

**ANIL NEERUKONDA INSTITUTE OF TECHNOLOGY & SCIENCES**

**(UGC Autonomous)**

(Affiliated to AU, Approved by AICTE & Accredited by NBA & NAAC)  
Sangivalasa 531 162, BheemunipatnamMandal, Visakhapatnam Dist



**DEPARTMENT OF CHEMICAL ENGINEERING**

Date: 17-03-2022

**CIRCULAR**

The Department Academic Planning and Monitoring Committee (APMC) meeting will be held on 26-03-2022 at 02:00 PM in the Seminar hall of our Department. **Prof. M. V. V. Chandana Lakshmi, Department of Chemical Engineering, Andhra University and Mr. T. Ramakrishna, Manager, Dr. Reddy's Laboratories, Visakhapatnam** will be attending the meeting as expert members. All the faculty are requested to attend the same.

**Agenda:**

1. Result analysis
2. Placements
3. **Feedback from stakeholders on curriculum**
4. Student and faculty development activities
5. Research activities
6. Any other item with the permission of chair

Ch. Anil 17/3/22  
Dr. Ch. Anil

HOD, Chemical Engineering

HEAD,  
DEPARTMENT OF CHEMICAL  
ENGINEERING



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Sangivalasa 531 162, BheemunipatnamMandal, Visakhapatnam Dist

**DEPARTMENT OF CHEMICAL ENGINEERING**

**Minutes of the meeting of the  
Department Academic Planning and Monitoring Committee (APMC)**

**Date of Meeting: 26-03-2022**

**Venue: Seminar Hall**

**Time : 02:00 P.M.**

**Members Present:**

1. Prof. M.V.V. Chandana Lakshmi *M.V.V. Ch. Lakshmi*  
Department of Chemical Engineering, Andhra University
2. Mr. T. Ramakrishna *T. R. Ka*  
Manager, Dr. Reddy's Laboratories, Visakhapatnam
3. Prof. T. V. Hanumantha Rao, Principal, ANITS *TH*
4. Prof. S. Subba Rao
5. Prof. R. Srikanth *RS*
6. Ms. S. Harika *S*
7. Dr. K.China Malakondaiah *KM*
8. Mr. M. Koteswara Rao *MK*
9. Dr. D. Anjali *DA*
10. Mr. B. Pradeep Santosh Kumar *BSK*
11. Mr. S. V. Jagadeeswara Rao (Parent) *JVR*
12. Ms. S. Sravani (IV/IV B. Tech. student) *Sravanis*
13. Dr. Ch. Anil (in Chair) *CA*  
HoD, Chemical Engineering, ANITS

## **Agenda:**

1. Result analysis
2. Placements
3. Feedback from stakeholders on curriculum
4. Student and faculty development activities
5. Research activities
6. Any other item with the permission of chair

## **Minutes:**

### **1. Result analysis:**

The committee analyzed the results of the last passed out batches. Prof. M.V.V. Chandana Lakshmi asked the faculty to spot the courses in which students are lacking and emphasize on those such that the pass percentage could be increased further thus improving the placement percentage also. HoD informed that the care is taken on identified courses during the regular coursework such that the pass percentage is increased.

### **2. Placements:**

Mr. T. Ramakrishna pointed out that except M/s Deccan Fine Chemicals all other companies are paying less pay packages when compared to software companies. Dr. K. China Malakondaih informed that all eligible students are being placed and this year around 35 students went to internship with stipend to M/s Hetero Drugs in 4th year 2nd semester for a period of 3-4 months. This internship helps the student to get higher pay packages than they are getting now.

### **3. Feedback from stakeholders on curriculum:**

HoD presented the curriculum that needs to be placed in BoS 2022. The feedback collected from various stakeholders is analyzed and presented to the committee. A few suggestions were made in the curriculum and the modifications are made accordingly.

**4. Student and faculty development activities:**

Various efforts are being made to make students industry ready. Value added courses and skill development courses are conducted by the department to the students. The student participation at various colleges of national and state level importance are increasing. Faculty are also undergoing various faculty development programmes conducted by NPTEL and ATAL.

**5. Research activities:**

Prof. M.V.V. Chandana Lakshmi mentioned that the research activities in the department is almost nil. Prof. R. Srikanth informed that the final year projects are being converted into conferences but could not convert them into research papers. Efforts are being made to get guideship for part time research scholars from Andhra University and few projects are uploaded for various funding agencies.

Ch Anil 30/3/22  
(Dr. Ch. Anil)

HOD, Chemical Engineering

HEAD,  
DEPARTMENT OF CHEMICAL  
ENGINEERING

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**ANITS**

**DEPARTMENT OF CHEMICAL ENGINEERING**

Date: 09-03-2021

## **CIRCULAR**

The Department Academic Planning and Monitoring Committee (APMC) meeting will be held on 03-04-2021 at 10:00 AM in the Seminar hall of our Department. **Prof. M. V. V. Chandana Lakshmi, Department of Chemical Engineering, Andhra University** and **Mr. T. Ramakrishna, Manager, Dr. Reddy's Laboratories, Visakhapatnam** will be attending the meeting as expert members. All the faculty are requested to attend the same.

### **Agenda:**

1. Minor and Honor courses in R-20 regulations
2. Placements
3. Online teaching and methodologies
4. **Feedback from stakeholders**
5. Innovative teaching methodologies
6. Any other item with the permission of chair

*Ch. Anil*  
Dr. Ch. Anil

HOD, Chemical Engineering

HEAD,  
DEPARTMENT OF CHEMICAL  
ENGINEERING



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Sangivalasa 531 162, BheemunipatnamMandal, Visakhapatnam Dist

## DEPARTMENT OF CHEMICAL ENGINEERING

### Minutes of the meeting of the Department Academic Planning and-Monitoring Committee (APMC)

**Date of Meeting: 03-04-2021**

**Venue: Seminar Hall**

**Time : 10:00 A.M.**

#### Members Present:

1. Prof. M.V.V. Chandana Lakshmi *M. V. V. Ch. Lakshmi*  
Department of Chemical Engineering, Andhra University
2. Mr. T. Ramakrishna *T. Ra. Krishna*  
Manager, Dr. Reddy's Laboratories, Visakhapatnam
3. Prof. T. V. Hanumantha Rao, Principal, ANITS *THR*
4. Prof. S. Subba Rao *SSR*
5. Prof. R. Srikanth *RSK*
6. Dr. M. Shiva Naresh *MS*
7. Ms. P. Mallika Rani *PMR*
8. Ms. S. Harika *S*
9. Dr. K.China Malakondaiah *KM*
10. Mr. M. Koteswara Rao *MKR*
11. Dr. D. Anjali *DAnjali*
12. Mr. B. Pradeep Santosh Kumar *PSK*
13. Mr. S. V. Jagadeeswara Rao (Parent) *JJR*
14. Mr. D. Sumanth Raj (IV/IV B. Tech. student) *D. Sumanth Raj*
15. Dr. Ch. Anil (in Chair) *CA*  
HoD, Chemical Engineering, ANITS

## Agenda:

1. Minor and honor courses in R-20 regulations
2. Placements
3. Online teaching and methodologies
4. Feedback from stakeholders
5. Innovative teaching methodologies
6. Any other item with the permission of chair

### **Minutes:**

#### **1. Minor and Honor courses in R-20 regulations:**

The committee discussed the introduction of minor and honor courses in the Chemical Engineering program. Prof. MVV Chandana Lakshmi informed that the minor program is for other branch students and hence the courses must be at basic level in Chemical Engineering to have its flavour only like the basics of fluid mechanics, heat transfer, mass transfer and chemical reaction engineering. The honor courses must be the advanced courses in the field of Chemical Engineering to enrich the students knowledge. The honor courses are specialized courses in environmental engineering, pharmaceutical engineering, biochemical engineering etc., as they are relevant for job opportunities.

#### **2. Placements:**

HoD informed that 37 students got placements in the academic year 2019-20 including 30 students placed in core sector like M/s Deccan Fine Chemicals, M/s Divi's laboratories, M/s Torrecid, M/s Andhra Petrochemicals. The committee felt satisfactory about the placements.

#### **3. Online teaching and methodologies:**

Prof. MVV Chandana Lakshmi enquired about the teaching methodologies followed by faculty during the COVID-19. HoD informed that Google Meet and Classroom are being used to deliver the lecture and uploading the lecture notes respectively. Daily / weekly quizzes are being conducted for the students to know the level of understanding. Mr. T. Ramakrishna enquired about the conduct of laboratories in

online mode. Prof. R. Srikanth informed that virtual labs provided by IITs are being used and one week offline sessions are conducted for hands-on experience. Both the experts felt satisfactory with the methodologies followed by the department.

#### 4. Feedback from stakeholders:

The analysis made from the feedback collected from various stakeholders is presented to the committee. The scope for change and including of the topics in the new curriculum is discussed and the draft curriculum design is to be placed in the coming BoS meeting

#### 5. Innovative teaching methodologies:

HoD informed the innovative teaching methodologies followed in the department to create motivation and enhance learning skills of the students. The innovative teaching methods used are model making, online quiz, solving problems using excel, coding problems, course seminars etc. The experts felt satisfactory with the innovative teaching methodologies followed by the faculty.

*Ch. Anil*

(Dr. Ch. Anil)

HOD, Chemical Engineering

HEAD,  
DEPARTMENT OF CHEMICAL  
ENGINEERING





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**DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING**

**Date: 24.10.2020**

**CIRCULAR**

There will be an online **APMC meeting on 26<sup>th</sup> October 2020** at 2.00 PM, All the APMC members are requested to make it convenient to attend the online meeting. The agenda of meeting shall be.

**Agenda:**

1. Modality finalization for online lab external exams conduction.
2. **Stakeholders feedback on curriculum**
3. Any other matter with the permission of the chair

  
Head of the Department

**Dr.R.Sivaranjani**



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**DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING**

26/10/2020

**APMC MEETING MINUTES**

**MEMBERS PRESENT:**

1. Dr.Sivaranjani Reddi, HoD, Professor, Dept of CSE *S. Reddi*
2. Dr.M.Rama Krishna Murthy, Professor, Dept of CSE *P. Murthy*
3. Mr.S.Ratan Kumar, Associate Professor, Dept of CSE *S. Kumar*
4. Dr.K.S.Deepthi, Associate.Professor,Dept of CSE *D. Deepthi*
5. Mr. G. Jagdish, Asst prof., Dept of CSE *G. Jagdish*
6. Mrs. G.V.Gayathri, Asst prof., Dept of CSE *G. Gayathri*
7. Dr. K. Suresh, Asst prof., Dept of CSE *K. Suresh*
8. Mrs. K. Amaravathi, Asst prof., Dept of CSE *K. Amaravathi*
9. Mr. B. Mahesh, Asst prof., Dept of CSE *B. Mahesh*
10. Mr. NDSS Kiran Relangi, Asst prof., Dept of CSE
11. Mr. Prasad Kaviti, Asst prof., Dept of CSE *P. Kaviti*

**Agenda :**

1. Modality finalization for online lab external exams conduction.
2. Stakeholders feedback on curriculum
3. Any other matter with the permission of the chair

**Deliberations:** HoD madam welcomed for the online video conference APMC meeting in the view of COVID-19 pandemic and subsequent lockdown.

**1. APMC discussion for online Lab extremal exams modality**

By the directions of principal all the External lab exams are going to be conducted online mode only.

It is concluded that there is no external examiner hence, department one particular faculty will act as external examiner and lab faculty will be default internal examiner.

Lab exams duration is confined to 2 hours because of online mode and all the necessary action must be taken for smooth and proper conduction of exams.

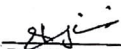
Marks evaluation model of software-based labs as decided as three parts for total 50 marks, first part is experiment write up 20 marks, viva-voce for 20 marks and code discussion for 10 marks.

Marks evaluation model of hardware-based labs as decided as three parts for total 50 marks, first part is experiment write up 20 marks, viva-voce for 20 marks and quiz for 10 marks.

## 2. Stakeholders Feedback on Curriculum

APMC members discussed about feedback given by stakeholders and decided to incorporate the suggestion given by the stakeholders related to curriculum.

As there were no issues, the meeting ended with thanks.

  
Dr. R. Sivaranjani,  
HOD- CSE.



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**DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING**

**Date: 5.01.2022**

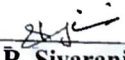
**CIRCULAR**

There will be an **APMC meeting on 06.01.2022** at 9.00 AM, All the APMC members are requested to make it convenient to attend the meeting. The agenda of meeting shall be.

**Agenda:**

1. 1.2/4 B Tech Summer Internship
2. 3/4 B Tech Summer Internship
3. **Stakeholders feedback on curriculum.**
4. Any other matter with the permission of the chair

  
S Ratan Kumar,  
APMC Coordinator

  
Dr. R. Sivaranjani,  
Head of the Department



## Anil Neerukonda Institute of Technology & Sciences (Autonomous)

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Website: [www.anits.edu.in](http://www.anits.edu.in)

email: [principal@anits.edu.in](mailto:principal@anits.edu.in)

### Minutes of the APMC Meeting Held on 6<sup>th</sup> Jan 2022

#### Members Present:

1. Dr R.Sivaranjani
2. Dr.MRamakrishna Murthy
3. Dr.V Sangeeta
4. Dr.K S Deepthi
5. Dr G Jagadish
6. Dr.V Usha Bala
7. S A Bhavani
8. G V Gayathri
9. S Ratan Kumar

#### Agenda:

1. 2/4 B Tech Summer Internship
2. 3/4 B Tech Summer Internship
3. Stakeholders Feedback on Curriculum

#### Deliberations and Resolutions:

APMC coordinator, S Ratan Kumar has welcomed the members and presented the agenda.

Dr R Sivaranjani, HOD has informed the members that due to COVID-19 it is decided to allow students to complete Summer Internship on Infosys offered on-line learning platform "Springboard" at the central level.

S Ratan Kumar, SPOC(Infosys Campus Connect Program) presented details of Infosys SpringBoard Platform and different courses offered by Infosys.

After deliberations the following courses are finalized to allow students to complete as per R19, and R20 Regulations in the academic year 2021-22.

#### For 3/4 B Tech Students

- 1 Associate in IT Foundation Skills (Python)  
[https://infyspringboard.onwingspan.com/en/app/toc/lex\\_auth\\_013377450309140480131\\_shared/overview](https://infyspringboard.onwingspan.com/en/app/toc/lex_auth_013377450309140480131_shared/overview)
- 2 Associate in IT Foundation Skills (Java)  
[https://infyspringboard.onwingspan.com/en/app/toc/lex\\_auth\\_013383095542480896764\\_shared/overview](https://infyspringboard.onwingspan.com/en/app/toc/lex_auth_013383095542480896764_shared/overview)
- 3 React Associate Developer - Certification  
[https://infyspringboard.onwingspan.com/en/app/toc/lex\\_auth\\_013390838959267840143\\_shared/overview](https://infyspringboard.onwingspan.com/en/app/toc/lex_auth_013390838959267840143_shared/overview)

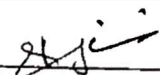
- 4 Angular Associate Developer - Certification  
[https://infyspringboard.onwingspan.com/en/app/toc/lex\\_auth\\_0133908329528770](https://infyspringboard.onwingspan.com/en/app/toc/lex_auth_0133908329528770)  
56134 [shared/overview](#)
- 5 Spring Associate Developer  
[https://infyspringboard.onwingspan.com/en/app/toc/lex\\_auth\\_0133929862966968](https://infyspringboard.onwingspan.com/en/app/toc/lex_auth_0133929862966968)  
32334 [shared/overview](#)
- 6 Python Programmer Certification  
[https://infyspringboard.onwingspan.com/en/app/toc/lex\\_auth\\_0131949249030717](https://infyspringboard.onwingspan.com/en/app/toc/lex_auth_0131949249030717)  
44476 [shared/overview](#)

### **For 2/4 B Tech Students**

1. Projects In Java  
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[shared/overview](#)
2. Computational Problem Solving  
[https://infyspringboard.onwingspan.com/en/app/toc/lex\\_auth\\_0131149320724398081685](https://infyspringboard.onwingspan.com/en/app/toc/lex_auth_0131149320724398081685)  
[shared/overview](#)
3. Projects in Enterprise Java  
[https://infyspringboard.onwingspan.com/en/app/toc/lex\\_auth\\_0130944409881640962571](https://infyspringboard.onwingspan.com/en/app/toc/lex_auth_0130944409881640962571)  
[shared/overview](#)
4. Data Structures and Algorithms using Java  
[https://infyspringboard.onwingspan.com/en/app/toc/lex\\_auth\\_012889695666700288926](https://infyspringboard.onwingspan.com/en/app/toc/lex_auth_012889695666700288926)  
[shared/overview](#)
5. Java Developer Certification  
[https://infyspringboard.onwingspan.com/en/app/toc/lex\\_auth\\_013193384540020736264](https://infyspringboard.onwingspan.com/en/app/toc/lex_auth_013193384540020736264)  
[shared/overview](#)
6. Comprehensive Programming using C++  
[https://infyspringboard.onwingspan.com/en/app/toc/lex\\_auth\\_0133115235285565441018](https://infyspringboard.onwingspan.com/en/app/toc/lex_auth_0133115235285565441018)  
[shared/overview](#)
- 7 Fundamentals of Data Networking  
[https://infyspringboard.onwingspan.com/en/app/toc/lex\\_auth\\_012807053341081600207](https://infyspringboard.onwingspan.com/en/app/toc/lex_auth_012807053341081600207)  
[shared/contents](#)
- 8 World of Computer Networking  
[https://infyspringboard.onwingspan.com/en/app/toc/lex\\_auth\\_0133136922960527367000](https://infyspringboard.onwingspan.com/en/app/toc/lex_auth_0133136922960527367000)  
[shared/overview](#)
- 9 Multi-Paradigm Programming with Modern C++  
[https://infyspringboard.onwingspan.com/en/app/toc/lex\\_auth\\_0133115303131381762891](https://infyspringboard.onwingspan.com/en/app/toc/lex_auth_0133115303131381762891)  
[shared/overview](#)
- 10 Data Structures and Algorithms using Java  
[https://infyspringboard.onwingspan.com/en/app/toc/lex\\_auth\\_012889695666700288926](https://infyspringboard.onwingspan.com/en/app/toc/lex_auth_012889695666700288926)  
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### **Stakeholders Feedback on Curriculum**

- APMC members discussed about stakeholders feedback and decided to incorporate the suggestion given by the stakeholders related to curriculum.



Dr R Siva Ranjani,  
HoD,CSE



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Sangivalasa-531162, Bheemunipatnam Mandal, VSP .Dt.

Phone: 08933- 225084,226395

## DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Ref: ECE/PAQI/M-01/2020-21

Date: 26-05 -2020

Minutes of the 1<sup>st</sup> meeting of the Department Program Assessment and Quality Improvement (PAQI) Committee in the academic year 2020-21 held on 25-05-2020 at 01:30PM through video conference.

### Agenda:

1. Feedback from stake holders on curriculum
2. 2<sup>nd</sup> year syllabus of R-19
3. Any other item

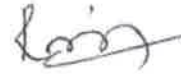
The following members were present:

- |   |    |             |  |
|---|----|-------------|--|
| 1. Dr.V.Rajya Lakshmi<br>HOD, ECE, ANITS          | -- | Chairperson |  |
| 2. Dr.G.Manmadha Rao<br>Professor, ECE            | -- | Member      |  |
| 3. Dr.B.Somasekhar<br>Assoc. Prof., ECE           | -- | Member      |  |
| 4. Dr.S.Srinivas<br>Assoc. Prof., ECE             | -- | Member      |  |
| 5. Dr.Murupandyan<br>Assoc. Prof., ECE            | -- | Member      |  |
| 6. Mr.D.Anil Prasad<br>Asst. Professor, ECE       | -- | Member      |  |
| 7. Mr.J.Bhaskar<br>Asst.Professor,ECE             | -- | Member      |  |
| 8. Mrs.B.Deepa<br>Asst. Professor, ECE            | -- | Member      |  |
| 9. Mr. A.L.Narayana<br>Asst. Professor, ECE       | -- | Member      |  |
| 10. Mr.Vijay.Kumar Sahu<br>Asst. Professor, ECE   | -- | Member      |  |
| 11. Mr.N.Srinivasa Naidu<br>Asst. Professor, ECE  | -- | Member      |  |
| 12. Mr.V.Vijay Kumar Raju<br>Asst. Professor, ECE | -- | Member      |  |
| 13. Mr.N.Ram Kumar<br>Asst. Professor, ECE        | -- | Member      |  |
| 14. Mrs.G.Gayatri<br>Asst. Professor, ECE         | -- | Member      |  |
| 15. Ms.P.Devi<br>Asst. Professor, ECE             | -- | Member      |  |

The Committee discussed the various points given in the agenda submitted by the Dr.V.Rajyalakshmi and made the following recommendations/suggestions.

1. a) The chairperson, Dr.V.Rajya Lakshmi, Prof. & HOD, dept of ECE, ANITS welcomed all the members of the committee present in the meeting. She enquired about the status of CO, PO and PSO attainment for the academic year 2019-20. It is informed that the CO-PO-PSO attainment for the admitted batch 2016-20 is completed and 2017-21 batch is pending. She appreciated the faculty for analyzing the stake holders' feedback. She informed the members that primary observation through feedback is in course Signals and systems topic DFT in UNIT-IV should be removed. In course ECA-I all units need to reorganized/ revised. In course Digital Electronics VEM should be removed and Asynchronous topics should be reduced.
2. The chairperson has informed the respective Research Groups to revise the syllabus as per requirements, Course Objectives, Course Outcomes, CO-PO-PSO mapping for corresponding subjects of II/IV B.Tech Autonomous(R-19) to be discussed in the forth coming BOS meeting.
3. In any other item, Dr.V.Rajya Lakshmi chairperson, enquired about the impact analysis of all extra-curricular and co-curricular activities conducted during the academic year 2019-20

The chairperson thanked all the members for their active participation and valuable suggestions.



Prof. V.Rajya Lakshmi  
Chairperson, PAQI & HOD, ECE  
ANITS

**Head of the Department**  
**Department of E C E**  
**Anil Maarukonda Institute of Technology & Science,**  
**Sangivalasa - 531 162**





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DEPARTMENT OF ELCTRONICS AND COMMUNICATION ENGINEERING

Ref: ECE/PAQI/M-01/2021-22

Date: 14-06 -2021

Minutes of the 1<sup>st</sup> meeting of the Department Program Assessment and Quality Improvement (PAQI) Committee in the academic year 2021-22 held on 12-06-2021 at 01:30PM in the DSP Lab with the following agenda.

Agenda:

1. Remarks of IQAC Visit 2019-20 and Measures need to be taken.
2. Feedback from stake holders on curriculum
3. 3<sup>rd</sup> year syllabus R-19
4. Any other item

The following members were present:

- |   |    |             |  |
|---|----|-------------|--|
| 1. Dr.V.Rajya Lakshmi<br>HOD, ECE, ANITS          | -- | Chairperson |  |
| 2. Dr.G.Manmadha Rao<br>Professor, ECE            | -- | Member      |  |
| 3. Dr.B.Somasekhar<br>Assoc. Prof., ECE           | -- | Member      |  |
| 4. Dr.S.Srinivas<br>Assoc. Prof., ECE             | -- | Member      |  |
| 5. Dr.Murupandyan<br>Assoc. Prof., ECE            | -- | Member      |  |
| 6. Mr.D.Anil Prasad<br>Asst. Professor, ECE       | -- | Member      |  |
| 7. Mr.J.Bhaskar<br>Asst.Professor,ECE             | -- | Member      |  |
| 8. Mrs.B.Deepa<br>Asst. Professor, ECE            | -- | Member      |  |
| 9. Mr. A.L.Narayana<br>Asst. Professor, ECE       | -- | Member      |  |
| 10. Mr.Vijay.Kumar Sahu<br>Asst. Professor, ECE   | -- | Member      |  |
| 11. Mr.N.Srinivasa Naidu<br>Asst. Professor, ECE  | -- | Member      |  |
| 12. Mr.V.Vijay Kumar Raju<br>Asst. Professor, ECE | -- | Member      |  |
| 13. Mr.N.Ram Kumar<br>Asst. Professor, ECE        | -- | Member      |  |

14. Mrs.G.Gayatri  
Asst. Professor, ECE  
15. Ms.P.Devi  
Asst. Professor, ECE

-- Member  
-- Member

*Byt*  
*Devi*

The Committee discussed the various points given in the agenda submitted by the Dr.V.Rajyalakshmi and made the following recommendations/suggestions.

1. The chairperson, Dr.V.Rajya Lakshmi, Prof. & HOD, dept of ECE, ANITS welcomed all the members of the committee present in the meeting and enquired about the IQAC visit and requested IAA coordinator to present the remarks given by IQAC during their visit. IAA coordinator informed that following remarks were made by IQAC Internal and External Audits.

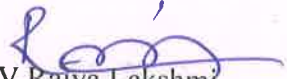
- (i) Activities related to entrepreneurial skills need to be increased.
- (ii) Number of research talks have to be provided.
- (iii) Online access facility has to be arranged in department library.
- (iv) Rubrics developed for assessment of either COs or POs need to be distributed to students before assessment.
- (v) Overall performance of students without backlogs need to be increased.
- (vi) External Audit remarks are also R& D projects and consultancy projects.

After a detailed discussion on the remarks of IQAC visit the following recommendations were made by the committee

- (i) It is decided to continue the event Business combat during the tech fest in order to enhance the entrepreneurial skills among the students.
- (ii) It is recommended all the research group heads has to initiate at least one research talk from their group.
- (iii) To provide online access facility two computers with CRT monitors should be transferred to department library.
- (iv) It is resolved to distribute the assessment rubrics prepared by the concerned course teacher to the students before evaluation.
- (v) It is recommended to use innovative techniques, ICT tools effectively to help students engage in learning in order to improve overall performance without backlogs.
- (vi) Faculty were encouraged to apply various funding schemes throughout the year and faculty were supported to start consultancy within the institute even for little amount as an initiation.

2. Dr.V.Rajya Lakshmi, chairperson, appreciated members for their constructive feedback on second year courses (R-19). She informed the members that primary observation through feedback is in course signals and systems topic DFT in UNIT-IV may be removed. In course Digital Electronics topic VEM may be removed and Asynchronous design can be reduced. In course ECA-I units need to be reorganized or revised.
3. The chairperson and all members agreed that only few courses need revision in R-19 and all respective Research Groups were informed to frame the syllabus, Course Objectives, Course Outcomes, CO-PO-PSO mapping for corresponding subjects of II/IV B.Tech Autonomous(R-19) in about 2 weeks such that these can be discussed in the DAC & BOS meeting scheduled on 19-6-2021.
4. In any other item, Dr.V.Rajya Lakshmi chairperson, motivated the faculty in doing online courses, webinars, FDPs etc to continue learning.

The chairperson thanked all the members for their active participation and valuable suggestions.

  
Prof. V.Rajya Lakshmi  
Chairperson, PAQI & HOD, ECE  
ANITS

Head of the Department  
Department of ECE  
Anil Neerukonda Institute of Technology & Sciences  
Sangivalasa-531 162



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**DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING**

Date: 04<sup>th</sup> February 2022

**NOTICE**

There will be a meeting of academic planning & monitoring cell (APMC) members on 5<sup>th</sup> February 2022 (i.e. on Saturday at 02.00 PM in the Electrical Machines Lab. All the members are requested to attend without fail.

**AGENDA:**

1. PO attainment for AY 2021-22, Sem-1
2. Stakeholders feedback on curriculum
3. Student counseling
4. Research proposals and publications
5. Value added courses
6. Result analysis and remedial classes
7. Any other item.

Prof. G. Raja/Rao

HOD of EEE

Head of the Department  
ELECTRICAL & ELECTRONICS ENGINEERING  
ANITS, Sangivalasa,  
Visakhapatnam-531 162

Dr. J. Vijay Kumar  
Dr. V. Murali  
Mr. S. Bala Murali  
Dr. S. Vijaya Bhaskar  
Mr. Kavala Kiran Kumar  
Mr. B. Raja Sekhar  
Dr. R. Satish

Mrs. K. Lavanya  
Dr. Ch. V. N. Raja  
Mr. L. Vijay  
Mr. L. Dinesh  
Mrs. D. Srilakshmi  
Dr. T. Narasimhulu



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**DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING**

Date: 5<sup>th</sup> February 2022

**Minutes of the Academic Planning & Monitoring Cell (APMC) meeting**  
**held on 5<sup>th</sup> February, 2022 at 02:00 PM.**

**AGENDA:**

1. PO attainment for 2021-22 relieved batch
2. Stakeholders feedback on curriculum
3. Student counseling
4. Research proposals and publications
5. Value added courses
6. Result analysis and remedial classes
7. Any other item.

**Members Present:**

S. No	Name	Designation	Signature
1	Dr. J. Vijay Kumar	Professor	
2	Dr. V. Murali	Assoc. Professor	
3	Mr. S. Bala Murali	Assoc. Professor	
4	Dr. S. Vijaya Bhaskar	Assoc. Professor	
5	Mr. Kavala Kiran Kumar	Assistant Professor	
6	Mr. B. Raja Sekhar	Assistant Professor	
7	Dr. R. Satish	Assistant Professor	
8	Mrs. K. Lavanya	Assistant Professor	
9	Dr. Ch. V. N. Raja	Assistant Professor	
10	Mr. L. Vijay	Assistant Professor	
11	Mr. L. Dinesh	Assistant Professor	
12	Mrs. D. Srilakshmi	Assistant Professor	
13	Dr. T. Narasimhulu	Assistant Professor	
14	Prof. G. Raja Rao (In Chair)	Professor & HOD	

1. Under this item, the chairman has asked Mr. K. Kiran Kumar about the PO attainments of various courses in 2021-22, sem-1. And, also, the chairman has advised to take the action taken reports for the courses for which the POs are not attained.
2. Under this item, the chairman has discussed the minutes of stakeholders meeting. And, as per the advises from the stakeholders, the committee has resolved to include the concept of Neutral grounding in Power transmission and distribution course for III/IV EEE, Sem-1, R20 Regulation.
3. Under this item, the chairman has advised the faculty to monitor the their proctor students to be punctual to the college interns of their dress code and attendance. If any student fails to get attendance less than 75%, the concerned faculty mentor has to inform to the parents about that.
4. Under this item, the chairman has advised the faculty to write research proposals and publish papers in SCI indexed journals. In continuation to this, the chairman has advised the faculty to conduct research group meeting frequently and discuss their topics in the meeting.
5. Under this item, the chairman has advised the faculty to increase the number of value added courses to at least 2 courses per semester.
6. Under this item, the chairman has advised Mr. K. Trinadh Babu to prepare result analysis and to find out the reasons from the concerned faculty if the failures are more. And also, the chairman has advised Mr. K. Trindh Babu to prepare a time table for remedial classes.



**Prof. G. Raja Rao**

**HOD of EEE**

**Head of the Department  
ELECTRICAL & ELECTRONICS ENGG.  
ANITS, Sangivalasa,  
Visakhapatnam-531 162**



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**DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING**

Date: 06<sup>th</sup> October 2021

**NOTICE**

There will be a meeting of academic planning & monitoring cell (APMC) members on 11<sup>th</sup> October 2021 (i.e. on Monday) at 02.00 PM in the Electrical Machines Lab. All the members are requested to attend without fail.

**AGENDA:**

1. Class teachers nomination
2. PO attainment for 2020-21 relieved batch
3. Progress of Student Projects
4. Stakeholders feedback on curriculum
5. Student counseling
6. Coordinators for off line mid examinations and conduct of mid examinations
7. Research proposals and publications
8. Proposal of Guest lectures
9. Any other item.

  
Prof. G. Raja Rao

**HOD of EEE**

Head of the Department  
ELECTRICAL & ELECTRONICS ENGG.  
ANITS, Sangivalasa,  
Visakhapatnam-531 162

Dr. J. Vijay Kumar  
Dr. V. Murali  
Mr. S. Bala Murali  
Dr. S. Vijaya Bhaskar  
Mr. Kavala Kiran Kumar  
Mr. B. Raja Sekhar  
Dr. R. Satish

Mrs. K. Lavanya  
Dr. Ch. V. N. Raja  
Mr. L. Vijay  
Mr. L. Dinesh  
Mrs. D. Srilakshmi  
Dr. T. Narasimhulu



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**DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING**

Date: 12<sup>th</sup> October 2021

**Minutes of the Academic Planning & Monitoring Cell (APMC) meeting  
held on 11<sup>th</sup> October, 2021 at 02:00 PM.**

**AGENDA:**

1. Class teachers nomination
2. PO attainment for 2020-21 relieved batch
3. Progress of Student Projects
4. Stakeholders feedback on curriculum
5. Coordinators for off line mid examinations and conduct of mid examinations
6. Student counseling
7. Research proposals and publications
8. Proposal of Guest lectures
9. Any other item.

**Members Present:**

S. No	Name	Designation	Signature
1	Dr. J. Vijay Kumar	Professor	J. Vijay
2	Dr. V. Murali	Assoc. Professor	V. Murali
3	Mr. S. Bala Murali	Assoc. Professor	S. Bala Murali
4	Dr. S. Vijaya Bhaskar	Assoc. Professor	S. Vijaya Bhaskar
5	Mr. Kavala Kiran Kumar	Assistant Professor	K. Kiran Kumar
6	Mr. B. Raja Sekhar	Assistant Professor	B. Raja Sekhar
7	Dr. R. Satish	Assistant Professor	R. Satish
8	Mrs. K. Lavanya	Assistant Professor	K. Lavanya
9	Dr. Ch. V. N. Raja	Assistant Professor	Ch. V. N. Raja
10	Mr. L. Vijay	Assistant Professor	L. Vijay
11	Mr. L. Dinesh	Assistant Professor	L. Dinesh
12	Mrs. D. Srilakshmi	Assistant Professor	D. Srilakshmi
13	Dr. T. Narasimhulu	Assistant Professor	T. Narasimhulu
14	Prof. G. Raja Rao (In Chair)	Professor & HOD	G. Raja Rao



1. Under this item, the committee has resolved to nominate the following faculty as class teaches for 2021-22, Sem-1 and overall faculty coordinators for 4/4 EEE, 3/4 EEE and 2/4 EEE.

S. No	Year & Section	Class Teacher	Coordinator
1	4/4 EEE-A	Mr. S. Harish	Mr. S. Harish
2	4/4 EEE-B	Mrs. K. Lavanya	
3	4/4 EEE-C	Mr. V. Anil Kumar	
4	3/4 EEE-A	Dr. S. Vijaya Bhaskar	Mr. Diwakar S M
5	3/4 EEE-B	Mr. Diwakar S M	
6	3/4 EEE-C	Mrs. V. Rangavalli	
7	2/4 EEE-A	Mr. N. Kiran	Mr. N. Kiran
8	2/4 EEE-B	Mr. B. Rajasekhar	
9	2/4 EEE-C	Mrs. T. V. Subhashini	

2. Under this item, the chairman asked Mr. K. Kiran Kumar about the PO attainments of various courses in 2020-21 and the action taken reports for the courses for which the POs are not attained. Also the chairman suggested a modification to the mid marks sheet to include CO wise marks so that, finding the CO attainment for a course become easy for the concerned faculty. Mrs. D. Srilakshmi advised to maintain a soft copy of the mid marks sheet along with CO marks in the department. After having a long discussion on it, committee resolved that, the faculty have to submit both soft copy and hard copies of mid marks sheet along with CO marks to the department examination section.
3. Under this item, the chairman asked about the status of student projects. And he advised to have at least one publication for the student projects. It is resolved that the faculty have to encourage the students to do live projects and inter department projects in collaboration with Mechanical and computer science departments.
4. Under this item, the chairman has discussed the minutes of stakeholders meeting. And, as per the advises from the stakeholders, the committee has

resolved to include AC transients topic in Network Theory course for II/IV EEE, Sem-1, R19 Regulation.

5. Under this item, the committee has revised the following faculty coordinators for the department mid examinations.

S. No	Faculty Coordinator	Year
1	Dr. S. Vijaya Bhaskar	4/4 EEE
2	Mr. S. J. V. Prakash	3/4 EEE
3	Mr. B. Satyanarayana	2/4 EEE

6. Under this item, the chairman has enquired about the student participation in industrial training. Mr. L. Dinesh said that, due to COVID-19 pandemic, a very less number of students went for industrial training. The committee has discussed the various possibilities to evaluate 100 marks for industrial training at the end of 4<sup>th</sup> Year, Sem-1. After having a discussion on it and keeping in mind the COVID-19 pandemic, the committee has resolved that, the student has to do at least one NPTEL or any other online course in lieu of industrial training for this academic year. The evaluation of marks for the online courses will be done at the end of 4<sup>th</sup> Year sem-1. The chairman asked Mr. L. Dinesh, to collect the information about various courses available in NPTEL and the commencement of classes to circulate to the students. The chairman has advised the faculty to encourage their project students to register for NPTEL courses or other online courses.
7. Under this item, the chairman has asked Dr. J. Vijay Kumar to conduct research group meetings to discuss about the faculty research proposals and publications. The chairman has informed that, the college is going to sanction Rs. 2 lakhs as seed money for the research proposals. The chairman advised the faculty and research scholars to prepare and submit research proposals.
8. Under this item, the chairman has advised to plan guest lecturers under various student chapters. The chairmen has asked Mrs. D. Srilakshmi coordinator for

AEEEE, Mrs. V. Rangavalli coordinator for ISTE, Mrs. K. Lavanya coordinator for IEI and Mrs. T. V. Subhashini coordinator for IIC to prepare proposals to conduct Guest lectures.

