEE
18.		Electrical Machine Design	IV-I EEE
19.		HVDC Transmission	IV-I EEE
20.		Power System and Simulation Laboratory	IV-I EEE
21.		Electrical Measurement and instrument Laboratory	IV-I EEE
22.		Power System Operation and Control	IV-II EEE
23.		Electric Power Quality	IV-II EEE
24.		Hybrid Electric Vehicles	IV-II EEE
25.		Special Electrical Machines	IV-II EEE
26.		Advanced Power Converters	IV-II EEE
27.		Smart Grid	IV-II EEE
28.		Power System Deregulation	IV-II EEE
29.		PLC and SCADA	IV-II EEE
30.		Flexible AC Transmission Systems (FACTS)	IV-II EEE

The approved syllabi are enclosed herewith. (Annexure-I for R-19 B.Tech EEE III & IV Year Syllabi)

2. Considered Item No. 4

Resolved to ratify the proposed syllabi of following **courses** of EEE Offered Open Electives For other Departments (R-19 regulations) along with course objectives, course outcomes.

S. No.	Name of the Programme	Name of the Course	Year and Semester
1.	B. Tech (R-19)	Energy audit, conservation and Management	III-I Mechanical, ECE, CSE and IT

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2.		Power Safety and management	III-II CIVIL., Mechanical, ECE, CSE and IT
3.		Power Electronics	IV-I Mechanical, ECE, CSE and IT

The approved syllabi are enclosed herewith. (Annexure-II for EEE Offered Open Electives For Other Departments).

3. Considered Item No. 5.

Resolved to ratify the proposed R-20 **course structure** and syllabi for B.Tech programme for first year and first and second semesters.

The approved R-20 **course structures** syllabi are enclosed herewith. (Annexure-III for R-20 B.Tech).

S. No.	Name of the Programme	Name of the Course	Year and Semester
1.	B. Tech	Electrical Engineering workshop	I-I EEE
2.	(R-20)	Electrical Circuit Analysis-I	I-II EEE

4. Considered Item No. 6.

Resolved to ratify the proposed Inter Departmental First Year courses (R-20), syllabi.

The approved Inter Departmental First Year courses (R-20), syllabi are enclosed herewith. (Annexure-IV for R-20 B.Tech).

S. No.	Name of the Programme	Name of the Course	Year and Semester
1.	B. Tech (R-20)	Basic Electrical and Electronics Engineering	I-II ME
2.		Basic Electrical and Electronics Engineering Lab	I-II ME
3.		Basic Electrical Engineering	I-II ECE
4.		Basic Electrical Engineering Laboratory	I-II ECE

5. Considered Item No. 7.

The members ratified course objectives, course outcomes and CO-PO mapping of all the courses in the course structure

6. Considered Item No. 8.

The members ratified 17 new courses for III & IV year in R-19 regulation and 3 new courses for I year in R20 regulation. The details are enclosed in Annexure V.

7. Considered Item No. 9.

Resolved to ratify the text books and reference books as mentioned in the Item Nos. 3,4,5 and 6

8. Considered Item No. 10.

Resolved to ratify the proposed model papers for internal and external examinations of both theory and laboratory courses are enclosed herewith. (Annexure-VI(a), VI(b), VI(c), VI(d) and VI(e)).

9. Considered Item No. 11.

Based on the ATR, the suggestions given by the stakeholders are included. The details are enclosed in Annexure VII.


10. Considered Item No. 12.

i. Resolved to conduct the BOS-meeting at least once in a year.

ii. Resolved to specify the subject codes for all courses in B. Tech (R-20) programme.

11. As per the suggestions given in earlier BOS, Entrepreneurship course is introduced.

Finally Chairman of BOS thanked all the members for their valuable inputs and active participation in the meeting.


Dr. K. Sathyanarayana
Chairman- BOS

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DEPARTMENT OF MECHANICAL ENGINEERING

Date: 18-01-2021

CIRCULAR

All the members of Board of Studies(BoS) are hereby informed that there will be a meeting on 20th January 2021 for discussing the following agenda.

Agenda:

1. Discussion on proposed course structure R20 regulations of B.Tech First Year and ratification of the same.
2. Discussion on proposed B.Tech Third Year and Fourth Year courses syllabi of R19 regulations & B.Tech First Year courses syllabi of R20 regulations and ratification of the same.
3. Discussion on ratification of Course Objectives, Course Outcomes and CO-PO mapping.
4. Ratification of the proposed model papers for internal and external examination of both theory and laboratory courses.
5. Finalization of text books and reference books.
6. Discussion on ratification of new courses introduced in R19 Regulation.
7. Discussion on ATR as per suggestions given by stake holders.
8. Any other item.

Copy to:

1. All members of BoS.
2. Department circular file.



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DEPARTMENT OF MECHANICAL ENGINEERING

Date: 20-01-2021

Minutes of meeting of B.Tech & M.Tech Board of Studies (BoS) of Mechanical Engineering conducted on 20th January 2021 for approval/ratification of R19 & R20 regulations.

Members Present:

BOS-CHAIRMAN

Dr. B.S.V. Rama Rao

Professor and Hod

Mechanical Engineering Department

Pragati Engineering College

UNIVERSITY NOMINEE

Dr. M. Kumara Swamy

Associate Professor

University College Of Engineering, JNTUK

kmpalli@jntucek.ac.in

9908295810

EXTERNAL-EXPERT

Dr. Ch. Srinivasa Rao

Professor

Department Of Mechanical Engineering

University College of Engineering

Andhra University

9556713217

Dr. E. Anil Kumar

Professor

Department Of Mechanical Engineering

IIT TIRUPATI

anil@iittp.ac.in

8772503405

INTERNAL MEMBERS

- | | |
|------------------------|------------------|
| • Dr. S. Sambhu Prasad | - Faculty Member |
| • Dr. R. Dharmalingam | - Faculty Member |
| • Dr. G. Satish | - Faculty Member |
| • Mr. G. Avinash | - Faculty Member |
| • Mr. D.J. Johnson | - Faculty Member |
| • Mr. M. Sunil Raj | - Faculty Member |
| • Mr. G.V.N. Santhosh | - Faculty Member |
| • Mrs. K. Aravinda | - Faculty Member |

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Agenda:

1. Discussion on proposed course structure R20 regulations of B.Tech First Year and ratification of the same.
2. Discussion on proposed B.Tech Third Year and Fourth Year courses syllabi of R19 regulations & B.Tech First Year courses syllabi of R20 regulations and ratification of the same.
3. Discussion on ratification of Course Objectives, Course Outcomes and CO-PO mapping.
4. Ratification of the proposed model papers for internal and external examination of both theory and laboratory courses.
5. Finalization of text books and reference books.
6. Discussion on ratification of new courses introduced in R19 Regulation.
7. Discussion on ATR as per suggestions given by stake holders.
8. Any other item.

Proceedings:

- The meeting began at 10.00AM in the R&D Laboratory. The Chairman of the Board Dr.B.S.V. Rama Rao welcomed all the members for the meeting.
- With respect to point 2 of agenda, the following changes were suggested in B.Tech syllabi:
 - Suggested to verify the pre-requisite for Automation in Manufacturing course.
 - Suggested to include the topics 'Metrology of surfaces and Advances in metrology' in Metrology course.
- With respect to point 3 in agenda the experts ratified the Course Objectives, Course Outcomes and CO-PO mapping for all the courses in the course structure.
- With respect to point 4 in agenda, the experts suggested to include "Turbines, Compressors and Fans by S.M. Yahya- McGraw Hill Publications' textbook for IC Engines and Turbo Machinery course.
- Experts suggested more focus should be on skill oriented and employability courses should be included

Resolutions:

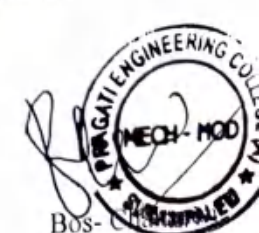
The following resolutions have been made in the meeting

- The first year course structure of R20 regulations of B.Tech is approved without any modifications.
- The first year syllabus for B.Tech of R20 regulations is accepted without any modifications and the third and fourth year syllabus of R19 regulations of B.Tech was thoroughly discussed, finalized and approved. BOS Chairman is authorized to endorse the syllabus.
- The proposed model papers for internal and external examination of both theory and laboratory courses were discussed and ratified.
- It is resolved to have only two text books and up to five reference books for all the courses to the possible extent.
- The members ratified 03 new courses for R20 regulation.
- Based on the ATR the suggestions given by the stake holders are included.
- The members decided to convey the same to Academic Council members for approval. The meeting came to an end with vote of thanks.

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[Signature]

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

18-01-2021

PFC/ECE/Circular/BoS/2019-20/1

CIRCULAR

All the members of Board of Studies (BoS) are hereby informed that there will be a meeting on 21-01-2021 for discussing the following agenda.

Agenda:

1. Welcome Address by BoS-Chairman.
2. Ratification of III- and IV-years syllabus of R19 regulation for B Tech program.
3. Ratification of I year R-20 regulation course structure and syllabus for B Tech Program.
4. Discussion of ratification of new courses syllabi.
5. Discussion of ratification of course objectives, course outcomes, and CO-PO mapping
6. Ratification of the proposed model papers for internal and external examinations of theory courses.
7. Finalization of text books and reference books.
8. Discussion of action taken report as per suggestions given by stake holders.
9. Any other item

BoS Chairman

HOD-ECE

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

22-01-2021

The Department of Electronics and Communication Engineering 5th BoS meeting held on 21-01-2021. The following are the Resolutions and suggestion given by BoS experts.

RESOLUTIONS:

Considered Item no 2:

It is resolved to ratify the syllabi of R-19 regulation B Tech III and IV-year courses with the following modifications

III Year Courses:

1. Syllabus of Digital communications course and Information theory and coding course should be different. Remove all coding techniques from Digital Communications and add in Information theory and coding.
2. PLL applications and ADC converter experiments should be included in experiments list in Integrated Circuits laboratory course.
3. IoT related experiment should be included, PART B and PART C should be compulsory experiments in Microprocessors and Microcontrollers laboratory course.
4. Introduction to Computational tools concept should be included in Microwave Engineering course.
5. All the experiments in Microwave Engineering laboratory should be based on design and evaluation mechanism.
6. Rest of the courses are ratified as suggested by DC and PAC.

IV Year Courses:

1. Voice over data communication, network security and cryptography concepts should be included in Data Communications & Computer Networks course.
2. Video Processing protocols concept should be included in Digital Image Processing Course.
3. Signal transmission in transducers and Sensor networks concepts should be included in Electronic Measurements and Instrumentation course.
4. High Speed Devices threats concepts should be included in CPLD and FPGA Architecture course.

