

ANNAMACHARYA INSTITUTE OF TECHNOLOGY & SCIENCES::RAJAMPET
(AN AUTONOMOUS INSTITUTION)
DEPARTMENT OF CIVIL ENGINEERING
IX-BOS MINUTES: 2018-2019

Date: 08-12-2018

The minutes of BOS held at 9:30 AM on Sunday 08-12-2018 in connection with B.Tech civil engineering and M.Tech Structural Engineering at institute premises AITS, Rajampet.

Agenda:

- To review the proposed course syllabus for III and IV B.Tech which is already finalized in R17 Regulations and M.Tech structural Engineering program (minor changes if necessary).
- Discussion to finalize list of open electives as follows:

| LIST OF OPEN ELECTIVE SUBJECTS | | Offered By Department of |
|--------------------------------|------------------------------------|-----------------------------|
| 7G674 | Disaster Management | CE |
| 7G275 | System Modelling and Simulation | EEE |
| 7G575 | Total Quality Management | ME |
| 7G576 | Integrated Product Development | ME |
| 7G376 | Industrial Electronics | ECE |
| 7G377 | Medical Instrumentation | ECE |
| 7G178 | Cyber Laws | CSE |
| 7G179 | Principles of programming language | IT |
| 7GA72 | Intellectual Property Rights | DBA |
| 7GA71 | Human Resource Management | DBA |

- Discussion on implementation of Structural Analysis lab and Project management lab in III B.Tech – II Sem and IV B.Tech-I Sem.
- Proposal to implement AICTE Model Curriculum for R19 Regulations.
- Proposal to implement 6 Professional electives, 4 open elective in the R-19 Regulations.

The following are the members of the committee :

1. Dr.K.Nagendra PrasadUniversity nominee
Professor
SVU, Tirupathi.
2. Dr.G.ApparaoExternal Member
Professor
IIT, Madras

- | | | |
|----|--|----------------------|
| 3. | Dr.S.K Sekhar Professor VIT, Vellore. |External Member |
| 4. | Dr.SMVNarayana- Principal, AITS, Rajampet, Kadapa Dt. |Member |
| 5. | Dr.Y.SreeRamulu Professor & HOD AITS, Rajampet, Kadapa Dt. |Member |
| 6. | Mr.T.Nareshkumar - Asst. Professor, AITS, Rajampet, Kadapa Dt. |Member |
| 7. | Ms.N.R.Gowthami- Assistant professor, AITS, Rajampet, Kadapa Dt. |Member |
| 8. | Mr.M.C Venkatasubbaiah Assistant professor, AITS, Rajampet, Kadapa Dt. |Member |

The committee went through the course structure, syllabi for III & IV B.Tech programme and Regulations of R-19 for B.Tech in civil engineering department and resolved as follows.

- Finalized the course structure for III and IV B.Tech as enclosed in ANNEXURE-I.
- The Professional elective course named Railway docks and harbours is renamed as advanced transportation engineering in IV B.Tech II Sem.
- The core course named Estimation and quantity surveying is renamed as Estimation, costing and valuation in III B.Tech-II Sem.
- The professional elective course Railway docks and harbour engineering is renamed as Advanced transportation engineering in IV.Btech-II Sem.
- The structural analysis lab can be delt by using any software equivalent to E-Tabs such as, ROBOT Structural analysis and BIM etc,or if any other software available in III B.Tech-II Sem.
- The Project management lab can be delt by using any software equivalent to MS-Project or PRIMAVERA in IV B.Tech-I Sem.
- Finalized the R19 Regulations course structure with 6 Professional electives and 4 open elective as enclosed in ANNEXURE-II.

Divided the B.Tech project in to two phases-Project phase-I at IV.B.Tech-I Sem and Project phase-II IV.B.Tech-II Sem.


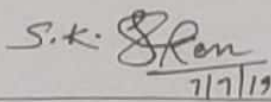
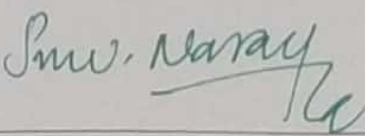
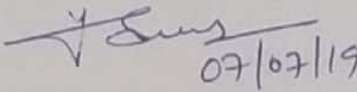
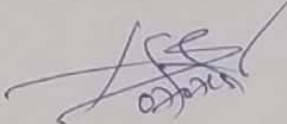
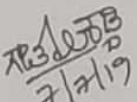
Expecting further modifications in R-19 Regulations by next BOS.