9. Under any other item, the chairman has advised the faculty to register for ISTE and IEI memberships. The chairman has advised Mrs. V. Rangavalli coordinator for ISTE and Mrs. K. Lavanya coordinator for IEI to make every faculty to have memberships in ISTE and IEI. The chairman also advised the faculty to encourage the students to have memberships in at least one professional body. It is resolved to conduct extra cultural activities by various Clubs/different professional bodies.



**Prof. G. Raja Rao**

**HOD of EEE**

**Head of the Department  
ELECTRICAL & ELECTRONICS ENGG.  
ANITS, Sangivalasa,  
Visakhapatnam-531 162**



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**DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING**

(Accredited by NBA)

Date: 09-03-2020

**NOTICE**

There will be a meeting of academic planning & monitoring cell (APMC) members on 11<sup>th</sup> March 2020 (i.e. on Wednesday) at 10.00 AM in the room of the undersigned. All the members are requested to attend without fail.

**AGENDA:**

1. Subject allocation and Time table for next semester.
2. Result analysis for the 1<sup>st</sup> Sem., 2019-20.
3. FDP.
4. Curriculum preparation for BOS meeting
5. Any other item.

1. Dr. J. Vijay kumar ✓
2. Dr. V. Murali ✓
3. Sri S. Bala Murali ✓
4. Sri Kavala Kiran Kumar ✓
5. Sri B. Raja Sekhar ✓
6. Sri R. Satish ✓

  
Prof. G. Raja Rao  
HOD of Department  
ELECTRICAL & ELECTRONICS ENG  
ANITS, Sangivalasa,  
Visakhapatnam-531 162



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**DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING**

(Accredited by NBA)

**Minutes of the Academic Planning & Monitoring Cell (APMC) meeting**  
**held on 11-03-2020 at 10.00 AM.**

**AGENDA:**

1. Subject allocation and Time table for next semester.
2. Result analysis for the 1<sup>st</sup> Sem., 2019-20.
3. FDP.
4. Curriculum preparation for BOS meeting
5. Any other item.

**Members Present:**

3. Dr. J. Vijay kumar
4. Dr. V. Murali
3. Sri S. Bala Murali
4. Sri Kavala Kiran Kumar
5. Sri B. Raja Sekhar
6. Sri R. Satish
7. Prof. G. Raja Rao (In- Chair)

1. Under this item, subjects are allocated by considering faculty choice and it is resolved to nominate Mr. V. Murali for preparation and finalization of Time-Tables for the impending semester.
2. Under this item it is reviewed the results of 1<sup>st</sup> semester and the committee felt satisfactory with the results.
3. Under this item it is resolved to organize FDP on any topic related to control of industrial electrical systems in the month of September 2020 by the industrial experts from RINL, ONGC, BHEL, NTPC, Power Grid and AP Genco etc.

4. Under this item, the committee has discussed on the preparation of curriculum for the Autonomous batch to meet the vision and mission of the institute and department and department PEOs. In preparing the curriculum, the committee has taken the inputs from IITs/NITs/ Universities/Industries/Alumni and AICTE/ UGC/ APSICHE. The committee also suggested that, the curriculum should meet the POs and PSOs of the department. The committee has nominated course coordinators to develop syllabus for different courses.

  
HOD of EEE  
Head of the Department  
ELECTRICAL & ELECTRONICS ENGG  
ANITS, Sangivalasa,  
Visakhapatnam-531 102



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Sangivalasa - 531162, Bheemunipatnam Mandal, Visakhapatnam Dist.  
**DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING**







Date: 22-10-2018


**NOTICE**

There will be a meeting of academic planning & monitoring cell (APMC) members on 23<sup>th</sup> October 2018 (i.e. Wednesday) at 02.00 PM in the Electrical Machines Lab. All the members are requested to attend without fail.

**AGENDA**

1. Result analysis for the 2<sup>nd</sup> Sem., 2017-18 and overall result analysis of outgoing batch 2014-18.
2. Finalization of project batches.
3. Student Counseling.
4. Time table for next semester and subject allocation.
5. Proposal for guest lectures.
6. Curriculum preparation for BOS meeting
7. Any other item.

V. Murali   
S. Bala Murali   
J. Vijay Kumar   
Kavala Kiran Kumar   
B. Raja Sekhar   
R. Satish 

  
**Prof. G. Raja Rao**  
HOD of EEE  
Head of the Department  
ELECTRICAL & ELECTRONICS ENGG  
ANITS, Sangivalasa,  
Visakhapatnam-531 162



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Sangivalasa - 531162, Bheemunipatnam Mandal, Visakhapatnam Dist.

## DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING







### Minutes of the Academic Planning & Monitoring Cell (APMC) meeting

held on 23-10-2018 at 02.00 PM.

#### AGENDA:

1. Result analysis for the 2<sup>nd</sup> Sem., 2017-18.
2. Finalization of project batches.
3. Student Seminars.
4. Student Counseling.
5. Subject allocation and Time table for next semester.
6. Curriculum preparation for BOS meeting
7. Any other item.

#### Members Present:

1. Sri V. Murali 
2. Sri S. Bala Murali 
3. Dr. J. Vijay Kumar 
4. Sri Kavala Kiran Kumar 
5. Sri B. Raja Sekhar 
6. Sri R. Satish 
7. Prof. G. Raja Rao (In- Chair)

1. Under this item, it is reviewed the results of 2<sup>nd</sup> semester and the committee is happy to note that in 3<sup>rd</sup> year results ANITS stood first among AU affiliated collages. The 2<sup>nd</sup> year results stood in 4<sup>th</sup> position and the reasons for low pass percentage are analyzed and it is resolved to see that the pass percentage in the coming semesters is improved.

2. Under this item, the project batches for final year students are divided such that equal weightage is given to each batch based on CGPA.

3. Under this item, discussed and finalized the slots for final year students' seminars on every Friday afternoon as shown in Time-Table.



4. Discussed and resolved to nominate Sri J. Uday Venkatesh to monitor the functioning of proctorial system for this academic year.
5. Under this item, subjects are allocated by considering faculty choice and it is resolved to nominate Mr. V. Murali to prepare the Time-Tables of the coming semester.
6. Under this item, the committee has discussed on the preparation of curriculum for the Autonomous batch to meet the vision and mission of the institute and department and department PEOs. In preparing the curriculum, the committee has taken the inputs from IITs/NITs/ Universities/Industries/Alumni and AICTE/ UGC/ APSICHE. The committee also suggested that, the curriculum should meet the POs and PSOs of the department. The committee has nominated course coordinators to develop syllabus for different courses.



HOD of EEE  
Head of the Department  
ELECTRICAL & ELECTRONICS ENGINEERING  
ANITS, Sangivala  
Visakhapatnam-531 104



**ANIL NEERUKONDA INSTITUTE OF TECHNOLOGY & SCIENCE**  
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Sangivalasa - 531162, Bheemunipatnam Mandal, Visakhapatnam Dist.  
**DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING**  
(Accredited by NBA)


Date: 16-04-2018

### NOTICE

There will be a meeting of academic planning & monitoring cell (APMC) members on 18<sup>th</sup> April 2018 (i.e. on Wednesday) at 10.00 AM in the room of the undersigned. All the members are requested to attend without fail.


#### AGENDA:


1. Subject allocation and Time table for next semester.
2. Result analysis for the 1<sup>st</sup> Sem., 2017-18.
3. Planning to conduct technical secessions under FDP.
4. Industrial training for 3<sup>rd</sup> year students.
5. Any other item.

  
Prof. G. Raja Rao  
HoD of EEE

Head of the Department  
ELECTRICAL & ELECTRONICS ENGINEERING  
ANITS, Sangivalasa,  
Visakhapatnam-531162

V. Murali 

S. Bala Murali 

Kavala Kiran Kumar 

B. Raja Sekhar 

R. Satish 



# ANIL NEERUKONDA INSTITUTE OF TECHNOLOGY & SCIENCES

(Affiliated to Andhra University, Approved by AICTE)

Sangivalasa - 531162, Bheemunipatnam Mandal, Visakhapatnam Dist.

DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

(Accredited by NBA)






## Minutes of the Academic Planning & Monitoring Cell (APMC) meeting

held on 18-04-2018 at 10.00 AM.

### AGENDA:

1. Subject allocation and Time table for next semester.
2. Result analysis for the 1<sup>st</sup> Sem., 2017-18.
3. Planning to conduct technical secessions under FDP.
4. Industrial training for 3<sup>rd</sup> year students.
5. Any other item.

### Members Present:

1. Sri V. Murali 
2. Sri S. Bala Murali 
3. Sri Kavala Kiran Kumar 
4. Sri B. Raja Sekhar 
5. Sri R. Satish 
6. Prof. G. Raja Rao (In- Chair)

1. Under this item, subjects are allocated by considering faculty choice and it is resolved to nominate Mr. V. Murali for preparation and finalization of Time-Tables for the impending semester.
2. Under this item it is reviewed the results of 1<sup>st</sup> semester and the committee felt satisfactory with the results.
3. Under this item, the committee decided to conduct FDP, which is usually organized in the reopening month of June, as a subject oriented one. In this regard, it is proposed to arrange special lectures on letter writing and paper

writing by one of the senior faculty of English Department. It is resolved to make use of the internal expertise also in addition to the external expertise.

4. Under this item, it is informed by the 3<sup>rd</sup> year class teacher that for almost 90% of pre-final year students the permission was granted by various industries like RINL, NTPC, APEPDCL, APGENCO, etc.. In this regard, it is resolved to prepare a list containing the details of their training.

  
H.O. of Department  
ELECTRICAL & ELECTRONICS ENGG  
ANITS, Sangivalasa,  
Visakhapatnam-531 162



**ANIL NEERUKONDA INSTITUTE OF TECHNOLOGY & SCIENCES**  
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Sangivalasa 531 162, BheemunipatnamMandal, Visakhapatnam Dist

**DEPARTMENT OF INFORMATION TECHNOLOGY**

2-11-2020

**CIRCULAR**

The Department Academic Planning and Monitoring Committee (APMC) meeting will be held on 3-11-2020 at 2P.M. in HoD Chamber. All APMC members are requested to attend the same.

**Agenda:**

1. Fixing of target Attainment levels
2. Stakeholders feedback on curriculum.
3. NBA Files

A handwritten signature in black ink, appearing to read 'P. Padmaja', is written over a horizontal line.

**Prof. P. Padmaja**  
**HOD, IT.**

**HEAD OF THE DEPARTMENT**  
Department of Information Technology  
Anil Neerukonda Institute of Technology  
& Sciences (Autonomous)  
Sangivalasa, Visakhapatnam-531162



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(Affiliated to AU, Approved by AICTE & Accredited by NBA & NAAC with 'A' Grade))  
Sangivalasa, 531 162, Bheemunipatnam Mandal, Visakhapatnam Dist

**DEPARTMENT OF INFORMATION TECHNOLOGY**

Minutes of Department Academic Planning and Monitoring Committee (APMC) meeting held  
on 3-11-2020

venue: HOD CHAMBER

Members Present:

L.No	Name of Faculty	Signature
1	Dr.M.RekhaSundari	
2	Dr.K.Sharada	
3	Dr.S.RamPrasadReddy	
4	Dr.A.Anupama	
5	Dr.V.Suresh	
6	Mr. Ch. Demudu Naidu	

Agenda:

1. Attainment Target
2. NBA FILES
3. Stakeholders feedback on curriculum

Minutes:

All members agreed to maintain the previous target attainment levels for CO & PO i.e 2 for CO and 2.25 for PO.

Stakeholders feedback on curriculum is considered and action taken report for upcoming semesters is planned accordingly.

NBA files were redistributed to faculty members.

Under any other item, Head of the Department informed all the members to take measures to improve quality of teaching in online classes and requested all the members to suggest various platforms to conduct Assignments and Laboratory sessions.

Dr.S.Ram Prasad Reddy and Dr.M.Rekhasundari suggested to conduct Programming assignments using online compilers and online classrooms.

Dr.A.Anupama Suggested to conduct Theory assignments in Google classrooms/moodle.

Head of the department asked all the members to take opinions and feedbacks from all the faculty about conducting of laboratories using online simulators & online classrooms.

(Prof. P.PADMAJA)

HOD, IT

HEAD OF THE DEPARTMENT  
Department of Information Technology  
Anil Neerukonda Institute of Technology  
& Sciences (Autonomous)  
Sangivalasa, Visakhapatnam-531 162



**ANIL NEERUKONDA INSTITUTE OF TECHNOLOGY & SCIENCES**  
(Affiliated to AU, Approved by AICTE & Accredited by NBA & NAAC with 'A' Grade))  
Sangivalasa 531 162, BheemunipatnamMandal, Visakhapatnam Dist

**DEPARTMENT OF INFORMATION TECHNOLOGY**

30-10-2021

**CIRCULAR**

The Department Academic Planning and Monitoring Committee (APMC) meeting will be held on 1-11-2021 at 12:00 P.M. in the Head of the Department Cabin. All the APMC Members are requested to attend the same.

**Agenda:**

1. Attainment Target.
2. Internship Marks.
3. Feedback from stake holders on curriculum.
4. Any other item with the permission of the chair.

  
(Prof. P.PADMAJA)

**HOD, IT**

**HEAD OF THE DEPARTMENT**  
Department of Information Technology  
Anil Neerukonda Institute of Technology  
& Sciences (Autonomous)  
Sangivalasa, Visakhapatnam-531 162



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Sangivalasa 531 162, BheemunipatnamMandal, Visakhapatnam Dist

**ANITS**

**DEPARTMENT OF INFORMATION TECHNOLOGY**

Minutes of Department Academic Planning and Monitoring Committee (APMC) meeting held  
on 1-11-2021

**Venue:** HOD CHAMBER

**Members Present:**

SL.No	Name of Faculty	Signature
1	Dr.M.Rekha Sundari	
2	Dr.K.Sharada	
3	Dr.S.RamPrasadReddy	
4	Dr.A.Anupama	
5	Dr.V.Suresh	
6	Mr. Ch. Demudu Naidu	

**Agenda:**

1. Attainment Target
2. Internship Marks
3. Feedback from stake holders on curriculum.
4. Any Other item with the permission of the chair

**Minutes:**

1. Target level for CO Threshold is set to 60% for the Batch 2019-23.
2. Target level for PO Threshold is set to 78% for the Batch 2019-23.
3. It is decided to award marks for internship in proportionate with the percentage obtained in NPTEL Certificate. Class teachers have to bring to the notice of APMC Members who are not qualified in the NPTEL Exam.
4. It is decided to send the 3rd year students to Industrial visits to gain real time knowledge by visiting nearby Local Industries. The visit must be followed by submission of report by each student which consists of observations made by the student and knowledge shared by the industry expert.
5. In order to improve the collaboration with Industry and for the better exposure of the courses in the curriculum, it is decided to involve the industry people to teach the courses- Design thinking & IOT in the upcoming 2nd semester, 2021-22.
6. It is decided to conduct 2 reviews to award the marks for Project1 in SEM-1.
7. Stakeholders feedback on curriculum is considered and Action taken report is planned accordingly.

(Prof. P. PADMAJA)  
HEAD OF THE DEPARTMENT  
Department of Information Technology  
Anil Neerukonda Institute of Technology  
& Sciences (Autonomous)  
Sangivalasa, Visakhapatnam-531162





ANIL NEERUKONDA INSTITUTE OF TECHNOLOGY & SCIENCES

(Affiliated to Andhra University Accredited by NBA)

Sangivalasa-531162, BheemunipatnamMandal, Visakhapatnam Dt.

Phone 08933-225084,226395

Date: 08-04-2021

### CIRCULAR

This is to inform all the members of **APMC of Mechanical Engineering Department** that a meeting is being convened on 15<sup>th</sup> April-2021. The agenda is as follows:

#### **Agenda:**

1. Preparation for BOS Meeting.
2. Framing of III & II-year syllabi as per R-19 & R-20 regulations respectively.
3. **Stake holders feedback on curriculum**
4. Project Proposals
5. Admissions of Research scholars
6. Upgradation of Labs
7. Budget for the academic year 2021-2022.
8. Attainment of POs and PSOs for the academic year 2019-20
9. Any other item

The members are hereby requested to attend the meeting which will be held in the department seminar hall.

  
HOD 8.4.21

Mech. Dept

PROFESSOR & HEAD  
Department of Mechanical Engineering  
ANIL NEERUKONDA INSTITUTE OF TECHNOLOGY & SCIENCES  
Sangivalasa-531162 VISAKHAPATNAM Dist. A.P.



# ANIL NEERUKONDA INSTITUTE OF TECHNOLOGY & SCIENCES

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Website : [www.anits.edu.in](http://www.anits.edu.in)

e-mail : [principal@anits.edu.in](mailto:principal@anits.edu.in)

## DEPARTMENT OF MECHANICAL ENGINEERING

Sangivalasa

Dt: 8/4/21

From:

**Dr. B. Naga Raju**

Professor & HoD

Department of Mechanical Engineering

Anil Neerukonda Institute of Technology and Sciences

Email Id - [nagaraju.me@anits.edu.in](mailto:nagaraju.me@anits.edu.in)

To,

Sri. B. Appala Naidu

Dy. Chief Mechanical Engineer, APSRTC, Visakhapatnam

Sir,


**Sub: Invitation to attend APMC meeting being held on 15-04-2021**

At the outset, please accept our greetings. We are pleased to inform that we have planned an APMC meeting to be held on 15-04-21. As you are nominated as a member of this August body, We request You to kindly make yourselves convenient to be present for the meeting and provide valuable suggestions from your perspective.

We will be honored by your gracious presence and consider your advice very precious for the sustained development of the department.

Thanking You

yours sincerely

  
8.4.21  
**PROFESSOR & HEAD**  
Department of Mechanical Engineering  
ANIL NEERUKONDA INSTITUTE OF TECHNOLOGY & SCIENCES  
Sangivalasa-531 162, VISAKHAPATNAM Dist. A.P.



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Website : www.anits.edu.in

e-mail : principal@anits.edu.in

## DEPARTMENT OF MECHANICAL ENGINEERING

Sangivalasa

Dt: 08/04/21

From:

**Dr. B. Naga Raju**

Professor & HoD

Department of Mechanical Engineering

Anil Neerukonda Institute of Technology and Sciences

Email Id - nagaraju.me@anits.edu.in

To,

Mv.ch. Surya Teja

Sir,

**Sub: Invitation to attend APMC meeting being held on 15-04-2021**

At the outset, please accept our greetings. We are pleased to inform that we have planned an APMC meeting to be held on 15.04.21. As you are nominated as a member of this August body, We request You to kindly make yourselves convenient to be present for the meeting and provide valuable suggestions from your perspective.

We will be honored by your gracious presence and consider your advice very precious for the sustained development of the department.

Thanking You

yours sincerely

 8.4.21



**PROFESSOR & HEAD**  
Department of Mechanical Engineering  
ANIL NEERUKONDA INSTITUTE OF TECHNOLOGY & SCIENCES  
Sangivalasa 531 162, VISAKHAPATNAM DIST. A.P.



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## DEPARTMENT OF MECHANICAL ENGINEERING

Sangivalasa

Dt: 08/04/21

From:

**Dr. B. Naga Raju**

Professor & HoD

Department of Mechanical Engineering

Anil Neerukonda Institute of Technology and Sciences

Email Id - nagaraju.me@anits.edu.in

To,

Ch. Venkata Poornesh  
Sr. Engineer, BHEL, Visakhapatnam

Sir,

**Sub: Invitation to attend APMC meeting being held on 15-04-2021**

At the outset, please accept our greetings. We are pleased to inform that we have planned an APMC meeting to be held on 15-04-21. As you are nominated as a member of this August body, We request You to kindly make yourselves convenient to be present for the meeting and provide valuable suggestions from your perspective.

We will be honored by your gracious presence and consider your advice very precious for the sustained development of the department.

Thanking You

yours sincerely

 8.4.21

PROFESSOR & HEAD  
Department of Mechanical Engineering  
ANIL NEERUKONDA INSTITUTE OF TECHNOLOGY & SCIENCES  
Sangivalasa-531 162 VISAKHAPATNAM Dist. A.P.





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Sangivalasa-531162, BheemunipatnamMandal, Visakhapatnam Dt.

Phone 08933-225084,226395

### APMC meeting held on 15<sup>th</sup> April 2021

#### MEMBERS

S.No	Name	Signature
1.	Dr. N.V.IndraKiran (Faculty)	
2.	Dr. K.Siva Prasad (Faculty)	
3.	R.Chandramouli (Faculty)	
4.	Dr. M.Raja Roy (Faculty)	
5.	G.Umamaheshwar Rao (Faculty)	
6.	M.S.S.Srinivas Rao (Faculty)	
7.	Dr.RajeshGhosh (Faculty)	
8.	Dr. K. Satyanarayana (Faculty)	15/4/21
9.	Dr. V. BinduNeeharika (Faculty)	
10.	Dr.M. Prasanth Kumar (Faculty)	
11.	M. Sailaja (Faculty)	
12.	Dr.V.R. Lenin (Faculty)	
13.	Dr.M. Vinod Babu (Faculty)	
14.	V. Saisidar (IV/IV -A SEC) (Student representative)	← ABSENT →
15.	Ch.Surya Teja (Alumni representative)	
16.	Ch.Venkata Poornesh (Industrial representative- Sr. Engineer in BHEL, Vizag)	
17.	B. Appala Naidu (Parent representative- Deputy. chief mechanical engineer (urban) APSRTC, Visakhapatnam.	
18.	Prof. T.V.Hanumantha Rao , Principal (Honorary Member)	
19.	Dr. B.NagaRaju (HOD and Chairman)	15/4/21



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Phone 08933-225084,226395

**Minutes of meeting of APMC held on 15<sup>th</sup> April 2021**

**Members:**

1. Dr. B.NagaRaju (HOD and Chairman)
2. Dr. N.V.IndraKiran (Faculty)
3. Dr. K.Siva Prasad (Faculty)
4. R.Chandramouli (Faculty)
5. Dr. M.Raja Roy (Faculty)
6. G.Umamaheshwar Rao (Faculty)
7. M.S.S.Srinivas Rao (Faculty)
8. Dr.RajeshGhosh (Faculty)
9. Dr. K. Satyanarayana (Faculty)
10. Dr. V. BinduNeeharika (Faculty)
11. Dr.M. Prasanth Kumar (Faculty)
12. M. Sailaja (Faculty)
13. Dr.V.R. Lenin (Faculty)
14. Dr.M. Vinod Babu (Faculty)
15. V. Saisidar ((IV/IV –A SEC) (student representative)
16. Ch. Surya Teja (Alumni representative)
17. Ch.Venkata Poornesh (Industrial representative -Sr. Engineer in BHEL, Vizag)
18. B. Appala Naidu (Parent representative- Deputy. chief mechanical engineer (urban) APSRTC, Visakhapatnam.
19. Prof. T.V. Hanumantha Rao, Principal (Honorary Member)

**Agenda:**

1. Preparation for BOS Meeting.
2. Framing of III & II-year syllabi as per R-19 & R-20 regulations respectively.
3. Stake holders feedback on curriculum
4. Project Proposals
5. Admissions of Research scholars
6. Upgradation of Labs
7. Budget for the academic year 2021-2022.
8. Attainment of POs and PSOs for the academic year 2019-20
9. Any other item

**Deliberations and Resolutions:**

The H.O.D invited the members to the final APMC meeting of the current academic year. He said that the course work has started for final & pre-final years in the offline

mode. Hence the faculty should follow the Covid-Protocol and also keep advising the students to follow the rules. The meeting was initiated by taking up the agenda.

1. The Chairman of the meeting informed the team members that the B.O.S meeting will be held in the mid of June-2021 based on the availability of external members. We should therefore be ready with all the essential data before the date is finalized. Faculty as per their expertise will be assigned to review the syllabus pertaining to III & II-years and suggest modifications/additions/deletions etc. as per R-19 & R-20 regulations respectively. Further specific faculty will be assigned the duty of framing syllabus for such subjects which are newly introduced into the course structure.
2. The H.O.D reminded the members that R-20 course structure was framed as it was mandatory as per APSICHE rules. Further this course structure was approved by the external B.O.S members as well. The subject of Advanced Engineering Drawing was specifically taken up for discussion as it will be now taught completely using CAD-software. It was reminded by the chairman that this subject is retitled as "ADVANCED ENGINEERING GRAPHICS" in view of the change in mode of teaching. This is one of the important changes from R-19 to R-20 regulations and it was necessary so as to consider this subject as a "skill development course" in line with the APSICHE rules. He further said that special emphasis will be given on this subject and the syllabus is reframed so that the student gets complete orientation towards CAD fundamentals and its application in Engineering drawing. The reframed syllabus is put forth for the approval of APMC and it was approved.
3. The feedback from the faculty and alumni (Stake holders) have been obtained by the department. It was stressed upon by the HoD that the suggestions given by the faculty and alumni have to be given due consideration in reframing the syllabus as per R19 & R20 regulations. Enhancing of software skills was a long pending suggestion given by the Stake holders. This has been given due consideration now by introducing software based learning of **Engineering Drawing, Machine Drawing, Production Drawing and Design Analysis**.
4. The chairman was delighted in informing the members on the project proposals that have been put up to SERB. A total of four proposals were uploaded from our department recently. The H.O.D congratulated the faculty who have worked on the proposals. He expected that at least a few of them will be granted. This will certainly improve the profile of the department drastically.
5. The chairman shared the information that 20 research scholars have been assigned to four project guides of our department on equal basis by the Directorate of Research Andhra University. He said that this will add value to the quality of research in the department. In view of this huge responsibility on the department, the research infrastructure has to be upgraded. He hoped that the management will pump funds to upgrade the research facilities which could be used for research experimentation. The members also opined that the research grants of the projects applied could also be used for improving the laboratories through purchase of new equipment, if approved by the SERB.

6. The upgradation of labs is a continuous process as the students have to be exposed to the applications of theory in practical field. Hence it is a responsibility of lab in-charges to perceive new experiments could be added in their labs. The department is taking a serious note of this requirement and has introduced new laboratories into the curriculum so as to transform the teaching-learning process in to an effective experience from both faculty and students perspectives. Applied Mechanics lab was introduced in R-19 regulations and budget was also allocated for establishing this lab which will be shortly fructify.
7. The budget proposals have to be prepared by the Lab-in-charges considering the maintenance of the equipment which seems to be a necessity now than ever before as all the labs were established more than a decade back. Moreover the in-charges should also take into consideration the curriculum of R-19& R-20 regulations which are concurrently effective in finalizing the budget.
8. The CO-PO-PSO attainment values for the 2016-20 batch was evaluated. This was placed before the APMC for approval. It was observed that some of the POs fell marginally short of the threshold values. The reasons for non-attainment of these few POs have to be analysed.
9. The chairman thanked the faculty for their cooperation in furnishing the data for NAAC-DVV-1 process. He further said that the NAAC-DVV-2 process will start shortly and said that the faculty should brace themselves up for furnishing the necessary information, whenever it is required.

15.4.21  
HOD

Mech. Dept

**PROFESSOR & HEAD**  
Department of Mechanical Engineering  
ANIL NEERUKONDA INSTITUTE OF TECHNOLOGY & SCIENCE  
Sangivalasa-531 162 VISAKHAPATNAM Dist. A P





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Sangivalasa-531162, Bheemunipatnam Mandal, Visakhapatnam Dt.  
Phone 08933-225084,226395

Date: 17-01-2022

**CIRCULAR**

This is to inform all the members of **APMC of Mechanical Department** that a meeting is being convened on 21st January-2022. The agenda of the meeting is given below:

**Agenda**

1. NBA Accreditation under Tier-I
2. Syllabus for III-year (R-20) & IV-year (R-19)
3. Review of M.Tech (Machine Design) courses
4. Honors and Minors degree
5. Stake-holders feedback on curriculum
6. Any other item.

The members are hereby requested to attend the meeting.

\_\_\_\_\_  
HOD 17.1.22  
Mech. Dept

**PROFESSOR & HEAD**  
Department of Mechanical Engineering  
ANIL NEERUKONDA INSTITUTE OF TECHNOLOGY & SCIENCES  
Sangivalasa-531 162 VISAKHAPATNAM Dist A P



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Sangivalasa-531162, Bheemunipatnam Mandal, Visakhapatnam Dt.  
Phone 08933-225084,226395

**APMC meeting held on 21<sup>st</sup> January 2022**

**Members:**

S. No.	Member	Signature
1.	Dr.T.V.HanmanthaRao Principal(Honorary Member)	
2.	Dr. B.NagaRaju (Faculty) (HoD and Chairman)	
3.	Dr. N.V.N.IndraKiran (Faculty)	
4.	Dr. K.Siva Prasad (Faculty)	
5.	R.Chandramouli (Faculty)	
6.	Dr.M.Raja Roy (Faculty)	
7.	G.UmamaheshwarRao (Faculty)	
8.	M.S.S.SrinivasRao (Faculty)	
9.	Dr.RajeshGhosh (Faculty)	
10.	Dr.M. Prasanth Kumar (Faculty)	
11.	Dr. K Satyanarayana(Faculty)	
12.	Dr.V Bindu Neeharika(Faculty)	
13.	M. Sailaja (Faculty)	
14.	Dr. V.R.Lenin	
15.	Dr. M. Vinod babu	
16.	Shaik P Shehzad ( Student Representative: 318126520162 -IV/IV – C)	
17.	Shaik P Khadar Bhasha (Parent representative : Executive Member of Veteran's India Team, AP & TS)	
18.	Ch.Surya Teja, IES (alumni representative, Assiatant Director of Naval Armament, NAD Vizag)	
19.	K V Poornesh (Industrial representative-Sr.Engineer. BHEL, Visakhapatnam	



**ANIL NEERUKONDA INSTITUTE OF TECHNOLOGY & SCIENCES  
DEPARTMENT OF MECHANICAL ENGINEERING**

(Affiliated to Andhra University Accredited by NBA-Tier-I & NAAC)

Sangivalasa-531162, Bheemunipatnam Mandal, Visakhapatnam Dt. Phone 08933-225084, 226395

**Minutes of meeting of APMC held on 21<sup>st</sup> January 2022**

**Members:**

1. Dr.T.V.Hanmantha Rao Principal(Honorary Member)
2. Dr. B.NagaRaju (Faculty) (HoD and Chairman)
3. Dr. N.V.N.Indra Kiran (Faculty)
4. Dr. K.Siva Prasad (Faculty)
5. R.Chandramouli (Faculty)
6. Dr.M.Raja Roy (Faculty)
7. G.Umamaheshwar Rao (Faculty)
8. M.S.S.Srinivas Rao (Faculty)
9. Dr.Rajesh Ghosh (Faculty)
10. Dr.M. Prasanth Kumar (Faculty)
11. Dr. K Satyanarayana(Faculty)
12. Dr.V Bindu Neeharika(Faculty)
13. M. Sailaja (Faculty)
14. Dr. V.R.Lenin(Faculty)
15. Dr. M. Vinod babu(Faculty)
16. Shaik P Shehzad ( Student Representative: 318126520162 -IV/IV – C)
17. Shaik P Khadar Bhasha (Parent representative : Executive Member of Veteran's India Team, AP & TS)
18. Ch.Surya Teja, IES (alumni representative, Assiatant Director of Naval Armament, NAD Vizag)
19. K V Poornesh (Industrial representative-Sr.Engineer. BHEL, Visakhapatnam)

**Agenda:**

1. NBA Accreditation under Tier-I
2. Syllabus for III-year (R-20) & IV-year (R-19)
3. Review of M.Tech (Machine Design) courses
4. Honors and Minors degree
5. Stake-holders feedback on curriculum
6. Any other item.

**Deliberations and Resolutions:**

1. The chairman of the committee greeted the gathering and appreciated their efforts for successfully obtaining Accreditation under Tier-I for Three years.  
The report of NBA Accreditation team was placed before the committee for discussion.  
On perusing the details of the report, the members felt that the comments given by the

team has to be given due importance and corrective measures initiated. The department was observed to be lagging in the criteriae-3,4,&5.

Criteria-3, which pertains to CO-PO attainment procedures have to be refined further, particularly with reference to CO-PO articulation matrices. The CO attainment target levels should also be enhanced in order to improve the quality of students who are graduating. The committee suggested to modify the CO attainment levels as below:

Level-1:  $\geq 50\%$  and  $< 60\%$ ; Level-2:  $\geq 60\%$  and  $< 80\%$ ; Level-3:  $\geq 80\%$ .

The comments of the team on Criteria-4, which pertains to Faculty contributions was reviewed with all earnest. The committee felt that the contributions of the faculty with respect to projects & consultancy is null. Moreover, the quality of publications should also be improved appreciably. The faculty and the department on the whole have to introspect sincerely with reference to these comments. The committee felt that the contribution of the faculty in research work has to improve substantially.

The year-wise student performance for the three previous academic years was below expectations, which has seriously impaired the attainment of criteria-5. This has also affected the placements of these batches. The committee felt that though number of initiatives has been taken to improve the results in the exams, not much improvement has been observed. It is therefore prudent upon the faculty to take the responsibility of ensuring that the students perform well in the subjects dealt by them.

2. The chairman informed the committee that the syllabus under R-19 & R-20 regulations for IV & III-years respectively have to be prepared. The committee said that the feedback given by the stake holders should be considered in preparing the syllabus.
3. The committee suggested to introduce Realibility Engineering as an elective for M.Tech (Machine Design) course. This was duly accepted by the chairman.
4. The chairman reminded the committee that the department will be offering degrees under the category of Honors & Minors from the next academic year, i.e., 2022-23. He further said that the syllabus of the subjects of these degrees have to be finalized simultaneously for BOS approval.
5. The feedback from stakeholders are collected from time-to-time so as to enrich the quality of syllabus. The Alumni (Stakeholder) suggested to include tutorials based on ANSYS APDL in the Finite Element Analysis course. The chairman said that this suggestion should be given due consideration in framing the syllabus of this subject.

HOD

Mech. Engg.

PROFESSOR & HEAD  
Department of Mechanical Engineering  
ANIL NEERUKONDA INSTITUTE OF TECHNOLOGY & SCIENCE  
Sangivalasa-531 162 VISAKHAPATNAM Dist. A.P.



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Sangivalasa 531 162, Bheemunipatnam Mandal, Visakhapatnam Dist




DEPARTMENT OF CHEMICAL ENGINEERING

19-06-2021

Minutes of the meeting of the Board of Studies, Department of Chemical engineering (UG) held on 19-06-2021 at 10.00 AM through online (Google Meet platform).

Members present:

1. Dr. Ch. Anil
2. Prof. S. Subba Rao
3. Prof. R. Srikanth
4. Prof. P.S.T. Sai
5. Prof S. V. Naidu

- Chairman, BOS, Chemical Engineering 
- Member 
- Member 
- Member, Academic council nominee
- Member, Andhra University nominee

Resolutions:

Chairman welcomed all the members for the BoS meeting.

1) The Syllabi for III/IV B. Tech. Chemical Engineering I and II Semesters under R-19 regulations are discussed and the experts felt satisfactory about the same. Prof. PST Sai suggested to include manufacturing of industrial gases like oxygen in Chemical Technology course. The committee accepted to implement the same in Unit - I. They have suggested a few changes which are represented in Table below.

S. No.	Name of the course (R-19)	% Change from previous regulations (R-15)	Remarks
1.	Open elective - I Food processing Technology	0	No Changes are made
2.	Open elective - I Engineering Biology	0	No Changes are made
3.	Open elective - I Fuel Cell Technology	0	No Changes are made
4.	Open elective - I Design of experiments	0	No Changes are made
5.	Chemical Engineering Thermodynamics - II	0	No Changes are made
6.	Heat Transfer	0	No Changes are made
7.	Mass Transfer - I	0	No Changes are made
8.	Chemical Technology	10	New topics are added
9.	Professional Elective - II	100	New Course is

	Industrial Safety		introduced for Chemical Engineers
10.	Professional Elective - II Fertilizer Technology	0	No Changes are made
11.	Professional Elective - II Pharmaceutical Technology	0	No Changes are made
12.	Open elective - II Fundamentals of Industrial Safety and Health	100	Syllabus is modified and generalized, to be applicable for engineers
13.	Open elective - II Bioinformatics	0	No Changes are made
14.	Open elective - II Corrosion Engineering	0	No Changes are made
15.	Open elective - II Computational tools for engineers	0	No Changes are made
16.	Mass Transfer - II	0	No Changes are made
17.	Chemical Reaction Engineering - I	0	No Changes are made
18.	Process Dynamics and Control	10	Few topics are modified and units are rearranged.
19.	Professional Elective - III Industrial Pollution and Control	0	No Changes are made
20.	Professional Elective - III Membrane Technology	0	No Changes are made
21.	Professional Elective - III Catalysis	0	No Changes are made
22.	Professional Elective - IV Material Science and Engineering	0	Core course is converted to Elective course
23.	Professional Elective - IV Petroleum Refinery Engineering	0	No Changes are made
24.	Energy Engineering	0	No Changes are made

2) The Syllabi for II/IV B. Tech. Chemical Engineering I and II Semesters under R-20 regulations are discussed and the experts felt satisfactory about the same. They have suggested a few changes which are represented in Table below.