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5. TinyOS, Actuator concepts, Energy protocols should be included in Wireless Sensors and Actuator Networks course
6. Thermocouple experiment should be included in Electronic Measurements and Instrumentation Laboratory course.
7. Rests of the courses are ratified as suggested by DC and PAC.

Courses Offered to other branches/Open electives:

1. Minor modifications are suggested in the courses Linear and Digital IC Applications Laboratory, RFID Sensors and Data Acquisition.
2. Rest of the courses are ratified as suggested by DC and PAC.

Considered Item no 3:

1. It is resolved to ratify the year R-20 regulation course structure and syllabus for B-Tech Program without any modifications.

Considered Item no 4:

1. Total 26 new Courses were introduced in R19 Course structure of III and IV Year and their syllabus is ratified.
2. The number new courses introduced in R20 Course structure are 44 courses

Considered Item no 5:

1. Course objectives, Course outcomes and CO-PO mapping were reviewed and advised faculty members to verify the mapping again,

Considered Item no 6:

1. It is resolved to ratify the proposed internal and external examination question papers for R-20 regulation courses.
2. It is also suggested to identify examiners from reputed institutions like IITs, NITS, Reputed Universities and ratified faculty from Autonomous college (Preferably Doctorates) for Paper Valuation for end semester examination

Considered Item no 7:

1. It is resolved to include 2 text books and 3 reference books for every course of III and IV year in R-19 course structure.




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Considered Item no 8:

1. BoS Chairman presented Action Taken report (ATR) on Curriculum feedback for Academic Year 2019-20 for discussion.
2. Based on the ATR , BoS Experts Suggested to incorporate Internship course, Skill oriented courses, entrepreneurship course as mandatory in R20 Course structure

Suggestions:

1. Fundamentals should be strong and methodologies adopted should enrich the knowledge of students.
2. Software Defined Radio should be procured for doing communication projects.
3. Every student alone should design and construct a mini project covering advanced topics.
4. Every lab must be on design oriented.



BoS Chairman
(Dr.D.Nagesh)

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Date: 17-01-2021

CIRCULAR

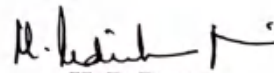
All the members of Board of Studies (BoS) are here by informed that there will be a meeting on 20th January 2021 for discussing the following agenda.

Agenda for the 5th Board of Studies Meeting:

1. Welcome Address by BOS-Chairman
2. Ratification of III and IV year syllabus of R19 regulation for B. Tech (CSE) program.
3. Ratification of proposed B. Tech First Year Course Structure of B. Tech (CSE), B. Tech (CSE with Specialization of Artificial Intelligence and Machine Learning), B. Tech (CSE with Specialization of Artificial Intelligence) and B. Tech (CSE with Specialization of Data Science) R20 regulation.
4. Ratification of I year syllabus of B. Tech (CSE), B. Tech (CSE with Specialization of Artificial Intelligence and Machine Learning), B. Tech (CSE with Specialization of Artificial Intelligence) and B. Tech (CSE with Specialization of Data Science) R20 regulation.
5. Discussion on ratification of new courses introduced in R19 Regulation.
6. Discussion on ratification of Course Objectives, Course Outcomes and CO-PO Mapping.
7. Ratification of the proposed model papers for internal and external examination of both theory and laboratory courses for R20 regulation.
8. Ratification of the platforms for MOOCs courses and Industry approved courses for R19 regulation.
9. Ratification of Honors & Minors course for R20 regulation.
10. Finalization of text books and reference books.
11. Discussion on ATR as per suggestions given by Stakeholders (Please Refer Annexure-IV).
12. Any other item.
13. Vote of Thanks.

Copy to:

1. All members of BoS.
2. Department circular file.


HoD-Dept.



1 of 1

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Date: 20-01-2021

Minutes of meeting of B. Tech Board of Studies (BoS) of Computer Science and Engineering conducted on 20th January 2021 for approval/ratification of R19 & R20 regulations.

Members Present:

1. Chairman-BoS

Dr. M. Radhika Mani
Professor & HOD,
Department of CSE,
Pragati Engineering College,
Surampalem, A. P.
India.

2. University Nominee

Dr. D. Haritha
Professor of CSE,
JNTUK, Kakinada, A. P.
India.

3. Subject Expert

Dr. D V L N Somayajulu
Professor of CSE,
NIT Warangal, Warangal, A. P.
India.

4. Industry Expert

Sri Praveen Kumar Y,
TCS-Hyderabad, India.

5. Alumni

Dr. V Srinivasa Naresh,
Professor of Computer Science and Engineering,
Sri Vasavi Engineering College,
Tadepalligudem, A. P.,
India.

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6 Faculty members of CSE Department

- i. Dr. A. Jaya Babu
- ii. Dr. A. Radha Krishna
- iii. Mrs. S. Rao Chintalapudi
- iv. Mr. M. V. Rajesh
- v. Mrs. G. Kumari
- vi. Mr. T. Soma Sekhar
- vii. Mrs. K. L. Viveka

Agenda:

1. Welcome Address by BOS-Chairman
2. Ratification of III and IV year syllabus of R19 regulation for B.Tech (CSE) program.
3. Ratification of proposed B. Tech First Year Course Structure of B. Tech (CSE), B. Tech (CSE with Specialization of Artificial Intelligence and Machine Learning), B. Tech (CSE with Specialization of Artificial Intelligence) and B. Tech (CSE with Specialization of Data Science) R20 regulation.
4. Ratification of I year syllabus of B. Tech (CSE), B. Tech (CSE with Specialization of Artificial Intelligence and Machine Learning), B. Tech (CSE with Specialization of Artificial Intelligence) and B. Tech (CSE with Specialization of Data Science) R20 regulation.
5. **Discussion on ratification of new courses introduced in R19 Regulation.**
6. Discussion on ratification of Course Objectives, Course Outcomes and CO-PO Mapping.
7. Ratification of the proposed model papers for internal and external examination of both theory and laboratory courses for R20 regulation.
8. Ratification of the platforms for MOOCs courses and Industry approved courses for R19 regulation.
9. Ratification of Honors & Minors course for R20 regulation.
10. Finalization of text books and reference books.
11. Discussion on ATR as per suggestions given by Stakeholders (Please Refer Annexure IV).
12. Any other item.
13. Vote of Thanks.

Suggestions:

The following suggestions given by the members of BoS.

- The external experts suggested to add new courses in the curriculum by following the AICTE guidelines.
- BoS members recommended the Head of the Department to conduct a Brainstorming session to bring the awareness among the faculty regarding the PEOs and PSOs for B. Tech AI&ML, AI and Data Science programs.
- BoS members suggested to have only two text books and up to five reference books for all the courses.
- BoS members suggested the model question papers for R20 regulation.
- The external experts suggested identifying courses that would enhance the employability skills and also suggested to add few Skill Oriented courses for the

2 of 11

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- As per NLP, it is pointed out that the following should be included in the curriculum.

Resolutions:

The following resolutions have been made in the meeting

- The following changes were suggested in B.Tech syllabus.
 - Replace few topics in ADSA Subject in III-I R19 Syllabus.
 - Include the year of publication for all the concerned subjects.
- The changes suggested were thoroughly discussed and the R20 regulation course structures of B.Tech (CSE), B.Tech (CSE with Specialization of Artificial Intelligence and Machine Learning), B.Tech (CSE with Specialization of Artificial Intelligence) and B.Tech (CSE with Specialization of Data Science) are finalized and approved.
- The syllabus for R19 regulation of B. Tech (CSE), R20 regulation of B. Tech (CSE), B. Tech (CSE with Specialization of Artificial Intelligence and Machine Learning), B. Tech (CSE with Specialization of Artificial Intelligence) and B. Tech (CSE with Specialization of Data Science) courses were thoroughly discussed, finalized and approved. BOS Chairman is authorized to endorse the syllabus.
- The members ratified course objectives, course outcomes and CO-PO mapping for all the courses in the course structure.
- The members ratified 06 new courses for B. Tech (CSE) for R19 regulation, 18 new courses for B. Tech (CSE with Specialization of Artificial Intelligence and Machine Learning) for R20 regulation, 18 new courses for B. Tech (CSE with Specialization of Artificial Intelligence) for R20 regulation and 18 new courses for B. Tech (CSE with Specialization of Data Science) for R20 regulation.
- The proposed model papers for internal and external examination of both theory and laboratory courses for R19 regulation were discussed and ratified.
- BoS members ratified the platforms for MOOCs courses and Industry approved courses for R19 regulation.
- Based on the ATR, the suggestions given by the stakeholders are included.
- The members decided to convey the same to Academic Council members for approval.

H. Sathish
BoS-Chairman



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DEPARTMENT OF INFORMATION TECHNOLOGY

Date: 18-01-2021

CIRCULAR

All the faculty of Department of Information Technology are hereby informed that a meeting of the Board of studies of our department will be held on 20th Jan 2021.

You are requested to attend the same. Following is the agenda.

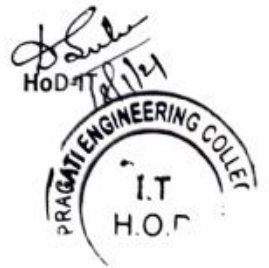
AGENDA:

- Welcome address by Chairman – BOS
- Ratification of III and IV years syllabus of R19 regulation for B.Tech program. regulation (Refer Annexure I)
- Ratification of Tentative Course Structure of I B.Tech R20 regulation.
- Ratification of I year syllabus of B.Tech R20 regulation. regulation (Refer Annexure I)
- Discussion on ratification of new courses. (Refer Annexure II)
- Discussion on ratification of course objectives, course outcomes and CO-PO Mappings(Refer Annexure IV)
- Discussion on ATR as per suggestions given by stakeholders(Refer Annexure III)
- Ratification of the proposed model papers for internal and external examinations of both theory and laboratory courses.
- Finalization of textbooks and reference books.
- Discussion on proposed value added courses and ratification of the same.
- Any other item.
- Vote of Thanks.

Circulation among Faculty- Department of IT

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Handwritten signature of the Principal.

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Minutes of the meeting of the Board of Studies in Information Technology held on 20th January 2021.

AGENDA:

- Welcome address by Chairman – BOS
- Ratification of III and IV years syllabus of R19 regulation for B.Tech program. regulation (Refer Annexure I)
- Ratification of Tentative Course Structure of I B.Tech R20 regulation.
- Ratification of I year syllabus of B.Tech R20 regulation. regulation (Refer Annexure I)
- Discussion on ratification of new courses. (Refer Annexure II)
- Discussion on ratification of course objectives, course outcomes and CO-PO Mappings(Refer Annexure IV)
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- Ratification of the proposed model papers for internal and external examinations of both theory and laboratory courses.
- Finalization of textbooks and reference books.
- Discussion on proposed value added courses and ratification of the same.
- Any other item.
- Vote of Thanks.