S. No.	Name of the course (R-20)	% Change from previous regulations (R-19)	Remarks
1.	Biology for Engineers	0	No Changes are made
2.	Chemical Process Calculations	0	No Changes are made
3.	Mechanical Operations	0	No Changes are made
4.	Humanities elective Industrial Management	0	Earlier the course is offered as an elective in final year in R-15
5.	Humanities elective Managerial economics and Financial Analysis	100	New course is introduced
6.	Humanities elective Operations Research	100	New course is introduced
7.	Engineering Thermodynamics	0	No Changes are made
8.	Momentum Transfer	0	No Changes are made
9.	Numerical Methods for Chemical Engineers	0	No Changes are made
10.	Professional Elective - I Polymer Technology	0	No Changes are made
11.	Professional Elective - I Entrepreneurship Engineering	0	No Changes are made
12.	Professional Elective - I Design Thinking	0	No Changes are made

- 3) Prof. S. V. Naidu suggested to update the text book for Chemical Process Calculations course such that the unit system will be in SI. The committee accepted to change the text book for Chemical Process Calculations authored by KV Narayanan.
- 4) Prof. P.S.T. Sai suggested to use MATLAB tool instead of Python in computational laboratory. Dr. Ch. Anil informed that Python is introduced in laboratory to improve the coding skills and this helps students to get placed in software companies especially for girl students. Dr. Ch. Anil also added that students are also being trained in MATLAB in 3rd year for one week by the faculty of the department.

- 5) The policies for Minor and Honors degree under R-20 regulations were discussed. As suggested by APSCHE any student from other engineering background (except Chemical Engineering) can opt for Minor and only Chemical Engineering background students can opt for Honors. Student can opt for Minor / Honors in Chemical Engineering from 2nd year 2nd semester, if and only if the student scores more than 8 CGPA upto 2nd year 1st semester and without any backlogs throughout the engineering program. Students has to select one pool from the 4 pools in Honors degree in Chemical Engineering. Number of credits required to get Minor / Honors degree in Chemical Engineering is 20 credits, in which 16 credits will be earned through 4 courses in college and 4 credits will be earned through 2 MOOCs courses. Courses offered during the semester and MOOCs courses to be studied will be finalized by the internal BoS at the time of requirement.
- 6) The Syllabi for Minor and Honors degree which are newly introduced under R-20 regulations are discussed and the experts felt satisfactory about the same. Prof. PST Sai suggested to change the titles of a few Minor courses. The committee accepted to change the titles of Mechanical Operations to Particle Technology and Mass Transfer to Separation Technology. Prof. S. V. Naidu suggested to replace the Environmental Engineering pool in Honors with Advanced Chemical Engineering courses. The committee accepted to add the courses like Advanced Heat Transfer, Advanced Separation Technology, Advanced Mass Transfer and Advanced Process Control in the Advanced Chemical Engineering Pool. The updated list is presented in the below table.

Course Code	Course	L-T-P	Credit
<b>Minor</b>			
CHE 511 M	Chemical Process Calculation	3-1-0	4
CHE 512 M	Particle Technology	3-1-0	4
CHE 513 M	Momentum Transfer	3-1-0	4
CHE 514 M	Heat Transfer	3-1-0	4
CHE 515 M	Separation Technology	3-1-0	4
CHE 516 M	Chemical Reaction Engineering	3-1-0	4
	MOOCS - I		2
	MOOCS - II		2



The courses that are offered for B. Tech. (Honors) in Chemical Engineering are

Course Code	Course	L-T-P	Credit
<b>Pool 1: Advanced Chemical Engineering</b>			
CHE 611 H	Advanced Heat Transfer	3-1-0	4
CHE 612 H	Advanced Separation Technology	3-1-0	4
CHE 613 H	Advanced Reaction Engineering	3-1-0	4
CHE 614 H	Advanced Process Control	3-1-0	4
	MOOCs - I		2
	MOOCs - II		2

Course Code	Course	L-T-P	Credit
<b>Pool 2: Pharmaceutical Technology</b>			
CHE 621 H	Pharmaceutical Technology	3-1-0	4
CHE 622 H	Pharmaceutical Kinetics	3-1-0	4
CHE 623 H	Pharmaceutical Analysis	3-1-0	4
CHE 624 H	Pharmaceutical Biotechnology	3-1-0	4
	MOOCs - I		2
	MOOCs - II		2

Course Code	Course	L-T-P	Credit
<b>Pool 3: Biochemical Engineering</b>			
CHE 631 H	Biochemistry and Microbiology	3-1-0	4
CHE 632 H	Bioprocess Engineering	3-1-0	4
CHE 633 H	Bioseparation Technology	3-1-0	4
CHE 634 H	Bioanalytical Techniques	3-1-0	4
	MOOCs - I		2
	MOOCs - II		2

Course Code	Course	L-T-P	Credit
	<b>Pool 4: Industrial Safety</b>		
CHE 641 H	Principles of Safety Management		
CHE 642 H	Chemical Process Safety	3-1-0	4
CHE 643 H	Environmental Issues and Management	3-1-0	4
CHE 644 H	Hazard Identification and Risk Assessment	3-1-0	4
	MOOCs - I		2
	MOOCs - II		2

With these modifications, the committee approved the 3rd year syllabus under R-19, 2<sup>nd</sup> year syllabus under R-20 and Minor and Honors degree programs under R-20 regulations.

*Ch. Anil*

(Dr. Ch. Anil)  
Chairman, BOS

HEAD,  
DEPARTMENT OF CHEMICAL  
ENGINEERING

*R. Subbarath*  
Convener, IQAC  
Anil Neerukonda Institute of  
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*QSV*  
Principal  
Anil Neerukonda Institute of  
Technology & Sciences  
Sangivalasa-531 162  
Visakhapatnam Dist.



Minutes of BoS Meeting (Online via Googlemeet) held on 19<sup>th</sup>  
June, 2021

**Members Present:**

- |                                  |  |
|----------------------------------|--|
| 1. Dr. B V S Viswanadham         | Professor, IIT(B), External Member     |
| 2. Dr. G AppaRao                 | Professor, IIT(M), External Member     |
| 3. Dr. C N V Satyanarayana Reddy | Professor, AUJ, University Nominee     |
| 4. Sri. D Kasi Visvesvara Rao    | Industry Member,                       |
| 5. Dr. J Vikranth                | Assoc. Professor                       |
| 6. Mr. M K S S K Chaitanya       | Asst. Professor                        |
| 7. Mrs. P V R Sravya             | Asst. Professor                        |
| 8. Mr. T V ViswaTeja             | BoS-Civil Coordinator, Asst. Professor |
| 9. Mr. Ch.Srinivas               | Asst. Professor                        |
| 10. Mr. K Suryanarayana          | Asst. Professor                        |
| 11. Mr. J Harshavardhana Reddy   | Asst. Professor                        |
| 12. Mr. NANP Vital               | Asst. Professor                        |
| 13. Dr. B.N.D. Narasinga Rao     | Professor & HoD (In Chair)             |

**Agenda:**

(I) R-19 Regulations

- 1) Detailed Syllabus: III Year
- 2) Open Elective Courses-Civil

(II) R-20 Regulations

- 1) Course Structure: II, III, IV Years based on APSICHE Guidelines
- 2) Detailed Syllabus: II Year
- 3) Honours Courses
- 4) Minor Courses
- 5) Academic Regulations

(III) Paper setters for II Year I semester and II semester B.Tech (Civil Engineering)

(IV) Any other item with the permission of the chair

**Discussions & Resolutions:**

1. Detailed Syllabus for III Year B.Tech. (Civil Engineering), including the open electives under R-19 Regulations, has been considered and with suggestions discussed and approved.
2. Considered the Course structure for II Year to IV Year of B.Tech Civil Engineering under R-20 Regulations, made as per AICTE and APSICHE guidelines for discussion and with suggestions discussed and approved.

3. Detailed Syllabus for II Year B.Tech. (Civil Engineering) under R-20 Regulations, has been considered and with suggestions discussed and approved.
4. Honours and Minor courses to be offered by the Department with effect from II Year II semester under R-20 Regulations have been discussed and approved.
5. The Board has authorized the Head of Department, Civil Engineering, ANITS to make minor changes in the syllabus, if deemed necessary, based on the feedback given by the concerned subject faculty member(s), keeping 90% to 95% of the overall content same.
6. Academic regulations for R20 Regulations have been considered and approved. Members suggested to give due credit in the certificate for the students who acquire some credits for Honours/Minor courses but fail to get the Honours /Minor Degree for any reason.
7. List of paper setters for III Year B.Tech. Civil Engineering under R-19 Regulations and for II Year B.Tech. Civil Engineering under R-20 Regulations is considered and approved. The Board, however, has authorized the Head of Department, Civil Engineering, ANITS to add or modify the list wherever necessary.
8. Members were informed that in view of lockdown due to COVID19, the Mid-II examinations for II and III Year II Semester students were conducted online through Moodle, as per UGC Lockdown guidelines. Members were also informed that the Project work end semester Viva examination was also conducted online through Skype based on UGC lockdown guidelines.
9. Discussed the innovative Teaching and Evaluation Techniques.



(Dr. B.N.D. NARASINGA RAO)  
 Professor & Head-Civil Engineering  
 BoS-Chairman-Civil Engineering

Dr. B.N.D. Narasinga Rao  
 M.Tech. P.H.D. I.E. RGS

Professor & Head  
 Department of Civil Engineering

Anil Neerukonda Institute of Technology and Sciences  
 Sangivalasa, Bheemunipatnam Mandal,  
 Visakhapatnam - 531162



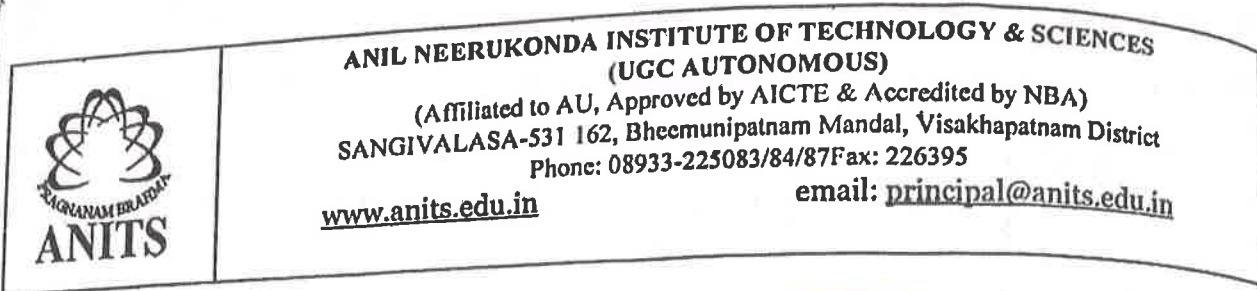
Convener IOAC

Anil Neerukonda Institute of  
 Technology and Sciences  
 Sangivalasa - 531162  
 Visakhapatnam Dist.



Principal

Anil Neerukonda Institute  
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**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**  
**EXTERNAL BOS MEETING MINUTES**

Meeting Date: 19-06-2021

Venue: Online (gmeet)

Timings: 9:30 AM to 1:40 PM

The agenda :

- 3/4B.Tech syllabus as per regulations 2019
- 2/4B.Tech (CSE, CSE with DS,CSE with AI&ML) syllabus as per regulations 2020
- Minor & Honor offering as per regulations 2020
- Participation in Electives offered by Infosys

Members Present:

- Dr. R.Sivaranjani, HoD&Professor, CSE, ANITS Chairman, BOS, CSE
- Dr M Rama Krishna Murty, Professor, CSE, ANITS,Member
- Mr. S. Ratan Kumar ,Associate. Professor, CSE, ANITS,Member
- Dr K S Deepthi,Associate. Professor., CSE, ANITS, Member
- Mr. G.Jagadish, Assistant. Professor., CSE, ANITS, Member
- Dr. K. Suresh,Assistant. Professor., CSE, ANITS ,Member
- Dr. B Prajna,Professor, CSE,AUCE University Nominee
- Dr. KSVSN RAJU, Professor, Visiting Professor, CSE, ANITS, Special Invitee
- Mr. T. ShyamVamsi, IBM ,Chennai, Alumni, Industry
- Roy Antony Arnold George Charles, Manager, Campus Connect, Infosys Technologies ,Hyd, Industry
- Mr. Bharath Bheemarasetti, Software Developer Engineer, Adobe systems India Pvt. Limited

**Deliberations:** Chairman BOS officially welcomed all the internal and external members of the Board Of Studies committee for the BOS meeting of B.Tech-CSE, 2021.

On behalf of CSE, ANITS, Mr. S. Ratan Kumar, Assoc. Prof., Dept. of CSE welcomed the BOS committee and deliberated a quick view on R19 and R20 course structures which are designed with 160 credits according to the guidelines of AICTE and APSCHE.

The in-detail presentation started with---

The coordinator presented

- Feedback had collected from the faculty and students, according to that some modifications made to the syllabus.
- The syllabus deviation of R19 and R20 regulation.
- A new course called "Constitution of India & Intellectual Property Rights" is introduced in 1st semester of 3rd year in R19 and 1st semester of 2nd year in R20 .

#### Agenda 1: 3/4B.Tech syllabus as per regulations 2019

On R19 3/4B.Tech syllabus the external members have made the following deliberations:

- The open elective Python Programming course - removed anonymous lambda function and advanced topics from UNIT-5.
- The Essentials of Python course -- adding of string objects and advanced python libraries. Increase the complexity level of case studies in Essentials of Python course.
- Providing of live execution in class room for python course.
- Swapping of course HCI and ML in PE2 and PE3.
- Smart Systems Design & Programming course --demonstration with the help of devices.
- Mobile Computing course - replace 3G technology with 4G and introduced WIFI related content.
- No SQL Data Bases course - follow one or two datasets to discuss.
- Data warehousing and Data mining course -- add case studies.
- Embedded Systems course -- swap with Smart Systems Design & Programming.
- DBMS theory and Lab course - scenario based experiments were suggested to add, also suggested to refer Infosys head start for real time scenarios.
- QA-VA course -- no modifications.
- OOSE theory and Lab course - for new models like agile and DevOps, it is better to introduce advanced software engineering course and suggested to promote student work in github.
- Web Technology theory and Lab course - advised to revise the syllabus once again. Suggested to remove Servlets and add this in python syllabus Recommendation was given to add responsive Design REACT or Nodejs in unit -5

#### Agenda 2: 2/4B.Tech (CSE, CSE with DS,CSE with AI&ML) syllabus as per regulations 2020

The following courses which are taken from R19 and are not modified:

- DSA and DS LAB ,JAVA and JAVA LAB ,CO, MP DC,CN
- DMS PSQT,DTPI, MPI and MPI LAB,OS and OS LAB,FLAT

#### Agenda 3: Minor & Honor offering as per regulations 2020

- Under CSE-Minor the following courses were considered for 2<sup>nd</sup> year -- semester-2
  - Object oriented Programming
  - Data Structures
  - Operating System
  - DBMS
- For CSE-Honor the External committee suggested to add tracks of Block chain and IOT if possible.

#### Agenda 4: Participation in Electives offered by Infosys

- The autonomous coordinator displayed Electives offered by Infosys. All the members welcomed the idea of offering these courses.(Annexure -A provides the details)

The following are the general suggestions given by the external BOS members:

- Consider the using Text books and reference books from the recent publications if possible.
- Promote student project work online platform "github "
- It is suggested that to mention number of lecture hours instead of hours for each unit.

Finally, the meeting ended with vote of thanks by BOS chairman.



Prof. (Dr) R Sivaranjani  
Chairman  
BOS-CSE

#### Attachments:

- 1)Annexure A



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## Anil Neerukonda Institute of Technology & Sciences (Autonomous)

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### DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Minutes of the 7<sup>th</sup> meeting of the BOS, Department of ECE (UG) held on 19.06.2021 at 02:00PM through video conference.

1. R20 Autonomous Syllabus (2nd Year Sem-I & II)
2. R20 Minor and Honors for B.Tech
3. R19 Autonomous Syllabus (3rd Year Sem-I & II)
4. Any other item with the permission of the chair

The chairperson, Dr.V.Rajya Lakshmi, HOD, dept of ECE, ANITS hosted the online meeting conducted through video conference and welcomed all the BOS members present.

#### 1. R20 Autonomous Syllabus (2nd Year Sem-I & II)

The Chairperson presented the members the comparison of R19 scheme and R20 scheme in terms of credits and explained the minor changes made in R20 compared to R19 as per APSCHE recommendations.

The newly introduced courses in R19 are as follows:

S.No	Course code	Name of the course (R19)	% change compared to R15	Remarks
1.	ECE313	Digital communications	25%	One new Unit is introduced and new topics were added in Unit-II
2.	ECE316	Antennas and Wave Propagation	15%	Reduced contents in UNIT-II, UNIT-III and UNIT-V
3.	ECE324	Data structures	100%	New Theory course
4.	ECE329	DS lab	100%	New Lab course

The changes made in R20 scheme is as follows:

Semester	Minor Changes made in R20 compared to R19
I	No change
II	No change
III	No change
IV	No change
V	Internship during summer, "INTERNSHIP I" is added with 2 credits and category of courses "Embedded systems and IOT" and associated lab "Embedded systems and IOT lab" is changed to SC (Skill oriented ) from PC(Professional Core)
VI	Category of courses Data Structures & Data Structures Lab is changed to SC (Skill oriented ) from PC(Professional Core)
VII	Credits of course "Industrial training" is changed to 2 credits from 1 credit.
VIII	Professional Elective-6 is removed in R20.

The chairperson reminded that R20 scheme with minor changes mentioned above were already communicated to the BOS members through mail for their approval earlier.



## 2. R20 Minor and Honors for B.Tech

- a) Chairperson informed the members that in R20 Minors and Honors were introduced newly as per APSCHE guidelines and presented the proposed two minors and three Honor streams.
- b) Prof. NVSN Sharma, Director IIIT, Trichy enquired about the requirements of registering in minor.
- c) Chairperson replied that a candidate shall be permitted to register for Honors / Minor program at the beginning of 4<sup>th</sup> semester subject to a maximum of two additional courses per semester, provided that the student must have acquired a minimum of 8.00 CGPA up to the end of 2<sup>nd</sup> semester without any backlogs.
- d) Prof. P. Ramakrishna Rao, Advisor, ANITS, enquired about the regulations of Honors offered to ECE students.
- e) Chairperson replied that a candidate shall earn 20 credits in addition to the 160 credits to get Honor / Minor degree along with regular B.Tech degree. In the case of Honors, out of 20 additional Credits to be acquired, 16 credits shall be earned by undergoing specified courses listed as pools, with four courses, each carrying 4 credits. The remaining 4 credits must be acquired through two MOOCs courses, which shall be domain specific, each with 2 credits.
- f) Prof. K. Chandra Bhusan Rao, JNTUKV, suggested ensuring that courses offered under Honors were mapped to PSOs properly. He also advised to mention the prerequisites in courses. He suggested including courses under MOOCs to be opted by students under minor/Honors.
- g) Prof. NVSN Sharma, Director IIIT, Trichy suggested to make it available list of MOOC courses mentioning semester in which student can opt under MOOCs.
- h) Chairperson requested Dr.S.Srinivas Assoc.Prof to prepare list of courses mentioning semester in which student can opt under MOOCs.

## 3. R19 Autonomous Syllabus (3rd Year Sem-I & II)

Committee discussed the contents in the 3<sup>rd</sup> year syllabus of R-19 and made the following recommendations/suggestions course wise.

### a) ECE 313 Digital Communications

1. Prof. P. Ramakrishna Rao, Advisor, ANITS, mentioned that the two problems in digital communications are noise and Inter Symbol Interference (ISI) and suggested to include topic Inter Symbol Interference which is totally ignored in the syllabus. He also advised to introduce the basic idea of spread spectrum, types of spread spectrum and its applications if possible.

- ii. Dr.A. Lakshmi Narayana, Assistant Professor, presented the syllabus of Digital communications with UNIT-IV as Spread Spectrum Modulation and UNIT-V as Introduction to OFDM.
- iii. Prof. P. Ramakrishna Rao, Advisor, ANITS, expressed that OFDM may be taught at PG level.
- iv. Prof. NVSN Sharma, Director IIIT, Trichy expressed his opinion on keeping the UNIT-IV as Spread Spectrum Modulation and UNIT-V as Linear block codes and convolution codes instead of OFDM.
- v. Mr.M.Durga Prasad, JTO, BSNL expressed that OFDM is the basis for all the LTE and above generation communications and may be appreciated if it is briefly taught to students.

**b) ECE 314 Embedded Systems and IoT**

- i. Prof. NVSN Sharma, Director IIIT, Trichy expressed that more contents in UNIT-III "Internet of Things" may be added and all agreed.

**c) ECE 315 Integrated Circuits and Applications**

- i. Prof. NVSN Sharma, Director IIIT, Trichy Suggested to keep text book by Ramakant A. Gayakwad, as prescribed text book instead as reference book.
- ii. Prof. P. Ramakrishna Rao, Advisor, ANITS, advised to keep standard text books as reference text books.
- iii. Prof. NVSN Sharma, Director IIIT, Trichy, advised to maintain uniformity in mentioning the number of reference text books in all courses.

**d) ECE 316 Antennas and Propagation**

- i. Prof. NVSN Sharma, Director IIIT, Trichy, suggested to reduce contents in UNITS-II, III and V.
- ii. Prof. K. ChandraBhusan Rao, JNTUKV, also expressed that contents in all units look lengthy and advised to reduce if possible.
- iii. Chairperson replied that the necessary modifications will be done and communicated to all.

**e) ECE 319 AC & DC Lab**

- i. Prof. NVSN Sharma, Director IIIT, Trichy, advised to specify the parameters which were being measured during the experiments.

**f) ECE 322(c) Optical Communications**

- i. Prof. NVSN Sharma, Director IIIT, Trichy, expressed that contents in UNIT-III may be reduced. He also suggested to include topics related to Optical Fibreless communication

ii. Prof. NVSN Sharma, Director IIIT, Trichy Suggested to keep text book by Rajiv Ramaswami, Kumar Sivarajan and Galen Sasaki as prescribed text book instead as reference book.

**g) ECE 323(b) Wireless Sensor Networks**

i. Prof. NVSN Sharma, Director IIIT, Trichy, expressed that prerequisites mentioned as Computer Network Engineering are not covered.

**h) ECE 326 VLSI Design**

i. Prof. NVSN Sharma, Director IIIT, Trichy, advised to include design rules in the syllabus.

**i) ECE 328 Integrated Circuits Lab**

i. Prof. NVSN Sharma, Director IIIT, Trichy, suggested to modify the name of the 7<sup>th</sup> experiment as "Comparison of Astable multivibrator using Op-amp and IC 555".

Dr. V. Rajya Lakshmi, Chairperson informed the External BOS members that suggested modifications in various courses will be incorporated and the same will be forwarded for their approval within 10 Days.

Meeting concluded with a vote of thanks presented by Mr. D. Anil Prasad, Academic Coordinator, to all the members. .



**Dr.V.Rajya Lakshmi**  
Chairperson, BOS & HOD, ECE  
ANITS

Head of the Department  
Department of ECE  
Anil Neerukonda Institute of Technology & Sciences  
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**R. Sekhara**  
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# ANIL NEERUKONDA INSTITUTE OF TECHNOLOGY & SCIENCES

(Permanently Affiliated to Andhra University, Approved by AICTE)

Sangivalasa-531 162, Bheemunipatnam Mandal, Visakhapatnam District

## DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

Accredited by NBA

### Minutes of the Board of Studies (BOS of EEE) meeting held on 19<sup>th</sup> June 2021 (Saturday) at 10.30 AM (online)

#### MEMBERS PRESENT:

S. No.	Name	Designation	Category
1	Dr. J. Vijaya Kumar	Professor, EEE, ANITS	Member
2	Dr. V. Murali	Assoc. Prof., EEE, ANITS	Member
3	Mr. S. Balamurali	Assoc. Prof., EEE, ANITS	Member
4	Dr. Nishant Patnaik	Assoc. Prof., EEE, ANITS	Member
5	Dr. S. Vijaya Bhaskar	Assoc. Prof., EEE, ANITS	Member
6	Mr. Kavala Kiran Kumar	Asst. Prof., EEE, ANITS	Member
7	Mr. B. Rajasekhar	Asst. Prof., EEE, ANITS	Member
8	Dr. R. Satish	Asst. Prof., EEE, ANITS	Member
9	Dr. Ch. V. N. Raja	Asst. Prof., EEE, ANITS	Member
10	Mr. M. Sudheer Kumar	Asst. Prof., EEE, ANITS	Member
11	Mr. K. Trinadh Babu	Asst. Prof., EEE, ANITS	Member
12	Mr. L. Dinesh	Asst. Prof., EEE, ANITS	Member
14	Mr. S. Harish	Asst. Prof., EEE, ANITS	Member
15	Mr.A. Dhanamjay Apparao	Asst. Prof., EEE, ANITS	Member
16	Mr. L. Vijay	Asst. Prof., EEE, ANITS	Member
17	Mrs. D. Srilakshmi	Asst. Prof., EEE, ANITS	Member
18	Mrs. V. Rangavalli	Asst. Prof., EEE, ANITS	Member
19	Mr. V. Anil Kumar	Asst. Prof., EEE, ANITS	Member
20	Mr. N. Kiran	Asst. Prof., EEE, ANITS	Member
21	Mr. J. Uday Venkatesh	Asst. Prof., EEE, ANITS	Member
21	Mr. R.V.L. Divakar	Asst. Prof., EEE, ANITS	Member
22	Prof. Deba Priya Das	Professor, IIT Kharagpur	Academic Council Nominee
23	Prof. G.V. Siva Krishna Rao	Prof. & HOD, EE, AUCE(A)	University Nominee
24	Sri B. Srinivasa Reddy	GM (Electrical), RINL	Industry
25	Prof. G. Raja Rao	HOD, EEE, ANITS	Chairman, BOS

## Agenda:

1. Approval of syllabus of III/IV B.Tech. I and II semester under R-19 regulation.
2. Approval of Syllabus of II/IV B.Tech. I and II semester under R-20 regulation.
3. Approval of courses for B.Tech-Honors & Minor under R-20 as per the guidelines of APSCHE.
4. New Courses Introduced.
5. New Topics Added.
6. Any other Item with the Permission of the Chair.

## Resolutions:

1. Approval of syllabus of III/IV B.Tech. under R-19 regulation:
  - a) The Chair person welcomed all the BOS members and thanked the members for the support they have rendered to the department during the last five years.
  - b) The chairman presented the course structure and detailed syllabus of regulation R-19 for III/IV B.Tech 1<sup>st</sup> & 2<sup>nd</sup> semester for the academic year 2021-22.
  - c) The board discussed on the topics / units mentioned in all courses of the III/IV Semester-I & II. The external members were mostly satisfied with the topics proposed for various courses and suggested certain modifications in some courses.
  - d) Mr. B. Srinivasa Reddy has suggested to include composite insulators and voltage graded cables in Power Transmission and Distribution courses. He also suggested to introduce experiments based on electrical vehicles & drives in electrical machines lab.
  - e) The board has approved the courses offered under Open Elective-1 in 3<sup>rd</sup> year 1<sup>st</sup> semester and Open Elective-2 in 3<sup>rd</sup> year 2<sup>nd</sup> Semester during 2021-22.
  - f) The board has approved the list of courses mentioned under Professional Elective-1 in 3<sup>rd</sup> year 1<sup>st</sup> semester and Professional Elective-2 & 3 in 3<sup>rd</sup> year 2<sup>nd</sup> Semester during 2021-22.
2. Approval of Syllabus of II/IV B.Tech. under R-20 regulation:
  - a) The chairman presented the course structure and detailed syllabus of regulation R-20 for II/IV B.Tech 1<sup>st</sup> & 2<sup>nd</sup> semester for the academic year 2021-22. The Committee has mainly discussed on the scheme and syllabi of 2<sup>nd</sup> year 1<sup>st</sup> semester and 2<sup>nd</sup> semester courses to be taught by EEE faculty.

- b) The board has discussed in full length and resolved to introduce “**Constitutional of India & Intellectual Property Rights**” as a non credit mandatory course for 2<sup>nd</sup> year 1<sup>st</sup> semester during 2021-22.
- c) The board members were happy about the modifications and the scheme & syllabi of 2<sup>nd</sup> year.

**3. Approval of courses for B.Tech-Honors & Minor under R-20 as per the guidelines of APSICHE:**

- a) The chairman has presented in brief about honors, minor and conditions to be satisfied for acquiring the same. It is resolved that the department to offer **B.Tech (Honors)** in tune with APSICHE guidelines for which the student should acquire 20 additional credits ( 4 Theory X 4 credits + 2 MOOCS X 2 Credits) to get Honors degree. If the number of students opting is less than 10, it may be considered to convert the Theory class work to MOOCS courses as mentioned in APSICHE / AICTE guidelines.
- b) The chairman presented the list of courses offered under Pool-1 for 2<sup>nd</sup> year 2<sup>nd</sup> semester, Pool-2 for 3<sup>rd</sup> year 1<sup>st</sup> semester, Pool-3 for 3<sup>rd</sup> year 2<sup>nd</sup> semester and Pool-4 for 4<sup>th</sup> year 1<sup>st</sup> semester respectively, in addition to the regular courses. The eligibility to register for B.Tech (Honors) degree is as per guidelines of APSICHE.
- c) The board has discussed in full length and resolved to offer the following list of courses under **Pool-1 for B.Tech (Honors)** at 2<sup>nd</sup> year 2<sup>nd</sup> semester:

S.No	Pool-1
1	Advanced Network Theory
2	Advanced Digital Logic Design
3	Electronic Measurements
4	Electrical Engineering Materials

Out of these above four courses the student has to select one course of his/her choice.

- d) The board has discussed in full length and recommended to finalize the list of courses under Pool-2, Pool-3 and Pool-4 in next BOS meeting.
- e) It is also resolved that the department to offer **B.Tech (Minor)** courses in tune with APSICHE guidelines to the eligible students belonging to other disciplines for which the student should acquire 20 additional credits ( 4 Theory X 4 credits + 2 MOOCS X 2 Credits). If the number of students opting is less than 20, it may be considered to convert the Theory class work to MOOCS courses as mentioned in APSICHE / AICTE

guidelines. Minor can be offered in Generic courses, specialized stream of courses offered by industries such as Infosys / IBM / Siemens etc.

- f) The board has discussed in full length and resolved to offer the following list of courses for B.Tech (Minor) under General Minor Track:

<b>B.Tech (Minor)</b>	
<b>S.No</b>	<b>General Minor Track</b>
1	NT
2	EDC
3	DLD
4	DC Machines
5	AC Machines
6	Basic Power System & Utilization
7	DCS
8	PE

<b>B.Tech (Minor) Specialized Track</b>	
<b>S.No</b>	<b>TRACK -1 POWER SYSTEMS</b>
1	Distribution System Planning & Automation
2	Restructured Power Systems
3	HVDC & FACTS
4	Power Quality
5	Smart Grid Technologies
	<b>TRACK -2 POWER ELECTRONICS &amp; DRIVES</b>
1	Advanced Power Electronics
2	Advanced Electrical Drives
3	HVDC & FACTS
4	Power Quality
5	Hybrid Electrical Vehicles
	<b>TRACK- 3 CONTROL SYSTEMS</b>
1	State Estimation & System Identification
2	Digital Control Systems
3	Non Linear Control Systems
4	Optimal Control Systems
5	Adaptive Control Systems
	<b>TRACK- 4 ENERGY SYSTEMS</b>
1	Energy Conservation & Audit
2	Utilization of Electrical Energy
3	Solar & Fuel cell Energy Systems
4	Wind & Biomass Energy Systems
5	Nuclear, Geothermal & Tidal Energy Systems

Out of these above four tracks the student has to select only **one** track with four courses.

#### 4. New Courses Introduced:

- a) The board discussed on the topics / units mentioned in all courses of the III/IV Semester-I & II. The external members were mostly satisfied with the topics proposed for various courses and suggested certain modifications in some courses.
- b) The following Table presents the list of new courses added in regulation R-19 for III/IV Semester-I & II.

	R-19
PE-1 (3-1)	1) Embedded Systems
PE-3 (3-2)	1) Optimization Techniques
OE-1 (3-1)	1) Python 2) Computer Architecture and Organization
OE-2 (3-2)	1) IoT

- c) The board has discussed and resolved to continue the same course of R-19 in R-20 for II/IV Semester-I & II.

#### 5. New Topics Added:

- a) The following Table presents the list of courses and topics added for R-19 in comparison with R-15 of III/IV Semester-I & II.

S.No.	Subject	Topics Added
1.	Renewable Energy Technologies (PE-1)	<ul style="list-style-type: none"> <li>Thermoelectric power conversion &amp; Thermionic power conversion- Principle of working,</li> <li>Performance and limitations.</li> </ul>
2.	Performance of Linear and Induction Machines	<ul style="list-style-type: none"> <li>Linear Induction Motor &amp; Properties.</li> <li>Magnetic Levitation.</li> </ul>
3.	Power Transmission & Distribution	<ul style="list-style-type: none"> <li>Necessity of neutral grounding, various methods of neutral grounding.</li> <li>Composite insulators.</li> <li>HV &amp; EHV graded cables.</li> </ul>
4.	Electrical Drives & Traction (PE-2)	<ul style="list-style-type: none"> <li>Direct Torque Control of 3-phase Induction Motors.</li> </ul>
5.	Digital control Systems (PE-2)	<ul style="list-style-type: none"> <li>Effect of Pole-Zero Placements.</li> <li>Detectability.</li> </ul>
6.	ANN & Fuzzy systems (PE-3)	<ul style="list-style-type: none"> <li>MATLAB Implementation of Fuzzy Systems.</li> </ul>
7.	Power Electronics	<ul style="list-style-type: none"> <li>Buck converter.</li> <li>Boost Converter.</li> <li>Buck-Boost converter.</li> </ul>
8.	Power System Analysis	<ul style="list-style-type: none"> <li>Concept of Voltage Stability</li> </ul>



b) The following Table presents the list of courses and topics added for R-20 in comparison with R-19 of II/IV Semester-I & II.

S.No.	Subject	Topics Added
1.	Network Theory	<ul style="list-style-type: none"> <li>AC Transients.</li> </ul>
2.	Microprocessors & Micro Controllers	<ul style="list-style-type: none"> <li>Instruction Format.</li> <li>Memory Organization.</li> </ul>
3.	Electromagnetics	<ul style="list-style-type: none"> <li>Poynting Theorem.</li> <li>Energy Conservation.</li> </ul>
4.	Performance of DC Machines & Transformers	<ul style="list-style-type: none"> <li>All-day Efficiency.</li> <li>Open-delta connection.</li> <li>Parallel operation of 3-phase Transformers.</li> </ul>
5.	Electrical Power Generation & Utilization	<ul style="list-style-type: none"> <li>Diesel Power Plants.</li> <li>Electric Traction.</li> </ul>

6. Any other item with the permission of the Chair:

a) Under any other item, the board has discussed and resolved to continue the same structure for M.Tech. (Control Systems) during 2021-22. The board discussed and recommended to include "Research Methodology" as a non-credit course and "Design Thinking" as a Professional Elective-1" along with the regular courses.

Date: 19-06-2021

C/s to: The Principal



**Dr. G. RAJA RAO**

Professor & HOD of EEE

Head of the Department  
**ELECTRICAL & ELECTRONICS :**  
 ANITS, Sangivalasa,  
 Visakhapatnam-531 162



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**ANIL NEERUKONDA INSTITUTE OF TECHNOLOGY & SCIENCES**  
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**DEPARTMENT OF INFORMATION TECHNOLOGY**

Date: 19.6.2021

**Minutes of EBOS Meeting held on 19.6.2021**

**EXTERNAL MEMBERS**

- |                     |   |   |
|---------------------|---|---|
| 1. Prof M.Shashi    | - | Dept of CSSE, Andhra University                                   |
| 2. Prof G Jaya Suma | - | HOD of IT, JNTUK UCEV   |
| 3. Mr.Manoj N Palat | - | IISc Bangalore, NIT Calicut,<br>Software architect ,IBM,Bangalore |
| 4. Mr.Vinay M       | - | Lead Manager ,HSBC, Bangalore                                     |
| 5. Mr.Bala Gupta    | - | Alumni, AWS cloud support, Amazon,Hyderabad                       |

**INTERNAL MEMBERS**

- |                             |   |                                      |
|-----------------------------|---|--------------------------------------|
| 1. Prof P.Padmaja           | - | HOD, IT, BoS Chairperson             |
| 2. Dr M.Rekha sundari       | - | Associate Professor, BoS coordinator |
| 3. Dr.N.Sharadja            | - | Associate Professor, Member, BoS     |
| 4. Dr. Ramprasad Reddy Sadi | - | Associate Professor, Member, BoS     |
| 5. Dr. A.Anupama            | - | Associate Professor, Member, BoS     |
| 6. Mr.G.Pandit sameul       | - | Assistant Professor, Member, BoS     |
| 7. Mr.Ch.D.Naidu            | - | Assistant Professor, Member, BoS     |
| 8. Mr.N.Aditya sundar       | - | Assistant Professor, Member, BoS     |
| 9. Mrs.M.Navya sri          | - | Assistant Professor, Member, BoS     |

**Agenda:**

1. R-19 Third year structure and syllabus
2. R-20 Second year structure and syllabus
3. Generalised Minors and Specialized Minors list and syllabus
4. Honors-IT list and syllabus
5. R-19 third yr Open electives list offered by IT
6. MOOCS for Minors and Honors

HoD,IT Prof.P.Padmaja welcomed all the external and internal members of BOS and stated that "to bring everything in line with agenda several brain storming sessions were conducted , starting from PAC meeting. PAC is Program Assessment Committee that constitutes Cohort Incharges. Three such PAC meetings were conducted followed by one DAC meeting and then followed by two IBOS meetings" and then started to describe about the list of courses in R-19 and R-20 Regulations as follows:

**R-19 3<sup>rd</sup> yr structure**

- In R-19 new courses introduced are AI ( was PE in R-15 is made as core subject in R-19) in 3-1 and, introduced IOT as PE and IOT lab as core in 3-2, introduced two elective labs each having three lab courses like Devops, ETL tools, Advanced Java Programming in elective lab 1 in 3-2. Mandatory non credit course "Constitution of India" in 3-1, Design Thinking in 3-2. (Structure and syllabus Enclosed in ANNEXURE 1).

- Finally it was resolved by all the experts that dept can proceed with the R-19 course structure and thus without any modifications R-19 course structure was approved by EBOS.

#### **R-20 2<sup>nd</sup> yr structure**

- Slight change of R-20 with R-19 was mentioned. The change of combining CO and Microprocessors in second year first sem. And replacing Microprocessors with Software engineering from 3<sup>rd</sup> yr sem I. And in place of software engineering in 3-1, Professional elective is kept and numbered accordingly.
- Thus in R-20, Professional elective starts from 3-1 whereas in R-19 Professional elective starts from 3-2. So in R-20 there is no PE in 4-2. In 4-2 only OE and Project Phase II is there. (Structure and syllabus Enclosed in ANNEXURE II.)
- Minors are the subjects which are offered to other branch students. Honors are offered to IT students by department of IT.
- HOD of IT stressed the uniqueness of IT branch that can focus more on application oriented subjects for all branches. Mentioned the importance of application oriented nature of subjects available in IT for placements and better settlement of students after completion of the degree. So keeping that as point of focus, Minors and Honors are listed that can be offered by Department of IT
- Generalized Minors list offered by IT to other branches was presented to experts both in structure form and syllabus of all the courses (Syllabus enclosed in ANNEXURE III)

#### **Generalized Minors offered by Information Technology**

SNo.	Course Name	L-T-P	CR	Prerequisites
1	Linux fundamentals	3-1-0	4	Programming
2	Internet Technology & Web Design	3-1-0	4	Basics of Web
3	GitHub Essentials	3-1-0	4	Programming
4	Relational Database Implementation	3-1-0	4	Databases
5	Mobile Technology	3-1-0	4	Programming
6	Insight to Cloud Computing	3-1-0	4	Databases

- Three tracks of Specialized Minors list offered by IT to other branches was presented to experts both in structure form and syllabus of all the courses offered in second year second sem. (Syllabus of first course in each track of 2-2 is enclosed in ANNEXURE III.)

#### **Specialized Minor Tracks offered by Information Technology**

SNo.	Course Name	L-T-P	CR	Prerequisites
<b>Track-1 Web Semantics</b>				
1	HTML 5 & CSS	3-1-0	4	Programming
2	XML&PHP	3-1-0	4	HTML Basics
3	JavaScript	3-1-0	4	Programming
4	UI & UX Design fundamentals	3-1-0	4	Design Principles
<b>Track-2 Networking &amp; Security</b>				
1	Cryptography	3-1-0	4	Mathematics
2	Network Security	3-1-0	4	Cryptography
3	Computer Forensics	3-1-0	4	Security
4	Blockchain Fundamentals	3-1-0		Security
<b>Track-3 Cloud Computing</b>				
1	Fundamentals of Cloud	3-1-0	4	Programming

1	Computer Forensics and Cyber Crime	3-1-0	4	Security	IT
2	Business Intelligence	3-1-0	4	Data Science	IT
3	Distributed and Cloud Computing: From Parallel Processing to IoT	3-1-0	4	Parallel Programming	IT
4	Software Design	3-1-0	4	Software Engineering	IT

**POOL-3**

1	Cyber Laws and Ethics	3-1-0	4	Cyber Crime	IT
2	Reinforcement Learning	3-1-0	4	Machine Learning	IT
3	Cloud Networking	3-1-0	4	Cloud Computing Networks	IT
4	Software Quality Analysis	3-1-0	4	Scripting Languages	IT

**POOL-4**

1	Blockchain Fundamentals	3-1-0	4	Security	IT
2	Computer Vision	3-1-0	4	Graphics Programming	IT
3	Cloud Security and Privacy	3-1-0	4	Cloud Computing Security	IT
4	Agile Software Development	3-1-0	4	Software Engineering	IT

## Streams

1. Security & Forensics
2. Data Engineering
3. Distributed and Cloud Computing
4. Software Engineering

- Experts appreciated the list of application oriented minor subjects and expressed their almost satisfaction over the applicability of minor courses for other branches.
- Experts expressed that minor courses offered are quite interesting and also appreciated that the courses are well organized and well distributed among various tracks/streams in different semesters.
- Finally it was resolved by all the experts that dept can proceed with the courses mentioned for Minors (Generalized and Specialized) and Honors with no changes.
- Finally it was resolved by all the experts that dept can proceed with the R-20 course structure and thus without any modifications R-20 course structure was approved by EBOS.

### **R-19 3<sup>rd</sup> yr , R-20 2<sup>nd</sup> yr , Minors, Honors Syllabus**

1. Course coordinators framed the syllabus in association with cohort in charges and the same was displayed by BOS coordinator.
2. R-19 3<sup>rd</sup> yr ( Enclosed in ANNEXURE I with % of change in syllabus if any) and R-20 2<sup>nd</sup> yr syllabus was presented. ( Enclosed in ANNEXURE II with % of change in syllabus if any).
3. Minor generalized courses syllabus, Specialized Minor tracks Syllabus and Honors courses syllabus of R-20 second yr was presented. ( Enclosed in ANNEXURE III & IV )
4. Cohort coordinators interacted with the externals during their cohort subjects during presentation.
5. All the Members actively participated in discussions

### **R-19 3<sup>rd</sup> yr Open electives list offered by IT ( syllabus enclosed in ANNEXURE V)**

#### **3-1**

SNo.	Course Name
1	Python Programming

#### **3-2**

SNo.	Course Name
1	Database Management Systems
2.	Fundamentals of Operating Systems

### **MOOCS for Minors**

1. Introduction to algorithms and analysis
2. Problem solving aspects and python programming

### **MOOCS for Honors**

1. Probability for Computer Science
2. Getting started with competitive coding

**The following suggestions are given by External members of BOS.**

1. Mr. Manoj NP suggested some text books, gave the reference links to add them as references in the syllabi for the subjects like Dynamic Programming, Data structures, Graph algorithms, Introduction to algorithms, Compilers, which are used as industry standard textbooks.
2. Prof. Shashi suggested to change the textbook for Machine learning to FM Alpaydmaz or Peter Flach and asked to change the syllabus according to the new textbook.
3. Prof. Jayasuma and Prof. M. Shashi suggested to float more no of subjects as MOOCs for honors and Minors.
4. Prof. M. Shashi showed high satisfaction towards the syllabus that was framed for "Practical approach of ML using Python" of Honors.
5. Mr. Manoj Palat suggested for Java 8 instead of Java 11. And it was answered by cohort incharge that in the lab they are already following Java 8 only.
6. Online resources were suggested by Mr. Manoj Palat for few courses.
7. Mr. Vinay expressed his satisfaction of the syllabus structure and content and highlighted that the syllabus of ETL tools was finely framed.
8. Mr. Manoj Palat suggested to arrange guest lectures on Design thinking by Industry persons.
9. Mr. Manoj Palat suggested to include Spring and Hibernate in Advanced Java programming syllabus.

*P. Padmaja*  
19/6/2021  
HOD, IT.

**Prof. P. PADMAJA**  
head of the Department  
Department of IT  
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## Department of ...Information Technology.....


### Consolidated report on feedback and action taken on syllabus/curriculum for the academic year.....2021-22.....

Stakeholder	Suggestions	Action Taken <small>(Highlighted with Blue Color in Annexure)</small>
Students	<ol style="list-style-type: none"><li>1. Suggested to include more interactive sessions in Analytics Lab.</li><li>2. Suggested to explore real-time applications, and problematic examples in Machine Learning.</li><li>3. Suggested to introduce the advanced technologies in Artificial Intelligence.</li></ol>	<ol style="list-style-type: none"><li>1. As per the feedback, we incorporated changes in Data Science Applications lab in R-19 (Annexure-I, Pg.No.40).</li><li>2. As suggested, organized the syllabus of Machine Learning in R-19, R-20 (Annexure-II, Pg.No.45).</li><li>3. Changes were incorporated by reorganizing the AI syllabus in R-19, R-20 (Annexure-II, Pg.No. 27 &amp; 28).</li></ol>
Faculty	<ol style="list-style-type: none"><li>1. Organization of the syllabus is required in Software Project Management.</li><li>2. Suggested to remove Unit-5 in Artificial Intelligence subject as it requires strong knowledge of Computer Graphics subject.</li><li>3. Suggested to realign Unit-1 in Artificial Intelligence.</li><li>4. Suggested to introduce advanced topics and organization of the syllabus in Machine Learning.</li><li>5. Suggested real-time exposure in Data Analytics may benefit the students to gain more knowledge.</li></ol>	<ol style="list-style-type: none"><li>1. As suggested, reorganized the syllabus in R-19, R-20 (Annexure-I, Pg.No. 33).</li><li>2. Changes were incorporated by replacing Robotics concept with Introduction to Neural Networks in R-19, R-20 (Annexure-II, Pg.No. 27 &amp; 28).</li><li>3. Unit-1 is realigned in AI (Annexure-II, Pg.No. 27 &amp; 28).</li><li>4. As suggested, introduced the concepts of Features, Ensembling Techniques, and Various Classifier Models in Machine Learning in R-19, R-20 (Annexure-II, Pg.No.45).</li><li>5. As per suggestion, we incorporated changes in Foundation on Data Science</li></ol>

		lab in R-19, R-20 (Annexure-I, Pg.No.39).
<b>Alumni</b>	1. Knowledge of dynamic coding is required from B. Tech II <sup>nd</sup> year onwards.	1. Suggestions by the alumni were considered, introduced Hacker rank and GDB compilers for Data Structures Lab in R-20.
<b>Employers</b>	<p>1. Students can create a GitHub account and have their written code there so that it would help interviewers to understand the student's interest and coding skills.</p> <p>2. Suggested to include advanced topics like R, Python in curriculum, as it is an on-demand course.</p> <p>3. New topics like AWS/AZURE needed to be incorporated in the curriculum to make the students industry ready.</p>	<p>1.1 GitHub Essentials subject was introduced as a Generalized Minor in R-20.</p> <p>1.2 GitHub Introduction was given in DevOps Lab (Elective) (Annexure-II Pg. No. 81)</p> <p>2. As suggested, we have Advanced Python, Deep Learning, Data Science, Elective Labs in our curriculum in II<sup>nd</sup> year I<sup>st</sup>, II<sup>nd</sup> semesters in R-19, R-20.</p> <p>3. Incorporated the new topic as a case study in Cloud Computing in R-19, R-20 (Annexure-I Pg. No. 20).</p>

  
Head of the department

  
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Principal  
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Minutes of the Board of Studies meeting held (online mode) on 19<sup>th</sup> June 2021

**Members Present:**

S.No	Name	Designation	Category
1	PROF. D. RAVI KUMAR	Prof., Dept. of Mech. Engg, IIT-Delhi	Academic Council Nominee
2	PROF. N. RAMANAIAH	Professor, Dept. of Mech. Engg., AUCE(A), Vishakapatnam.	University Nominee
3	Mr. K. VENKATA POORNESH	Sr. Engineer, BHEL, Vishakapatnam.	Industry Nominee
4	Mr. CH. SURYA TEJA	Assistant Director Naval Armament Services	Alumni Member
5	PROF. T.V. HANUMANTHA RAO	Principal, ANITS & Professor of Mechanical Engineering	Honorary Member
6	PROF. N. INDRAKIRAN	Prof., Dept. of Mech. Engg., ANITS	Member
7	Dr. K.SIVA PRASAD	Prof., Dept. of Mech. Engg. ANITS	Member
8	Dr. RAJESH GHOSH	Assoc. Prof., Dept. of Mech. Engg. ANITS	Member
9	M. RAJA ROY	Assoc. Prof., Dept. of Mech. Engg. ANITS	Member
10	R. CHANDRAMOULI	Assoc. Prof., Dept. of Mech. Engg. ANITS	Member
11	G. UMAMAHESWARA RAO	Sr. Asst. Prof., Dept. of Mech. Engg. ANITS	Member
12	M.S.S. SRINIVAS RAO	Sr. Asst. Prof., Dept. of Mech. Engg. ANITS	Member
13	DR. K. SATYANARAYANA	Asst. Prof., Dept. of Mech. Engg. ANITS	Member
14	DR. VINODH BABU MARRI	Asst. Prof., Dept. of Mech. Engg. ANITS	Member
15	DR. K. NARESH KUMAR	Asst. Prof., Dept. of Mech. Engg. ANITS	Member
16	DR. M. PRASANTH KUMAR	Asst. Prof., Dept. of Mech. Engg. ANITS	Member
17	DR. M. SRINIVASA RAO	Asst. Prof., Dept. of Mech. Engg. ANITS	Member
18	DR. V. BINDU NEEHARIKA	Asst. Prof., Dept. of Mech. Engg. ANITS	Member
19	DR. LENIIN V R	Asst. Prof., Dept. of Mech. Engg. ANITS	Member
20	D S S RAVI KIRAN	Asst. Prof., Dept. of Mech. Engg. ANITS	Member
21	P. RAMYA	Asst. Prof., Dept. of Mech. Engg. ANITS	Member
22	K. V. RUKMINI	Asst. Prof., Dept. of Mech. Engg. ANITS	Member
23	S. PHANI KUMAR	Asst. Prof., Dept. of Mech. Engg. ANITS	Member
24	K.S. LALITHA SOUJANYA	Asst. Prof., Dept. of Mech. Engg. ANITS	Member
25	M. SAILAJA	Asst. Prof., Dept. of Mech. Engg. ANITS	Member
26	LAKSHMI PRASAD B.S.	Asst. Prof., Dept. of Mech. Engg. ANITS	Member
27	B KRISHNA PRAFULLA	Asst. Prof., Dept. of Mech. Engg. ANITS	Member
28	BEHERA V. RAVI TEJA	Asst. Prof., Dept. of Mech. Engg. ANITS	Member
29	CH. MAHESWARA RAO	Asst. Prof., Dept. of Mech. Engg. ANITS	Member

31	B.B. ASHOK KUMAR	Asst. Prof., Dept.of Mech. Engg. ANITS	Member
32	R.D.V.PRASAD	Asst. Prof., Dept.of Mech. Engg. ANITS	Member
33	PERURI SIVA V N B GUPTA	Asst. Prof., Dept.of Mech. Engg. ANITS	Member
34	GOWRISANKAR KAITHA	Asst. Prof., Dept.of Mech. Engg. ANITS	Member
35	S.RAMANJANEYULU	Asst. Prof., Dept.of Mech. Engg. ANITS	Member
36	B. PRADEEP KUMAR	Asst. Prof., Dept.of Mech. Engg. ANITS	Member
37	G NARESH	Asst. Prof., Dept.of Mech. Engg. ANITS	Member
38	A P S V R SUBRAHMANYAM	Asst. Prof., Dept.of Mech. Engg. ANITS	Member
39	BODA GEETA CHANDRA SEKHAR	Asst. Prof., Dept.of Mech. Engg. ANITS	Member
40	P. BALA DIVYA	Asst. Prof., Dept.of Mech. Engg. ANITS	Member
41	R. VARAPRASAD	Asst. Prof., Dept.of Mech. Engg. ANITS	Member
42	J MAHESH	Asst. Prof., Dept.of Mech. Engg. ANITS	Member
43	PAVAN KUMAR IJJADA	Asst. Prof., Dept.of Mech. Engg. ANITS	Member
44	PROF. B. NAGARAJU	HOD, Dept.of Mech. Engg., ANITS	Chairman- Board of Studies (Mechanical)

#### Agenda:

1. Third year B.Tech Mech Engg. Curriculum under R19 regulations
2. Second year B.Tech Mech Engg. Curriculum under R20 regulations
3. Finalization of subjects exclusively for B.Tech Honor/minor/specialized minor as per APSICHE Guidelines
4. Any other item

The Board of studies meeting was held in the online mode on Google meet platform on 19<sup>th</sup> June 2021 in the department of Mechanical engineering. The agenda for the meeting is as stated above. The HOD initialized the meeting by exchanging greetings with the faculty of the department and external BOS members. He cordially invited the Principal and external BOS members to the meeting. He introduced Mr.Surya Teja, a distinguished Alumni of our department who has excelled in **Indian Engineering Services** by securing 15th rank at the All-India level as a new entrant to the BOS. He then placed the agenda before the committee members for discussion. The Salient points that came up in the meeting after purviewing the syllabus by the external BOS members are as follows:

1. In R-15 regulations, the course structure contained fixed subjects from the industrial engineering stream. It is decided that the students should be given a choice in selecting a subject of his choice from a spectrum of Industrial engineering related subjects depending on his interest. With this objective, a **Humanities elective** is introduced with four choices given to the student. This approach is in-line with CBCS. **Supply chain management** is newly introduced in the list of subjects pertaining to this stream.
2. Prof.Ravikumar, external BOS member from IIT-Delhi pinpointed that the number of lecture, tutorial & practical hours are not in conformance with the number of credits for some subjects placed before the committee. The Principal and HOD took a serious note of this lapse and advised the faculty to be highly vigilant in framing the syllabus, finalization of COs and mapping with the POs & PSOs and also the minor details like number of periods, credits etc.
3. The subject of **Design Thinking** was deliberated in the meeting from the perspective of whether to consider it as Theory (or) Practical. This was expressed by Prof.Ramaniah as the syllabus contained theoretical concepts and case studies. This subject was newly introduced

involved in developing new products. This was cleared by the chairman who said that this subject will be considered as Theory and internal evaluation will be based on the activities (case studies) performed by the students as regular assignments. However the external evaluation will be completely based on theoretical principles.

4. An external BOS member stated that the concepts related to Gerber's theory has to be included in the first unit of DMM-II, which was accepted.
5. It was suggested by the expert members that the subject of NDT should contain practical sessions, wherein the students are given an exposure to the ND techniques being adopted in the industry. The industrial expert from BHEL, Vizag said that he will certainly help the students in the practical sessions as the BHEL has excellent Non-Destructive testing facilities.
6. The subjects NDT & Additive Manufacturing is newly introduced into the R-19 curriculum as professional elective and the board was satisfied with the syllabus.
7. The Mechanical Engineering Labs-I & II which were a part of R-15 regulations is split into two different labs. The experiments in this lab are divided into thermal & design streams and introduced into the corresponding new labs rechristened as Thermal Engineering lab & Applied mechanics lab. By splitting the original lab into two, the number of experiments are also increased. The newly introduced Applied mechanics lab adds value to the practical exposure offered to the students. This lab is equipped with experimental setups drawn from the streams of kinematics, dynamics of machinery & design. This newly established facility is a feather in the cap of the mechanical engineering department as it can provide an opportunity for the faculty and students to execute projects practically which was not available earlier.
8. The newly introduced skill development course titled Computer Aided Modelling and its course contents in R-20 curriculum were thoroughly debated in the meeting. The external BOS members were initially not convinced with the title. Moreover the contents being introduced were also found to be marginally short of the requirements of a full-fledged CAD course. The Chairman put forth the idea behind introducing this subject, which meets the guidelines given by APSICHE. APSICHE has directed the autonomous institutions to introduce at least five skill development courses in their course structure. The computer aided modelling is one such course and gives a comprehensive overview and practise using CAD software for producing real-time 3D machine components and their Assemblies. This approach will be a complete replacement of producing 2D machine components and their assemblies by conventional drawing. Further the syllabus will also be revised as per the instructions of expert members to include topics on Boolean operations and other basics of CAD.
9. The percentage of new courses added to the curriculum in R-20 regulation is around 7% as compared to R-19 regulations. Similarly the number of new courses added in R-19 regulations as compared to R-15 regulations stands at around 13%. The percentage of syllabus revised in some of the courses for this academic year and newly introduced courses are as given in the Annexure-1&2.
10. The AP state government has given a blueprint of the programmes that are being introduced from this academic year (2021-22). The HOD apprised the external BOS members on this blueprint provided by APSICHE and said that three additional programmes are being added to the existing B.Tech programme. The newly introduced programmes are (a) B.Tech (Hon.), (b) B.Tech with MAJOR in Mechanical and GENERALIZED MINOR in any other branch, (c) B.Tech in Mechanical with SPECIALIZED MINOR in any other branch. The student has the opportunity to choose any of the four programmes being offered by the department which includes the normal B.Tech Mechanical.

The department of Mechanical engineering should therefore offer a B.Tech/B.Tech (Hon.) programme for its students, and a Generalized/Specialized Minor programmes in Mechanical for students of other branches.

11. The department has developed course structures for all the three new programmes and placed in the BOS for review. The experts after perusing the contents gave the following suggestions:

10.1- It is necessary to first layout the prerequisite subjects that a student has to complete in the preceding semester before encountering the subjects programmed in **B.Tech Honours**. This will ensure a free flow of the subject knowledge without any hitches.

10.2- The subjects introduced for mechanical minor courses were thoroughly examined by the external members and they felt that the normal stream subjects like machine design, Engineering mechanics etc., will not create interest in the students to opt for this programme. They advised either to introduce such subjects like Product Design, Statistical Quality Control etc., to make the programme relevant to their discipline (or) substitute this programme with a specialized minor in Industrial engineering. The chairman has taken note of this comment and said that the final decision will be taken.

10.3- The BOS members were satisfied with the programme being offered in **Robotics** as a specialized minor in mechanical engineering.

The external BOS members appreciated the efforts put in by the HOD and the faculty in preparing the course structures for the new programmes and syllabus for the subjects in R-19 & R-20 course structures. The newly introduced course structure and syllabus of subjects pertaining to III-Year (R-19) and II-year (R-20) were **ratified** by the BOS. The chairman finally thanked the external BOS members and all the faculty for their participation in the meeting.

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MECH. ENGG.

CC to: 1) Principal (for kind information)  
2) Controller of examinations  
**Annexure-1&2 enclosed**

To  
file of BOS Book

24-6-21  
PROFESSOR & HEAD  
Department of Mechanical Engineering  
ANIL NEERUKONDA INSTITUTE OF TECHNOLOGY & SCIENCES  
SANGIVALASA-531 162 VISAKHAPATNAM DIST. AP

*R. Jikanth*  
Convener, IQAC  
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*aw*  
Principal  
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**ANIL NEERUKONDA INSTITUTE OF TECHNOLOGY & SCIENCES  
(UGC Autonomous)**

(Affiliated to AU, Approved by AICTE & Accredited by NBA & NAAC with 'A' Grade)  
Sangivalasa 531 162, Bheemunipatnam Mandal, Visakhapatnam Dist

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Date: 30-05-2020

Dear Prof. P.S.T. Sai,

Professor, Department of Chemical Engineering

IIT M, Chennai

**Sub: ANITS – Meeting of the Board of Studies on 6<sup>th</sup> June, 2020**

Greetings from ANITS,

Trust this finds you in good health & spirits. As you would recall ANITS under autonomous status had been paving successful path for the last five academic years with your expert guidance and advice.

Now, in order to continue the same spirit and zeal, the sixth meeting of Board of Studies is scheduled to be held on **Saturday, the 6<sup>th</sup> June, 2020 at 10:00 AM** through online.

The agenda of the meeting is to finalize the 2<sup>nd</sup> year syllabus of R – 2019 under the autonomous status from the academic year 2020-21 and any other issue with the permission of the chair.

We shall be grateful if you kindly make it convenient to give your august presence in the meeting. The draft curriculum and the syllabus shall be sent soon for your peer review.

With warm regards,

Prof. T. V. Hanumantha Rao

PRINCIPAL



# ANIL NEERUKONDA INSTITUTE OF TECHNOLOGY & SCIENCES

(UGC AUTONOMOUS)

(Affiliated to AU, Approved by AICTE & Accredited by NBA & NAAC with 'A' Grade))

Sangivalasa 531 162, Bheemunipatnam Mandal, Visakhapatnam Dist

## DEPARTMENT OF CHEMICAL ENGINEERING

06-06-2020

Minutes of the meeting of the Board of Studies, Department of Chemical engineering (UG) held on 06-06-2020 at 10.00 AM through online (Skype platform).

### Members present:

1. Dr. Ch. Anil	Chairman, BOS, Chemical Engineering
2. Prof. S. Subba Rao	Member
3. Prof. R. Srikanth	Member
4. Dr. M. Shiva Naresh	Member
5. Prof. P.S.T. Sai	Member, Academic council nominee
6. Prof S. V. Naidu	Member, Andhra University nominee
7. Dr. A. Srinivasa Kumar	Member, Industry / Research

### Resolutions:

Chairman welcomed all the members for the BoS meeting.

- 1) The modifications made in the structure were presented to the members to make it inline with the AICTE model curriculum.
- 2) Syllabi for II/IV B. Tech. Chemical Engineering I and II Semesters were discussed and the experts felt satisfactory about the same.
- 3) Dr. A. Srinivas Kumar felt to include nanotechnology related separation techniques in MO theory or Lab course. Dr. M. Shiva Naresh informed that an elective course on Nanotechnology will be offered in final year where the students will be exposed to these techniques. Prof. S.V. Naidu asked to change the title of 2<sup>nd</sup> unit in MO theory course.
- 4) Prof. S.V. Naidu suggested to name the title of the 2<sup>nd</sup> part of the 5<sup>th</sup> unit of Numerical Methods in Chemical Engineering course as Numerical solutions of PDEs and include "Introductory methods of Numerical Analysis" by S. S. Sastry as text book. He also suggested to see that there will be no repetition of topics in Engineering Mathematics – IV and Numerical Methods in Chemical Engineering.
- 5) Prof. S. V. Naidu suggested to include solving of PDEs in Computational lab course. Dr. A. Srinivas Kumar advised to test the depth of understanding in computational lab instead of teaching many tools. Dr. Ch. Anil informed that one of the tools will be taught in the course and care will be taken to focus on depth of understanding.
- 6) Prof. P.S.T. Sai enquired whether credits will be given based on O column in the course structure. Dr. Ch. Anil informed that the O is just to indicate the students to

study those hours at home. They will not be taken into consideration for the allocation of credits.

- 7) The committee, in view of pandemic COVID – 19 suggested to follow the guidelines made by UGC / AICTE in conducting classes, examinations and in adopting evaluation procedures.

With these modifications, the committee approved the 2<sup>nd</sup> year syllabus.

*Ch. Anil*

(Dr. Ch. Anil)  
Chairman, BOS

HEAD,

DEPARTMENT OF CHEMICAL  
ENGINEERING

*R. Srinanth*

Convener, IQAC  
Anil Neerukonda Institute of  
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Visakhapatnam Dist.

*[Signature]*

Principal  
Anil Neerukonda Institute of  
Technology & Sciences  
Sangivalasa-531 162  
Visakhapatnam Dist.

Date: 31.05.2020

Minutes of BoS Meeting (Online via Skype) held on 31<sup>st</sup> May, 2020

Members Present:

- |                                  |  |
|----------------------------------|--|
| 1. Dr. B V S Viswanadham         | Professor, IIT(B), External Member     |
| 2. Dr. G Appa Rao                | Professor, IIT(M), External Member     |
| 3. Dr. C N V Satyanarayana Reddy | Professor, AU, University Nominee      |
| 4. Sri. D Kasi Visvesvara Rao    | Industry Member                        |
| 5. Dr. J Vikranth                | Assoc. Professor                       |
| 6. Mr. M K S S K Chaitanya       | Asst. Professor                        |
| 7. Mrs. P V R Sravya             | Asst. Professor                        |
| 8. Mr. T V Viswa Teja            | BoS-Civil Coordinator, Asst. Professor |
| 9. Mr. M Prem Chand              | Asst. Professor                        |
| 10. Mr. Ch Srinivas              | Asst. Professor                        |
| 11. Mr. K Suryanarayana          | Asst. Professor                        |
| 12. Mr. J Harshavardhana Reddy   | Asst. Professor                        |
| 13. Mr. N A N P Vital            | Asst. Professor                        |
| 14. Dr. B.N.D. Narasinga Rao     | Professor & HoD (In Chair)             |

Agenda:

- 1) Consideration of 4-Year Course structure for B.Tech. (Civil Engineering) under R-19 Regulations
- 2) Consideration of Syllabus for II Year I Semester and II Year II Semester B.Tech. (Civil Engineering) under R-19 Regulations
- 3) Paper setters for II Year I semester and II semester B.Tech (Civil Engineering)
- 4) Online examinations during lockdown
- 5) Any other item with the permission of the chair

Discussions & Resolutions:

1. The 4-Year Course structure for B.Tech. (Civil Engineering) under R-19 Regulations, circulated earlier by email is ratified.
2. Considered the detailed syllabus for II Year I semester and II semester B.Tech Civil Engineering under R-19 Regulations, for discussion and approved the same with necessary minor corrections.
3. The Board has authorized the Head of Department, Civil Engineering, ANITS to make minor changes in the syllabus, if deemed necessary, based on the feedback given by the concerned subject faculty member(s), keeping 90% to 95% of the overall content same.




Changes in syllabus effected is as given below

R20 - I B.Tech syllabus - No change


R19 - II B.Tech syllabus


CIV 212 - Building Planning and Drawing - 10%

5. List of paper setters for II Year B.Tech. Civil Engineering under R-19 Regulations is considered and approved. The Board, however, has authorized the Head of Department, Civil Engineering, ANITS to add or modify the list wherever necessary.
6. Members were informed that in view of lockdown due to COVID19, the Mid-II examinations for II and III Year II Semester students were conducted online in open book model. Members were also informed that the Project work end semester Viva examination was also conducted online through Skype based on UGC lockdown guidelines.
7. Discussed the innovative Teaching and Evaluation Techniques.

  
(Dr. B.N.D. NARASINGARAO  
Professor & Head  
Dept. of Civil Engineering

Dr. B.N.D. Narasingarao  
M.E. (Part II) IITC  
Professor & Head  
Department of Civil Engineering  
Neerukonda Institute of Technology and  
Sangivalasa, Bhimavaram Taluk, M/s  
Visakhapatnam - 531102

  
Convener, IQAC  
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Principal  
Anil Neerukonda Institute of  
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**Anil Neerukonda Institute of Technology and Sciences  
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**Minutes of Board of Studies Meeting**

**Department of CSE**

**Minutes of the Meeting:**

Subject : Board of Studies-Bachelor of Technology (CSE)  
Date : 23-05-2020  
Agenda : 1) Overview of B Tech CSE with Data Science Course Structure -R20  
2) Overview of B Tech CSE with AI & ML Course Structure -R20  
3) 2/4 B Tech CSE Syllabus in R19

**The following members were present in the meeting:**

- Dr. R. Sivaranjani, HoD & Professor, CSE, ANITS Chairman, BOS, CSE
- Dr. M. Rama Krishna Murthy, Professor, CSE, ANITS, Member
- Mr. S. Ratan Kumar, Associate Professor, CSE, ANITS, Member
- Dr. J. Hyma, Associate Professor, CSE, ANITS, Member
- Dr. K. S. Deepthi, Associate Professor, CSE, ANITS, Member
- Mr. G. Jagadish, Assistant Professor, CSE, ANITS, Member
- Dr. K. Suresh, Assistant Professor, CSE, ANITS, Member
- Dr. B. Prajna, Professor, CSE, AUCE University Nominee
- Dr. KVSUN RAJU, Professor, Department of Computer Science And Engineering, GVPC Degree & PG Courses Member
- Mr. T. Shyam Vamsi, IBM, Chennai, Alumni, Industry
- Dr. S. Raja, Scientist "G", Associate Director, NSTL, Visakhapatnam, Industry
- Roy Antony Arnold George Charles, Manager, Campus Connect, Infosys Technologies, Hyd, Industry

Chairman BOS officially welcomed all the internal and external members of the Board of Studies committee for the BOS meeting of B. Tech-CSE, 2020.

*R. Seikant*  
Convener, IQAC  
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Visakhapatnam Dist.

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On behalf of CSE, ANITS, Mr. S. Ratan Kumar, Assoc. Prof., Dept. of CSE welcomed the BOS committee and deliberated a quick view on R15 and R19 course structures which are modified to 160 credits according to the guidelines of AICTE and APSCHE.

The discussion started with the presentation of course structures of specialization courses (Data Science and AI&ML) with a detailing of their necessity in the current emerging scenario. It was mentioned 20 out of 160 credits are allotted for mandate courses of specialization. The four-year course structure is presented with a comparison to R19 BTech, in specific to number of professional and open electives.

The in-detail presentation started with---

- **Agenda 1: B Tech CSE with Data Science Course Structure -R20**

On this the external members have made the following deliberations:

- When it comes to the specialization course, the functional points like strategy for taking student input, course execution by department in various aspects have to carefully monitored.
- The core subjects of the CSE should not be neglected in view of accommodating the space for specialization courses.
- Cloud Computing subject syllabus has to be prepared inline with the industry requirements.
- Scope of the subject has to be reverified in Embedded Control Design.
- 4G/5G Networks can be introduced in place of Parallel Computing.
- Human Computer Interaction can be replaced with some other better option.
- In track 7, NOSQL can be introduced
- Track name "Natural Language Processing" can be changed to Speech and Text Processing or with some other better option.

- **Agenda 2: B Tech CSE with AI & ML Course Structure -R20 is presented.**

On this the external members have made the following deliberations:

- AI & ML Specialization and Data Science Specialization is close to each other, as there will be a chance of getting overlap in the course contents, it is suggested to carefully plan the tracks and other mandate subjects with respect to each other.
- Experiments in Deep Learning and Machine Learning should be properly framed without any overlap.
- Data Analysis course and lab can be replaced with some other option related to AI, provided there is no much dependency with AI and ML.
- In place of Data Analysis lab, lab courses related to the Industrial needs like creation of Bots etc can be revisited.

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- Robotics and Robotics Lab in place of Data Analysis is suggested and needs to be finalized.
- Agenda 3: 2/4 B Tech CSE Syllabus in R19 is presented.

Following the resolutions are taken after a rigorous discussion, debate among the members.

## SEMESTER-3

- Prescribed text book for Data Structures is suggested to take by Mark Allen Weiss.
- In JAVA, UNIT-4 and UNIT-5 are suggested to replace by OOPs with JAVA and J2EE.
- For Data Communication the prescribed and reference books are suggested to be interchanged and title also should be according to that.
- In the syllabus of Data Communication asked to check for the possibility to introduce IOT related protocols, Short range networks.
- Design thinking must be handled with different activities. If possible bring experts from Outside to handle the course.
- Java Lab experiments must be designed as case studies

## SEMESTER-4

- In Microprocessor subject recent processor study has to be incorporated.

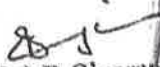
### General Suggestions given by the external committee:

- Number of prescribed textbooks should not be more than 1, it should be limited to maximum of 2 when the syllabus highly demands.
- Design Techniques in R19 subject has to be taught by computer science faculty to get an its application perspective to the Computer Science domain.
- Competitive programming in R19 should not be language specific and logic building part needs to addressed more.
- In labs scenario-based experiments have to be framed.
- Julia Programming can be introduced if possible.
- Proctoring system has to be improved. Like each proctor can take 5 second year students, 5 3rd Year students and 5 from final year not like in the existing system where each proctor is assigned with 15 from the same section.

Finally, the meeting ended with vote of thanks by BOS chairman.

  
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Principal  
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Prof. (Dr) R Sivaranjani  
Chairman  
BOS-CSE



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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Minutes of the 6<sup>th</sup> meeting of the BOS, Department of ECE (UG) held on 27.05.2020 at 9.30 AM through video conference.

1. To finalize the 2<sup>nd</sup> year syllabus of R-19
  2. New M.Tech Program in VLSI Design and Embedded Systems—dept of ECE
  3. Any other item with the permission of the chair  
The chairperson, Dr.V.Rajya Lakshmi, HOD, dept of ECE, ANITS hosted the online meeting conducted through video conference and welcomed all the BOS members present. The Committee discussed the contents in the 2<sup>nd</sup> year syllabus of R-19 and made the following recommendations/suggestions subject wise.
1. a) EM-III  
Prof. NVSN Sharma, Director IIIT, Trichy advised to modify Partial Differential Equations & Fourier series in view of applications of Electronic Circuits and suggested including one URL Link in references section.
  - b) Computer Architecture and Organization  
Prof. NVSN Sharma, Director IIIT, Trichy advised to handle CAO course by ECE faculty.  
Prof.K.ChandraBhusan Rao, JNTUV, suggested to ensure that the prerequisites are to be met before commencement of any course. He also advised to check the mismatch in CO-PO Mapping table of CAO from that of other courses.
  - c) Digital Logic Design  
Prof. NVSN Sharma, Director IIIT, Trichy advised to incorporate code converters in the syllabus that are being dealt in any DC course.
  - d) Signals & Systems  
Prof. NVSN Sharma, Director IIIT, Trichy, suggested that faculty who handles that course need to discuss all the Time Varying Systems in advance and then linear time variant systems, DFT & DTFT in detail. He also advised to add topics on identifying a system and to how to diagnose it along with incorporating Matlab oriented Books in references.  
He suggested discussing more about Under Sampling in Unit-V for its demand in recent applications.  
Prof. P. Ramakrishna Rao, Advisor, ANITS, suggested to include the topic Complex variable theory in course EM-III.
  - e) ECA-I  
Prof. NVSN Sharma, Director IIIT, Trichy, advised to elaborate the contents in topic attenuators.
  - f) ECA-I LAB  
Prof. NVSN Sharma, Director IIIT, Trichy, advised to combine experiments 3,4 & 5 and name it as Rectifiers in different configurations and advised to remove reference books in Lab course.