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RESOLUTIONS:

1. Considered item No.2-

Syllabi is framed for the following courses for III and IV B.Tech and ratified the same.

1. Software Testing
2. DevOps Laboratory
3. Cryptography and Network Security
4. Cryptography and Network Security Laboratory
5. Agile Methodologies
6. Big Data Technologies
7. Big Data Technologies Laboratory
8. Machine Learning
9. Blockchain Technology
10. High Performance Computing
11. SOA and Microservices
12. Medical Image Processing

2. Considered item No.3-

Reviewed course structure of I year R20 and ratified the same.

3. Considered item No.4-

Syllabi is framed for the following courses for I B.Tech R20 and ratified the same.

1. Data Structures
2. Data Structures Laboratory
3. Computer Engineering Workshop

4. Considered item No.5-

The Members ratified 08 new courses for R19, 01 new course for I B.Tech. R20

5. Considered item No. 6-

The members ratified course objectives, course outcomes and CO-PO mappings of all the courses in the course structure.

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6. Considered item No.7-

Based on the ATR, The suggestions given by the stakeholders are included.

7. Considered item No.8-

Ratification of the proposed model papers for internal and external examinations of both theory and laboratory courses.

8. Considered item No.9-

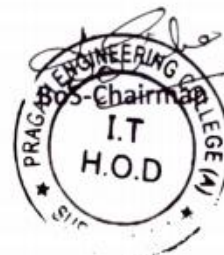
Recommended the text books and reference books for III and IV year courses.

9. Considered item No.10-

Reviewed the list of Value Added Courses and ratified the same.

10. Considered item No.11-

Members suggested that more focus should be on skill oriented and employability courses. As per NEP-2020, entrepreneurship courses should be add in curriculum.



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DEPARTMENT OF CIVIL ENGINEERING

27-07-2019

PEC/CE/Circular/R19-BOS/1

CIRCULAR

All the members of Board of Studies (BOS) are here by informed that there will be a meeting on 03-08-2019 and 04-08-2019 for discussing the following agenda.

AGENDA:

1. Welcome Address by Chairman-BOS
2. Discussion on Ratification of new courses.
3. Discussion on proposed R-19 Course Structure and ratify the final course structure.
4. Discussion on proposed B.Tech 1st and 2nd Year course syllabi and ratification of the same.
5. Discussion on ratification of course objectives, course outcomes and CO-PO mapping.
6. Ratification of the proposed model papers for internal and external examinations of both theory and laboratory courses.
7. Finalization of names of reputed institutions for setting question paper and valuation of answer scripts.
8. Finalization of text books and reference books.
9. Discussion on ATR as per suggestion given by stakeholders.
10. Any other item.

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The principal,

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DEPARTMENT OF CIVIL ENGINEERING

Minutes of meeting-1st BOS R-19

Minutes of the meeting of the Board of Studies in Civil Engineering held on 3rd & 4th August, 2019 in the Department of Civil Engineering.

Members Present:

S. No	Recommended Composition	Name
1	Head of the Department concerned (Chairman)	Dr. R V S Rama Krishna
2	University Nominee	Dr. M Swaroopa Rani
3	External Nominee	Dr. D. S. Murty
4	External Nominee	Dr. D. Rama Seshu
5	Internal Academic Representative	Mr .P.V Muthyalu
6	Internal Academic Representative	Mr. B. S. Ramji
7	Internal Academic Representative	Mrs. M Sri Lakshmi
8	Internal Academic Representative	Mr. G S V Brahamji

AGENDA:

1. Welcome Address by Chairman-BOS
2. Discussion on Ratification of new courses.
3. Discussion on proposed R-19 Course Structure and ratify the final course structure.
4. Discussion on proposed B.Tech 1st and 2nd Year course syllabi and ratification of the same.
5. Discussion on ratification of course objectives, course outcomes and CO-PO mapping.
6. Ratification of the proposed model papers for internal and external examinations of both theory and laboratory courses.
7. Finalization of names of reputed institutions for setting question paper and valuation of answer scripts.

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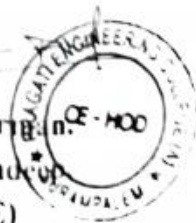
8. Finalization of text books and reference books
9. Discussion on ATR as per suggestion given by stakeholders
10. Any other item

RESOLUTIONS:

Date: (3-8-2019 & 4-8-2019)

1. The members ratified 3 number of new courses for regulation of R19.
2. The members ratified course objective, course outcomes and CO-PO mapping of all the course structure.
3. Building materials and Construction is renamed as Construction materials.
4. For building planning and drawing one lecture hour and four lab hours are to be assigned.
5. Surveying is renamed as Geodesy.
6. Surveying Laboratory is renamed as Geodesy Laboratory.
7. For socially relevant project one laboratory hour per week is suggested.
8. Soil mechanics is renamed as Geotechnical Engineering.
9. Engineering geology and Engineering geology lab are suggested to be in the same semester
10. Environmental Engineering-I & Environmental Engineering-II are suggested to be clubbed together as one course namely water supply and waste water engineering.
11. A New Course titled Geotechnical Engineering-II is introduced.
12. Waste Water Management course is renamed as industrial waste management course.
13. Solid and hazardous waste management is renamed as municipal solid waste management.
14. Earthquake Resistant Design is renamed as Earthquake Engineering.
15. For prerequisites it is to be mentioned as exposure to relevant subject.
16. Complete Details of Text books and Reference books are to be given.
17. For effective management of Open Elective and Professional Electives, it is suggested to limit number of registered students to 60 to 70.
18. Based on the ATR suggestions given by the stake holders are included (Please refer Annexure- III)

BOS- Chairperson
Mr. M. Sandeep
(HOD-CE)



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Department of Electrical and Electronics Engineering

Date: 01/08/2019

CIRCULAR

All the BOS members are requested to attend for the BOS meeting on 03.08.2019 and 04.08.2019 in the simulation lab of EEE Department regarding ratification of B.Tech and M.Tech (R-19 course structure and syllabi).

AGENDA:

1. Welcome Address by Chairman-BOS.
2. Discussion on proposed R-19 course structure of B. Tech & M.Tech and ratification of the same
3. Discussion on proposed R-19 B. Tech First Year and Second Year courses syllabi & M.Tech Subjects syllabi and ratification of the same.
4. Ratification of the proposed R-19 model papers for internal and external examinations of both theory and laboratory courses.
5. Discussion on ratification of course objectives, Course outcomes and CO-PO mapping.
6. Discussion on ratification of new courses in R19 regulation.
7. Discussion on ATR as per suggestions given by stakeholders.
8. Finalization of names of reputed institutions for setting question paper and valuation of answer scripts.
9. Finalization of text books and reference books.
10. Any other item.



Dr. K. Sathyanarayana
Chairman- BOS


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On behalf of team EEE, I extend a warm welcome to you all for the first meeting of Board of Studies. I deem it a privilege in welcoming the dignitaries for the Board of Studies – EEE Dept.

- Dr. Srirama Srinivas, Professor of EE, IIT Madras, Chennai.
- Dr. P. Mallikarjuna Rao, Professor of EE, UCE, Andhra University
- Dr. K. Ravindra, Associate Professor of EEE, JNTUK, Kakinada
- Sri. V. Mohan Raj Kumar, Assistant Vice President-Electrical, Reliance Infrastructure Limited, New Delhi
- Sri. B. Pradeep Raja Vardhan, Electrical Engineering Dept., Reliance Jio Infocomm Ltd., Visakhapatnam
- Members presented from the department of EEE of PEC.

Year of Establishment	2002 (B.Tech), 2011 (M.Tech)
AICTE Approval No	F. No. 730-50-311(E)/ET/2001
Duration of Programme	04 Years (B.Tech) & 02 Years (M.Tech)
Sanctioned Intake	B. Tech : EEE 60 from 2002-03 to the year 2011-12 120 from 2012-13 onwards M.Tech (PE&ED): 18 from 2011 onwards
Affiliation	Permanently affiliated to Jawaharlal Nehru Technological University, Kakinada

- | | |
|--|----------|
| Animation | Kakinada |
| <ul style="list-style-type: none"> ✚ The Electrical and Electronics Engineering Department of this college is started with the objective of giving best "Technical Education" to aspire power engineers. This department provides an environment where young minds can grow to their full potential and become strong, principled and committed citizens of the country. ✚ This department faculty consists of highly experienced Professors, well qualified & dedicated Associate Professors and young & dynamic Assistant Professors who work with commitment to give their best to the young Engineers. | |

ACHIEVEMENTS OF THE DEPARTMENT

- Many students completed and are pursuing post graduate programs in premier institutes like IITs, NITs and INDIAN Universities.
- Alumni are placed in reputed organizations like Tata Motors, BARC, BHEL, L&T, IOCL, HCL etc.,
- Good numbers of students won prizes in inter collegiate tournaments.

- Many students completed and are pursuing post graduate programs in premier institutes like IITs, NITs and INDIAN Universities.
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- Good numbers of students won prizes in inter collegiate tournaments.

BEST PRACTICES

- ❖ Consistent Academic performance in End Examination Results.
- ❖ Placements and higher education are increasing year by year.
- ❖ Student involvement in Project models.
- ❖ All the students are encouraged to present their innovative ideas.
- ❖ Releasing department News Letters in half yearly mode since 2007.
- ❖ Workshops organized in the latest areas of Electrical Engineering.
- ❖ Students are encouraged to undergo industrial training and internships.
- ❖ Industrial visits provided once in a semester for students.

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FUTURE PLANS

- To establish center of excellence in one or more thrust areas of Electrical Engineering.
- To enter into MOUs with reputed academic and Industrial organizations.
- To establish research oriented laboratories.
- To achieve 90% and above result.
- To achieve 100% placements among eligible candidates through campus selections.

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RESOLUTIONS TAKEN:

1. Considered Item No. 2.

Resolved to ratify the proposed R-19 course structure for B.Tech and M. Tech programmes for all years and semesters.

The approved R-19 course structures are enclosed herewith. (Annexure-I for R-19 B.Tech and Annexure - II for R-19 M.Tech).

2. Considered Item No. 3.

Resolved to ratify the proposed syllabi of following courses of First year and Second year B. Tech and M. Tech Programmes (R-19) along with course objectives and course outcomes.

S. No.	Name of the Programme	Name of the Course	Year and Semester
1.	B. Tech	Basic Electrical Engineering	I-I ECE
2.		Electrical Circuit Analysis-I	I-II EEE
3.		Basic Electrical and Electronics Engineering	I-II ME, I-II CSE & I-II IT
4.		Electrical and IT Workshop	I-II EEE
5.		Basic Electrical and Electronics Engineering Lab	I-II CSE & I-II IT
6.		Basic Electrical Engineering Laboratory	I-II ECE
7.		Electrical Circuit Analysis-II	II-I EEE
8.		Electrical Machines - I	II-I EEE
9.		Electromagnetic Fields	II-I EEE
10.		Basic Electrical and Electronics Engineering	II-I CE
11.		Electrical Circuits Laboratory	II-I EEE
12.		Basic Electrical and Electronics Engineering Lab	II-I ME
13.		Electrical Machines-II	II-II EEE
14.		Control Systems	II-II EEE
15.		Electrical Power Generation and Distribution	II-II EEE
16.		Electrical Measurements and Instrumentation	II-II EEE
17.		Electrical Machines-I Laboratory	II-II EEE
18.	M. Tech	Electrical Machine Modeling and Analysis	I Semester PE&ED
19.		Analysis of Power Electronic Converters	I Semester PE&ED
20.		Power Electronic Control of DC Machines	I Semester PE&ED
21.		Flexible AC Transmission Systems	I Semester PE&ED
22.		Elective -I Modern Control Theory Power Quality Optimization Techniques	I Semester PE&ED
23.		Elective - II Energy Auditing, Conservation and Management Artificial Intelligence Techniques HVDC Transmission	I Semester PE&ED
24.		Power Converters Simulation laboratory	I Semester PE&ED

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25	Switched Mode Power Conversion	II Semester PE&ED
26	Power Electronic Control of AC Machines	II Semester PE&ED
27	Digital Controllers	II Semester PE&ED
28	Custom Power Devices	II Semester PE&ED
29	Elective - III Renewable Energy Systems Electrical Distribution Systems Reactive Power Compensation and Management	II Semester PE&ED
30	Elective - IV Smart Grid Technologies Special Machines Programmable Logic controllers and Applications	II Semester PE&ED
31	Power Converters and Drives laboratory	II Semester PE&ED

The approved syllabi are enclosed herewith. (Annexure-III, Annexure-IV for R-19 B.Tech and Annexure-V for R-19 M.Tech).

3. Considered Item No. 4.

Resolved to ratify the proposed **scheme of model papers** for Internal and external examinations (Theory & Lab) of both B. Tech and M. Tech (R-19) programmes.

The approved scheme of model papers are enclosed herewith. (Annexure -VI for B.Tech R-19 and Annexure - VII for M.Tech R-19).

4. Considered Item No. 5.

The members ratified course objectives, course outcomes and CO-PO mapping of all the Courses in the course structure.

5. Considered Item No. 6.

The members ratified 2 new courses in 1st year R-19 regulation.

6. Considered Item No. 7

Based on the ATR, the suggestions given by the stakeholders are included.

7. Considered Item No. 8.

Resolved to approve for setting of question papers and valuation of answer scripts by the reputed institutions including NITs, JNTUK, State level universities and Autonomous colleges.

8. Considered Item No. 9.

Resolved to ratify the text books and reference books as mentioned in the Item No. 3.
For all laboratories, lab manuals will be provided.

9. Considered Item No. 10.

- Resolved to conduct the BOS-meeting at least once in a year.
- Resolved to specify the subject codes for all courses in B. Tech (R-19) and M. Tech (R-19) programmes.

iii. Following suggestions are offered by the members

- Detailed schedule of Zero semester is to be provided

- b) Provide options to students to register for more number of courses (> 160 credits) to allow interested students to learn more.
- c) Suggested to give credits for courses under MOOCs.
- d) Bring all elective courses under a single basket and give option to the student to choose from them.
- e) Expressed disparity between course title and course outcome with respect to Socially relevant project (II year I semester). Suggested to resolve at institute level.
- f) Experts suggested that more focus should be on skill oriented and employability courses.
- g) As per the NEP-2020, Entrepreneurship course should be included.

Lathya Jayaram
Dr.K.Satyanarayana
Chairman BOS
PRAGATI ENGINEERING COLLEGE
SURAMPALEM

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DEPARTMENT OF MECHANICAL ENGINEERING

Date: 29-07-2019

CIRCULAR

All the members of Board of Studies (BoS) are hereby informed that there will be a meeting on 3rd and 4th August 2019 for discussing the following agenda.

Agenda:

1. Discussion on proposed course structure of R19 regulations of B.Tech & M.Tech and ratification of the same.
2. Discussion on proposed B.Tech First Year and Second Year courses syllabi & M.Tech courses syllabi and ratification of the same.
3. Discussion on ratification of new courses introduced in R19 Regulation.
4. Discussion on ratification of course objectives, course outcomes and CO-PO mapping.
5. Ratification of the proposed model papers for internal and external examination of both theory and laboratory courses.
6. Finalization of text books and reference books.
7. Discussion on ATR as per suggestions given by stake holder
8. Any other item.

Copy to:

1. All members of BoS.
2. Department circular file.



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DEPARTMENT OF MECHANICAL ENGINEERING

Date: 03-08-2019

Minutes of meeting of B.Tech & M.Tech Board of Studies (BoS) of Mechanical Engineering conducted on 3rd and 4th August 2019 for approval/ratification of R19 regulation.

Members Present:

BOS-CHAIRMAN

Dr. B.S.V. Rama Rao

Professor and Hod

Mechanical Engineering Department

Pragati Engineering College

UNIVERSITY NOMINEE

Dr. A. Swarna Kumari

Professor

University College Of Engineering, JNTUK

aruswara@yahoo.com

9948024844

EXTERNAL-EXPERT

Dr. Ch. Srinivasa Rao

Professor

Department Of Mechanical Engineering

University College of Engineering

Andhra University

9556713217

Dr. E. Anil Kumar

Professor

Department Of Mechanical Engineering

IIT TIRUPATI

anil@iittp.ac.in

8772503405

INTERNAL MEMBERS

- | | |
|-----------------------------|------------------|
| • Dr. S. Sambhu Prasad | - Faculty Member |
| • Dr. G. Satish | - Faculty Member |
| • Mr. P. Sukumar | - Faculty Member |
| • Mr. G. Avinash | - Faculty Member |
| • Mrs. Ch. Vasantha Lakshmi | - Faculty Member |
| • Mr. D.J. Johnson | - Faculty Member |
| • Mr. A.V. Ramana Rao | - Faculty Member |



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Agenda:

1. Discussion on proposed course structure of R19 regulations of B.Tech & M.Tech and ratification of the same.
2. Discussion on proposed B.Tech First Year and Second Year courses syllabi & M.Tech courses syllabi and ratification of the same.
3. Discussion on ratification of new courses introduced in R19 Regulation.
4. Discussion on ratification of course objectives, course outcomes and CO-PO mapping.
5. Ratification of the proposed model papers for internal and external examination of both theory and laboratory courses.
6. Finalization of text books and reference books.
7. Discussion on ATR as per suggestions given by stake holder
8. Any other item.

Proceedings:

- The meeting began at 10.00AM in the R&D Laboratory. The Chairman of the Board Dr. B.S.V. Rama Rao welcomed all the members for the meeting.
- The Chairman explained the Vision, Mission of the College and the Department and the agenda for discussion and requested the members to give their valuable inputs.
- The external experts suggested to add new courses in the curriculum by following the AICTE guidelines.
- With respect to point 1 of agenda, the following changes were suggested in B.Tech course structure:
 - The course Design of Machine Members was suggested to divide in to two courses i.e., Design of Machine Members I and Design of Machine Members II.
 - The title for course, Engineering Graphics and Drafting was changed to Engineering Drawing, common to all the branches.
 - The courses in professional electives are arranged according to the specialization such as Thermal Engineering, Machine Design, CAD/CAM and Industrial Engineering.
 - The course Refrigeration & Air Conditioning in Professional Elective-I is shifted to Professional Elective-III.
- With respect to point 1 of agenda, the following changes were suggested in M.Tech course structure:
 - The course Nano Technology in Elective-I is replaced with Concurrent Engineering.
 - The course Modeling and Simulation of Manufacturing Systems is replaced with Product Design and Development.
 - The course Concurrent Engineering in Elective-III is replaced with Flexible Manufacturing Systems.
 - The course Materials Technology in Elective-IV is replaced with Rapid Prototyping.
 - The Laboratory, Modeling and Analysis of Manufacturing Processes, is replaced with Advanced CAM Lab.



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- With respect to point 2 of agenda, the following changes were suggested in B Tech syllabi:
 - The topics of Scales and Introduction to AutoCAD were added in Engineering Drawing
 - The topics of Stress Strain diagram for brittle and ductile materials, Principal planes and principal stresses (both analytical and graphical methods) to be added in Mechanics of Solids
 - The topic, Compounding of steam turbines was added in Applied Thermodynamics.
- With respect to point 3 in agenda, discussion are done and total 09 No of new courses were finalized
- With respect to point 4 in agenda, discussions are done and suggestions were made
- The external experts suggested identifying courses that would enhance the employability skills and also suggested to add few value added courses for the students.
- The external experts are suggested to prepare rubrics for all the Theory, Laboratory, Mini project/Term Paper, Seminar and Project for assessment of the same.

Resolutions:

The following resolutions have been made in the meeting

- The changes suggested were thoroughly discussed and the course structure of R19 regulations of B.Tech & M.Tech is finalized and approved.
- The syllabus for B.Tech & M.Tech course was thoroughly discussed, finalized and approved. BOS Chairman is authorized to endorse the syllabus.
- The members ratified course objectives, course outcome and CO-PO mapping for all the courses in the course structure.
- **The members ratified 09 new courses for B.Tech R19 regulation.**
- **The members ratified 03 new courses for M.Tech R19 regulation.**
- The proposed model papers for internal and external examination of both theory and laboratory courses were discussed and ratified.
- It is resolved to have only two text books and up to five reference books for all the courses.
- Based on the ATR the suggestions given by the stake holders are included
- The members decided to convey the same to Academic Council members for approval.

The meeting came to an end with vote of thanks.


BOS Chairman



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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

31-07-2019

PEC/ECE/Circular/BoS/I

CIRCULAR

All the members of Board of Studies (BoS) are here by informed that there will be a meeting on 03-08-2019 and 04-08-2019 for discussing the following agenda.

Agenda:

1. Welcome Address by Chairman – BOS
2. Discussion on proposed R-19 course structure of B.Tech & M.Tech courses syllabi and ratification of the same.
3. Discussion on proposed B.Tech firstYear and second Years courses syllabi M.Tech courses syllabi and ratification of the same.
4. Discussion of ratification of new courses
5. Discussion of ratification of course objectives, course outcomes, and CO-PO mapping.
6. Finalization of text books & reference books.
7. Ratification of the proposed model papers for internal and external examinations of both theory and laboratory courses.
8. Discussion of action taken report as per suggestions given by stake holders.