**g) Simulation LAB**

Prof. NVSN Sharma, Director IIIT, Trichy, advised to include digital clock type of projects after all experiments. He advised to replace the title of VHDL with HDL.

Prof.K.ChandraBhusan Rao, JNTUV, suggested adding online resources in references.

**h) Human Values and Professional Ethics**

Prof. NVSN Sharma, Director IIIT, Trichy, advised to mention the name of department handling that course.

Prof. P. Ramakrishna Rao, Advisor, ANITS, suggested to teach the course by guest lectures.

**i) EM-IV**

Prof. NVSN Sharma, Director IIIT, Trichy, advised to frame Mathematics syllabus in such a way that it should support the core branch Electronics and Communication Engineering. He Suggested to finalizing the syllabus after undergoing a thorough discussion among faculty belonging to Mathematics and ECE.

**j) Control Systems**

It is informed by chairperson that the syllabus is framed by department of EEE in accordance with syllabus in GATE EXAM and it is being taught by EEE faculty

**k) ECA-II**

Prof. NVSN Sharma, Director IIIT, Trichy, informed that the faculty has to avoid Black Board and use ICT Teaching methods to cover syllabus in time, and also suggested to classify the Power Amplifiers & MOSFET's considering present applications.

**l) Analog Communication**

Prof. NVSN Sharma, Director IIIT, Trichy, advised to include the topics Pre-emphasis and De-emphasis at circuit level along with applications. He also suggested to add capturing effect in FM.

**m) EMFT**

Prof. NVSN Sharma, Director IIIT, Trichy, suggested modifying the title of the course as "Electromagnetic Waves & Transmission Lines". He also informed that starting the course with transmission lines is advisable and suggested to reorder the units accordingly.

**n) MPMC**

Prof. NVSN Sharma, Director IIIT, Trichy, suggested to include topics like interfacing video camera or communication related device instead of stepper motor.

**o) ECA-II LAB**

Prof. NVSN Sharma, Director IIIT, Trichy, suggested to rename the experiments related to feedback amplifiers in order avoid ambiguity. Also advised to include an experiment to determine the output impedance of a given amplifier and oscillator.

**p) MPMC LAB**

Prof. NVSN Sharma, Director IIIT, Trichy, suggested including experiments that enable better understanding of Micro controller in this lab.

q) Prof. NVSN Sharma, Director IIIT, Trichy, informed that specifying marks in the syllabus has no significance in credit-based programs and advised to write the maximum marks for which internal exams and external exams are being conducted with duration of time.

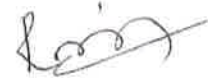
r) External BOS members advised to encourage students to consider this lockdown to be good opportunity for Startups to ask recruiters for conducting sessions to encourage students during this lockdown.

List of courses where syllabus is revised in the BOS meeting held on 27-05-2020 for the academic year 2020-21.

S.No	Course code	Name of the course	Year & Sem	Remarks	% change in syllabus
1.	ECE 213	Digital Electronics and Logic Design	II/IV Sem-I	One Unit is removed and rearranged	20
2.	ECE 214	Signals and Systems	II/IV Sem-I	UNIT-V is modified	10
3.	ECE 216	Electronic Circuits and Analysis-I	II/IV Sem-I	New content is included and rearranged	10
4.	ECE 223	Electronic Circuits and Analysis-II	II/IV Sem-II	Unit-IV is removed and rearranged	20
5.	ECE 224	Analog Communications	II/IV Sem-II	Unit-V is removed and rearranged	20

2. BOS recommended the proposal of starting an M.Tech course in VLSI Design and Embedded Systems in Electronics and Communication Engineering Department of the Institute.
3. Chairperson appraised all members about pass percentage of 19 batch & placements of 2020 batch and activities of faculty during lockdown, she also informed members that mid2 exams, project viva voce conducted online.

Meeting concluded with a vote of thanks presented by Mr.D.Anil Prasad, Academic Coordinator, to all the members.



Dr.V.Rajya Lakshmi  
Chairperson, BOS & HOD, ECE  
ANITS

Head of the Department  
Department of ECE  
Anil Neerukonda Institute of Technology & Sciences  
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Technology & Sciences  
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Visakhapatnam Dist.



Principal

Anil Neerukonda Institute of  
Technology & Sciences  
Sangivalasa-531 162  
Visakhapatnam Dist.



**ANIL NEERUKONDA INSTITUTE OF TECHNOLOGY & SCIENCES**  
(Permanently Affiliated to Andhra University, Approved by AICTE)  
Sangivalasa-531 162, Bheemunipatnam Mandal, Visakhapatnam District  
**DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING**  
Accredited by NBA

Minutes of the Board of Studies (BOS of EEE) meeting held on  
12<sup>th</sup> June 2020 (Friday) at 3.00 PM.

**MEMBERS PRESENT:**

1. Prof. Debapriya Das, Professor, Dept. of Electrical Engg., IIT Kharagpur.
2. Sri B. Srinivasa Reddy, General Manager (Electrical), RINL, VSP.
3. Mr. P.Santosh Kumar, Sr. Manager, L&T.
4. Prof. J. Vijaya Kumar, Professor, ANITS.
5. Dr. V. Murali, Assoc. Prof., ANITS.
6. Mr. S. Balamurali, Assoc. Prof., ANITS.
7. Mrs. K.V.R. Swathi, Asst. Prof., ANITS.
8. Mr. Kavala Kiran Kumar, Asst. Prof., ANITS.
9. Mr. B. Rajasekhar, Asst. Prof., ANITS.
10. Mr. R. Satish, Asst. Prof., ANITS.
11. Mrs. K. Lavanya, Asst. Prof., ANITS
12. Dr. Ch.V.N. Raja, Asst. Prof., ANITS.
13. Mr. M. Sudheer Kumar, Asst. Prof., ANITS.
14. Mr. K. Trinadh Babu, Asst. Prof., ANITS
15. Mr. L. Dinesh, Asst. Prof., ANITS.
16. Mr. S. Harish, Asst. Prof., ANITS.
17. Mr. L. Vijay, Asst. Prof., ANITS.
18. Mrs. D. Srilakshmi, Asst. Prof., ANITS.
19. Mr. V. Anil Kumar, Asst. Prof., ANITS.
20. Mr. N. Kiran, Asst. Prof., ANITS.
21. Mrs. T. V. Subhashini, Asst. Prof., ANITS.
22. Prof. G. Raja Rao (Chairperson), Professor & HOD of EEE, ANITS.

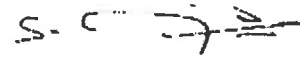
\* \* \*

1. Owing to the COVID-19 lock down, the BOS meeting is conducted online. The Chairperson welcomed all the BOS members and thanked the members for the support they have rendered.
2. The board has approved and ratified the online mode of internal/ sessional examinations conducted by the department/Institute in view of the lock down.



3. The Committee has mainly discussed on the scheme and syllabi of 2<sup>nd</sup> year 1<sup>st</sup> semester and 2<sup>nd</sup> semester courses to be taught by EEE faculty under R19 regulations. As resolved in last BOS meeting, introduction to BLDC motors is included in the PDMT course.
4. Mr. B. Srinivas Reddy suggested to include transducers topic in Electrical Measurements course.
5. Prof. Debapriya Das & Mr. B. Srinivas Reddy have suggested to include units of illumination and measurement of illumination in EPGU course.
6. The external members suggested to conduct objective type online examinations for the present final years so that the eligible students can get their degrees early as it got delayed already.

HOD of EEE



Dr. G. RAJA RAO

Head of the Department  
ELECTRICAL & ELECTRONICS ENGINEERING  
ANITS, Sangivalasa,  
Visakhapatnam-531 162

Date: 13-06-2020

C/s to: 1. The Principal

  
Convener, IQAC  
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Visakhapatnam Dist.

  
Principal  
Anil Neerukonda Institute of  
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**ANIL NEERUKONDA INSTITUTE OF TECHNOLOGY & SCIENCES  
(AUTONOMOUS)**

(Affiliated to Andhra University)

Sangivalasa-531 162, Bheemunipatnam Mandal, Visakhapatnam Dt.

DEPARTMENT OF INFORMATION TECHNOLOGY

**Minutes of External Board of Studies Meeting Held On 27-05-2020.**

**Minutes of the Meeting:-**

**Subject:** Board of studies – Bachelor of Technology (IT)

**Platform:** Zoom Online meeting. (Due to covid pandemic situation)

**Date:** 27 – 05 – 2020, Started at 10 am and lasted till 12.45 pm

**Agenda:-**

1. 2<sup>nd</sup> Year –R-19 course structure and syllabus finalization.
2. Professional Electives and labs.
3. Course structure of III/IV and IV/IV B.Tech-R-19
4. R-15 Open Elective-
  - i) Advanced Python Programming for Emerging Applications and Introduction to Competitive Coding Syllabus R-15- for IT students
  - ii) Python Programming Syllabus R-15- for Non CSE/IT students
5. Any other item with the permission of the chair.

**The following members were present in the meeting:**

Sl No	Name	Designation	Signature
1	Prof. P.Padmaja	Chairman, BOS, IT. HoD, IT, ANITS	
2	Prof. M.Shashi	Professor, Department of CS&SE, A.U. College of Engineering (A).Visakhapatnam	
3	Sri.Swaroop Jayanth	Design Architect, Salesforce.Hyderabad.	

4	Mr. Varadha Sri Harsha	Technical Lead, IBM., Visakhapatnam	Sri Harsha.V
5	Dr. M.Rekha Sundari	BOS coordinator, Assoc. Prof., IT, ANITS.	Mg
6	Dr. K. Sharada	Assoc. Prof., IT, ANITS.	PK
7	Mr. Ch. Demudu. Naidu	Sr. Asst. Prof., IT, ANITS.	

Prof P.Padmaja HoD, Dept of IT, chairman BOS welcomed all the External and internal members of BoS and introduced the dignitaries to everyone and presented the entire proposed curriculum(R-19) of 2019 batch. And also had discussion about conducting of internal exams/viva voce online for external project exams basing on UGC guidelines.

Followed with, Dr.M.Rekha Sundari BoS coordinator presented the whole syllabus of the II<sup>nd</sup> year in detail including the open elective "Advanced Python Programming" that is going to be offered for R-15 III/IV B.Tech Sem-I students.

Following are the suggestions given after a rigorous discussion among the members.

#### Suggestions from BOS -II/IV B.Tech IT structure and syllabus improvisations:

- The members suggested offering "Python Programming lab" in place of MATLAB for II/IV B.Tech Sem-I. MATLAB can be included as Elective lab in IV/IV Sem-I.
- Python Programming lab can be offered with 2.5 credits as 1 theory hour and 3 lab hours are there.
- To remove socially relevant project included in all semesters from 2<sup>nd</sup> year and replace it with industrial training to be completed in vacation after 3<sup>rd</sup> year and evaluated in IV/IV Sem-I with maximum of 2 credits.
- Data structures lab can be evaluated with the help of Hacker rank.
- Inclusion of oops concept in Python syllabus chapter-5 can have rethought.

#### Suggestions from BOS- III/IV B.Tech IT Structure :

- To include Artificial Intelligence as a compulsory subject III/IV B.Tech Sem-I but not as elective.
- To continue with web technologies lab III/IV B.Tech Sem-I.
- To include normalization as case studies part in DBMS Lab.
- To update collections list in Java theory.

- To include Devopps and ETL tools lab as elective labs for III/IV B.Tech Sem-II.

### **Suggestions from BOS- IV/IV B.Tech IT Structure:**

- Data science applications lab with R-programming can be replaced with Data science applications lab with Python and R-programming can be include in elective lab.
- Foundations of Data science can be allotted 4 credits instead of 3 credits.

Open Elective for R-15 III/IV B.Tech Sem-I students.is also presented and accepted.

1. Dept of IT Offering Open Elective to other depts:

Python Programming- for non CSE/IT students


2. Open Elective of Dept.of IT

Advanced Python Programming for Emerging Applications(2 Sections) and Introduction to Competitive Coding (1 Section)- for IT Students


### **Resolution:**

The curriculum and syllabus of R-19 second year was finalized. And Open Elective for R-15 III/IV B.Tech Sem-I students was finalized.

Prof.P.Padmaja Professor , HoD, IT , chairman BOS thanked all the external members and internal members for their valuable time, suggestions and inputs.

  
**Chairman, BOS, IT.**  
**HoD, IT, ANITS**  
**Prof. P.PADMAJA**  
head of the Department  
Department of IT  
ANITS, Visakhapatnam

  
Convener, IQAC  
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 Website: [www.anits.edu.in](http://www.anits.edu.in) email: [principal@anits.edu.in](mailto:principal@anits.edu.in)

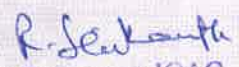
**Department of ...Information Technology.....**


**Consolidated report on feedback and action taken on syllabus/curriculum  
 for the academic year.....2020-21.....**

Stakeholder	Suggestions	Action Taken
Students	<ol style="list-style-type: none"> <li>1. Suggested to explore the basic concepts of microprocessors.</li> <li>2. Suggest to introduce emerging subjects as mandatory courses.</li> <li>3. Suggested to introduce trending topics as elective subjects.</li> </ol>	<ol style="list-style-type: none"> <li>1. As per the feedback, we incorporated changes in the microprocessor in R-19, and R-20.</li> <li>2. As per the feedback, we incorporated emerging subjects like IoT, and AI in R-19, and R-20.</li> <li>3. As per the suggestion, 5 elective streams like Networks, Data Engineering, Management, Security &amp; Embedded Systems and Software Engineering were introduced as elective courses in R-19.</li> </ol>
Faculty	<ol style="list-style-type: none"> <li>1. Introduce more case studies on ER models, conversion of ER model to Relational model, and normalizing database application in Database Management Systems Lab.</li> <li>2. Incorporate usage of telephone and cable networks for data transmission in the Data Communications subject.</li> <li>3. Suggested to include Multi-Threaded Programming, Free space management, Virtual machines, Thrashing and log-structured file in Operating Systems subject.</li> <li>4. Suggested to include Schemas, Item set, Ensembling, Issues in Data Warehousing and Mining.</li> <li>5. Suggested to restructure the syllabus for Computer Networks</li> </ol>	<ol style="list-style-type: none"> <li>1. After Discussion, Feedback given by the teachers was considered in Board of Studies held on 19/6/2021 and were incorporated in the syllabus of R-19, R-20.</li> </ol>

		lab in R-19, R-20 (Annexure-I, Pg.No.39).
<b>Alumni</b>	1. Knowledge of dynamic coding is required from B. Tech II <sup>nd</sup> year onwards.	1. Suggestions by the alumni were considered, introduced Hacker rank and GDB compilers for Data Structures Lab in R-20.
<b>Employers</b>	<p>1. Students can create a GitHub account and have their written code there so that it would help interviewers to understand the student's interest and coding skills.</p> <p>2. Suggested to include advanced topics like R, Python in curriculum, as it is an on-demand course.</p> <p>3. New topics like AWS/AZURE needed to be incorporated in the curriculum to make the students industry ready.</p>	<p>1.1 GitHub Essentials subject was introduced as a Generalized Minor in R-20.</p> <p>1.2 GitHub Introduction was given in DevOps Lab (Elective) (Annexure-II Pg. No. 81)</p> <p>2. As suggested, we have Advanced Python, Deep Learning, Data Science, Elective Labs in our curriculum in II<sup>nd</sup> year I<sup>st</sup>, II<sup>nd</sup> semesters in R-19, R-20.</p> <p>3. Incorporated the new topic as a case study in Cloud Computing in R-19, R-20 (Annexure-I Pg. No. 20).</p>

  
Head of the department

  
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Principal  
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Minutes of Board of studies meeting held on 23-05-2020 via online Google Meet video conferencing

In View of Global Pandemic-Covid-19, Board of Studies Meeting is held online through video conferencing. At the outset, the chairman of BoS, Prof. B. Nagaraju, welcomed the expert members and the faculty of the department. The agenda for this meeting is the discussion to be held on the syllabus for II-year (both semesters) as per R-19 course structure.

In order to provide an exposure to the changing trends in the modern day industry the department has brought about a metamorphic change in the course structure of R19 regulations. The subjects were modified accordingly by introducing new and latest topics and also by including new courses. The list of new courses introduced in the II- year (R19) are as mentioned below:

1. Metal cutting, Machine tools And Metrology
2. Basic Electrical Engineering.
3. Basic Electrical Engineering-Lab

In terms of percentage, the new courses added in the 2<sup>nd</sup> year course structure is 25% approx. as compared to previous regulations (R15)

The syllabus for the pertinent subjects was framed by the concerned faculty and was put before the Board of Studies for their comments and suggestions. The following observations/suggestions made by the members are given below subject wise:

Semester - 1

1. **Material Science & Metallurgy:**

1.1 Unit-II

Along with Iron-Carbon Phase diagram, binary phase diagrams for Al-Cu, Cu-Zn may be included provided the quantum of syllabus is within limits.

1.2 Unit-III

Al and Mg based alloys may be included if feasible. It is also suggested to add micro structures of steel and Cast Iron in the same unit.

2. **Mechanics of Solids :**

2.1 It is suggested to add Stress-Strain curve for both ductile & brittle materials instead of stress-strain curve for mild steel alone.

3. **Manufacturing Processes :**

3.1 Unit II

It is suggested to rearrange the topics of this unit in this order:

Permanent mould casting- Die & Centrifugal casting; Investment casting & Vacuum casting; Continuous casting & Ingot casting.

3.1.1 It is advised to include the topics on

a. Vacuum casting & Melting and b. Furnaces- Electric arc furnace & Induction furnace.

These modifications will be duly considered in revising the syllabus.

These modifications will be duly considered in revising the syllabus.

### 3.2 UNIT III

It was advised by the members to include the topic on weld defects testing. It was also advised to rearrange the different welding processes in the order- MMAW, SAW, PAW etc.

#### 4. MFT Lab :

4.1 It is suggested to add a demonstration experiment on 3-D printing as the students are learning it in the theory. It is also advised to look at the feasibility of including at least one experiment in Forming.

### Semester – 2

#### 5. Metal cutting & Machine tools And Metrology:

5.1 Manufacturing processes is a prerequisite for studying this subject and hence it may be included.

#### 5.2 Unit-V:

a. It is suggested to add **Line standards & End standards in this unit.**

5.3 In the reference books, 1) Manufacturing engineering and technology by Serope Kalpakjian 2) Fundamentals of Modern Manufacturing by Mikell P. Groover may be included.

#### 6. Machine Tools Lab:

It is suggested to modify the experiment titled “ Study of chip formation” to include measurement of physical quantities pertaining to the chip.

The Chairman BoS informed the members that in view of lockdown due to COVID19, the Mid-II examinations for II and III Year II Semester students were conducted online through Moodles, as per UGC Lockdown guidelines. Further also informed that the Project work end semester Viva examination was conducted online through Google Meet based on UGC lockdown guidelines.

The meeting concluded with the chairman thanking the members of the Board for their valuable suggestions.

  
(HOD- Mechanical)

CC to: 1) Principal

2) Dean of examinations

} for kind information

To  
File in Book of  
B.O.S.  
C.D.V. Nagaraju  
23.5.20

  
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Ref: ANITS/Gen-12/BOS Meeting Notice /2018-19

Date: 16<sup>th</sup> March, 2019

**MEETING NOTICE**

The fifth meeting of the Board of Studies is scheduled to be held on Saturday the 30<sup>th</sup> March, 2019 in our college premises at Visakhapatnam as per the following schedule. All the members are requested to attend the meeting.

**Agenda:**

1. To finalize the course structure of R - 2019
2. To finalize the 1<sup>st</sup> year syllabus of R - 2019
3. Any other item with the permission of the chair

**Common Board of Studies: 09:30 AM, venue: D - 108, Chemical Engineering Block**

**Individual Departments' Board Meeting: 10:30 AM to 01:00 PM in the respective Depts.**


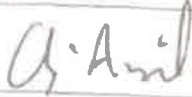



**Lunch: 01:00 PM to 02:00 PM**

**Concluding Session: 02:00 PM**

*T. Arun*  
PRINCIPAL

To:  
All the Members of BOS  
Special Invitees  
Deans, All HoDs  
Placement & Library  
Master file & BOS file

BOS Members of Chemical Engineering Dept.

S.No	Name of the member	Designation	Category	Signature of the member
1	Prof. S. Subba Rao	HoD, Ch.E., ANITS	Chairman, BOS. Ch.E	
2	Dr. Ch. Anil	Assoc. Prof., Ch.E., ANITS	Member	
3	Dr.M. Shiva Naresh	Assoc. Prof., Ch.E., ANITS	Member	
4	Prof. P.S.T. Sai,	Dept. of Chemical Engineering, IIT, Chennai,	Academic council Nominee	
5	Prof.P.King	Department of Chemical Engineering AUCE (A) AU, VSP	Academic council Nominee	
6	Prof. S.V.Naidu	Dept. of Chemical Engineering, AUCE (A), VSP	University Nominee	
7	Dr. A. Srinivas Kumar	Scientist 'G' & Technology Director NSTL, DRDO, VSP	Industry Nominee	



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Sangivalasa 531 162, Bheemunipatnam Mandal, Visakhapatnam Dist

## DEPARTMENT OF CHEMICAL ENGINEERING

30-03-2019

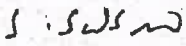
Minutes of the meeting of the Board of Studies, Department of **Chemical engineering** (UG) held on 30<sup>th</sup> March, 2019 at 10.30 AM.

### Members present:


- |                           |                                     |
|---------------------------|-------------------------------------|
| 1. Prof. S. Subba Rao     | Chairman, BOS, Chemical Engineering |
| 2. Dr. Ch. Anil           | Member                              |
| 3. Dr. M. Shiva Naresh    | Member                              |
| 4. Prof. P.S.T. Sai       | Member, Academic council nominee    |
| 5. Prof S. V. Naidu       | Member, Andhra University nominee   |
| 6. Dr. A. Srinivasa Kumar | Member, Industry / Research         |

### Resolutions:

- 1) Structure for B. Tech. Chemical Engineering and Syllabus for I/IV B. Tech. Chemical Engineering I and II Semester were discussed and the experts felt satisfactory about the same.
- 2) Prof P.S.T Sai and Prof. S. V. Naidu felt that it would be good to students if Engineering Physics and Engineering Physics lab are shifted from I Sem to II Sem and English and Language lab are shifted from II Sem to I Sem.
- 3) The external members felt happy about the inclusion of "Biology for Engineers" which is a mandatory course in AICTE and APSCHE syllabus of Chemical Engineering. Prof S. V. Naidu informed the board that they also included "Biology for Engineers" in the curriculum of Dept of Chemical Engineering, Andhra University.
- 4) The committee felt that "Process Instrumentation" can be removed and combined with Process Dynamics and Control. They also felt that the load for students in final semester should be either minimized or the subjects in eighth semester can be shifted to seventh semester, so that students can focus on internships and projects.
- 5) The committee suggested to conduct an induction programme for one week before commencement of the I year class work.

  
(Prof. S. Subba Rao)  
Chairman, BOS

  
Convener, IQAC  
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**DEPARTMENT OF CIVIL ENGINEERING**

Minutes of Board of Studies Meeting held on **30-03-2019**  
 Autonomous Regulations (2019)

Date : **March 30, 2019**  
 Time : **11:00 AM**  
 Venue : **Civil Engineering Department, ANITS**



- Agenda:
- To finalize the course structure of R - 2019
  - To finalize the 1<sup>st</sup> year syllabus of R - 2019
  - Any other item with the permission of the chair

**Members Present:**

- Dr. C.N.V. Sakanarayana Reddy, Professor, Civil, Andhra University
- Dr. G. Appa Rao, Professor of Civil Engg., IIT Chennai
- Dr. B.V.S. Vivanadham, Professor of Civil Engg., IIT Bombay
- Prof. A. Ram Mohana Rao, Professor of Civil Engg.
- Sri. J. Vikrant, Associate Professor of Civil Engg.
- Sri. T.V.V. Teja, Assistant Professor of Civil Engg.
- Sri. T. Kiran Kumar, Assistant Professor of Civil Engg.
- Mrs. P.V.R. Saiya, Assistant Professor of Civil Engg.
- Sri. M. Premchand, Assistant Professor of Civil Engg.
- Dr. B.N.D. Narasinga Rao, Professor and HoD, Dept. of Civil Engg. (In Chair)

**Minutes:**

- Considered the Four years Course Structure under R-19 Regulations and resolved the following
  - To move Open Elective Course from III - I to IV - I as there are more subjects in III - I
  - To give 1 extra credit to the subject RCS - II
  - To approve the revised Course Structure as enclosed.
- Considered the list of paper setters for 1 year courses and approved the same. The HoD-Civil is however authorized to add or modify the list when necessary.

(Dr. B.N.D. Narasinga Rao)  
 Chairman - Board of Studies  
 Civil Engineering - ANITS

**R. Seikanth**  
 Convener, IQAC  
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**Minutes of Board of Studies Meeting**

**Department of CSE**

**Minutes of the Meeting:**

Subject	:	Board of Studies-Bachelor of Technology (CSE)
Venue	:	LAB 2, Dept. of CSE
Date	:	30-3-2019
Agenda	:	1)Overview of B Tech Course Structure –R15 2)Overview of B Tech Course Structure –R19 3)Revising Course Outcomes –R15

**The following members were present in the meeting:**

- Dr. R.Sivaranjani, HoD&Professor, CSE, ANITS Chairman, BOS, CSE
- Mr. S. Ratan Kumar ,Assoc. Prof., CSE, ANITS,Member
- Dr. Tusarkanti Mishra. Assoc. Prof., CSE, ANITS,
- Dr M Rama Krishna Murthy,Assoc. Prof., CSE, ANITS,Member
- Dr J Hyma,Assoc. Prof., CSE, ANITS,Member
- Mr. B.Ravi kiran,Sr.Asst. Prof., CSE, ANITS Member
- Dr K S Dcepthi,Asst. Prof., CSE, ANITS, Member
- Mr. G.Jagadish, Asst. Prof., CSE, ANITS, Member
- Mr. Ch. SeshadriRao.Asst. Prof., CSE, ANITS .Member
- Mr. K. Suresh,Asst. Prof., CSE, ANITS ,Member
- Dr. B Prajna,Professor, CSE,AUCE University Nominee
- Dr. KSVSN RAJU,Professor,Department of Computer Science And Engineering.GVPC Degree & PG Courses Member
- Mr. T. Shyam Vamsi,IBM ,Chennai,Alumni,Industry
- Dr. S. Raja,Scientist "G",Associate Director,NSTL, Visakhapatnam ,Industry
- Roy Antony Arnold George Charles,Manager, Campus Connect,,Infosys Technologies ,Hyd, Industry

**Apologies:**

1. Dr.B.Majhi, Professor,CSE, NIT-Rourkela, Academic Council Nominee
2. Dr.Rajib Mull, Professor, CSE, IIT-Kharagpur, Academic Council Nominee

# Anil Neerukonda Institute of Technology and Sciences (Autonomous)

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Chairman BOS officially welcomed all the members for the BOS B. Tech-CSE, B. Tech. She also informed the house, the absents of other members due to some unavoidable circumstances.

Mr. S. Ratan Kumar, Assoc. Prof., Dept. of CSE presented the details of B Tech Program offered in R15 and Proposed B Tech Course Structure in R19. Members deliberated on the design of the curriculum based on resolutions taken on the joint board of studies of all departments.

Following the resolutions are taken after a rigorous discussion, debate among the members.

All members approved vision & mission statements, program educational objectives (PEO), program outcomes (PO) and program specific outcomes (PSO) of CSE department.

## SUMMARY OF BTECH COURSE

- The overall summary of the B.Tech course is presented for feedback.
- Comparison of CSE curriculum with APSCHE(2019), AICTE-(2018) proposals is displayed.
- The total credits offered is 160 as per the guidelines of AICTE, APSCHE.

### SEMESTER- I

- No changes mentioned

### SEMESTER- 2

- No changes mentioned

### SEMESTER- 3

- Introduction of JAVA theory & Lab in place of C++ theory & Lab to accommodate Python programming in Semester 5.

### SEMESTER- 4

- Placing OS theory & Lab in place of JAVA theory & Lab

### SEMESTER- 5

- Introduction of Python Programming theory & Lab in place of OS Theory & Lab.
- Python syllabus must be framed including Python Structured Programming & Object Oriented Programming Concepts

### SEMESTER- 6

- OS must be completed before DBMS.
- STL in C++ (Version 17) must be introduced in CP (Competitive Programming Course)

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## SEMESTER- 7


- In WT course HTML5, CSS3 must be covered.
- Project 1 deliverables must include SRS and Test Cases.
- Application oriented projects must be encouraged along with Research Oriented Project

## SEMESTER- 8

- Electives presented in Tracks was well taken by the members.
- Freedom must be given in selecting any elective from any track.
- Introduction of User Experience Design in Track 1
- Introduction of Business Intelligence and Social Network Analysis in Track 2.
- Introduction of IOT in Track 3.
- Introduction of Edge Computing in Track 4.
- Introduction of Dockers in the course " Virtual machine Essentials".
- Introduction of Gamification in Track 5.
- If possible introduce "Digital Signal Processing " Course .
- No repetition must be there in any of the tracks.

All members approved the revised course outcomes for the courses offered in R15.

Finally the meeting ended with vote of thanks BOS chairman.

  
Prof. (Dr) R Sivaranjai  
Chairman  
BOS-CSI

  
Convener, ICAC  
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ANIL NEERUKONDA INSTITUTE OF TECHNOLOGY & SCIENCES  
(UGC AUTONOMOUS)

(Affiliated to AU, Approved by AICTE & Accredited by NBA)  
Sangivalasa-531162, Bheemunipatnam Mandal, Visakhapatnam Dt.

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Minutes of the 5<sup>th</sup> meeting of the BOS, Department of ECE (UG) held on 30.03.2019 at 10.30 AM in the DSP lab with the following agenda.

1. To finalize the course structure of R-2019
2. To finalize the 1<sup>st</sup> year syllabus of R-2019
3. Any other item with the permission of the chair

List of members present:

S.No	Name of the member	Designation	Category
1.	Dr. V. Rajya Lakshmi	Head, ECE, ANITS	Chairman, BOS, ECE
2.	Dr.K.MuraliKrishna	Prof., ECE, ANITS	Member
3.	Dr. G.Manmadha Rao	Prof., ECE, ANITS	Member
4.	Mr. S. Balaramamurthy	Assoc. Prof., ECE, ANITS	Member
5.	Dr.B.SomaSekhar	Assoc. Prof., ECE, ANITS	Member
6.	Dr. Ch Praveeen Babu	Assoc. Prof., ECE, ANITS	Member
7.	Dr.S.Srinivas	Assoc. Prof., ECE, ANITS	Member
8.	Dr.P.MurugaPandiyan	Assoc. Prof., ECE, ANITS	Member
9.	Dr.S.Ravi	Assoc. Prof., ECE, ANITS	Member
10.	Dr.D.Easwara Chaitanya	Asst. Prof. ECE, ANITS	Member
11.	Mr. D. Anilprasad	Asst. Prof. ECE, ANITS	Member
12.	Mr. J. Bhaskara Rao	Asst. Prof. ECE, ANITS	Member
13.	Mr. A. Lakshminarayana	Asst. Prof. ECE, ANITS	Member
14.	Mr. Vijaya Kumar Sahu	Asst. Prof. ECE, ANITS	Member
15.	Mr.N.Srinivasa Naidu	Asst. Prof. ECE, ANITS	Member
16.	Prof. P. Ramakrishna Rao	Advisor, ANITS	Academic council nominee
17.	Prof.K. Chandra Bhusahan Rao	Prof., Dept of ECE, JNTUV	Academic council nominee
18.	Prof.N.V.S.N.Sharma	Prof., Dept of ECE, NITW	University Nominee
19.	Mr.N.Srinivas	Avantel, Visakhapatnam	Industry
20.	Mr. M. Durga Prasad	JTO, BSNL	Alumni
21.	Prof.K.S.Ranga Rao	Prof., ECE, ANITS	Member

The chairperson, Dr.V.Rajya Lakshmi, HOD, dept of ECE, ANITS welcomed all the BOS members present in the meeting. The Committee discussed the points given in the agenda submitted by the Dr.V.Rajyalakshmi and made the following recommendations/suggestions.

1. a) Prof. P. Ramakrishna Rao and Prof.K.Chandra Bhusahan Rao, expressed that Engineering is an extension of physics and it would be helpful to the students if course "Physics" is studied in First year I semester rather than in II semester.  
b) Prof.K.Chandra Bhusahan Rao suggested the course "Basic Electronics Engineering" should be in First year II semester



- c) Prof. P. Ramakrishna Rao, expressed that it will be difficult to ensure maximum student participation in Mandatory non-credit course. Prof. V. Rajya Lakshmi replied that maximum student participation in any Mandatory non-credit course can be achieved through preparation of the timetable in such a way that Mandatory non credit course is in between any other two credit courses.
- d) Prof. K. Chandra Bhusahan Rao suggested the name of the "simulation lab" has to be very specific such that student's specific skills can be evident in their marks sheet for the purpose of getting into higher studies/placements.
- e) Prof. K. Murali Krishna, expressed that ICA Lab may be interchanged with AC & DC Lab as Analog Communications and Digital communications are covered in previous semesters.
- f) Mr. G. Bhaskar, Aventel, expressed that "Speech processing" Professional Elective-3 can be interchanged with "WSN" in Professional Elective-5 as Speech processing required to be studied after Digital signal processing which is in Third year II semester.
- g) Prof. K. Chandra Bhusahan Rao advised to concentrate towards GATE instead of "Quantitative Aptitude & Verbal Aptitude-I & II" as Exit exam is mandatory as per MHRD by 2021.
- h) Prof. K. Chandra Bhusahan Rao advised the following in general
- (i) Focus should be on open ended questions/ to deal in classroom.
  - (ii) Learning by doing: Hands on experience in labs
  - (iii) Prescribed text books should be chosen keeping in view of GATE
  - (iv) Mini Projects from First year onwards based on programming
2. a) Prof. K. Chandra Bhusahan Rao suggested the text book Dennis Ritchie, to be made as prescribed text book in the course ECE 114 (Programming for problem solving) as the text book enables the students to learn programming through practicing.
- b) Prof. K. Chandra Bhusahan Rao suggested to ensure that syllabus of course "Mathematics" is in line with ECE PEOs and POs
- c) Prof. P. Ramakrishna Rao, expressed that "Complex variables" in Mathematics course need to be covered before the advent of "Laplace Transforms"
- d) Prof. K. Chandra Bhusahan Rao suggested the text book Erwin Kreyszig and Griffiths, to be made as prescribed text books in the "Mathematics" courses
- e) Prof. K. Chandra Bhusahan Rao suggested the syllabus of "Basic Electronics Engineering" must be written in sequence from prescribed text book and advised to give assignments, Questions in Mid-exam from the same.
- f) Prof. P. Ramakrishna Rao, advised AC circuits can be taught from Basic Electrical Engineering to understand rectifier circuits in a better way.

Prof.K.Chandra Bhusahan Rao enquired about how “Environmental studies” is going to be taught by chemistry faculty and suggested that the syllabus of course “Environmental studies” should be prepared keeping in view of ECE graduates.

g)Prof.K.Chandra Bhusahan Rao suggested to include the contents such as e-waste management and fundamentals of EMI ( shielding, grounding, etc)/ Case studies in the UNIT-V of course “Environmental studies” and emphasized on the significance of radiation effects on human beings.

h)Mr.M.Durga Prasad, Suggested to provide handouts of the content relevant to case studies to students.

i)Prof.K.Chandra Bhusahan Rao suggested that prescribed textbooks need to be followed by faculty and inorder to ensure the same, it is advised to ask the faculty to submit coverage plan for the courses of all basic sciences in advance signed by head of department.

j)Prof.K.Chandra Bhusahan Rao expressed that physics syllabus is heavy and suggested the text book Halliday / Resnick, to be made as prescribed text book in the course ECE 122 (Physics) and to ensure redundancy of the contents is not present.

k)Prof. V.Rajya Lakshmi informed the members that in the course “Workshop” soldering and PCB Design are introduced keeping in view of ECE graduates and all members agreed that it is very essential to the ECE students in the current trend.

l)Prof. K. S. Ranga Rao, expressed that PCB design can be renamed as Layout design on PCB.

m)Prof.K.MuraliKrishna, said that soldering can be done in the Electronic circuits Laboratory

n)Prof. P. Ramakrishna Rao, expressed that the faculty who are likely to teach course “Ethics” should have good communication skills.

The chairperson thanked all the members for their active participation and valuable suggestions. She informed that all modifications suggested will be incorporated in the proposed structure for curriculum regulations 2019 and sent to the members for their approval.

Mr. S. Balaramamurthy, proposed the vote of thanks.



Dr.V.Rajya Lakshmi  
Chairperson, BOS & HOD, ECE  
ANITS

Head of the Department  
Department of ECE  
Anil Neerukonda Institute of Technology & Sciences  
Sangivalasa - 531 162

R. Seikanth  
Convener, IQAC  
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Sangivalasa-531 162  
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Principal  
Anil Neerukonda Institute of  
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Sangivalasa-531 162  
Visakhapatnam Dist.