Copy to: a) Principal Office
b) Dept. BoS File
c) Circulate among staff members

Sailaja V
BoS Chairman
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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

04-08-2019

The Department of Electronics and Communication Engineering 4th BoS meeting held on 03-08-2019 and 04-08-2019. The following are the Resolutions and suggestion given by BoS experts.

RESOLUTIONS:

Considered Item no 2:

It is resolved to ratify the Proposed 4 years course structure of R-19 Regulations for B.Tech and M.Tech subjected to the following modification and suggestion.

UG-B.Tech

1. It is resolved to move Electronic Workshop from III-I semester to I-II semester.
2. It is resolved to remove IoT Laboratory to compromise Credits weight age.
3. It is resolved to Separate Microwave & Optical Communication as two Different subjects
4. It is resolved to introduce **OPERATING SYSTEMS** subject in **III-L**.
5. It is resolved to make **Electronics measurements and Instrumentation** Subject. Professional core subject and **Radar Systems** as Professional Elective.
6. It is Resolved to Include **Electronics measurements and Instrumentation Laboratory** In IV-I semester.
7. Title change of Multimedia and Signal Coding as Multimedia Communication with case study examples.

PG-M.Tech (Embedded Systems):

-No Suggestions-

PG-M.Tech (VLSISD):

-No Suggestions-

M.Tech Common Resolution

- (a) It is resolved to give or 2 Common Elective to both ES & VLSL

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Considered Item no 3

1. It is resolved to add more case study example in Real Time Operating Systems Subject in M.Tech- Embedded Systems Course.
2. It is resolved to add IoT concepts in Embedded Networking relate Subject in M.Tech- Embedded Systems Course.
3. It is resolved to give more Emphasis to comprehensive viva in M.Tech ES & VLSISD
4. It is resolved to add Topics of System concepts in Signal and Systems syllabus.

Considered Item no 4

1. Total 33 New courses were introduced in R19 Course structure and the same is ratified

Considered Item no 5

1. Course objectives, Course outcomes and CO-PO mapping were reviewed and advised faculty members to verify the mapping again.

Considered Item no 6

1. It is resolved to ratify all the proposed model papers for Internal and External Examination of both theory and Laboratory Courses

Considered Item no 7

1. It is resolved to ratify the text books and reference books for R-19 B.Tech course Structure from 3 year to 4 Year subjected to Next BOS meetings.
2. It resolved to include 3 textbooks and 2 reference books for every subject in Course structure.

Considered Item no 8

1. Stake holders Feedback Analysis and Action taken report(ATR) on Curriculum feedback is presented before BoS Committee and few of the suggestion were incorporated in R19 Curriculum

SUGGESTIONS (subjected to ratify in consultation with other BoS):

B.Tech

1. Linear Algebra should be studied in 1st semester.



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2. More Emphasis is given to Numerical Methods (5 units syllabus on numerical methods).
3. Applied Physics is not suggestible for ECE students change as Engineering Physics.
4. Applied Chemistry is no way related to ECE so remove the subject and add one more core/programming subject.
5. For labs one credit is sufficient. So we can add more number of subjects which were removed due to credits reduction from 180 to 160.
6. BEE subject and lab must be in the same semester.
7. In mathematics Fourier analysis should be covered in transform techniques.
8. Weight age of credits should be increased for core subjects (EDC, CS, NA, etc..)
9. Microprocessor should be combined with Computer Architecture.
10. Professional Electives should be completed before 8th semester.
11. Open electives can be studied in 8th semester so that they can go outside for projects in industries.
12. MOOC's course should have credits.
13. All the Professional Electives shall be enclosed in a list and student is expected to complete the professional electives from the list depending on the prerequisites.
14. Experts suggested more focus should be on skill oriented and employability courses.
15. As per NEP2020 policy entrepreneur course should be included in the curriculum.

M.Tech

Change the name project as Dissertation. Project is for group of people where as Dissertation related to one person.

Sailaja V.
BOS - Chairman

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Date: 01-08-2019

CIRCULAR

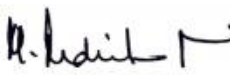
All the members of Board of Studies (BoS) are hereby informed that there will be a meeting on 3rd August 2019 and 4th August 2019 for discussing the following agenda.

Agenda:

1. Welcome Address by Chairman-BOS
2. Ratification of I and II year course structure & syllabus of R19 regulation for B. Tech (CSE) program.
3. Discussion on course structure of R19 regulation for B. Tech (CSE) program.
4. Ratification of course structure & syllabus of R19 regulation for M. Tech (CSE) program.
5. Discussion on ratification of new courses introduced in R19 Regulation.
6. Ratification of the proposed model papers for internal and external examinations of theory courses.
7. Discussion on ratification of Course Objectives, Course Outcomes and CO-PO Mapping.
8. Finalization of text books and reference books.
9. Discussion on ATR as per suggestions given by Stakeholders (Please Refer Annexure-IV).
10. Any other item.
11. Vote of Thanks.


Copy to:

1. All members of BoS.
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HoD-Dept.



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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Date: 04-08-2019

Minutes of meeting of B. Tech Board of Studies (BoS) of Computer Science and Engineering conducted on 3rd August 2019 and 4th August 2019 for approval/ratification of R19 regulations.

Members Present:

1. Chairman-BoS

Dr. M. Radhika Mani
Professor & HOD, Department of CSE,
Pragati Engineering College.
Surampalem. A. P.
India.

2. University Nominee

Dr. D. Haritha
Professor of CSE,
JNTUK, Kakinada. A. P.
India.

3. Subject Experts

Dr. D. V. L. N. Somayajulu
Professor of CSE,
NIT Warangal, Warangal., T.N.
India.
Dr. M. V. Panduranga Rao
Associate Professor of CSE,
IIT Hyderabad, T.N.
India.

4. Industry Expert

Sri Praveen Kumar Y,
TCS-Hyderabad. India.

5. Alumni

Dr. V. Srinivasa Naresh,
Associate Dean,
Research & Development,
Sri Vasavi Engineering College, Pedatadepalli,
Tadepalligudem, PIN-534101

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5. Faculty members of CSE Department

- i. Dr. Y. Jaya Babu
- ii. Dr. A. Radha Krishna
- iii. Dr. S. Rao Chintalapudi
- iv. Mr. M.V. Rajesh
- v. Mrs. G. Kumari
- vi. Mr. T. SomaSekhar
- vii. Mrs. K. L. Viveka

Agenda:

1. Welcome Address by Chairman-BOS
2. Ratification of I and II year course structure & syllabus of R19 regulation for B. Tech (CSE) program.
3. Discussion on course structure of R19 regulation for B. Tech (CSE) program.
4. Ratification of course structure & syllabus of R19 regulation for M. Tech (CSE) program.
5. Discussion on ratification of new courses introduced in R19 Regulation.
6. Ratification of the proposed model papers for internal and external examinations of theory courses.
7. Discussion on ratification of Course Objectives, Course Outcomes and CO-PO Mapping.
8. Finalization of text books and reference books.
9. Discussion on ATR as per suggestions given by Stakeholders (Please Refer Annexure-IV).
10. Any other item.
11. Vote of Thanks.

Suggestions:

The following suggestions given by the members of BoS for B. Tech program.

- It is advised to rename the theory paper "Professional communications" to "Professional communication skills".
- Better to include the Subject "PE & HV" in 1st Year instead of II Year II Semester.
- Better to rename, the subject "Machine Learning" to "Advanced Machine Learning".
- Under Open Elective-II, from CIVIL Engineering better to opt subject on "Smart City", instead of "Waste Water Management".
- Under Open Elective-I, better to change the subject title "Advanced Data Structures" to "Advanced Date Structures and Algorithms".
- In II Year II Semester, "Socket Programming" related topics need to be included in OOPs through JAVA and its laboratory.
- In III Year I Semester, change the name of the "Data Mining Lab" as "Data Mining and Compiler Design Lab", by including the Compiler Design experiments.
- Under the Professional Elective-V, better to change the subject "Agile

Methodologies" to "Agile Methodologies and Devops"

- As part of the induction program in Zero Semester for the 1 year better to include few topics of MS OFFICE.
- Suggested to identify one or two courses for MOOCs at department level. The courses suggested are Artificial Intelligence or Big Data Analytics from NPTEL, course era, udacity, etc.

The following suggestions given by the members of BoS for M. Tech program.

- Include few topics related to Algorithm Analysis in "Advanced Data Structures & Algorithm Analysis".

Resolutions:

The following resolutions have been made in the meeting

- Syllabi of I Year & II Year B. Tech are reviewed and ratified.
- The M. Tech syllabus with course outcomes is ratified.
- Model Papers of internal and external question papers are ratified with minor suggestions.
- Text Books and Reference Books are ratified.
- The members ratified 10 new courses for B. Tech (CSE) for R19 regulation.
- The revised course outcomes of I B. Tech & II B. Tech (I & II Sem) are ratified.


BoS-Chairman







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DEPARTMENT OF INFORMATION TECHNOLOGY

Date: 30-07-2019

CIRCULAR

All the faculty of Department of Information Technology are hereby informed that a meeting of the Board of studies of our department will be held on 3rd & 4th August 2019 in the Conference Hall. You are requested to attend the same.
Following is the agenda.

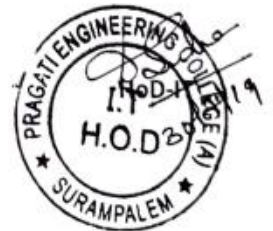
AGENDA:

- Welcome address by Chairman – BOS
- Discussion on proposed B.Tech. course structure and ratification of the same of R19 regulation (Refer Annexure I)
- Discussion on proposed B.Tech First year and Second year courses syllabi and ratification of the same(Refer Annexure I)
- Discussion on ratification of new courses. (Refer Annexure II)
- Discussion on ratification of course objectives, course outcomes and CO-PO Mappings(Refer Annexure IV)
- Discussion on ATR as per suggestions given by stakeholders(Refer Annexure III)
- Ratification of the proposed model papers for internal and external examinations of both theory and laboratory courses.
- Finalization of textbooks and reference books.
- Discussion on proposed value added courses and ratification of the same.
- Any other item.
- Vote of Thanks.

Circulation among Faculty- Department of IT

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Minutes of the meeting of the Board of Studies in Information Technology held on 3rd & 4th August 2019.

AGENDA:

- Welcome address by Chairman – BOS
- Discussion on proposed B.Tech. course structure and ratification of the same of R19 regulation (Refer Annexure I)
- Discussion on proposed B.Tech First year and Second year courses syllabi and ratification of the same(Refer Annexure I)
- **Discussion on ratification of new courses. (Refer Annexure II)**
- Discussion on ratification of course objectives, course outcomes and CO-PO Mappings(Refer Annexure IV)
- Discussion on ATR as per suggestions given by stakeholders(Refer Annexure III)
- Ratification of the proposed model papers for internal and external examinations of both theory and laboratory courses.
- Finalization of textbooks and reference books.
- Discussion on proposed value added courses and ratification of the same.
- Any other item.
- Vote of Thanks.

4

Principal

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RESOLUTIONS:

1. Considered item No.2-

Course Structure is designed for all semesters for R19 regulation.

2. Considered item No.3-

Syllabi is framed for the following courses till II B.Tech II Semester and ratified the same.

1. Data Structures
2. Data Structures Laboratory
3. Database Management Systems
4. Database Management Systems Laboratory
5. Computer System Architecture
6. Mathematical Foundations of Computer Science
7. Scripting Languages
8. Scripting Languages Laboratory
9. Operating Systems
10. Operating Systems Laboratory
11. UNIX Programming Laboratory

3. Considered item No.4-

The Members ratified 29 new courses for R19.

4. Considered item No. 5-

The members ratified course objectives, course outcomes and CO-PO mappings of all the courses in the course structure.

5. Considered item No.6-

Based on the ATR, The suggestions given by the stakeholders are included.

6. Considered item No.7-

Ratification of the proposed model papers for internal and external examinations of both theory and laboratory courses.

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Ph: 08852 - 252233, 34. Website: www.pragati.ac.in

7. Considered item No.8-

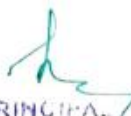
Recommended the text books and reference books for III and IV year courses.

8. Considered item No.9-

Reviewed the list of Value Added Courses and ratified the same.



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Department of Electrical and Electronics Engineering

Minutes of meeting of the Board of studies in EEE department held on 31.03.2018 and 01.04.2018 in EEE computer Lab of EEE department.

Members Present:

S. No.	Name	Signature
1.	Dr. K. Satyanarayana, Professor in EEE dept., HOD-EEE, Chairman of BOS-EEE	
2.	Dr. Ch. Sai Babu, Professor of EEE and Director R&D, JNTUK, Kakinada.	
3.	Dr. Srirama Srinivas, Assoc Prof of EE, IIT Madras.	
4.	Dr. P. Mallikarjuna Rao, Professor of EE, UCE, Andhra University, Visakhapatnam.	
5.	Sri. V. Mohan Raj Kumar, Assistant Vice President - Electrical Department, Reliance Infrastructure Limited, Samar Kot.	
6.	Sri. B. Pradeep Raj Vardhan, Site Engineer, L & T Ltd Cyber towers, Quadrant-2, Hi-Tech City Hyderabad.	
7.	Dr. G. Naresh, Professor in EEE dept. Dean - Administration.	
8.	Mrs. P. Vijaya Prasuna, Assoc. Prof. in EEE dept.	
9.	Sri. S. M. Shariff, Assoc. Prof. in EEE dept.	
10.	Sri. P. Krishna Chaitanya, Asst. Prof. in EEE dept.	
11.	Ms. A. Durga Bhavani, Asst. Prof. in EEE dept.	
12.	Sri. M. N. V.V. Brahmam, Asst. Prof. in EEE dept.	
13.	Sri. M. V. Chandra Kumar, Asst. Prof. in EEE dept.	
14.	Sri. M. Mani Shankar, Asst. Prof. in EEE dept.	
15.	Sri. B. Anil Kumar, Asst. Prof. in EEE dept.	
16.	Sri. B. Saikumar, Asst. Prof. in EEE dept.	

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PRAGATI ENGINEERING COLLEGE
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Department of Electrical and Electronics Engineering

AGENDA:

1. Welcome Address by Chairman-BOS.
2. Discussion on proposed B.Tech Third and Fourth Year courses syllabi along with course objectives and course outcomes and ratification of the same.
3. Ratification of the proposed model papers for internal and external examinations of both theory and laboratory courses for B. Tech Third and Fourth years.
4. Finalization of text books and reference books.
5. Any other item.

C. S. R. R.

[Signature]

[Signature]

B. P. S. P. K. V. D.

[Signature]

[Signature]

[Signature]

A. Durga T. S. R.

Chairman

[Signature]
S. M. R. S. R.

[Signature]

[Signature]

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Department of Electrical and Electronics Engineering

RESOLUTIONS TAKEN:

1. Considered Item No. 2.

Resolved to ratify the proposed syllabi of following courses of Third and Fourth year B. Tech Programme along with course objectives and course outcomes.

S. No.	Name of the Programme	Subject Code	Name of the Course	Year and Semester
1.	B. Tech	16EE5T13	Power Systems-II	III-I sem EEE
2.		16EE5T14	Electrical Measurements	III-I sem EEE
3.		16EE5T15	Power Electronics	III-I sem EEE
4.		16EE5L06	Electrical Machines –II Lab	III-I sem EEE
5.		16EE5L07	Control Systems Lab	III-I sem EEE
6.		16EE6T17	Power Electronic Controllers and Drives	III-II sem EEE
7.		16EE6T18	Power System Analysis	III-II sem EEE
8.		16EE6E01 (Open Elective)	Neural Networks and Fuzzy Logic	III-II sem EEE
9.		16EE6E02 (Open Elective)	Energy Audit, Conservation & Management	III-II sem EEE
10.		16EE6L08	Power Electronics Lab	III-II sem EEE
11.		16EE6L09	Electrical Measurements Lab	III-II sem EEE
12.		16EE7T20	Utilization of Electrical Energy	IV-I sem EEE
13.		16EE7T21	Renewable Energy Sources	IV-I sem EEE
14.		16EE7T22	Power System Operation and Control	IV-I sem EEE
15.		16EE7T23	Power System Protection	IV-I sem EEE
16.		16EE7D01 (Elective-I)	Electrical Machine Modeling and Analysis	IV-I sem EEE
17.		16EE7D02 (Elective-I)	Advanced Control Systems	IV-I sem EEE

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18.	16EE7D03 (Elective-I)	Industrial Automation and Control	IV-I sem EEE
19.	16EE7D04 (Elective-I)	Instrumentation	IV-I sem EEE
20.	16EE7D05 (Elective-II)	Electric Power Quality	IV-I sem EEE
21.	16EE7D06 (Elective-II)	Special Electrical Machines	IV-I sem EEE
22.	16EE7L10	Power Systems and Simulation Lab	IV-I sem EEE
23.	16EE8T24	Digital Control Systems	IV-II sem EEE
24.	16EE8T25	HVDC Transmission	IV-II sem EEE
25.	16EE8T26	Electrical Distribution Systems	IV-II sem EEE
26.	16EE8D07 (Elective-III)	High Voltage Engineering	IV-II sem EEE
27.	16EE8D08 (Elective-III)	Flexible Alternating Current Transmission Systems	IV-II sem EEE
28.	16EE8D09 (Elective-III)	Power System Deregulation	IV-II sem EEE
29.	16EE6E03 (Open Elective)	Power Electronics and Industrial Applications	III -II sem ECE
30.	16EE6E04 (Open Elective)	Micro Electro - Mechanical Systems	III - II sem ECE
31.	16EE6E03 (Open Elective)	Alternative Energy Systems	III -II sem CE

Subjected to the suggestions:

The approved syllabi are enclosed herewith. (Annexure -I(a) for Third and Fourth year B. Tech EEE subjects, Annexure -I(b) for B. Tech ECE Subject, Annexure -I(c) for B. Tech Civil subject).

2. Considered Item No. 3.

Resolved to ratify the proposed scheme of model papers for Internal and external examinations (Theory & Lab) of B. Tech programme.

Subjected to the suggestions:

The approved scheme of model papers are enclosed herewith. (Annexure -II for B. Tech).

3. Considered Item No. 4.

Resolved to ratify the text books and reference books as mentioned in the Item No. 2 and approved.

Co. Secy

B. Prasad Reddy

Principal

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Subjected to the suggestions:

4. Considered Item No. 5.

i) Model Curriculum prescribed by AICTE will be followed when revising the curriculum for next regulation.

Other Faculty members attended from department of EEE

S. No.	Name of the Faculty	Designation
1	Sri. I. Murali Krishna	Asst. Professor
2	Sri. I. Srinu	Asst. Professor
3	Sri. S. Ashok Reddy	Asst. Professor
4	Sri. D. Krishna Chaitanya.	Asst. Professor
5	Sri. G. Bhavanarayana	Asst. Professor
6	Mrs. K. Sandhya Rani	Asst. Professor
7	Sri. S. V.V. S. K. Reddy	Asst. Professor
8	Mrs. G. Durga Devi	Asst. Professor
9	Mrs. Ch. V. V. Manga Lakshmi	Asst. Professor
10	Mrs. M. Manga Lakshmi	Asst. Professor
11	Ms. S. Varalakshmi	Asst. Professor

Finally Chairman of BOS thanked all the members for their valuable inputs and active participation in the meeting.

Dr. K. Sathyanarayana

HOD-EEE & Chairman- BOS

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ELECTRONICS & COMMUNICATION ENGINEERING DEPARTMENT

BOS Meeting on 31st March and 1st April, 2018

The following Committee members had attended Board of Studies Meeting for the ECE Department on 31-03-2018 and 01-04-2018 at Conference hall in ECE Department.

S.No	Composition	Member	Signature
1	Chairman BOS	Dr.K.Sivakumara Swamy	
2	Experts in the subject from outside	Dr.M.Ramasubba Reddy, Professor, Dept of Applied Machanics , IIT Madras	
		Dr.Narasimha Sharma N V S, Professor of ECE, NIT Warangal	
3	Expert From University	Dr.A.M.Prasad Professor & Vice Principal JNTUK, Kakinada	A.m.prasad
5	Representative from industry	CYINET	- Absent -
6	Postgraduate meritorious alumnus	Sri.G.Lokesh Kumar RF Engineer Andhra Electronics, Kakinada	G.Lokesh
7	Expert Members of the college	Dr.G.Raghuram	
		Dr.V.Sailaja	Sailaja
		Mr.V.Prasanth	
		Mr.G.S.Sivakumar	
		Mrs.P.Sunitha	
		Mr.K.Raghuram	
		Mr.D.Nataraj	
		Mrs.G.Srilakshmi	

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ELECTRONICS & COMMUNICATION ENGINEERING DEPARTMENT

1-04-2018

Minutes of the Meeting

Minutes of the meeting of the Board of Studies in Electronics and Communication Engineering held on 31-03-2018 and 01-04-2018 in the Conference hall of the Department of Electronics and Communication Engineering.