**Minutes of the Board of Studies (BOS of EEE) meeting held on  
30<sup>th</sup> March 2019 (Saturday) at 11.30 AM.**

**MEMBERS PRESENT:**

1. Prof. Debapriya Das, Professor, Dept. of Electrical Engg., IIT Kharagpur.
2. Prof. B.M. Mohan, Professor, Dept. of Electrical Engg., IIT Kharagpur.
3. Sri B. Srinivasa Reddy, Asst. General Manager (Electrical), RINL, VSP.
4. Sri K. Anil Kumar, Asst. Manager (Electrical), RINL, VSP.
5. Mr. V. Murali, Assoc. Prof., ANITS.
6. Mr. S. Balamurali, Assoc. Prof., ANITS.
7. Mr. J. Vijaya Kumar, Assoc. Prof., ANITS.
8. Mrs. K.V.R. Swathi, Asst. Prof., ANITS.
9. Mr. Kavala Kiran Kumar, Asst. Prof., ANITS.
10. Mr. B. Rajasekhar, Asst. Prof., ANITS.
11. Mr. R. Satish, Asst. Prof., ANITS.
12. Mrs. K. Lavanya, Asst. Prof., ANITS.
13. Mr. Ch.V.N. Raja, Asst. Prof., ANITS.
14. Mr. M. Sudheer Kumar, Asst. Prof., ANITS.
15. Mr. L. Dinesh, Asst. Prof., ANITS.
16. Mr. L. Vijay, Asst. Prof., ANITS.
17. Mr. A. Dhanamjay, Asst. Prof., ANITS.
18. Mr. K. Trinadh Babu, Asst. Prof., ANITS.
19. Mr. J. Uday Venkatesh, Asst. Prof., ANITS.
20. Mrs. V. Rangavalli, Asst. Prof., ANITS.
21. Mr. V. Anil Kumar, Asst. Prof., ANITS.
22. Mr. S. Harish, Asst. Prof., ANITS.
23. Mrs. T. V. Subhashini, Asst. Prof., ANITS.
24. Ms. D. Srilakshmi, Asst. Prof., ANITS.
25. Mr. N. Kiran, Asst. Prof., ANITS.
26. Mr. T. Subrahmanyam, Asst. Prof., ANITS.
27. Prof. G. Raja Rao (Chair person), Professor & HOD of EEE, ANITS.

\* \* \*

1. The Chair person welcomed all the BOS members of the department and thanked the members for the support they have rendered to the department during the last four years.
2. The board has approved the course 'Competitive Programming' which was offered as an additional elective in Professional Elective – 1 in 3<sup>rd</sup> year 2<sup>nd</sup> semester during 2018-19. It is also resolved to continue to offer the same course for the coming batches.

3. The Committee has mainly discussed on the scheme and syllabi of 1<sup>st</sup> year 1<sup>st</sup> semester and 2<sup>nd</sup> semester courses to be taught by EEE faculty.
4. The external members from IIT Kharagpur have suggested to introduce NPTEL course on C – programming in support of course “Programming for Problem Solving” in 1<sup>st</sup> year 2<sup>nd</sup> semester.
5. The board has discussed and resolved to include BLDC motors in the syllabus of PDMT course in 2<sup>nd</sup> year 2<sup>nd</sup> semester.
6. As the future power demand will mostly be met by non conventional energy sources, the board has resolved to give special emphasize on fuel cells and batteries by including these topics in RET course or some other appropriate course.
7. Mr. B. Srinivasa Reddy and Prof. Debapriya Das have suggested to offer Power Quality, HVDC & FACTS, Smart Grid as professional electives.
8. Prof. B.M. Mohan & Mr. K. Anil Kumar have suggested to include ‘Machine Learning’ as one of the PEs or OEs.
9. The board has discussed in full length and resolved to introduce ‘Comprehensive Viva’ for 2 credits at the end of 4<sup>th</sup> year 2<sup>nd</sup> semester. However, to accommodate these 2 credits the final project work credits have been reduced from 8 to 6 credits.
10. The board members were happy about the modifications and the scheme & syllabi of 1<sup>st</sup> year.



HOD of EEE  
Dr. G. RAJA RAO  
Head of the Department  
ELECTRICAL & ELECTRONICS ENGINEERING  
ANITS, Sangivalasa,  
Visakhapatnam-531 162

Date: 01-04-2019

C/s to: 1. The Principal

  
Convener, IQAC  
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**DEPARTMENT OF INFORMATION TECHNOLOGY**



**3<sup>rd</sup> Board of Studies Meeting Held on 30-03-2019**

**Department of Information Technology**

**Minutes of the Meeting:-**

**Subject:** Board of studies – Bachelor of Technology (IT)

**Venue:** Conference Hall, Main Block, ANITS.

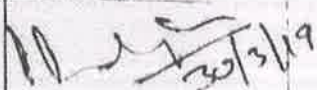


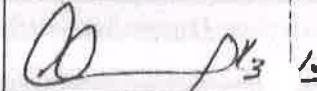
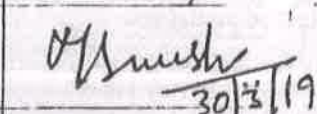
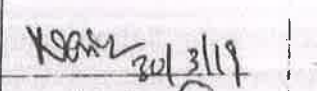
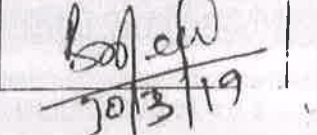
**Date:** 30 – 03 – 2019

**Agenda:-**

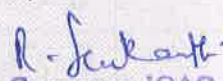
1. R19 Course Structure and 1<sup>st</sup> year syllabus finalization.
2. Scheme for 2019 admitted batch.
3. Any other item with the permission of the chair.

**The following members were present in the meeting:**

Sl No	Name	Designation	Signature
1	Prof. Suresh Chittineni	Chairman, BOS, IT. HoD, IT, ANITS	
2	Prof. M Shashi	Professor, Department of CS&SE, A.U. College of Engineering (A).	
3	Prof. S Krishna Rao	Professor & HoD of IT, CRR College of Engineering.	
4	Mr. Ravichandra Kolluru	Location Head, Tech Mahindra, Visakhapatnam.	
5	Mr. Varadha Sri Harsha	Technical Lead, IBM, Visakhapatnam.	

SI No	Name	Designation	Signature
6	Prof. P Padmaja	Prof., IT, ANITS.	 30/3/19
7	Dr. G Srinivas	Assoc. Prof., IT, ANITS.	 30/3/19
8	Dr. M Rekha Sundari	Assoc. Prof., IT, ANITS.	 30/3/19
9	Dr. K Sharada	Asst. Prof., IT, ANITS.	 30/3/19
10	Dr. V Suresh	Asst. Prof., IT, ANITS.	 30/3/19
11	Mr. Ch Demudu Naidu	Sr. Asst. Prof., IT, ANITS.	 30/3/19
12	Mrs. B Meena	Asst. Prof., IT, ANITS.	 30/3/19

  
**Chairman, BOS, IT.**  
**HoD, IT, ANITS**

  
**Convener, IQAC**  
**Anil Neerukonda Institute of**  
**Technology & Sciences**  
**Sangivalasa-531 162**  
**Visakhapatnam Dist.**

  
**Principal**  
**Anil Neerukonda Institute of**  
**Technology & Sciences**  
**Sangivalasa-531 162**  
**Visakhapatnam Dist.**

**Minutes of Board of Studies Meeting**  
**Department of Information Technology**

**Minutes of the Meeting:**

**Subject:** Board of Studies-Bachelor of Technology (IT)

**Venue:** Conference Hall, Main Block, ANITS.

**Date:** 30-3-2019.

**Agenda:**

1. R19 Course Structure and 1<sup>st</sup> year syllabus finalization.
2. Scheme for 2019 admitted batch.
3. Any other item with the permission of the chair.

**The following members were present in the Meeting:**

1. Prof. Suresh Chittineni , Chairman, BOS, IT, HoD, IT, ANITS
2. Prof. M Shashi, Professor, Department of CS&SE, A.U. College of Engineering (A). H.S.I
3. Prof. S Krishna Rao , Professor & HoD of IT, CRR College of Engineering.
4. Mr. Ravichandra Kolluru, Location Head, Tech Mahindra, Visakhapatnam.
5. Mr. Varadha Sri Harsha, Technical Lead, IBM, Visakhapatnam. Sri Harsha
6. Prof. P Padmaja, Prof., IT, ANITS.
7. Dr. G Srinivas ,Assoc. Prof., IT, ANITS.
8. Dr. M Rekha Sundari, Assoc. Prof., IT, ANITS.
9. Dr. K Sharda, Asst. Prof., IT, ANITS.
10. Dr. V Suresh, Asst. Prof., IT, ANITS.
11. Mr. Ch Demudu Naidu, Sr. Asst. Prof., IT, ANITS.
12. Mrs. B Meena, Asst. Prof., IT, ANITS.

**Discussions:**

- Prof. Suresh Chittineni, Chairman BOS and HoD, IT officially welcomed all the members for the third BOS B.Tech-IT and presented objective, achievements and future endeavors of the Department
- Mrs. B. Meena, Assistant Professor presented the draft curriculum of B.Tech II Regulations 2019
- Members deliberated on the design of the new curriculum based on resolutions taken on the joint board of studies of all departments.

Following are the resolutions are taken after a rigorous discussion among the members.

## Suggestions from BOS :

- The I/IV sem 1 "Problem solving with C lab" set 2 experiments can be arranged Low, Medium and High Level separately. The students can be given an opportunity to come up with their own case study and solve it.
- The course "Computer Communications" which is offered in III/IV Sem 1 can be renamed as "Computer Networks"
- The lab Internet of Things has been introduced in III/IV sem 2
- Labs related to one of the electives is introduced in IV/IV sem 1
- Certain courses are swapped in the proposed curriculum They are as follows:
  - The Course Software Engineering and UML & Testing Lab with Database Management Systems and Database Management Systems Lab
  - The course Formal Languages Automata Theory with the course Design & Analysis of Algorithms
  - The course Compiler Design with Cryptography & Network security
- The members suggested various stream of electives as follows:

YEAR - SEM	III/IV SEM 1	IV/IV SEM 1	IV/IV SEM 2
<b>ELECTIVE-STREAM</b>	<b>Professional Elective - 1</b>	<b>PE-III</b>	<b>PE-V</b>
Stream 1 : Networks	Unix Network Programming	Mobile Adhoc Networks	Storage Area Networks
Stream 2: Data Engineering	Data Warehousing and Data Mining	Machine Learning	Big Data
Stream 3 : Management	Business Automation	Software Project Management	Principles of Economics Management
Stream 4 : Security & Embedded	Embedded Systems	Cyber Security	Malware Analysis
Stream 5 : Software Engineering	Management Information Systems	Software Testing Methodologies	Design Patterns
<b>ELECTIVE-STREAM</b>	<b>PE-II</b>	<b>PE-IV</b>	<b>PE-VI</b>
Stream 1 : Networks	Distributed Operating Systems	Cloud Computing	Network Management Systems
Stream 2: Data Engineering	Artificial Intelligence	Soft Computing	Deep Learning
Stream 3 : Management	Operation Research	Intellectual Property Rights	E-Commerce
Stream 4 : Security & Embedded	Internet Of Things	Digital Forensics	Law & Ethical issues of Security
Stream 5 : Software Engineering	Dev Apps	Software Project Management	User Experience(Ux)
			<b>Proposed MOOC courses</b>
			Data Visualization with tableau
			modeling and simulation using MATLAB
			Mongo DB for developers
			Rasberri pi platform

*Trichy* *H. S. D.*

**Convener, IQAC**  
**Anil Neerukonda Institute of Technology & Sciences**  
 Sangivalasa-531 162  
 Visakhapatnam Dist.

**Principal**  
**Anil Neerukonda Institute of Technology & Sciences**  
 Sangivalasa-531 162  
 Visakhapatnam Dist.

**Prof. Suresh Chittineni**  
**Chairman, BOS & HoD, IT**





**Anil Neerukonda Institute of Technology & Sciences (Autonomous)**

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**Department of ...Information Technology.....**


**Consolidated report on feedback and action taken on syllabus/curriculum for the academic year.....2019-20.....**

Stakeholder	Suggestions	Action Taken
Students	<ol style="list-style-type: none"> <li>1. Suggested to introduce emerging subjects as mandatory courses.</li> </ol>	<ol style="list-style-type: none"> <li>1. As per the feedback, we incorporated emerging subjects like IoT, Data Analytics in R-19, R-20.</li> </ol>
Faculty	<ol style="list-style-type: none"> <li>1. Reinforcement Techniques to be included in the Artificial Intelligence Syllabus.</li> <li>2. Advanced topics like Iterators, Generators, Decorators, Regular Expressions to be included in Python Programming.</li> <li>3. Installation of popular tools can be introduced in Analytics Lab.</li> <li>4. Suggested to reduce the syllabus of Object-Oriented Analysis and Design.</li> <li>5. Suggested to include a mini project for CASE Tools Lab.</li> <li>6. Recommended to remove Computational Learning Theory in UNIT-IV and incorporate Neural Network Concepts in Artificial Intelligence subject.</li> </ol>	<ol style="list-style-type: none"> <li>1. After Discussion, Feedback given by the teachers was considered in Board of Studies held on 27/5/2020 and were incorporated in the coarse draft syllabus of R-19, R-20.</li> </ol>
Alumni	<ol style="list-style-type: none"> <li>1. Knowledge of Soft, Quantitative &amp; Verbal Analysis is required for getting placements.</li> </ol>	<ol style="list-style-type: none"> <li>1. Suggestions by the alumni were considered, introduced Soft Skills &amp; QA-2 in R-20.</li> </ol>
Employers	<ol style="list-style-type: none"> <li>1. Suggested to have Good Knowledge on AWS/AZURE cloud services</li> <li>2. Suggested to have Basic idea on Visualization tool.</li> <li>3. Suggested to have knowledge in Visualization tools like Power BI/Tableau.</li> <li>4. Students can create a GitHub account and have their written code there so that it would help interviewers to understand the student's interest and coding skills.</li> </ol>	<ol style="list-style-type: none"> <li>1. As suggested, we incorporated cloud computing in IV<sup>th</sup> year 1<sup>st</sup> Semester as a professional elective in R-19.</li> <li>2. As per the recommendation, basic idea of Visualization topic was included in Data Analytics (GNU Tool) subject for IV<sup>th</sup> year 1<sup>st</sup> Semester in R-15, R-19.</li> <li>3. GitHub Essentials subject was introduced as a Generalized</li> </ol>

<ol style="list-style-type: none"> <li>4. Students can create a GitHub account and have their written code there so that it would help interviewers to understand the student's interest and coding skills.</li> <li>5. Recommended to focus on application of each subject.</li> <li>6. Students need to have applicative based learning. They need to be ready for future digital skills.</li> <li>7. Suggested to include Python in curriculum, as it is the on-demand coding language</li> <li>8. Suggested to encourage students to participate in online coding competitions conducted by HackerRank to help boost their confidence in coding and add more credibility.</li> </ol>	<p>Analytics (GNU Tool) subject for IV<sup>th</sup> year I<sup>st</sup> Semester in R-15, R-19.</p> <ol style="list-style-type: none"> <li>3. GitHub Essentials subject was introduced as a Generalized Minor in R-20.</li> <li>4. Data Structures subject was designed as application oriented in II<sup>nd</sup> year I<sup>st</sup> Semester Subject in R-19, R-20.</li> <li>5. As suggested, we have Python in our curriculum in II<sup>nd</sup> year I<sup>st</sup>, II<sup>nd</sup> semesters in R-15, R-19, R-20.</li> <li>6. Data Structures Lab experiments were practiced on GDB Compiler, HackerRank platforms in R-19, R-20.</li> </ol>
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**Head of the department**  
**PADMAJA**  
 head of the Department  
 Department of IT  
 ANITS, Visakhapatnam

  
**Convener, IQAC**  
 Anil Neerukonda Institute of  
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# ANIL NEERUKONDA INSTITUTE OF TECHNOLOGY & SCIENCES (A)

## DEPARTMENT OF MECHANICAL ENGINEERING

(Permanently Affiliated to Andhra University, AICTE, Accredited by NBA NAAC with 'A' Grade)  
Sangivalasa-531162, Bheemunipatnam Mandal, Visakhapatnam Dt.  
Phone 08933-225084, 226395

### Minutes of Board of studies meeting held on 30-03-2019

#### **Agenda:**

*Review and ratification of B.Tech and M.Tech (Machine design) course structures and B.Tech first year syllabus under autonomous scheme.*

#### **Suggestions & Resolutions:**

The members of board of studies met on this day in metrology lab, Mechanical engineering department, ANITS to review the course structures (R-19 regulations) and B.Tech I year syllabus under autonomous scheme and suggest suitable modifications wherever necessary. At the outset, the chairman of BOS Prof. P. Nagaraju, welcomed the gathering and initiated the process. The review of the course structure was taken up as an immediate agenda and was done semester wise. The following observations/suggestions were made by the members:

1. It was suggested by the expert members not to include extended contact hours and outside contact hours in the curriculum as they do not carry any credits. But the extended contact hours may be included in the time table to cover the syllabus holistically.
2. It was suggested to transfer **Engineering Workshop** from first semester to second semester in the first year curriculum so as to reduce the number of labs from 3 to 2 in the beginning semester. Hence the total number of credits for first semester is 18.5 and 19.5 for the second semester of the first year.
3. The titles of the following courses were suggested to be modified which was accepted by the board.
  - a) 'Elements of Mechanical Engineering' changed to '**Basics of Mechanical Engineering**'.
  - b) 'Production technology' modified to '**Manufacturing Processes**'.
  - c) 'Production Technology Lab' modified to '**Manufacturing Lab**'.
  - d) 'Metal cutting & Machine Tools' modified to '**Metal cutting, Machine Tools & Metrology**'.
  - e) 'Machine and Production Drawing' modified to '**Mechanical Engineering Drawing**'.
  - f) 'Applied Mechanics Lab' modified to '**Machines and Mechanisms Lab**'.

4. It is strongly observed by the expert members that 'Verbal Aptitude' and 'Quantitative Aptitude' cannot be considered as Mechanical Engineering courses and hence they cannot be part of Mechanical Engineering curriculum. However, if these two courses are required for placement drives, the number of credits shall be limited to 1 credit each. The chairman BOS said that this will be conveyed to the Principal and the decision on this suggestion has to be taken at institution level.
5. The following suggestions were given by the external members with regards to professional electives.
  - a) Dr Ravi Kumar said that the list of professional electives may be reorganised to the maximum possibility such that every professional elective has one subject each from the four specialisations.
  - b) 'Managerial Economics & Financial Analysis' course shall be replaced by 'Supply Chain Management'.
  - c) 'Advanced Materials' course shall be replaced by 'Advanced Mechanics of Materials'.
  - d) 'Rapid Prototyping' course shall be replaced by 'Unconventional Machining'.
  - e) 'Energy Conversion & Management' course shall be replaced by 'Processing of Plastics & Composites'.
6. The expert members opined that since 'Material Science & Metallurgy' is one of the courses being offered by the department, it will be worthwhile to include few experiments on metallurgy in the Mechanics of Solids Lab. This was accepted by the board for implementation.
7. Some minor modifications / suggestions were given by the external members with regards to the syllabus of Engineering drawing, Advanced Engineering drawing & engineering work shop which has to be reviewed.
8. It was suggested by the external members to include a unit on basics of materials instead of principles of steel making. They further suggested to include steel making processes in **Metallurgy and Material science** in the 2nd year 1<sup>st</sup> semester.

*R. Sankar*  
Convener, IQAC  
Anil Neerukonda Institute of  
Technology & Sciences  
Sangivalasa-531 162  
Visakhapatnam Dist.

*Anil Neerukonda*  
Principal  
Anil Neerukonda Institute of  
Technology & Sciences  
Sangivalasa-531 162  
Visakhapatnam Dist.

17  
30-3-19  
PROFESSOR & HEAD  
Department of Mechanical Engineering  
ANIL NEERUKONDA INSTITUTE OF TECHNOLOGY & SCIENCES  
Sangivalasa-531 162 VISAKHAPATNAM Dist. A.P.

9. Regarding M.Tech course **structure** external members suggested to include **Theory of Elasticity & Plasticity** as a **core** subject in the first year first semester. They also suggested to introduce **Research Methodology** as a non-credit course.

The chairman thanked the members of the board for their valuable suggestions. The UG & PG course structures were ratified by the board of studies after including the minor corrections.

17/30  
(HOD, Mechanical)

Head of the Department  
Department of Mechanical Engineering  
Anil Neerukonda Institute of Technology & Sciences  
Sangivalasa - 531162

CC to: 1) Principal  
2) Dean of examinations } for the kind information

R. Sankar  
Convener, IQAC  
Anil Neerukonda Institute of  
Technology & Sciences  
Sangivalasa-531 162  
Visakhapatnam Dist.

Principal  
Anil Neerukonda Institute of  
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Sangivalasa-531 162  
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# Anil Neerukonda Institute of Technology & Sciences (Autonomous)

(Affiliated to AU, Approved by AICTE & Accredited by NBA & NAAC with 'A' Grade)  
Sangivalasa-531 162, Bheemunipatnam Mandal, Visakhapatnam District  
Phone: 08933-225083/84/87 Fax: 226395  
Website: [www.anits.edu.in](http://www.anits.edu.in) email: [principal@anits.edu.in](mailto:principal@anits.edu.in)

## Department of Mechanical Engineering

List of new courses introduced in the Board of Studies (BoS) meeting held on 30-03-2019 for the academic year 2019-20

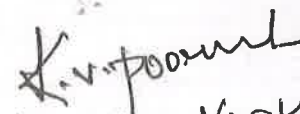
S. No	Name of the Course	Course Code	Year & Semester
1.	Biology for Engineers	MEC 114	I/IV, Sem -1
2.	Basic Electronics Engineering	MEC 124	I/IV, Sem -2
3.	Problem Solving with C	MEC 125	I/IV, Sem- 1
4.	Problem Solving with C Lab	MEC 127	I/IV, Sem -1
5.	Research Methodology	MECMD117	I/II M.Tech, Sem-1
6.	Seminar-II	MECMD128	I/II M.Tech, Sem-2

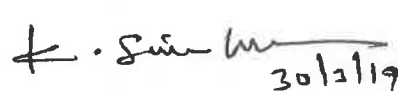
  
(Ch. Raghavam)

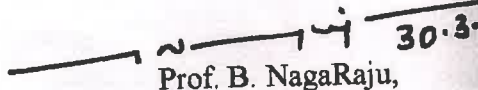
  
(Prof. N. Ramanaih)

  
30/3/19


Gumpala  
30/3/19

  
(Kalla Venkata Poornush)

  
30/3/19  
R. Srikanth  
Convener, IQAC  
Anil Neerukonda Institute of  
Technology & Sciences  
Sangivalasa-531 162  
Visakhapatnam Dist.

  
30.3.  
Prof. B. NagaRaju,  
Chairman BOS,  
Mech. Engg. Dept.

PROFESSOR & HEAD  
Department of Mechanical Engineering  
ANIL NEERUKONDA INSTITUTE OF TECHNOLOGY & SCIENCES  
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Principal  
Anil Neerukonda Institute of  
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Visakhapatnam.



# ANITS VIZAGHONDA INSTITUTE OF TECHNOLOGY & SCIENCES

"UGC AUTONOMOUS"

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Website : [www.anits.edu.in](http://www.anits.edu.in)

e-mail : [principal@anits.edu.in](mailto:principal@anits.edu.in)

Ref: ANITS/Gen-12/BOS Meeting Notice /2017-18

Date: 17<sup>th</sup> April, 2018

## MEETING NOTICE

The fourth meeting of the **Board of Studies** is scheduled to be held on Saturday the 28<sup>th</sup> April, 2018 at our college premises at Visakhapatnam as per following schedule. All the members are requested to attend the meeting.

### **Agenda:**

1. To finalize the 4<sup>th</sup> year scheme of instruction of curriculum and the syllabus for **2018-2019** academic year
2. Implementation of AICTE proposed model curriculum – structure and first year syllabus.

**Common Board of Studies: 09:30 AM, venue: D - 108, **Chemical Engineering** Block**

**Individual Departments' Board Meeting: 10:30 AM to 01:00 PM in the respective Depts.**








**Lunch: 01:00 PM to 02:00 PM**

**Concluding Session: 02:00 PM**

*Quirk*  
**PRINCIPAL**

To:  
All the Members of BOS  
Special Invitees  
Directors & Deans  
All HoDs  
Placement & Library  
Master file & BOS file

Dept. of Chemical

S.No	Name of the member	Designation	Category	Signature of the member
1.	Prof. S. Subba Rao	HoD, Chemical, ANITS	BOS, Chairman	
2.	Prof. G. Hanumantha Rao	Professor, Chemical, ANITS	Member	
3.	Dr. Ch. Anil	Associate Professor, Chemical, ANITS	Member	
4.	Dr. M. Shiva Naresh	Associate Professor, Chemical, ANITS	Member	
5.	Prof. P.S.T. Sai,	Dept. of Chemical Engineering, IIT, Chennai,	Academic council Nominee	
6.	Prof. V. Sujatha	Department of Chemical Engineering AUCE (A) AU, VSP	Academic council University Nominee	
7.	Prof. S.V.Naidu	Dept. of Chemical Engineering, AUCE (A), VSP	University Nominee	
8.	Dr. A. Srinivas Kumar	Scientist 'G' & Technology Director NSTL, DRDO, VSP	Industry	
9.				





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Sangivalasa 531 162, Bheemunipatnam Mandal, Visakhapatnam Dist

DEPARTMENT OF CHEMICAL ENGINEERING

Minutes of the meeting of the Board of Studies, Department of Chemical engineering (UG) held on 28<sup>th</sup> April, 2018 at 11.00 AM.

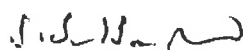
Members present:

- |                            |                                     |
|----------------------------|-------------------------------------|
| 1. Prof. S. Subba Rao      | Chairman, BOS, Chemical Engineering |
| 2. Prof. G. Hanumantha Rao | Member                              |
| 3. Dr. Ch. Anil            | Member                              |
| 4. Dr. M. Shiva Naresh     | Member                              |
| 5. Prof. P.S.T. Sai        | Member, Academic council nominee    |
| 6. Prof. S.V. Naidu        | Member, Andhra University nominee   |
| 7. Dr. A. Srinivasa Kumar  | Member, Industry/Research           |

Resolutions:

1. Autonomous Syllabi for IV/IV B.Tech. Chemical Engineering I and II semesters were discussed and the experts felt satisfactory about the overall contents.
2. The committee felt that few topics like mass transfer with chemical reaction may be added in the course CHE 412 Transport phenomena. The committee also suggested to delete some books in the reference section of the subject Transport phenomena.
3. The committee recommended removing the references 4 and 5 in the course CHE 413 Process Dynamics and Control and also in the course CHE 414 Process Modelling and Simulation as they are not so relevant to UG level.
4. Prof. P.S.T. Sai suggested to recheck the syllabus of the elective CHE 422 (B) Process Optimization to avoid the repetition of the topics covered in the previous semester mathematics subjects.
5. Dr. A. Srinivas Kumar suggested to include topics like refining of hard carbon in Unit II in elective CHE 422(C) Energy Engineering.

6. The committee felt that the title of CHE 423 Chemical Process Equipment Design Laboratory be modified as Process Equipment Design Laboratory.
7. The committee discussed in detail the curriculum of AICTE for Chemical Engineering. The committee felt that there are no major changes with the existing structure of chemical engineering.
8. The committee suggested to modify the syllabi of physics and chemistry. Topics like electrochemistry, few topics on physical and inorganic chemistry were suggested to be included in Chemistry –I syllabus and organic chemistry in Chemistry –II.
9. The committee suggested to modify the physics syllabus with more orientation to chemical engineers like introduction to thermodynamics and basic electronics. After rigorous discussion the committee felt the existing autonomous physics syllabus may be preferable.
10. The committee finally discussed the Biology syllabus which is to be introduced for first year AICTE curriculum and suggested to add few more prescribed books oriented to engineering.



(Prof. S. Subba Rao)  
Chairman, BOS

  
Convener, IQAC  
Anil Neerukonda Institute of  
Technology & Sciences  
Sangivalasa-531 162  
Visakhapatnam Dist.

  
Principal  
Anil Neerukonda Institute of  
Technology & Sciences  
Sangivalasa-531 162  
Visakhapatnam Dist.



DEPARTMENT OF CIVIL ENGINEERING

Minutes of Board of Studies Meeting held on 28-04-2018  
Autonomous Regulations (2015)

Date : April 28, 2018  
Time : 10:30 AM  
Venue : Civil Engineering Department, ANITS

Agenda:

- To Consider IV/IV B.Tech I semester and II semester (Civil Engineering) Syllabus
- To Discuss the AICTE Model Curriculum and the Course Structure prepared based on these guidelines
- Any other item with the permission of the chair

Members Present:

- Dr.C.N.V.Satyanarayana Reddy, Professor, Civil, Andhra University - *C.N.V. Satyanarayana*
- Dr. G.Appa Rao, Professor of Civil Engg., IIT Chennai *G. Appa Rao*
- Sri.D.Kasiweswara Rao, Chief Engineer, Visakhapatnam *Absence on leave*
- Prof. A.Rama Mohana Rao, Professor of Civil Engg. *A. Rama Mohana Rao*
- Sri.J.Vikranth, Associate Professor of Civil Engg. *J. Vikranth*
- Sri T.V.V.Teja, Assistant Professor of Civil Engg. *T.V.V. Teja*
- Sri.T.Kiran Kumar, Assistant Professor of Civil Engg. *T. Kiran Kumar*
- Mrs.P.V.R.Sravya, Assistant Professor of Civil Engg. *P.V.R. Sravya*
- Dr.B.N.D.Narasimha Rao, Professor and HoD, Dept. of Civil Engg. (In Chair) *B.N.D. Narasimha Rao*

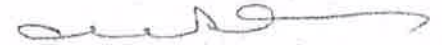
Minutes:

- Considered the detailed syllabus for IV Year I semester and II semester B.Tech Civil Engineering for discussion and approved the same.
- Dr. G. Appa Rao and Dr. C.N.V. Satyanarayana Reddy suggested deferring implementation of AICTE Model Curriculum by One year to enable through discussion of the course structure keeping the interest and limitations of students of ANITS (A).

*B.N.D. Narasimha Rao*  
(Dr.B.N.D.Narasimha Rao)  
Chairman - Board of Studies  
Civil Engineering - ANITS

**Dr. B.N.D. Narasimha Rao**  
ME PhD FIE FIGS  
Professor & Head  
Department of Civil Engineering  
Anil Neerukonda Institute of Technology & Sciences

3. List of paper setters for IV Year B.Tech Civil Engineering is considered and approved. The Board, however, has authorized the Head of Department, Civil Engineering, ANITS (A) to add or modify the list wherever necessary.
4. Discussed the innovative Teaching and Evaluation Techniques.



(Dr.B.N.D.Narasinga Rao)  
Chairman – Board of Studies  
Civil Engineering - ANITS.

**Dr. B.N.D. Narasinga Rao**

ME PhD FIE FIGS  
Professor & Head  
Department of Civil Engineering  
Anil Neerukonda Institute of Technology and Sciences  
Sangivalasa, Bheemunipatnam Mandal  
Visakhapatnam - 531162



Convener, IQAC  
Anil Neerukonda Institute of  
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Visakhapatnam Dist.



Principal  
Anil Neerukonda Institute of  
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Visakhapatnam



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**DEPT OF COMPUTER SCIENCE AND ENGINEERING**

Date : 28-04-2018

## Minutes of Board of Studies Meeting

### Department of CSE

#### Minutes of the Meeting

Subject : Board of studies / Bachelor of Technology (CSE)

Venue : LAB 2, Dept of CSE

Date : 28-04-2018

#### Agenda :

1. To finalize 4<sup>th</sup> year scheme of instruction of curriculum and syllabus for 2018-2019 academic year.
2. Implementation of AICTE proposed model curriculum – structure and first year syllabus.

#### The following members were present in the meeting:

- Dr. R.Sivaranjani HoD&Professor, CSE. ANITS Chairman. BOS. CSE
- Dr. Tusarkanti Mishra Assoc. Prof.. CSE. ANITS Member
- Mr. S. Ratan Kumar Assoc. Prof.. CSE. ANITS Member
- Dr. M.Rama Krishna murthy Assoc. Prof.. CSE. ANITS Member
- Mr. Ch. SeshadriRao Asst. Prof.. CSE. ANITS Member
- Mrs.K.S.Deepthi, Asst. Prof., CSE. ANITS Member
- Mrs. PriteeParwekar Asst. Prof., CSE. ANITS Member
- Mr. B.Ravi kiran Asst. Prof.. CSE. ANITS Member
- Mr. K. Suresh Asst. Prof.. CSE. ANITS Member
- Mrs. Keerthi Lingam Asst. Prof.. CSE. ANITS Member
- Mr. G.jagadish Asst. Prof.. CSE. ANITS Member
- Dr. B. Majjhi, Director, IIT, Kanchipuram, Academic council nominee
- Dr.Prajna Bodapati, Professor, CSE, AUCE, University Nominee
- Dr.DVLLN Somayajulu, Professor, NIT Warangal, Member
- Mr.T Shyam Vamsi, IBM Chennai ,Alumni
- Dr.S.Raja, Scientist "G" Associate Director, NSTL, Visakhapatnam, Special Invitee
- Dr.KVSVN Raju, Professor CSE, GVPDC, Special Invitee

#### Apologies:

- Dr.C.Srinagesh, Manager, Campus Connect, Infosys Technologies, Hyderabad, Industry.

#### Before start of the meeting

Handwritten signatures and initials of the attendees, including names like 'S. Ratan Kumar', 'Shyam Vamsi T', and others.



**DEPT OF COMPUTER SCIENCE AND ENGINEERING**

- Overview was given about the syllabus is given.
- Made a comparison on 2015 data with various colleges, total credits in ANITS 189
- Parent university comparison also made with AU.
- Shown the syllabus of all years' semester wise

**Suggestions given by BOS members**

**In Open elective II**

Cloud computing title correction need to remove overview

3/4 DEM-II Department elective

Remove space between No SQL

It was proposed to add AI subject in elective

**4<sup>th</sup> year SEM-II**

**CNS**

Spelling mistakes in CNS course need to be corrected

Include Year of publication for books

Also include MOOC for the course

**CNS - LAB**

Some topics can be given as case studies will be experiment 9 & 10.

Mention algorithm names as DES, RSA etc

Allow the student choose the programming language for the algorithms

Experiment 5 has suggestions as server setup has to be done

**OOAD**

- No suggestions

**Elective**

- Year of publication need to be mentioned for all books of all electives

**Mobile Computing**

- No suggestions

**DOS**

- No suggestions

**AOS**

- Don't offer DOS & AOS both only offer one

*R. Seikant*  
Convener, IQAC  
Anil Neerukonda Institute of  
Technology & Sciences  
Sangivalasa-531 162  
Visakhapatnam Dist.

*Pr*  
Principal  
Anil Neerukonda Institute of  
Technology & Sciences  
Sangivalasa-531 162  
Visakhapatnam Dist.

*J. S. Ramy*

*[Signature]*

*[Signature]*

*[Signature]*

*[Signature]*

*[Signature]*



# ANIL NEERUKONDA INSTITUTE OF TECHNOLOGY AND SCIENCES

(Autonomous)

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Sangivalasa-531 162, Dheemuniapatnam Mandal, Visakhapatnam Dt.

## DEPT OF COMPUTER SCIENCE AND ENGINEERING

### Neural Networks

- Neural Networks and deep learning is a better course
- Or AI and Deep Learning is a better course
- You should ignite the minds of student
- Add Fundamentals of deep learning concepts in other chapters also
- Information security and auditing

### Human Computer Interaction (HCI)

- No suggestions

### Pattern Recognition

- Total classes reduced to 58

### Computer Vision

- No suggestions

**Embedded Systems:** Case study title in Embedded Systems need to be added

### Data warehousing and Data Mining (DWDM)

- DWDM itself is heavy course its suggested not to add too many things into like 'R' language instead of making student making program, teacher can show demo in tutorials in 'R' language.
- Ask students to implement the concepts in JAVA instead of 'R' for better understanding and verify results in 'R'.
- Give them assignment and give some weightage as 30% or 20%
- Give tutorials for solving problems
- Remove 'R' from syllabus
- What defines a data mining tasks? – need to be remove

### Machine Learning

- Make sub group of electives to avoid duplication

### Cyber Security

- Encourage students through this course and send them to Hackathons based on security
- In unit -IV add ethical hacking

### 1/4 SEM-II – ELECTIVES

*J.S. Kumar*

*R. Seikant*

*[Signature]*

*[Signature]*

*Shyam Vamsi*

*[Signature]*

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**DEPT OF COMPUTER SCIENCE AND ENGINEERING**

**Client Server Computing**

- No suggestions

**Augmented Reality**

- No suggestions

**Semantic Web**

- Check course outcomes for spelling mistakes
- CO4- correction in language
- Include word net in semantic web

**Big data**

- Give a proper title – Big data analytics
- All should be covered as Hadoop, Map Reduce, HDFS
- Some tools can be given , need to include lab , for map reduce function
- Instruction hours need to be changed to 1+3
- Ask the students and faculty to take training and certification for this course

**Information Security and Auditing**

- No suggestions

**Social Network Analysis**

- No suggestions

**Network Management**

- No suggestions

**Fuzzy Computing**

- No suggestions

**Wireless Sensor Networks (WSN)**

- No suggestions

**Cloud Computing (CC)**

- Case studies to be added Monolithic architecture Vs Micro services

**4/4 SEM-I OPEN ELECTIVES**

**Cloud Computing overview**

- Suggested to remove the word overview

**Digital Image Processing**

*Shyamkanti . T*

*J. S. Ramy*

*W*

*B. S. R.*

*D. S. R.*

*B. S. R.*

*Principal*

*R. S. R.*  
Convener, IQAC  
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**DEPT OF COMPUTER SCIENCE AND ENGINEERING**

- No suggestions

**Introduction to soft computing**

- No suggestions

**Web Designing**

- Suggested to change the title to Web Design

**General Suggestions**

- Put some MOOC courses which is not part of the syllabus
- Ask them to listen to videos and come to class and let them solve problems
- Encourage students and faculties to join MOOC courses
- Do not give too many credits initially to MOOC , slowly you can increase the credits.
- Cloud Computing and introduction to soft computing will be tough for the other branch students – need to think on it
- In computer vision add some topics of Robotics vision.