S.No	Composition	Member	Signature
1	Chairman BOS	Dr.K.Sivakumara Swamy	
2	Experts in the subject from outside	Dr.M.Ramasubba Reddy, Professor, Dept of Applied Mechanics, IIT Madras	
		Dr.Narasimha Sharma N V S, Professor of ECE, NIT Warangal	
3	Expert From University	Dr.A.M.Prasad Professor & Vice Principal JNTUK, Kakinada	
5	Representative from industry	CYINET	- Absent -
6	Postgraduate meritorious alumnus	Sri.G.Lokesh Kumar RF Engineer Andhra Electronics, Kakinada	
7	Expert Members of the college	Dr.G.Raghuram	
		Dr.V.Sailaja	
		Mr.V.Prasanth	
		Mr.G.S.Sivakumar	
		Mrs.P.Sunitha	
		Mr.K.Raghuram	
		Mr.D.Nataraj	
		Mrs.G.Srilakshmi	

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✓
Day-1: (31.03.2018) - Agenda

1. Address by Principal in common BOS regarding common guidelines – 10.30AM to 11.00AM

Tea & Snacks – 11.00AM to 11.30AM

2. BOS meeting at department – 11.30AM to 01.00PM

- Welcome Address by Chairman – BOS
- Discussion on proposed III B.Tech & IV B.Tech courses syllabi and course outcomes and ratification of the same.
- Finalization of text books & reference books.

LUNCH (01.00PM to 02.00PM)

3. BOS meeting at department – 02.00PM to 04.00PM

- Discussion on proposed III B.Tech & IV B.Tech courses syllabi and course outcomes and ratification of the same.
- Finalization of text books & reference books.

Day-2: (01.04.2018) - Agenda

1. BOS meeting at department – 09.30AM to 11.00AM

- Discussion on proposed III-B.Tech & IV B.Tech courses syllabi and course outcomes and ratification of the same.
- Finalization of text books & reference books.

Tea & Snacks – 11.00AM to 11.30AM

2. BOS meeting at department – 11.30AM to 01.00PM

- Discussion on proposed III B.Tech & IV B.Tech courses syllabi and course outcomes and ratification of the same.
- Finalization of text books & reference books.

LUNCH (01.00PM to 02.00PM)

3. BOS meeting at department – 02.00PM to 03.30PM

- Ratification of the proposed model papers for internal and external examinations of both theory and laboratory courses of IIIB.Tech& IV B.Tech. ✓
- To decide target levels for attainment of COs for each subject.
- Discussion on AICTE proposed curriculum. ✓

Tea & Snacks – 03.30PM to 04.00PM

Departure from College

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ELECTRONICS & COMMUNICATION ENGINEERING DEPARTMENT

BOS Meeting- Schedule

Day-1: (31.03.2018) - Agenda

BOS meeting at department – 11.30AM to 01.00PM

Welcome Address by Chairman – BOS

Discussion on proposed III B.Tech course syllabi and course outcomes and ratification of the same.

Finalization of text books & reference books.

LUNCH (01.00PM to 02.00PM)

BOS meeting at department – 02.00PM to 06.00PM

Discussion on proposed IV B.Tech course syllabi and course outcomes and ratification of the same.

Finalization of text books & reference books.

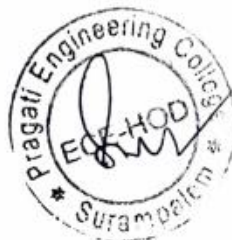
Day-2: (01.04.2018) - Agenda

BOS meeting at department – 09.30AM to 01.00PM

Ratification of the proposed model papers for internal and external examinations of both theory and laboratory courses of IIIB.Tech& IV B.Tech.

To decide target levels for attainment of Cos for each subject
Discussion on AICTE proposed curriculum.

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Modifications and Action Taken:

The following Minor Modifications of III and IV Year Syllabus were discussed with reference to **Item No.2** among Board of studies members and approved

S.No	Modifications Suggested	Action Taken and Ratified in BoS
1	It is suggested to add more experiments in PDC & IC Lab	More No. Of Experiments are included in PDC Lab
2	It was advised to Link Each Laboratory to the subject of reference	Modifications Done and Ratified
3	The Syllabus of the following subjects has been suggested to Modify keeping in view of student understanding levels. a) Antennas and Propagation. b) VLSI Design c) Microprocessor and Microcontrollers d) Optical Communications e) Radar Engineering f) Embedded Systems g) Electronic Instrumentation(CIVIL)	Outdated Topics are removed and New topics relevant to present Technologies are included in Syllabus and ratified
4	The following Labs were suggested to include software experiments on MATLAB and provide more exposure to MATLAB. a) Analog Communications Lab b) Digital Communications Lab	6 experiments are included in each lab and ratified
5	It is suggested to Purchased Software Defined Radio to conduct experiment in Digital Communication Lab.	It will be procured in Next year Budget
6	It is advised to Purchase Tanner Tools for VL:SI Design Subject and Conduct Certificate courses in advanced areas related to VLSI	Proposal will be sent to Finance Committee for the approval.
7	AS a Part SWAYAM it is recommended to register one course either in NPTEL or from Elective prescribed by the college	ratified
8	It is recommended to Conduct Mini Project in-house and evaluate it at the end of the semester for 50 Marks by constituting a Project Review Committee through internal Viva-Voce.	ratified



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HEAD OF THE DEPARTMENT
DEPARTMENT OF ECE
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PRAGATI ENGINEERING COLLEGE
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DEPARTMENT OF INFORMATION TECHNOLOGY



A-Grade

Minutes of the meeting of the Board of Studies in Information Technology held on 31st Mar and 1st Apr 2018 In the Conference Hall of the Department of Information Technology

MEMBERS PRESENT:

S.No	Name	Signature
1	Mrs. D. Sirisha(Chairman) HOD - Dept of IT	
2	Dr. M H M Krishna Prasad Professor , UCEK, JNTUK, Kakinada	
3	Dr. R B V Subramanyam Assoc. Prof, Dept of CSE, NIT Warangal	
4	Dr. Manas Ranjan Patra Head - Dept of CSE Berhampur University, Odisha	
5	Sri. Y.Praveen Senior Consultant Tata Consultancy Services, Hyd	
6	Mr. P Surya Prabhakara Rao, Asst. Prof in IT	
7	Mr. V Surya Prakash Asst. Prof in IT	
8	Mr. Ch Venkata Ramana, Asst. Prof in IT	

AGENDA:

1. Welcome Address by Chairman – BOS
2. Discussion on proposed B.Tech Third and Final Year courses syllabus along with Course Outcomes and ratification of the same.
3. Ratification of the proposed model papers for internal and external examinations of both theory and laboratory courses for B.Tech Second Third and Final Year courses.
4. Finalization of text books and reference books.
5. Target Levels for CO Attainment.
6. Machine Learning in IV-I to be offered as Online MOOC Course under Swayam (NPTEL).
7. Suggestions for the Evaluation Procedure for Audit/Non-Credit Courses.

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RESOLUTIONS:

1. Considered item No.2-

- 1 Reviewed the proposed syllabi of theory and lab courses for III and IV year courses and ratified the same.

2. Considered item No.3-

Model papers for internal and external examinations of both theory and laboratory courses are reviewed and ratified.

3. Considered item No.4-

Recommended the text books and reference books for III and IV year courses.

4. Considered item No.5-

Target levels for CO attainment for all the courses of B.Tech IT Course Structure are discussed and approved.

5. Considered item No.6-

The BOS Recommendation for consideration of an NPTEL Online Certification Course for Credits

- 1 In the proposed curriculum, there is a course with title "Machine Learning" in IV-I under Elective II. This course is also offered under SWAYAM (NPTEL) with the title as "Introduction to Machine Learning" which is a 12-week course equivalent to any theory course of 3 credits according to NPTEL.

Aiming to enhance the self learning capabilities of the students, this BOS recommends to provide an option to the students to complete the above said NPTEL course from III-I semester onwards. So the scores obtained by the students in this NPTEL online certification course i.e., Assignment marks (25) and Proctored Exam Marks (75) will be taken as Internal Marks (40) and External Marks (60) respectively. For the students who opt for online NPTEL course, there will not be any regular class room teaching. There will be a mentor supervising the learning activities of the above said NPTEL course.

6. Considered item No.7-

Reviewed the proposed evaluation procedure for Audit/Non-Credit courses and suggested the following changes:

- 1 Item No:3 – Point 5 can be enhanced as below.

"The evaluation done by external agencies shall be converted to suitable grades (Satisfactory / Unsatisfactory) based on the evaluation methodology which is to be approved by a committee constituted by the Head of the Institute".

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Course Code:

<Name of the Examination>
OPERATING SYSTEMS
 (Common to CSE and IT)

Date:
 Time:

Roll No.

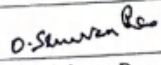
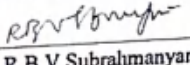
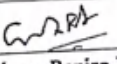
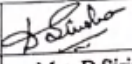
Max Marks: 5

Marks secured

Answer all questions

Q. No.	CO	Question	Answer
1	CO1	Which of the following is not the function of Operating System? a) Process Management b) Memory Management c) Device Management d) Clock Management	[]
2	CO1	In Unix, Which system call creates the new process? a) fork b) create c) new d) none of the mentioned	[]
3	CO1	One that is not a type of user interface of the operating system is a) command line interface b) graphical user interface c) batch interface d) device interface	[]
4	CO1	When we execute a C program, CPU runs in ____ mode. a) user b) kernel c) supervisory d) system	[]
5	CO2	The switching of CPU between different processes is called _____. a) Swapping b) Organizing c) Context Switching d) Multiple Switching	[]
6	CO2	A Process Control Block(PCB) does not contain which of the following : a) Code b) Stack c) Bootstrap program d) Data	[]
7	CO2	The interval from the time of submission of a process to the time of completion is termed as a) waiting time b) turnaround time c) response time d) throughput	[]
8	CO2	A process is selected from the _____ queue by the _____ scheduler, to be executed. a) blocked, short term b) wait, long term c) ready, short term d) ready, long term	[]
9	CO3	Memory management technique in which system stores and retrieves data from secondary storage for use in main memory is called a) fragmentation b) paging c) mapping d) none of the mentioned	[]
10	CO3	What is compaction? a) a technique for overcoming internal fragmentation b) a paging technique c) a technique for overcoming external fragmentation d) a technique for overcoming fatal error	[]

Members of BoS

			
Dr. O Srinivasa Rao, JNTUK	Dr. R B V Subrahmanyam, NIT-W	Dr. Manas Ranjan Patra, Berhampur University	Mrs. D Sirisha (BoS - Chairman)



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Course Code:

<Name of the Examination>
DATABASE MANAGEMENT SYSTEMS
(Common to CSE and IT)

Time:

Max. Marks: 60M
Date

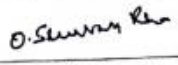
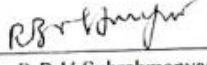