Board suggested to send a mail for comparison with the AICTE & autonomous syllabus after seeing the mail they will give suggestions.

At the end of the meeting, all board members were thanked for their suggestions

R. Seethank

Convener, IQAC  
Anil Neerukonda Institute of  
Technology & Sciences  
Sangivalasa-531 162  
Visakhapatnam Dist.

25/4/2018  
Bua

[Signature]

Shyam Vamsi .T

[Signature]

[Signature]

[Signature]  
Anil Neerukonda Institute of  
Technology & Sciences  
Sangivalasa-531 162  
Visakhapatnam Dist.



# ANIL NEERUKONDA INSTITUTE OF TECHNOLOGY & SCIENCES (AUTONOMOUS)

(Affiliated to AU, Approved by AICTE & Accredited by NBA & NAAC with 'A' Grade)  
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website: [www.anits.edu.in](http://www.anits.edu.in)

email: [principal@anits.edu.in](mailto:principal@anits.edu.in)

4<sup>th</sup>  
Minutes of the meeting of the Board of Studies, Dept of ECE (UG) held on 28-04-2018 at  
10:30 AM.

Members present:

S. No	Name	Designation	Category	Signature of the member
1.	Dr. V. Rajya Lakshmi	Head, ECE, ANITS	Chairman, BOS, ECE	
2.	Dr. Shankar Prakriya	Professor, IIT, Delhi	Special invitee	
3.	Prof.N.V.S.N.Sharma	Prof., Dept of ECE, NITW	University Nominee	
4.	Prof. P. Ramakrishna Rao,	Advisor, ANITS	Academic council nominee	
5.	Mr.N.Srinivas	Avantel, Visakhapatnam	Industry	
6.	Mr. M. Durga Prasad	JTO, BSNL	Alumni	
7.	Dr.K.MuraliKrishna	Prof., ECE, ANITS	Member	
8.	Dr. K. S. Ranga Rao,	Prof., ECE, ANITS	Member	
9.	Mr. S. Balaramamurthy	Assoc. Prof., ECE, ANITS	Member	
10.	Dr.B.SomaSekhar	Assoc. Prof., ECE, ANITS	Member	
11.	Dr.Praveen Babu Choppala	Assoc. Prof., ECE, ANITS	Member	
12.	Mr. D. Anilprasad	Asst. Prof. ECE, ANITS	Member	
13.	Mr. J. Bhaskara Rao	Asst. Prof. ECE, ANITS	Member	
14.	Mr. A. Lakshminarayana	Asst. Prof. ECE, ANITS	Member	
15.	Mr. Vijaya Kumar Sahu	Asst. Prof. ECE, ANITS	Member	
16.	Mr.N.Srinivasa Naidu	Asst. Prof. ECE, ANITS	Member	
17.	Dr.D.Easwara Chaitanya	Asst. Prof. ECE, ANITS	Member	

Presic  
e O  
el



ANIL NEERUKONDA INSTITUTE OF TECHNOLOGY & SCIENCE  
(UGC AUTONOMOUS)

(Affiliated to AU, Approved by AICTE & Accredited by NBA)  
Sangivalasa-531162, Bheemunipatnam Mandal, Visakhapatnam Dt.

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Minutes of the 4th meeting of the BOS, Department of ECE (UG) held on 28.04.2018 at 11 AM in the DSP lab with the following agenda.

1. Review of Autonomous syllabus (4th year semester-I & II)
2. AICTE Model Curriculum

The Committee discussed the various points given in the agenda submitted by Dr.V.Rajyalakshmi and made the following recommendations/suggestions.

The chairperson, Dr.V.Rajya Lakshmi, HOD, dept of ECE, ANITS welcomed all the members present in the meeting and appraised the members about the department's power point presentation. During the presentation, the agenda has been discussed with members in detail.

1. a) Prof. NVSN Sharma suggested the text book William Stallings, "Data and Computer Communication" to be made as prescribed text book instead of reference book for course ECE 412 (Computer Network Engineering).

Mr. Durga Prasad, JTO, BSNL suggested to introduce contents related to network administration and accommodate the topics such as MPLS in the course if possible.

- b) Prof. NVSN Sharma suggested to include hardware related experiments with reference to Software Defined Radio (which are KITS based experiment) for both Communication Laboratory and DSP Laboratory. He suggested to advise the students to do experiments in Matlab before they do experiments using Kits.

- c) Prof. NVSN Sharma suggested to revise UNIT-IV and UNIT-V in the course ECE 414(a) (Advanced Digital Signal Processing) and introduce signal Processing Algorithms and Processors. Prof. Shankar Prakriya expressed that concepts of Filters is the main part of UNIT-II of the course. He suggested to replace the text book S. M. Kay, "Modern Digital Signal Processing" as prescribed text book instead of reference book in the course and to replace the text book authored by Salivahanan.

- d) Prof. NVSN Sharma suggested to change the title of the course ECE 414(b) (Digital IC Design through verilog) as Digital IC Design using HDL. He suggested to ensure that two text books were prescribed for each course to the maximum extent possible.

e) Prof. NVSN Sharma & Prof. Shankar Prakriya advised to introduce video processing UNIT-V of the course ECE 414(d) (Digital Image Processing). They also suggested to include compression standard in the course.

f) Prof. V.Rajya Lakshmi informed the members that Elective lab is introduced for the first time to facilitate the students necessary background with respect to modern simulation tools which will help them in improving their performance in doing their project work. She said that Elective lab consists of four(4) labs such as VLSI Design Laboratory, Signal and Image Processing Laboratory, Virtual Instrumentation Laboratory and Antenna Design Laboratory. Prof. NVSN Sharma suggested to replace the title of course ECE 416(c) "Design Lab" to "VLSI Lab" as the list of experiments does not relate to design.

Prof. NVSN Sharma suggested to buy at least 15 No's of Signal Processing Kits and advised to introduce experiments based on "Software Defined Radio in the course ECE 416(b) "Signal and Image Processing Lab". He added that the same kits can be used to perform all the experiment related to Communication Laboratory and DSP Laboratory also.

Prof. Shankar Prakriya asked about the advantage of the elective lab ECE 416(c) "Virtual Instrumentation Lab". Mr. R. Ravikumar explained the importance of it.

Prof. NVSN Sharma suggested to include a one demo type of Virtual Lab collaborated with IIT's. Prof. NVSN Sharma suggested to procure ADS simulation software for the elective lab ECE 416(d) "Antenna Design Lab"

g) Prof. NVSN Sharma suggested to accommodate experiments related to the course ECE 421 (Cellular and Mobile Communication) in any of the laboratories. He also advised to remove the topics such as Integrating GEO, LEO, MEO satellite and terrestrial mobile systems from UNIT-V and to introduce the basics of OFDM.

h) Prof. NVSN Sharma recommended to purchase the network analyzer and suggested to buy mixed domain oscilloscope which gives digital as well as analog signals. He suggested to buy Microstrip component to be used in the course ECE 424 Microwave Engineering Laboratory. Also said WDM demo kit should also be purchased for the department.

i) Prof. NVSN Sharma expressed the syllabus of the course ECE 422(a) Phased Array Systems is heavy for UG level and advised to modify the syllabus and make it as simple as possible. He suggested the text book Peter J. Kahrilas, " Electronics Scanning Beam Systems Design Handbook" to be made as prescribed text book instead of reference book.

- While text book R.C.Hansen, "Phased Array Antennas" should be made as reference text book.
- j) Prof. NVSN Sharma suggested to include defibrillators, pulse oximeters in the course ECE 422(c) and to remove smart sensors from UNIT-II. He also suggested to interchange the ordering of the text books.
  - k) Prof. NVSN Sharma suggested to replace the text book Qing Li, Caroline Yao, Real-Time Concepts for Embedded Systems as reference text book instead of prescribed text book in the course and to remove the text book authored by Raj Kamal
  - l) Prof. NVSN Sharma suggested text book by K. Raja Rao which includes numerous problems. He also suggested to include Satellite phone as topic in the last UNIT-V of the course and advised to reduce GPS. Prof. Shankar Prakriya has suggested to introduce the INRSS which is better than GPS
  - m) Prof. NVSN Sharma suggested to include text book by Md. Jhao and juhi as the 1<sup>st</sup> text book of the course ECE 423(c). He also suggested to modify the content of the course as it is too heavy for the students at UG level and to introduce the concepts like C. Tiny OS, Lite OS, Synchronization, TDOA, energy management and concepts like Leech.
  - n) Prof. NVSN Sharma suggested to change title of the course ECE 423(d) Principles of Software Defined Radio as "Cognitive Radio" or as "Software Defined Radio". He advised to introduce the concepts like white spaces, Black spaces, Cognitive Radio and suggested the text book Paul Burns, "Software Defined Radio for 3G" to be made as prescribed text book instead of reference book in the course ECE 423(d)(Principles of Software Defined Radio).
  - o) Prof. NVSN Sharma suggested to follow some guidelines, standards in choosing MOOCS course by the students. He suggested to follow some pre-screening process before a student can opt for the course.

2. Prof. NVSN Sharma & Prof. Shankar Prakriya provided their remarks and suggestions on AICTE Model Curriculum which are as follow:

- a) To introduce a course on Basics of Measurements and Instrumentation as an elective which is generic such that there would be more scope for the students to opt
- b) To change the title of the course "Wavelets" as Transform Techniques which will enhance the scope of discussing various transform techniques.

- (3)
- c) To change the title of the course "Error correcting codes" as Coding Theory
  - d) To reduce the credits that are being awarded to Project Stage -1
  - e) To replace the elective course MEMS (course offered by Mechanical ) with "W Technology" or "APP Development" offered by CSE such that all electives are from the department.
  - f) To change the title of the courses related to Digital Signal Processing Laboratory, Processing Laboratory and Microwave Laboratory as Microwave Engineering
  - g) To include text book by Annapurna Das & Sisir K Das in the course Microwave Engineering
  - h) Skill development course should be conducted by faculty of the respective department on technical aspect of various subjects which will enhance the technical skills of the students and help them in facing the technical interview during the Campus Placement Selection
  - i) Prof. NVSN Sharma suggested to change the course code of the courses taught by each department with their domain. Prof. V. Rajya Lakshmi, HOD, ECE, clarified that it is a common practice being followed within the Institute.
  - j) Prof. Shankar Prakriya enquired about the coverage of gate syllabus in the new ANITS model curriculum by the 3rd Year 2nd Sem.
  - k) To change the titles of course Antenna & Wave Propagation as Antenna Propagations and Simulation Laboratory as Electronic Design and Automation Laboratory
  - l) The concepts of Probability in this particular course PTRP should be taught by faculty from Dept. of Mathematics for their Strong foundation in the subject.
  - m) To take the statistical data about the Alumni (regarding their area of the work) and feed back in preparing the syllabus as per the industry needs

The chairperson thanked all the members for their active participation and suggestions.

Mr. S. Balaramamurthy, proposed the vote of thanks.

*R. Sekhar*  
Convener, IQAC  
Anil Neerukonda Institute of  
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Sangivalasa-531 162  
Wakhanapetnam Dist.

*AN*  
Principal  
Anil Neerukonda Institute of  
Technology & Sciences  
Sangivalasa-531 162

*V. Rajya Lakshmi*  
Dr. V. Rajya Lakshmi  
Chairperson, Department of ECE  
Head of the Department  
ANITS  
Anil Neerukonda Institute of Technology & Sciences  
Sangivalasa-531 162



**ANIL NEERUKONDA INSTITUTE OF TECHNOLOGY & SCIENCES**  
(Permanently Affiliated to Andhra University, Approved by AICTE)  
Sangivalasa-531 162, Bheemunipatnam Mandal, Visakhapatnam District  
**DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING**  
Accredited by NBA

**Minutes of the Board of Studies (BOS of EEE) meeting held on  
1<sup>st</sup> November 2018 (Thursday) at 2.30 PM.**

**MEMBERS PRESENT:**

S. No.	Name	Designation	Category
1	Dr. Guntu Raja Rao	Head, EEE, ANITS	Chairman, BOS
2	Mr. V. Murali	Assoc. Prof., EEE, ANITS	Member
3	Mr. S. Balamurali	Assoc. Prof., EEE, ANITS	Member
4	Dr. J. Vijaya Kumar	Assoc. Prof., EEE, ANITS	Member
5	Mrs. K.V.R. Swathi	Asst. Prof., EEE, ANITS	Member
6	Mr. Kavala Kiran Kumar	Asst. Prof., EEE, ANITS	Member
7	Mr. B. Rajasekhar	Asst. Prof., EEE, ANITS	Member
8	Mr. R. Satish	Asst. Prof., EEE, ANITS	Member
9	Mrs. Lavanya	Asst. Prof., EEE, ANITS	Member
10	Mr. Ch. V. N. Raja	Asst. Prof., EEE, ANITS	Member
11	Mr. M. Sudheer Kumar	Asst. Prof., EEE, ANITS	Member
12	Mr. L. Dinesh	Asst. Prof., EEE, ANITS	Member
13	Mr. L. Vijay	Asst. Prof., EEE, ANITS	Member
14	Sri. B. Srinivasa Reddy	AGM (Electrical), RINL	Industry

\* \* \*

1. The board with internal members and the local industrial expert Mr. B. Srinivasa Reddy, AGM (Electrical), RINL have discussed in detail and resolved to include the course 'Competitive Programming' as an additional elective in Professional Elective – 1 in 3<sup>rd</sup> year 2<sup>nd</sup> semester for the present 3<sup>rd</sup> year students (i.e 316 series) during 2018-19.

**HOD of EEE**

**Dr. G. RAJA RAO**

**Head of the Department  
ELECTRICAL & ELECTRONICS ENGG.  
ANITS, Sangivalasa,  
Visakhapatnam-531 162**

**Date: 01-11-2018**

C/s to: 1. The Principal

**Convener, IQAC  
Anil Neerukonda Institute of  
Technology & Sciences  
Sangivalasa-531 162  
Visakhapatnam D**

**Principal  
Anil Neerukonda Institute of  
Technology & Sciences  
Sangivalasa-531 162  
Visakhapatnam Dist**



**Minutes of the meeting of the Board of Studies, Department of **EEE** (UG)  
held on **1<sup>st</sup> November 2018** at **2.30 PM.**  
(Under Autonomous System)**

**MEMBERS PRESENT:**

S. No.	Name	Designation	Category
1	Dr. Guntu Raja Rao	Head, EEE, ANITS	Chairman, BOS
2	Mr. V. Murali	Assoc. Prof., EEE, ANITS	Member
3	Mr. S. Balamurali	Assoc. Prof., EEE, ANITS	Member
4	Dr. J. Vijaya Kumar	Assoc. Prof., EEE, ANITS	Member
5	Mrs. K.V.R. Swathi	Asst. Prof., EEE, ANITS	Member
6	Mr. Kavala Kiran Kumar	Asst. Prof., EEE, ANITS	Member
7	Mr. B. Rajasekhar	Asst. Prof., EEE, ANITS	Member
8	Mr. R. Satish	Asst. Prof., EEE, ANITS	Member
9	Mrs. Lavanya	Asst. Prof., EEE, ANITS	Member
10	Mr. Ch. V. N. Raja	Asst. Prof., EEE, ANITS	Member
11	Mr. M. Sudheer Kumar	Asst. Prof., EEE, ANITS	Member
12	Mr. L. Dinesh	Asst. Prof., EEE, ANITS	Member
13	Mr. L. Vijay	Asst. Prof., EEE, ANITS	Member
14	Sri. B. Srinivasa Reddy	AGM (Electrical), RINL	Industry

**HOD of EEE**

**Dr. G. RAJA RAO**

**Head of the Department  
ELECTRICAL & ELECTRONICS ENGG.  
ANITS, Sangivalasa,  
Visakhapatnam-531 162**

**Date: 01-11-2018**

C/s to: 1. The Principal

*R. Srikanta*  
Convener, IQAC  
Anil Neerukonda Institute of  
Technology & Sciences  
Sangivalasa-531 162  
Visakhapatnam Dist.

*[Signature]*  
Principal  
Anil Neerukonda Institute of  
Technology & Sciences  
Sangivalasa-531 162  
Visakhapatnam Dist.





**Minutes of the Board of Studies (BOS of EEE) meeting held on**  
**28<sup>th</sup> April 2018 (Monday) at 10.30 AM.**

**MEMBERS PRESENT:**

1. Prof. R. Govardhana Rao, Professor, ANITS.
2. Prof. B.M. Mohan, Professor, Dept. of Electrical Engg., IIT Kharagpur.
3. Prof. Debapriya Das, Professor, Dept. of Electrical Engg., IIT Kharagpur.
4. Prof. G.V. Siva Krishna Rao, Professor, Andhra University.
5. Sri B. Srinivasa Reddy, Asst. General Manager (Electrical), RINL, VSP.
6. Sri P. Santosh Kumar, Manager, L&T, Chennai.
7. Sri K. Anil Kumar, Asst. Manager (Electrical), RINL, VSP.
8. Mr. V. Murali, Assoc. Prof., ANITS.
9. Mr. S. Balamurali, Assoc. Prof., ANITS.
10. Mr. J. Vijaya Kumar, Assoc. Prof., ANITS.
11. Mrs. K.V.R. Swathi, Asst. Prof., ANITS.
12. Mr. Kavala Kiran Kumar, Asst. Prof., ANITS.
13. Mr. B. Rajasekhar, Asst. Prof., ANITS.
14. Mr. R. Satish, Asst. Prof., ANITS.
15. Mr. Ch.V.N. Raja, Asst. Prof., ANITS.
16. Mr. M. Sudheer Kumar, Asst. Prof., ANITS.
17. Mr. L. Dinesh, Asst. Prof., ANITS.
18. Mr. L. Vijay, Asst. Prof., ANITS.
19. Prof. G. Raja Rao (Chair person), Professor & HOD of EEE, ANITS.

\* \* \*

11. The Chair person welcomed all the BOS members of the department and thanked the members for the support they have rendered to the department.
12. The Committee has mainly discussed on two points. One on finalization of fourth year first & second semesters courses under Autonomous Scheme. Second one on finalization of four years scheme and first year syllabus under new AICTE structure.
13. The board discussed on the topics / units mentioned in all courses of the IV/IV Semester-I & II. The external members were mostly satisfied with the topics proposed for various courses and suggested some additional text / reference books for some courses. They suggested to change the name of EEE 423 course from Energy Control & Management to **Energy Management & Control.**


14. Mr. B. Srinivasa Reddy and Mr. P. Santosh Kumar have suggested to offer a course on 'Project Management' for all final years of all branches as a mandatory course or as an open elective.
15. Prof. B.M. Mohan has suggested to include some experiments on transducers either in control systems lab or in measurements lab.
16. Regarding the AICTE new scheme the committee discussed on the overall four year scheme and first year courses in particular. Under this, the committee discussed on the syllabus framed in BEE for all branch students in their first year. It is resolved not to include electronics chapter in BEE as it gets diluted.
17. In this regard, Prof. Debapriya Das has suggested to remove three phase circuits for the Unit-II on A.C. Circuits.
18. Prof. B.M. Mohan has suggested to include 'Electrical Instrumentation' as one of the courses in PE-I. With a brief introduction on Transducers, Sensors, Signal Conditioning, Encoders & Decoders etc.

  
HOD of EEE

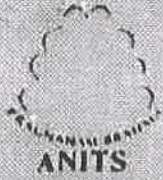
Date: 01-05-2018

C/s to: 1. The Principal

Dr. G. RAJA RAO  
Head of the Department  
ELECTRICAL & ELECTRONICS ENGG.  
ANITS, Sangivalasa,  
Visakhapatnam-531 162

  
Convener, IQAC  
Anil Neerukonda Institute of  
Technology & Sciences  
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Visakhapatnam Dist.

  
Principal  
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Sangivalasa-531 162, Bheemunipatnam Mandal, Visakhapatnam Dt.

**DEPARTMENT OF INFORMATION TECHNOLOGY**

**2<sup>nd</sup> BOS MEETING TO BE HELD ON 28-04-2018.**

**BOS Meeting Agenda:-**

1. 4<sup>th</sup> Year syllabus finalization.
2. Open Electives.
3. Professional Electives.
4. Scheme for 2018 admitted batch.
5. Any other item with the permission of the chair.

**Members to be present:**

Sl No	Name	Designation	Signature
1	Prof. Suresh Chittineni	Chairman, BOS, IT. HoD, IT, ANITS	
2	Prof. Kasukurthi Venkata Rao	Professor, Department of CS&SE, A.U. College of Engineering (A).	
3	Prof. S Krishna Rao	Professor & HoD of IT, CRR College of Engineering.	
4	Mr. Varadha Sri Harsha	Technical Lead, IBM, Visakhapatnam.	—
5	Dr. G. Srinivas	Assoc. Prof., IT, ANITS.	
6	Mr. Ch. Demudu. Naidu	Sr. Asst. Prof., IT, ANITS.	—
7	Mrs. B. Meena	Asst. Prof., IT, ANITS.	
8	Mrs. I S L Sarwani	Asst. Prof., IT, ANITS.	
9	Mrs. N. Sharada	Asst. Prof., IT, ANITS.	—

Sl No	Name	Designation	Signature
6	Mr. Ch. Demudu. Naidu	Sr. Asst. Prof., IT, ANITS.	
7	Mrs. B. Meena	Asst. Prof., IT, ANITS.	<i>Meena</i>
8	Mrs. I S L Sarwani	Asst. Prof., IT, ANITS.	<i>Sarwani</i>
9	Mrs. N. Sharada	Asst. Prof., IT, ANITS.	<i>Sharada</i>
10	Mr. Pandit Samuel	Asst. Prof., IT, ANITS.	<i>Pandit Samuel</i>
11	Mr. N. Aditya Sundar	Asst. Prof., IT, ANITS.	<i>Aditya Sundar</i>
12	Mr. M. V. Kishore	Asst. Prof., IT, ANITS.	<i>Kishore</i>
13	Mr. V. Sairam	Asst. Prof., IT, ANITS.	<i>Sairam</i>

### Discussions:

Dr.G.Srinivas , Associate Professor and I/C HoD welcomed all the members for the second BOS B.Tech-IT. He also informed the house, the absents of other members due to some unavoidable circumstances.

Mrs. B. Meena, Assistant Professor presented the syllabus for IV/IV B. Tech IT and proposed curriculum for 2018 batch

Members deliberated on the design of the curriculum for 2018 batch based on resolutions taken on the Joint Board of Studies of all departments and final year syllabus for 2015 batch.

Following are the resolutions are taken after a rigorous discussion among the members.

## Modifications from BOS for new curriculum:

### B.Tech IT

- The members suggested offering "Object Oriented Programming through C++" in place of Analog Electronic circuits course and lab respectively which is required for IT students in II/IV – SEM 1 for 2018 batch
- The members suggested offering Computer Graphics & Multimedia and Computer Graphics & Multimedia lab in place of the course Design Analysis & Algorithms and lab respectively in II/IV – SEM 2, Python Programming Lab is replaced with Computer Organization & Architecture lab.

### III/IV B.Tech IT

- The members suggested offering Design & Analysis of Algorithms in place of Signals & Systems in III/IV – SEM 1.
- The course Object Oriented Programming to be offered with Java
- The members suggested offering Web Technologies lab in place of the course Compiler Design lab in III/IV – SEM 2 and syllabus framed

### Suggestions from BOS for IV/IV B.Tech :

- The members suggested to combine the experiments and make it feasible for 12 weeks to 16 weeks in Data Analytics Lab and Network Security lab .
- The professional Elective –II – Software Project Management to be swapped with Professional Elective –IV – Cognitive Computing.


### Resolution:


With the above modifications and suggestions the curriculum of new batch (2018) and syllabus for IV/IV B.Tech IT is approved by BOS.

The BOS members approved the list of panel members for paper setting and advised to add more names to the list in future.

Dr.G.Srinivas Associate Professor and I/C HoD, IT thanked all the external members and internal members for their valuable time and suggestions.

  
Chairman, BOS, IT.  
HoD, IT, ANITS

  
Convener, IQAC  
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## MODIFICATIONS FROM BOS FOR NEW CURRICULUM:

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Dr.G.Srinivas Associate Professor and I/C HoD, IT thanked all the external members and internal members for their valuable time and suggestions.

  
Chairman, BOS, IT.  
HoD, IT, ANITS

  
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# Anil Neerukonda Institute of Technology & Sciences (Autonomous)

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Phone: 08933-225083/84/87 Fax: 226395  
Website: [www.anits.edu.in](http://www.anits.edu.in) email: [principal@anits.edu.in](mailto:principal@anits.edu.in)

## Department of ...Information Technology.....

### Consolidated report on feedback and action taken on syllabus/curriculum for the academic year...2018-19.....

Stakeholder	Suggestions	Action Taken
Students	1. Suggested to introduce trending topics as elective subjects.	1. As per the suggestion, 5 elective streams like Networks, Data Engineering, Management, Security & Embedded Systems and Software Engineering were introduced as elective courses in R-19.
Faculty	1. Online Compilers are recommended for Data Structures Lab to get the exposure on Coding Contests. 2. Suggested to add Wrapper Classes & Accessing Methods in Object Oriented Programming Though Java.	1. After Discussion, Feedback given by the teachers was considered and were incorporated in the syllabus of R-19 in Board of Studies held on 30/3/2019.
Alumni	1. Implementation of projects from Third year onwards will be helpful to get into industry. 2. Recommended to incorporate GitHub Fundamentals, DevOps and Cloud Computing.	1. As suggested, industry internship is divided in to two phases in R-19. 2. Suggestions by the alumni were considered by including cloud computing as a professional elective in R-19.
Employers	1. Suggested to keep C++, Java courses (or latest trend courses) as mandatory in the first two years of curriculum of Engineering.	1. As suggested, we already have C++ in II <sup>nd</sup> year 1 <sup>st</sup> semester in R-15, Object Oriented Programming using JAVA in II <sup>nd</sup> year II <sup>nd</sup> semester in R-19.

Head of the department

head of the Dept  
Department of IT  
ANITS Visakhapatnam

Principal

Anil Neerukonda Institute of Technology & Sciences  
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R. Sankarath  
Convener, IQAC

Anil Neerukonda Institute of Technology & Sciences  
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Phones : 08933 - 225083, 225084, 226131 Fax : 08933 - 226395

Minutes of the meeting of the Board of Studies, Dept. of **mechanical Engineering**  
(UG & PG) held on **28th April 2018** at 10:00AM

S.No	Name	Designation	Category	Signature
1	PROF. D. RAVI KUMAR	Prof., Dept. of Mech. Engg, IIT- Delhi	Academic Council Nominee	
2	PROF. CH. RATNAM	Prof. & HOD, Dept. of Mech. Engg. AUCE(A).	Academic Council Nominee	
3	PROF. N. RAMANAIAH	Professor, Dept. of Mech. Engg., AUCE(A). Vishakapatnam.	University Nominee	
4	Dr. A. SHYAM SUNDAR	Dy. General Manger, R&D, RINL, Vishakapatnam.	Industry Nominee	
5	VENKATA POORNESH	Sr. Engineer, BHEL, Visakhapatnam	Alumni Member	
6	PROF. T.V. HANUMANTHA RAO	Principal, ANITS & Professor of Mechanical Engineering	Honorary Member	
7	PROF. D. PRASADA RAO	Prof., Dept. of Mech. Engg., Dean and Controller of Examination, ANITS	Honorary Member	
8	PROF. N. INDRAKIRAN	Prof., Dept. of Mech. Engg., ANITS	Member	
9	R. CHANDRAMOULI	Assoc. Prof., Dept. of Mech. Engg. ANITS	Member	
10	Dr. K.SIVA PRASAD	Assoc. Prof., Dept. of Mech. Engg. ANITS	Member	
11	Dr. RAJESH GHOSH	Assoc. Prof., Dept. of Mech. Engg., ANITS	Member	
12	G. UMAMAHESWARA RAO	Sr. Asst. Prof., Dept. of Mech. Engg. ANITS	Member	
13	M. RAJA ROY	Sr. Asst. Prof., Dept. of Mech. Engg. ANITS	Member	
14	M.S.S. SRINIVAS RAO	Sr. Asst. Prof., Dept. of Mech. Engg. ANITS	Member	
15	J.V. BHANU TEJ	Asst. Prof., Dept. of Mech. Engg. ANITS	Member	
16	M. PREM DHEERAJ	Asst. Prof., Dept. of Mech. Engg. ANITS	Member	
17	BASA NAGARAJU	Asst. Prof., Dept. of Mech. Engg. ANITS	Member	
18	PROF. B. NAGARAJU	HOD, Dept. of Mech. Engg., ANITS	Chairman- Board of Studies (Mechanical)	





**ANIL NEERUKONDA INSTITUTE OF TECHNOLOGY & SCIENCES(A)**  
**(Affiliated to Andhra University, Accredited by NBA)**

**Sangivalasa 531 162, Bheemunipatnam Mandal, Visakhapatnam Dist.**

**MECHANICAL ENGINEERING DEPARTMENT**

**Minutes of Board of studies meeting held on 28-04-2018**

Agenda: Review and ratification of Final year syllabus under autonomous scheme.

The members of board of studies met on this day in metrology lab, Mechanical engineering department, ANITS to review the syllabus and suggest suitable modifications wherever necessary for ratification. At the outset, the chairman of BOS Prof. B. Nagaraju, welcomed the gathering and initiated the process. The review of the syllabus was taken up as an immediate agenda and was done semester wise. The following observations were made by the members:

1. It was suggested by Prof. D. Ravi Kumar that the minimum number of tutorial classes should be one for every unit.
2. The following comments were made regarding the theory subject "**Product Design and Manufacturing**":
  - 2.1 The criteria for material selection should be included in the first unit before studying about product design.
  - 2.2 The unit II which is concerned with "**Failure theories**" seems to be highly fundamental in nature and should be modified.
  - 2.3 The Units III, IV & V are not framed properly and have to be elaborated by including sub topics.
3. It was observed by the experts that the syllabus of "**Finite Element Analysis**" needs to be reviewed to remove such topics which are advanced for UG course.
4. The syllabus of CNCM&CAM requires minor modifications as suggested by the expert team which are elaborated below.
  - 4.1 The contents of Unit-I have to be reduced.
  - 4.2 A topic on **Automatic part programming** to be included in Unit-II.
  - 4.3 Some of the sub topics in unit-V are abbreviated, which have to be elaborated.
5. It is suggested by Dr. Ravi Kumar that since Nano-Technology is being offered by the physics department as an open elective, it is need less to offer the same course as

professional elective by the department. It may be replaced by a suitable contemporary course when the course structure comes for review.

6. It was felt by the members to remove the topic PLC and its applications from the syllabus of **Instrumentation & control systems**.

The chairman thanked the members of the board for their valuable suggestions, which will be given due consideration in modifying the syllabus. The 4<sup>th</sup> year Mechanical Engineering syllabus with these modifications included was finally ratified.

CC to: 1) Principal  
2) Dean of examinations

} for the kind information

28.4.18  
(HOD, Mechanical)  
Dr. B. Naga Raju  
M.Tech.M.E.,Ph.d  
Professor & HOD  
Dept.of Mechanical Engineering  
ANITS, Sangivalasa,  
Visakhapatnam-531 162.

R. Seikarthi  
Convener, IQAC  
Anil Neerukonda Institute of  
Technology & Sciences  
Sangivalasa-531 162  
Visakhapatnam Dist.

Principal  
Anil Neerukonda Institute of  
Technology & Sciences  
Sangivalasa-531 162  
Visakhapatnam Dist.



# Anil Neerukonda Institute of Technology & Sciences (Autonomous)

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## Department of Mechanical Engineering

List of new courses introduced in the Board of Studies (BoS) meeting held on 28-04-2018 for the academic year 2018-19

S. No	Name of the Course	Course Code	Year & Semester
1.	Product Design and Manufacturing	MEC 415(B)	IV/IV, Sem -1
2.	Entrepreneurship Development	MEC 416 (D)	IV/IV, Sem -1
3.	Nano Technology	MEC 416 (E)	IV/IV, Sem- 1
4.	Project Phase-I	MEC 420	IV/IV, Sem -1
5.	Condition Monitoring	MEC 422(B)	IV/IV, Sem -2
6.	MOOCS	MEC 424	IV/IV, Sem -2

*(Ch. Ramanam)*

*(Prof. N. Ramanaiah)*

*28/4/18*

*28/4/18*

*R. Seikanth*  
Convener, IQAC  
Anil Neerukonda Institute of  
Technology & Sciences  
Sangivalasa-531 162  
Visakhapatnam Dist.

*(Kalla VenkataPoornesh)*

*28-4-18*  
Prof. B. NagaRaju,  
Chairman BOS,  
Mech. Engg. Dept.

PROFESSOR & HEAD  
Department of Mechanical Engineering  
ANIL NEERUKONDA INSTITUTE OF TECHNOLOGY & SCIENCES  
Sangivalasa 531 162 VISAKHAPATNAM Dist AP

*(Signature)*  
Principal  
Anil Neerukonda Institute of  
Technology & Sciences  
Sangivalasa-531 162  
Visakhapatnam Dist.

# ANIL NEERUKONDA INSTITUTE OF TECHNOLOGY & SCIENCES

'UGC AUTONOMOUS'

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Website: www.anits.edu.in

e-mail: principal@anits.edu.in

Ref: ANITS/Gen-12/Circular/Notice /2016-17

Date: 15<sup>th</sup> March 2017

## MEETING NOTICE

The third meeting of the **Board of Studies** is scheduled to be held on Saturday the 25<sup>th</sup> March, 2017 at our college premises at Visakhapatnam as per following schedule. All the members are requested to attend the meeting.

Schedule for BOS meeting

Joint Board of Studies Meeting:

### Agenda:

1. To finalize the 3<sup>rd</sup> year scheme of instruction of curriculum and the syllabus for **2017-2018 academic year**

Venue: CRT Hall, Chemical Engineering Block

Time: 09:30 AM

Individual Departments' Board Meeting: 10:30 AM to 01:00 PM in the  
respective Depts.

Lunch: 01:00 PM to 02:00 PM

Conclusion Session: 02:00 PM

To:  
All the Members of BOS  
Special Invitees  
Directors & Deans  
All HoDs  
Placement & Library  
Master file & BOS file



*Anil*  
PRINCIPAL

Principal  
Anil Neerukonda Institute of  
Technology & Sciences  
Sanghialasa - 531 181  
Visakhapatnam Dist.

Dept. of Chemical

S.No	Name of the member	Designation	Category	Signature of the member
1.	Prof. S. Subba Rao	HOD, Chemical, ANITS	Acad. Committee	<i>S. Subba Rao</i>
2.	Prof. G. Hanumantha Rao	Professor, Chemical, ANITS	Academy	<i>G. Hanumantha Rao</i>
3.	Dr. Ch. Anil	Associate Professor, Chemical, ANITS	Member	<i>Ch. Anil</i>
4.	Dr. M. Shiva Nareesh	Associate Professor, Chemical, ANITS	Member	<i>M. Shiva Nareesh</i>
5.	Prof. P.S.L. Sai	Dept. of Chemical Engineering, IIT, Chennai	Academic Council Member	<i>P.S.L. Sai</i>
6.	Prof. S.V. Naidu	Dept. of Chemical Engineering, AICTE (AI), VSP	Academic Council Member	<i>S.V. Naidu</i>
7.	Prof. V. Sujatha	Department of Chemical Engineering AI, CE (A), AU, VSP	Director, Non-Teaching	<i>V. Sujatha</i>
8.	Dr. A. Srinivas Kumar	Scientist 'G' & Technology Director NSFL, DRDO, VSP	Industry	<i>A. Srinivas Kumar</i>

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DEPARTMENT OF CHEMICAL ENGINEERING

Minutes of the meeting of the Board of Studies, Department of Chemical engineering (UG) held on 25<sup>th</sup> March, 2017 at 10.30 AM.

Members present:

- |                            |                                     |
|----------------------------|-------------------------------------|
| 1. Prof. S. Subba Rao      | Chairman, BOS, Chemical Engineering |
| 2. Prof. G. Hanumantha Rao | Member                              |
| 3. Dr. Ch. Anil            | Member                              |
| 4. Dr. M. Shiva Naresh     | Member                              |
| 5. Prof. P.S.T. Sai        | Member, Academic council nominee    |
| 6. Prof. S.V. Naidu        | Member, Andhra University nominee   |
| 7. Dr. A. Srinivasa Kumar  | Member, Industry/Research           |

Resolutions:

1. As per the decision taken in the combined Board of Studies, it is resolved to go with other branches of engineering with the changes suggested by the experts in the subjects CHE 319 and CHE 329 Quantitative and Verbal Aptitude I and II respectively.
2. Syllabi for III/IV B.Tech. Chemical Engineering I and II semesters including Open Electives were discussed and the experts felt satisfactory about the content.
3. The experts suggested to earmark the periods separately as Lectures (L) and Tutorials (T) instead of total periods in the syllabi.
4. The committee felt that the title of the course CHE 328 Chemical Technology and Pollution control Laboratory be changed to "Chemical Technology Laboratory". Similarly the title of the professional elective CHE 316 (E) Technology of Soaps and Detergents be changed to "Soap and Detergent Technology" in line with the titles of other technologies in the list of electives.
5. The committee felt that the case studies in all the units of the subject CHE321 Mass Transfer-II, may be grouped together and mentioned at the end of the syllabus which should be dealt for internal assessment only.

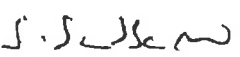
6. Prof P.S.T. Sai suggested to delete the reference of reading material prepared for AU School of Distance Education for the subject CHE323 Material Science and Engineering.

7. Prof S. V. Naidu suggested to include the text book authored by Dr. B. Viswanadthan for Open Elective-I : CHE 311(C) Fuel Cell Technology.

8. Dr. A. Srinivas Kumar suggested to include some more topics in *electric safety* in Open Elective-I: CHE 311(A) Industrial Safety and Hazard Management.

9. The committee felt that the book Shreve's, *Chemical Process Industries*, be included as reference instead of prescribed text book for the subject CHE 324 Chemical Technology.

10. The committee felt that Open Elective-I: CHE 311(D) Design of Experiments be excluded as it is too advanced for B.Tech. students. In this context, Prof G. Hanumantha Rao suggested to explore the possibility of offering the courses like "Applied Statistics for Engineers and Environmental Biotechnology" as Open Electives.

  
(Prof. S. Subba Rao)  
Chairman, BOS

  
Convener, IQAC  
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Visakhapatnam Dist

  
Principal  
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DEPARTMENT OF CIVIL ENGINEERING

Minutes of Board of Studies Meeting held on 25-03-2017  
Autonomous Regulations (2015)

Date : March 25, 2017  
Time : 10:30 AM  
Venue : Civil Engineering Department, ANITS

Agenda:

1. Draft syllabus for III Year I semester and II semester B.Tech (Civil Engineering)
2. List of Electives for III/IV and IV/IV B.Tech
3. Paper setters for III Year I semester and II semester B.Tech (Civil Engineering)
4. Innovative Teaching and Evaluative Techniques
5. Any other item with the permission of the chair

Members Present:

1. Dr. B.V.S.Viswanadham, Professor of Civil Engg., IIT Mumbai *BVS Viswanadham 25/3/17*
2. Dr.T.V.Praveen, Professor, Civil, Andhra University
3. Dr. G.Appa Rao, Professor of Civil Engg., IIT Chennai *G Appa Rao 25/03/17*
4. Sri.R.Nageswara Rao, Superintending Engineer, Visakhapatnam
5. Prof. A.Rama Mohana Rao, Professor of Civil Engg. *A Rama Mohana Rao*
6. Sri.J.Vikranth, Associate Professor of Civil Engg. *J Vikranth*
7. Sri T.V.V.Teja, Assistant Professor of Civil Engg. *T.V.V. Teja*
8. Sri.T.Kiran kumar, Assistant Professor of Civil Engg. *T. Kiran 25/03/17*
9. Ms.P.V.R.Sravya, Assistant Professor of Civil Engg. *P.V.R. Sravya*
10. Dr.B.N.D.Narasinga Rao, Professor and HoD, Dept. of Civil Engg. (In Chair) *B.N.D. Narasinga Rao*

Minutes:

1. Considered the detailed syllabus for III Year I semester and II semester B.Tech Civil Engineering for discussion and approved the same.
2. Considered the List of Electives, including Open Electives, for III/IV and IV/IV B.Tech Civil Engineering along with detailed syllabus for discussion and approved the same.
3. List of paper setters for III Year B.Tech Civil Engineering is considered and approved. The Board, however, has authorized the Head of Department, Civil Engineering, ANITS to add or modify the list wherever necessary.
4. Discussed the innovative Teaching and Evaluation Techniques.

*R. Seikant*  
Convener, IQAC  
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Visakhapatnam Dist.

*aw*  
Principal  
Anil Neerukonda Institute of  
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Sangivalasa-531 162  
Visakhapatnam

*aw*  
(Dr.B.N.D.Narasinga Rao)  
Chairman - Board of Studies  
Civil Engineering - ANITS



5. Members suggested to increase the weekly load to 4 + 1 for the subject Fluid Mechanics – II in III Year – I Semester and also to increase the credits to 4 from 3 in view of the quantum of syllabus involved. It is proposed to maintain the total credits for the program constant by decreasing the credits for Project Work – I (IV Year – I Semester) from 4 to 3.
6. Considered the Course structure and detailed syllabus for M.Tech. (Soil Mechanics), which is proposed to be introduced w.e.f. 2017-18, and approved the same after discussion.

*(Handwritten signature)*

(Dr. B.N.D. Narasinga Rao)  
Chairman – Board of Studies,  
Civil Engineering – ANITS  
Head of the Department  
Department of Civil Engineering  
Anil Neerukonda Institute of Technology and Sciences  
Sangivalasa, Bhimadole, Visakhapatnam Dist.  
Visakhapatnam - 531162

*(Handwritten signature)*  
Convener, IQAC  
Anil Neerukonda Institute of  
Technology & Sciences  
Sangivalasa-531 162  
Visakhapatnam Dist.

*(Handwritten signature)*  
Principal  
Anil Neerukonda Institute of  
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Visakhapatnam Dist.

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**Minutes of Board of Studies Meeting**

**Department of CSE**

**Minutes of the Meeting:**

Subject	:	Board of Studies-Bachelor of Technology (CSE)
Venue	:	LAB 2, Dept. of CSE
Date	:	25-3-2016
Agenda	:	III/ IV B. Tech Syllabus & Contents. IV/IV Sem-I Open Electives

The following members were present in the Meeting:

- Prof. (Dr.) R Sivaranjani- Chairperson-Board of Studies- CSE-ANITS.
- Prof. K.V.S.V.N.Raju- Member- CSE-ANITS.
- Prof. D. Lalitha Bhaskari- Professor-University Nominee-Dept. of CS&SE-AUCOEW
- Dr. Tusar Kanti Mishra - Member - CSE-ANITS.
- Mr. S. Ratan Kumar-Member- CSE-ANITS.
- Mr. Ch. SeshadriRao-Member- CSE-ANITS
- Mrs. PriteeParwekar-Member- CSE-ANITS.
- Mr.B.Ravi Kiran- Member- CSE-ANITS.
- Mrs. Keerthi Lingam -Member- CSE-ANITS.
- Mr.G.Jagadish- Member- CSE-ANITS.
- Dr. S. Lakshminarayana- Special Invitee-Principal Scientist-CSIR-NIO, Vizag.
- Sri KVSS RajeswaraRao-Special Invitee- GM-IT-Vizag Steel Plant, VSP.
- Mr.T.Shyam Vamsi -IBM, Chennai - Alumni
- Dr. B. Majhi-Professor-Academic Council Nominee-Dept. of CSE-NIT Rourkela.

Apologies:

- Dr. C. Sri Nagesh-Industry-Manager- Campus Connect-Infosys Technologies, Hyd.
- Dr. Rajib Mall- Professor-Academic Council Nominee-Dept. of CSE-IIT Kharagpur.
- Mr.K.Suresh- Member- CSE-ANITS.

Chairman BOS officially welcomed all the members for the BOS B. Tech-CSE, B. Tech. <sup>She</sup> also informed the house, the absents of other members due to some unavoidable circumstances.

Mr. S. Ratan Kumar, Assoc. Prof., Dept. of CSE presented the draft curriculum and syllabus for III/ IV B. Tech CSE. Members deliberated on the design of the curriculum for the third year based on resolutions taken on the joint board of studies of all departments. Following the resolutions are taken after a rigorous discussion, debate among the members.

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**VISION & MISSION**

ANITS and CSE department vision and mission statements are presented to the committee for their feedback.

- In the college vision instead of "ANITS envisions to emerge" it can be stated as "To emerge" as it is being stated as vision in heading so it will be duplication.
- In the department vision instead of changing Computer Science technology it can be stated as challenges of CST.

**PROGRAM EDUCATIONAL OBJECTIVES (PEO)**

Committee has suggested to change the order of the PEO's which is as follows:

- Lifelong
- Entrepreneur
- Higher Studies
- Employability

**PROGRAM OUTCOMES (PO)**

The PO's are presented for the feedback and they suggested to include Research word in them.

**PROGRAM SPECIFIC OUTCOMES**

No suggestions given by the committee.

**SUMMARY OF BTECH COURSE**

- The overall summary of the B.Tech course is presented for feedback. Committee enquired about the process of final year projects. 90% of projects are handled by the faculty and rest 10% outside (internships).
- Comparison of CSE curriculum with NIT Warangal , NIT Rourkela etc are displayed
- Committee suggested to include summer course same as BITS Pilani.
- Project Part I, Project Part B can be changed to Project I, Project II.

**3/4 SEM-I SYLLABUS**

3/4 B.tech Sem-1 syllabus is presented for suggestions.

Departmental electives must be named as Professional Electives.

**Data Communications**

- Data Communications title should be changed to Data Communication if possible.

**Computer Operating Systems**

- Title to be changed to Operating Systems instead of Computer Operating Systems if possible.

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## DBMS (Open Elective)

- As DBMS in regular and open elective syllabus are different then the title should be different like DBMS and File Systems
- This elective is for non-cse branch students so the syllabus can be kept simple. Objective is to get the knowledge of the subject. Functional dependency can be included and other details of transactions can be removed.

## Computer Operating Systems (Open Elective)

- Suggestions were given not to keep the references of youtube links.
- Go for online courses as a reference.
- Instead of windows XP specify as windows OS scheduling.
- Give students assignment as case study to know the current operating systems.

## OOP (Open Elective)

- Syllabus is very heavy for non-cse branch students.
- Suggestion was given to divide the subject in two parts.

## CG (Open Elective)

- Suggestions were given to add Books of Indian authors i.e Zhigang Xiang, Roy A.Plastock, "Computer graphics", schaum's outline series, adapter by P.S.Avadhani, The McGrawHill companies.

## Design and Analysis of Algorithms

- Syllabus should not be same for core and open electives.
- Can give this subject as open elective- as algorithm analysis as it is very important subject for other branches to understand. It forms the base of engineering subject.

## CN Lab

- Instead of writing software – suggestion was given to write simulator or open source tools.

## 3/4 SEM-II SYLLABUS

3/4 B.tech Sem-2 syllabus is presented for suggestions.

- Suggested to include Business Analytics in electives

## Compiler Design

- Need to remove the youtube link
- Suggested to add the book authored by Ravi Sethi as reference.

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### Software Engineering

- Need to remove youtube links
- Project Management can be given as a separate unit.

### Web Technologies

- Check for difference between of syllabus in WT and web designing subject.
- Suggested to refer IMAD open courses developed by IIT's.

### Advance Computer Architecture

- Suggested to remove the word advance in the title and make it computer architecture.

### Advanced Data Structure (Professional Elective)

- Change the title to Advanced Data Structures

### Advanced Microprocessors (Professional Elective)

- Unit 4 & 5 syllabus are good.
- Suggested to add introduction of ES and make it as regular subject in 4/4 sem-1 and make space for new elective and it can be named as
  - Smart System Design & Programming

### PPL

- Suggested to modify web references

### OST Lab

- Include advanced microprocessors concepts in this lab contents if possible.

### CC (Open Elective)

- Give demo about how to load VMWare, how to do virtualization in class.

### 4/4 SEM-I OPEN ELECTIVES SYLLABUS

- Committee has suggested to replace python programming with Business Analytics or Web designing or Mobile Security or Cyber security in the electives which will be more useful for students.
- Also suggested to club all the electives and leave the option to students to choose any two of them.
- Instead of project part 1 it should be specified as project 1 and project 2

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**M.Tech SYLLABUS**

- A new course (Information Security & Management) is added in M.tech Sem-2 to balance with the number of credits of other departments.
- Change the title of ISM to Security & Management and contents can be as follows :
  - Unit 1 : Threat Analysis
  - Unit 2 : Risk Management
  - Unit 3 : Information retrieval mechanism
  - Unit 4 : Cyber laws & IT Act
  - Unit 5 : ISO Standards
- Syllabus should be reframed and asked to mail the same to the committee for approval.
- Suggested to remove DOS as elective as the topics are already discussed in AOS and replace it with new elective like Approximation Algorithms.
- Include RTOS topics in ES subject.



Prof. (Dr) R Sivaranjani  
Chairman  
BOS-CSE

  
Convener, IQAC  
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**Minutes of the 3<sup>rd</sup> meeting of Board of Studies, Dept. of ECE (UG)**  
**held on 25.03.2017 at 10.30AM.**

S. No	Name	Designation	Category	Signature
1	Dr. V. Rajya Lakshmi	Head, ECE, ANITS	Chairperson, BOS, ECE	
2	Dr.K.Raja Rajeswari	Prof., ECE, ANITS	Member	
3	Dr.K.S.Ranga Rao	Prof., ECE, ANITS	Member	
4	Dr.K.MuraliKrishna	Prof., ECE, ANITS	Member	
5	Mr. S. Balaramamurthy	Assoc. Prof, ECE,ANITS	Member	
6	Dr.L.Ganesh	Asst. Prof., ECE,ANITS	Member	
7	Mr.D.Anil Prasad	Asst. Prof., ECE,ANITS	Member	
8	Mr. J. Bhaskara Rao	Asst. Prof. ECE, ANITS	Member	
9	Mr. A. Lakshminarayana	Asst. Prof. ECE, ANITS	Member	
10	Mr. Vijaya Kumar Sahu	Asst. Prof. ECE, ANITS	Member	
11	Mr.N.Srinivasa Naidu	Asst. Prof. ECE, ANITS	Member	
12	Mr.Eswar Chaitanya	Asst. Prof., ECE, ANITS	Member	
13	Dr. Shankar Prakriya	Professor, IIT, Delhi	Special invitee	
14	Prof. P. Ramakrishna Rao.	Advisor, ANITS	Academic council nominee	
15	Dr. P. Rajesh Kumar.	Prof. & HoD, ECE, AUCE(A), VSP	Academic council nominee	
16	Prof. A. Mallikarjuna Prasad	Dept. of ECE, JNTU, Kakinada	University Nominee	
17	Mr.N.Srinivas	Avantel, Visakhapatnam	Industry	
18	Mr. M. Durga Prasad	JTO, BSNL.	Alumni	



DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Minutes of the 3<sup>rd</sup> meeting of the BOS, Department of ECE (UG) held on 25.03.2017 at 10: AM in the DSP lab with the following agenda.

1. Finalization of Autonomous syllabus (3<sup>rd</sup> year, semester-I & II)
2. Any other item

The Committee discussed various points given in the agenda submitted by the HOD, Dr.V.Rajyalakshmi and made the following recommendations/suggestions.

The chairperson, Dr.V.Rajya Lakshmi, HOD of ECE, ANITS welcomed all the BOS members present in the meeting and appraised the members about the department through point presentation. During the presentation, the agenda has been discussed by the members in detail.

1. Dr.V.Rajya Lakshmi, chairperson showed the Autonomous scheme of the 3<sup>rd</sup> year semester I & semester II to the members and said that it was discussed in the department advisory Committee meeting held on 20-02-2017 in the department of ECE. Also said that with the acceptance of the members in the Department Advisory Committee (DA) meeting, slight modifications were made in the 3<sup>rd</sup> year semester I & semester II scheme and syllabus. The modifications were as follows:

3rd year, semester-I (Earlier scheme)		3rd year, semester-I (Modified scheme)	
Course code	Name of the course	Course code	Name of the course
ECE 311	Antennas & Wave Propagation	ECE 311	Open Elective-I
ECE 313	Advanced Microprocessors	ECE 313	Microprocessors and applications
ECE 316	Open Elective- I	ECE 316	Antennas & Wave Propagation
ECE 317	VHDL Laboratory	ECE 317	Microprocessors and applications laboratory

3rd year, semester-II (Earlier scheme)		3rd year, semester-II (Modified scheme)	
Course code	Name of the course	Course code	Name of the course
ECE 321	Microwave Engineering	ECE 321	Microwave & Radar Engineering
ECE 327	Microprocessors and Microcontrollers lab	ECE 327	Microcontrollers and Embedded systems lab

2. Dr.V.Rajya Lakshmi, chairperson said that course ECE 311 is the open elective to be offered by each department and showed the open electives offered by the department of ECE.
3. Dr.V.Rajya Lakshmi, chairperson said that as suggested by Prof.P.R.K. Rao, satellite communications systems is included in unit-IV of course ECE 312 (communication system engineering). Also said that course ECE 321 is renamed as Microwave and Radar engineering as Radar engineering is included in unit-V at an introductory level in this course.
4. Dr.V.Rajya Lakshmi, chairperson said that the syllabus is framed by the respective research groups giving similar weightage to each of the units present in the course. Also requested to see the modifications made in the scheme and to give suggestions and recommendations for its appropriateness.
5. Prof. A. Mallikarjuna Prasad, suggested to include "Introduction to Embedded systems" as an open elective instead of "Optoelectronics" in 3<sup>rd</sup> year semester-I.



5. Prof. A. Mallikarjuna Prasad, advised to interchange some of the contents in unit-IV and unit-V of the course ECE 313 (Microprocessors and applications) for better delivery of the content. Mr.G.Bhaskar, Project leader, R&D group, Avantel, expressed that no of hours in unit-V need to be increased. Prof.P. Rajesh Kumar, suggested to include 8257 if possible. Dr.V.Rajya Lakshmi, chairperson enquired about the possibility of including course ECE 313 as open elective. Prof. A. Mallikarjuna Prasad replied not to include as an open elective as it is at advanced level.
6. Prof.P. Rajesh Kumar, advised to combine the contents in unit-I and unit-II as one unit so as to facilitate Digital IC's as one unit in the course ECE 315 (Integrated circuits and applications). Prof. A. Mallikarjuna Prasad suggested text book Digital Design: Principles and Practices by John F.Wakerly for the Digital ICs.
7. Prof. K.Raja Rajeswari, Dean(Projects), ANITS advised to increase the no of hours in unit - III and unit-IV of the course ECE 322.
8. Prof. A. Mallikarjuna Prasad suggested to include Arduino related topics in the course ECE 323. Mr.G.Bhaskar, Project leader, R&D group, Avantel, replied that as basics were already included, topics related to Arduino may not be essential. Also said that experiments related to Arduino may be included in the concerned laboratory.
9. Mr. M. Durga Prasad, JTO, BSNL, said that the channel length modulation is missing in the course ECE 324 (Analog IC design). Mr.D.Anil Prasad, Asst.Professor replied that the content will be taught in the topic second order effects which is in unit-I.

2. Prof. K.S.Ranga Rao enquired about the contents of unit-V in the course ECE 324(Analog Integrated circuits Design). Mr.Anil Prasad, Asst.Professor replied that ECE 324 deals with MOSFET based op-amp design.
3. Mr. M. Durga Prasad, JTO, BSNL, enquired about contents like OFDM, GSM , MIMO etc whether included in the Digital communications course and suggested to include atleast OFDM in digital communications.
4. Prof.P.R.K. Rao expressed that including OFDM without coverage of transforms is not appropriate. Prof.K.Murali Krishna said these topics can be included in the course "Cellular and Mobile Communications"
5. Prof.P.R.K. Rao suggested to replace name of unit-II in course "Digital Communications" as Data reception instead of data transmission. Also advised to include cyclic codes in unit-V.
6. Prof.P. Rajesh Kumar, advised to mention the list of experiments to be done on breadboard and through simulations separately stating minimum no of experiments to be done by the students in the course ECE 326.

The chairperson thanked all the members for their active participation and valuable suggestions.

Mr. Mr. S. Balaramamurthy, proposed the vote of thanks.

R. Seikanth

Convener, IQAC  
Anil Neerukonda Institute of  
Technology & Sciences  
Sangivalasa-531 162  
Visakhapatnam Dist.

Principal

Anil Neerukonda Institute of  
Technology & Sciences  
Sangivalasa-531 162

Dr.V.Rajya Lakshmi

Chairperson, DAC & HOD, ECE

ANITS

Head of the Department

Department of ECE

Anil Neerukonda Institute of Technology & Sciences

Sangivalasa-531 162



**Minutes of the Board of Studies (BOS of EEE) meeting held on 25-03-2017**  
**(Saturday) at 10.30 AM.**

**MEMBERS PRESENT:**

1. Prof. R. Govardhana Rao, Director (Admn.), ANITS.
2. Prof. B.M. Mohan, Professor, Dept. of Electrical Engg., IIT Kharagpur.
3. Sri B. Srinivasa Reddy, Asst. General Manager (Electrical), RINL, VSP.
4. Sri K. Anil Kumar, Asst. Manager, RINL, Visakhapatnam.
5. Mr. S. Balamurali, Assoc. Prof., ANITS.
6. Mr. J. Vijaya Kumar, Assoc. Prof., ANITS.
7. Mrs. K.V.R. Swathi, Asst. Prof., ANITS.
8. Mr. Kavala Kiran Kumar, Asst. Prof., ANITS.
9. Mr. B. Rajasekhar, Asst. Prof., ANITS.
10. Mr. R. Satish, Asst. Prof., ANITS.
11. Mr. M. Sudheer Kumar, Asst. Prof., ANITS.
12. Mr. L. Dinesh, Asst. Prof., ANITS.
13. Mr. A. Dhanamjaya Apparao, Asst. Prof., ANITS.
14. Prof. G. Raja Rao (Chair person), Professor & HOD of EEE, ANITS.

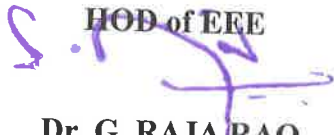
\* \* \*

1. The Chair person welcomed all the BOS members of the department and thanked the members for the support they have rendered to the department.
2. After having brief discussion, the committee has resolved to have 12 program outcomes (POs) in place of the previous existing 11 program outcomes. Also 2 new program specific outcomes (PSOs) have been formed for the program.
3. The board discussed on the topics / units mentioned in all courses of the III/IV Semester-I & II. The external members were mostly satisfied with the topics proposed for various courses and suggested certain modifications in some courses.
4. Mr. B. Srinivasa Reddy suggested to include 'Indian Electricity Regulations' in the last unit of EPGU course (course code: EEE 315).

5. Prof. B.M. Mohan suggested to include 'Evolutionary Algorithms' topic and accordingly advised to change the title of the Professional Elective-I 'ANN, Fuzzy & Genetic Algorithms' (EEE 321-4).
6. He also suggested to offer 'Electrical Instrumentation' as one of the courses in PE-I with a brief introduction on Transducers, Sensors, Signal Conditioning, Encoders & Decoders, etc.
7. Mr. K. Anil Kumar explained 'Communication Protocols' being practiced in production industry such as RINL (Vizag Steel Plant) and suggested to introduce as one of the electives or at least to include in the syllabus of Distribution System Automation course (course code: EEE 413-1).
8. Mr. B. Srinivasa Reddy suggested to include Power System Harmonics in the final year course PSP (course code: EEE 416) as it is a vital aspect for an electrical engineer.
9. The BOS members have discussed in general some of the topics to be included in the final year courses to be proposed next year.

Date: 27-03-2017

- C/s to: 1. The Principal  
2. The Director (Admn.)

HOD of EEE  
  
Dr. G. RAJA RAO

Head of the Department  
ELECTRICAL & ELECTRONICS ENGG.  
ANITS, Sangivalasa,  
Visakhapatnam-531 162

  
Convener, IQAC  
Anil Neerukonda Institute of  
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Principal  
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Sangivalasa-531 162, Bheemunipatnam Mandal, Visakhapatnam Dt.

**DEPARTMENT OF INFORMATION TECHNOLOGY**

**1<sup>ST</sup> BOS MEETING TO BE HELD ON 25-03-2017.**

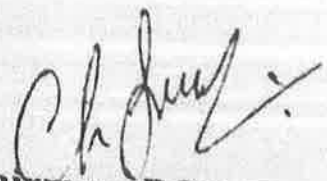
**BOS Meeting Agenda:-**

1. 3<sup>rd</sup> Year syllabus finalization.
2. Open electives.
3. Departmental electives.
4. 4<sup>th</sup> Year Scheme.
5. Any other item with the permission of the chair.

**Members to be present:**

SI No	Name	Designation	Signature
1	Prof. Suresh Chittineni	Chairman, BOS, IT. HoD, IT, ANITS	
2	Prof. Kasukurthi Venkata Rao	Professor, Department of CS&SE, A.U. College of Engineering (A).	
3	Mr. Sairam Bollapragada	Vice President (Digital, Automation, Delivery Excellence Strategy) at Tech Mahindra.	
4	Mr. CSS Prithvi Raj	Expert ERP Developer & Certified Financial Risk Manager(FRM) from Skillro.	
5	Mr. Suresh Batha	Joint Director, Software Technology Parks of India (STPI)	-
6	Dr. M. Rama Krishna Murthy	Assoc. Prof., IT, ANITS.	
7	Dr. G. Srinivas	Assoc. Prof., IT, ANITS.	

8	Mr. Ch. Demudu. Naidu	Sr. Asst. Prof., IT, ANITS.	Nar
9	Mrs. B. Meena	Asst. Prof., IT, ANITS.	Koduru
10	Mrs. I S L Sarwani	Asst. Prof., IT, ANITS.	Gemini
11	Mrs. N. Sharada	Asst. Prof., IT, ANITS.	-
12	Mr. Pandit Samuel	Asst. Prof., IT, ANITS.	Peel
13	Mr. N. Aditya Sundar	Asst. Prof., IT, ANITS.	N. S.
14	Mr. M. V. Kishore	Asst. Prof., IT, ANITS.	K. V.

  
 Chairman, BOS, IT.  
 HoD, IT, ANITS



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**DEPARTMENT OF INFORMATION TECHNOLOGY**

**Minutes of Board of Studies Meeting**

**Department of Information Technology**

**Minutes of the Meeting:**

**Subject:** Board of Studies-Bachelor of Technology (IT)

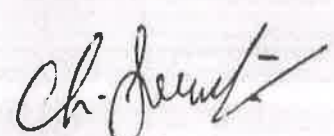

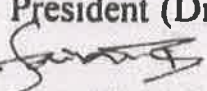


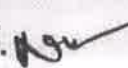





**Venue:** Room no -.407, Dept. of IT

**Date:** 25-3-2017

**Agenda:**

1. 3<sup>rd</sup> Year syllabus finalization.
2. Open electives.
3. Departmental electives.
4. 4<sup>th</sup> Year Scheme.

**The following members were present in the Meeting:**

1. Prof. Suresh Chittineni, Chairman, BOS & HoD, IT, ANITS 
2. Prof. Kasukurthi Venkata Rao, Professor, Department of CS&SE, AUCE (A). 
3. Mr. Sairam Bollapragada, Vice President (Digital, Automation, Delivery Excellence Strategy) at Tech Mahindra. 
4. Dr. M. Rama Krishna Murthy, Assoc. Prof., IT, ANITS. 
5. Dr. G. Srinivas, Assoc. Prof., IT, ANITS. 
6. Mr. Ch. Demudu. Naidu, Sr. Asst. Prof., IT, ANITS. 
7. Mrs. B. Meena, Asst. Prof., IT, ANITS. 
8. Mrs. I S L Sarwani, Asst. Prof., IT, ANITS. 
9. Mr. Pandit Samuel, Asst. Prof., IT, ANITS. 
10. Mr. N. Aditya Sundar, Asst. Prof., IT, ANITS. 
11. Mr. M. V. Kishore, Asst. Prof., IT, ANITS. 

**Discussions:**

Prof. Suresh Chittineni, Chairman BOS officially welcomed all the members for the first BOS B.Tech-IT. He also informed the house, the absents of other members due to some unavoidable circumstances.

Prof. Suresh Chittineni, HoD, IT has presented objective, achievements and future endeavors of the Department

Mrs. B. Meena, Assistant Professor presented the draft curriculum and syllabus for III/IV B. Tech IT.

Members deliberated on the design of the curriculum for the third year based on resolutions taken on the joint board of studies of all departments. Following are the resolutions are taken after a rigorous discussion among the members.

### Suggestions from BOS for III/ IV B. Tech IT:

- The members suggested to offer “Engineering Analytics” as one of Open Electives as this course is beneficial for other Engineering courses
- The members suggested to add 4<sup>th</sup> and 5<sup>th</sup> normal forms in the course Database Management Systems (DBMS)
- In the course “Object Oriented Programming through JAVA” (OOP through JAVA) a topic – Introduction to kept in first unit and packages topic of unit 3 to be shifted to unit 2
- In the course “Design and Analysis of Algorithms” (DAA) the members suggested to put examples in Branch and Bound, Backtracking topics
- For the course “Mobile computing”, the members suggested to name it as “Mobile Computing and Application Development”. This course align with mobile computing and application development laboratory by introducing common platform for mobile application.
- For the CASE tools lab the members suggested mini project domain such as
  - Web Content Management System
  - Internet of Things
  - Speech Recognition
  - Enterprise Resource Planning (ERP) based system
  - Online Analytical Processing (OLAP)
  - Online Transaction Processing (OLTP)
  - Information Security
  - Image Processing
  - Automation Systems etc.,
- The professional electives suggested by the members for III/IV BTech Sem 2 are
  - Distributed Operating Systems
  - Technology management
  - Software Testing and Automation
  - Client Server Technology
- The members suggested that the department should encourage certification course. Internship in Industrial training which is after 3-2.
- The members suggested to include Foreign language / Personality Development under MOOC or during summer vacation after second year SEM-2.



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### Department of .....Information Technology.....

### Consolidated report on feedback and action taken on syllabus/curriculum for the academic year...2017-18.....

Stakeholder	Suggestions	Action Taken
Students	<ol style="list-style-type: none"> <li>Suggested to introduce Testing topic in UML</li> <li>Suggested to replace Technology management, Intellectual Property Rights subjects with any other trending subject.</li> <li>Suggested to combine Digital Electronics and Computer Organization experiments</li> </ol>	<ol style="list-style-type: none"> <li>Changes were made in the suggested subject for R-19.</li> <li>Analysis was done and the necessity of changes were forwarded for discussion in Board of Studies held on 25/3/2017, and were incorporated in the course structure of R-19.</li> <li>As suggested, both DLD and CO were combined and incorporated in R-19.</li> </ol>
Faculty	<ol style="list-style-type: none"> <li>Suggested to add Php and advanced concepts in Web Technology subject. Try to revise the concepts like Memory management which is common for both Operating Systems, Computer Organization subjects.</li> <li>Suggested to integrate Formal Languages and automata Theory and Compiler Design subjects so that scope can be given for inclusion of latest subjects.</li> </ol>	<ol style="list-style-type: none"> <li>After Discussion, Feedback given by the teachers was considered and reflected in corresponding subjects for R-19.</li> <li>As suggested, integrated both subjects in R-19.</li> </ol>
Alumni	<ol style="list-style-type: none"> <li>Industry requires practical exposure, so make an effort to incorporate more labs.</li> </ol>	<ol style="list-style-type: none"> <li>Suggestions by the alumni were finalized in Board of Studies held on 25/3/2017 and incorporated elective labs like ETL, DevOps and Advanced Java in R-19.</li> </ol>
Employers		

*R. Seikanti*  
 Convener, IQAC  
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*[Signature]*  
 Principal  
 Anil Neerukonda Institute of  
 Technology & Sciences  
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 Visakhapatnam Dist.

*[Signature]*  
 Head of the department  
 Department of IT  
 ANITS, Visakhapatnam



- Further the members explored that the potential of IT lies in offering Internet of things for multidisciplinary branches by establishing IoT Lab in collaboration with other departments. The members asserted to establish IoT Lab.

**Resolution:**

With the above modifications and suggestions the syllabus for III/IV B.Tech IT is approved by BOS. However, any further modification can be taken up in next BOS meet.

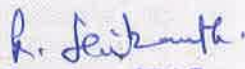
The BOS members approved the list of panel members for paper setting and advised to add more names to the list in future.

Prof. Suresh Chittineni HoD, IT, thanked all the external members and internal members for their valuable time and suggestions.



**Prof. Suresh Chittineni**  
**Chairman, BOS & HoD, IT**

Head of the Department of  
Information Technology  
Anil Neerukonda Institute of  
Technology & Science,  
Sangivalasa, Visakhapatnam



**Convener, IQAC**  
**Anil Neerukonda Institute of**  
**Technology & Sciences**  
**Sangivalasa-531 162**  
**Visakhapatnam Dist.**



**Principal**  
**Anil Neerukonda Institute of**  
**Technology & Sciences**  
**Sangivalasa-531 162**  
**Visakhapatnam Dist.**



**Minutes of Board of studies meeting held on 25-03-2017**

Agenda: Review and ratification of Third year syllabus under autonomous scheme.

The members of board of studies met on this day in metrology lab, Mechanical engineering department, ANITS to review the syllabus and suggest suitable modifications wherever necessary for ratification. At the outset, the chairman of BOS Prof. B. Nagaraju, welcomed the gathering and initiated the process. The review of the syllabus was taken up as an immediate agenda and was done semester wise. The following observations were made by the members:

1. It was suggested by Prof. D. Ravi Kumar that the number of periods allotted per each unit should be split into two parts, comprising of lecture & tutorial classes. This would give a clear idea to the concerned faculty with regards to the actual number of lecture and tutorial classes available. This will be also inline with the periods per week mentioned in the course structure.
2. The external board member, Prof. D. Ravi Kumar suggested to include the topic microfluidics at fundamental level, if possible, in **Hydraulic machinery and systems** subject as a subtopic since fluidics is already included in the fifth unit. The internal members would look into this matter taking into account the available number of classes.
3. The external board member Prof. K. Ramji suggested that titles of the subject have to be changed such that they reflect the course content. However, Prof. T.V. Hanumantha Rao, Honorary member, said that though this is a valid suggestion, this change cannot be implemented as the four year course structure has already been approved by the earlier BOS and academic council of college. This modification will certainly be effected when the entire four year course structure comes for next review.
4. With regards to **MFT-II lab** experiments, it was commented by one of the members that the first 6 experiments do not meet any scientific objective and are merely meant for familiarizing with machine tools which do not serve any purpose. It was however felt by other senior board members that the measurement of cutting parameters is included from 7<sup>th</sup> to 12<sup>th</sup> experiment in the list. Further, the experiment on grinding of single point cutting tool will also include the study and measurement of tool signature.
5. It was suggested by the members to include a topic on "Coordinate Measuring Machine (CMM)" in unit-V of **MFT-III** syllabus, which was readily accepted by the committee.

6. Prof. K. Ramji advised to elaborate the unit-V of **IEM** syllabus mentioning the type of control charts. He also suggested to include "Supply chain management" in the syllabus.
7. Prof. K. Ramji advised to include two text books for each subject, one of them being of foreign author. He also suggested to include the latest edition of text books and reference books.
8. A rearrangement of topics between units III&V was suggested in **DME-II** syllabus, where in belt drives, chain drives have to be grouped as one unit and brakes, crane hook & wire ropes as another unit. Further, it was also commented to mention the various cross sections of crane hooks.
9. It was felt by all the members that there is a repetition of topics in unit I of the subject **AMOS**. The topic of Bi-axial stresses has to be completely removed and basics of theory of elasticity have to be included in its place. Prof. K. Ramji suggested to include the book titled *Mechanics of solids* by James Gere and Timoshenko (CBS publications) as text book.
10. The members across the board said that the syllabus of **PPC** contains some topics which are already part of **IEM & OR**. Hence the syllabus has to be reviewed and elaborated.
11. The members of the board suggested that a student representative preferably topper may be included as a member of BOS. This is customary in Outcome Based Education (OBE).
12. Prof. K. Ramji suggested to include one credit audit course to enhance the social awareness of the student and his technical capability to analyse and solve problems of society.

The chairman thanked the members of the board for their valuable suggestions, which will be given due consideration in modifying the syllabus. The 3<sup>rd</sup> year Mechanical Engineering syllabus with these minor modifications included was finally ratified.

CC to: 1) Principal  
2) Dean of examinations

} for the kind information

→ N → 74 25.3.17  
(HOD, Mechanical)

Dr. B. Naga Raju  
M.Tech, M.E., Ph.D  
Professor & HOD  
Dept. of Mechanical Engineering  
ANITS, Sangivalasa,  
Visakhapatnam-531 162.

R. Seikanti  
Convener, IQAC  
Anil Neerukonda Institute of  
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Visakhapatnam Dist.

Principal  
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## Department of Mechanical Engineering

List of new courses introduced in the Board of Studies (BoS) meeting held on 25-03-2017 for the academic year 2017-18

S. No	Name of the Course	Course Code	Year & Semester
1.	Robotics (Open Elective)	MEC 311-1	III/IV, Sem -1
2.	Computer Aided Design (Open Elective)	MEC 311-2	III/IV, Sem -1
3.	Verbal and Quantitative Aptitude - I	MEC 319	III/IV, Sem -1
4.	Automation in Manufacturing	MEC 326 (B)	III/IV, Sem -2
5.	Advanced Mechanics of Solids	MEC 326 (C)	III/IV, Sem -2
6.	Rapid Prototyping	MEC 326 (E)	III/IV, Sem -2
7.	Verbal and Quantitative Aptitude - II	MEC 329	III/IV, Sem -2

*(Handwritten signature)*  
(Ch. Ratnam)

25/3/17  
Prof. B. NagaRaju,  
Chairman BOS,  
Mech. Engg. Dept.

PROFESSOR & HEAD  
Department of Mechanical Engineering  
ANIL NEERUKONDA INSTITUTE OF TECHNOLOGY & SCIENCES  
Sangivalasa-531 162 VISAKHAPATNAM DISTRICT

K. Nani  
(K. Nani)  
25/3/2017

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(R. Chandramali)  
25/3/17

*(Handwritten signature)*  
25/3/2017

*(Handwritten signature)*  
25/3/17

Convener, BOS  
Anil Neerukonda Institute of  
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Principal  
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