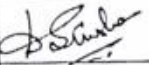
QUESTION PAPER

1. a) Develop Programs using BEFORE and AFTER Triggers, Row and Statement Triggers and INSTEAD OF Triggers
b) Creation, altering and dropping of tables and inserting rows into a table
2. a) Insert data into student table and use COMMIT, ROLLBACK and SAVEPOINT in PL/SQL block
b) Program development using creation of package specification, package bodies, private objects, package variables and cursors and calling stored packages.
3. a) Program development using WHILE LOOPS, numeric FOR LOOPS, nested loops using ERROR Handling, BUILT-IN Exceptions, USE defined Exceptions
b) Queries using Aggregate functions (COUNT, SUM, AVG, MAX and MIN), GROUP BY, HAVING
4. a) Develop a program that includes the features CASE and CASE expression. The Program can be extended using the NULLIF and COALESCE functions.
b) Queries using Conversion functions (to char, to number and to date)
5. a) Development using creation of stored functions
b) Queries using string functions (Concatenation, lpad, rpad, ltrim, rtrim, lower, upper, initcap, length, substr and instr)
6. a) Develop a program that includes the features NESTED IF
b) Queries (along with sub Queries) using ANY, ALL.
7. a) Creation of simple PL/SQL program which includes declaration section, executable section and exception - Handling section
b) Queries (along with sub Queries) using date Functions (Sysdate, next_day, add months, last day, months between, least, greatest, trunc, Round, to char, to date)
8. a) Queries (along with sub Queries) using IN, EXISTS, NOTEXISTS Constraints.
b) Creation and dropping of Views.
9. a) Programs development using creation of procedures
b) Develop Programs using BEFORE and AFTER Triggers, Row and Statement Triggers and INSTEAD OF Triggers.
10. a) Develop a program that includes the features COALESCE functions
b) Queries (along with sub Queries) using UNION, INTERSECT Constraints

Signature of External Examiner

Signature of Internal Examiner

Members of BoS

			
Dr. O Srinivasa Rao, JNTUK	Dr. R B V Subrahmanyam, NIT-W	Dr. Manas Ranjan Patra, Berhampur University	Mrs. D Sirisha (BoS - Chairman)



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Course Code:

<Name of the Examination>
MATHEMATICAL FOUNDATIONS OF COMPUTER SCIENCE
(Common to CSE and IT)

Time:

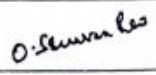
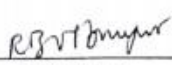
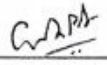
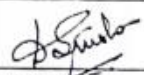
Max. Marks: 25M

Date:

Answer all the Questions

Q. No.	Question	Bloom's Taxonomy Level	Course Outcome	Marks
1	Obtain the Principal disjunctive normal form of $(P \rightarrow Q) \wedge (Q \leftrightarrow R)$	Analyze	CO1	10
2	Using mathematical induction, prove that the following statement is true for all positive integers n. $1^2 + 3^2 + 5^2 + \dots + (2n-1)^2 = n(2n-1)(2n+1)/3$ for $n \geq 1$	Apply	CO2	10
3	Draw the Hasse diagram for the partial ordering $((x,y) : x \leq y)$ on the power set $P(A)$ where $A = \{a,b,c\}$.	Understand	CO3	5

Members of BoS

			
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Peddapuram, E.G.Dt. (AP)-532207

Course Code:

R19

PRAGATI ENGINEERING COLLEGE : : SURAMPALEM
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<Name of the Examination>

Data Structures
(Common to CSE and IT)

Time: 3 hours

Max Marks: 60

Answer ONE Question from each Unit
All Questions Carry Equal Marks

UNIT-I

1.		Give an algorithm for quick sort and explain its time complexity. Trace the algorithm for the following data: 65 70 75 80 85 60 55 50 45	12 M
(OR)			
2.	a	Write an algorithm for binary search and explain with an example.	6 M
	b	Write an algorithm for Fibonacci search.	6 M

UNIT-II

3.	a	Discuss infix to prefix conversion algorithm using stack with an example.	6 M
	b	Explain the procedure to evaluate postfix expression $6\ 2\ 3\ +\ -\ 3\ 8\ 2\ /\ +\ *\ 2\ 4\ 3\ +$.	6 M
(OR)			
4.	a	Explain the queue ADT with an example.	6 M
	b	Discuss the algorithms for push and pop operations on a stack.	6 M

UNIT-III

5.		Write an algorithm to insert new node at any position in a singly linked list.	12 M
(OR)			
6.	a	Write an algorithm to delete an element anywhere from doubly linked list.	6 M
	b	Explain about Dynamic Memory management.	6 M

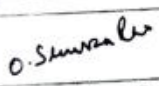
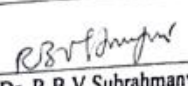
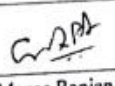
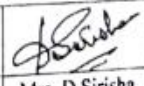
UNIT-IV

7.	a	Sketch the binary search tree resulting after inserting the following integer keys 49, 27, 12, 11, 33, 77, 26, 56, 23, 6.	6 M
	b	Write inorder, postorder and preorder traversals for the above binary tree constructed.	6 M
(OR)			
8.	a	What is threaded binary tree. Explain how to insert and delete an element from threaded binary tree.	8 M
	b	What is the difference between binary search tree and threaded binary tree.	4 M

UNIT-V

9.		Explain Depth First Search and Breadth First Search algorithms in detail.	12 M
(OR)			
10.		Explain the representations of graphs with examples.	12 M

Members of BoS

 Dr. O Srinivasa Rao, JNTUK	 Dr. R B V Subrahmanyam, NIT-W	 Dr. Manas Ranjan Patra, Berhampur University	 Mrs. D Sirisha (Chairman)
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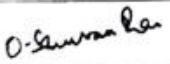
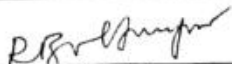
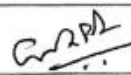
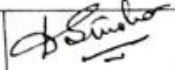
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APPROVAL OF INDUSTRY COURSE

It is proposed to introduce Robotic Process Automation as an Industry course to enhance the employability. The interested students will do this course as an alternative to MOOCs in III B.Tech II Semester. The Dept. is authorized to introduce such industrial courses as an alternative to MOOCs with the circulation to BoS members through mail.

Members of BoS

			
Dr. O Srinivasa Rao, JNTUK	Dr. R B V Subrahmanyam, NIT-W	Dr. Manas Ranjan Patra, Berhampur University	Mrs. D Sirisha (BoS-Chairman)

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(Recognized by UGC Under Sections 2(f) and 12(B) of UGC Act 1956)

Ph: 08832 - 222233, 44 Website: www.pragati.ac.in

DEPARTMENT OF MECHANICAL ENGINEERING

Date: 26-03-2018

CIRCULAR

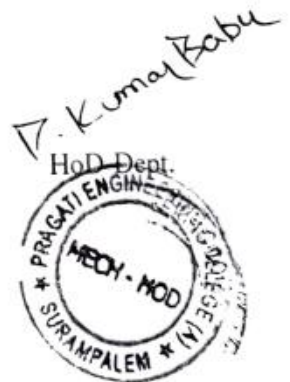
All the members of Board of Studies(BoS) are here by informed that there will be a meeting on 31st March and 01st April 2018 for discussing the following agenda.

Agenda:

1. Discussion on proposed B.Tech Third and Fourth Year courses syllabi and ratification of the same.
2. Discussion on ratification of Course Objectives, Course Outcomes and CO-PO mapping.
3. Ratification of the proposed model papers for internal and external examination of both theory and laboratory courses.
4. Finalization of text books and reference books.
5. Any other item.

Copy to:

1. All members of BoS.
2. Department circular file.



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DEPARTMENT OF MECHANICAL ENGINEERING

Date: 31-03-2018

Minutes of meeting of UG & PG Board of Studies (BoS) of Mechanical Engineering conducted on 31st March and 01st April 2018 for approval/ratification of III & IV Year R16 regulation courses.

Members Present:

BOS-CHAIRMAN

Dr. P. Kumar Babu
Professor and Hod
Mechanical Engineering Department
Pragati Engineering College

EXTERNAL-EXPERT

Dr. Ch. Srinivasa Rao
Professor
Department Of Mechanical Engineering
University College of Engineering
Andhra University
9556713217

UNIVERSITY NOMINEE

Dr. N. Mohan Rao
Professor
University College Of Engineering Vizianagaram, JNTUK
nmrao.me@jntukucev.ac.in
9849340437

INTERNAL MEMBERS

- Dr. S. Sambhu Prasad - Faculty Member
- Mr. G. Avinash - Faculty Member
- Mr. P. Sukumar - Faculty Member
- Mrs. Ch. Vasantha Lakshmi - Faculty Member
- Mr. D.J. Johnson - Faculty Member
- Mr. A.V. Ramana Rao - Faculty Member
- Mr. G. Satish - Faculty Member

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Agenda:

1. Discussion on proposed B.Tech Third and Fourth Year courses syllabi and ratification of the same.
2. Discussion on ratification of Course Objectives, Course Outcomes and CO-PO mapping.
3. Ratification of the proposed model papers for internal and external examination of both theory and laboratory courses.
4. Finalization of text books and reference books.
5. Any other item.

Proceedings:

- The meeting began at 10.00AM in the CAD/CAM Laboratory. The Chairman of the Board Dr. P. Kumar Babu welcomed all the members for the meeting.
- With respect to point 1 of agenda, the following changes were suggested in B.Tech syllabi:
 - Concept of 'Power Transmission' is to be included in Unit VI of Design of Machine Members-II.
 - Concept of 'Combustion' is removed in Unit I and 'Steam condensers' is to be included in Unit III of Thermal Engineering-II.
 - Name of the experiments was modified in thermal Engineering Laboratory.
 - Concept of 'Definitions and basic concepts of accuracy, precision, calibration, threshold, sensitivity, hysteresis, repeatability, linearity' is to be included in Unit I of Instrumentation & Control Systems.
 - Any 6 experiments are to be conducted among 10 in Metrology & Instrumentation Lab.
 - Concept of 'Ignition system' is to be included in Unit II of Automobile Engineering.
- The suggestions given by the external experts with respect to the content inclusion in the courses was noted down and the same has been informed to the subject expert for incorporating in the syllabus.
- The members ratified Course Objective, Course Outcome and CO-PO mapping for all the courses in the course structure.


Resolutions:

The following resolutions have been made in the meeting

- The syllabus for B.Tech course was thoroughly discussed, finalized and approved. BOS Chairman is authorized to endorse the syllabus.
- The proposed model papers for internal and external examination of both theory and laboratory courses were discussed and ratified.
- The members ratified 02 new courses for B.Tech R19 regulation.
- The textbooks and data books suggested for various courses were finalized.
- The members decided to convey the same to Academic Council members for approval.

The meeting came to an end with vote of thanks.

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