To follow the same regulations coarse structure, scheme of instructions and syllabi for I, II, III & IV B.Tech and M.Tech structural engineering programme in civil engineering department as in ANNEXURE-IV.

The open electives are reviewed as follows:

| LIST OF OPEN ELECTIVE SUBJECTS | | Offered By Department of |
|--------------------------------|------------------------------------|-----------------------------|
| 7G674 | Disaster Management | CE |
| 7G275 | System Modelling and Simulation | EEE |
| 7G575 | Total Quality Management | ME |
| 7G576 | Integrated Product Development | ME |
| 7G376 | Industrial Electronics | ECE |
| 7G377 | Medical Instrumentation | ECE |
| 7G178 | Cyber Laws | CSE |
| 7G179 | Principles of programming language | IT |
| 7GA72 | Intellectual Property Rights | DBA |
| 7GA71 | Human Resource Management | DBA |

Attestation:

| S.No | Name of the members | Signature of the members |
|------|--|---|
| 1. | Dr.K.Nagendra Prasad- University nominee Professor SVU, Tirupathi. | |
| 2. | Dr.G.Apparao- External Member Professor IIT, Madras |  |
| 3. | Dr.S.K Sekhar - External Member Professor VIT, Vellore |  S.K. Sekhar 7/7/19 |
| 4. | Dr.SMV Narayana- Member Principal, AITS, Rajampet, Kadapa Dt. |  Smv. Narayana |
| 5. | Dr. Y.Sree Ramulu - Member Professor & HOD AITS, Rajampet, Kadapa Dt. |  Y. Sree Ramulu 07/07/19 |
| 6. | Mr.T.Naresh kumar- Member Asst. Professor, AITS, Rajampet, Kadapa Dt. |  T. Naresh Kumar 07/07/19 |
| 7. | Mrs.N.R.Gowthami- Member Assistant professor, AITS, Rajampet, Kadapa Dt. |  N.R. Gowthami 7/7/19 |

ANNEXURE-I

III Year B. Tech., I Semester

| Subject Code | Subject Name | Hours / Week | | | C |
|--------------|--|--------------|-----------|-----------|-----------|
| | | L | T | P | |
| 7G651 | Design and Drawing of Reinforced Concrete Structures | 3 | 2 | 0 | 3 |
| 7G652 | Engineering Geology | 3 | 1 | 0 | 3 |
| 7G653 | Environmental Engineering-I | 3 | 1 | 0 | 3 |
| 7BA51 | Managerial Economics and Financial Analysis | 3 | 1 | 0 | 3 |
| 7G654 | Water Resource Engineering -I | 3 | 1 | 0 | 3 |
| 7G655 | Structural Analysis-II | 3 | 1 | 0 | 3 |
| 7G656 | Environmental Engineering Lab | 0 | -- | 3 | 2 |
| 7G657 | Engineering Geology Lab | 0 | -- | 3 | 2 |
| 7G658 | Structural analysis and Design Lab-I STAAD PRO | 0 | -- | 3 | 2 |
| 7GC52 | English for Competitive Examination | -- | 2 | -- | 1 |
| AUDIT COURSE | Professional Ethics / Stress Management | 2 | -- | -- | 0 |
| Total | | 20 | 09 | 09 | 25 |

III Year B. Tech., II Semester

| Subject Code | Subject Name | Hours / Week | | | C |
|---------------------------------|--|--------------|-----------|-----------|-----------|
| | | L | T | P | |
| 7G661 | Concrete Technology | 3 | 1 | 0 | 3 |
| 7G662 | Design and Drawing of steel structures | 3 | 1 | 0 | 3 |
| 7G663 | Estimation, costing and Valuation | 3 | 1 | 0 | 3 |
| 7G664 | Geotechnical Engineering | 3 | 1 | 0 | 3 |
| 7G665 | Water Resource Engineering-II | 3 | 1 | 0 | 3 |
| PROFESSIONAL ELECTIVE -I | | | | | |
| 7G666 | Advanced Structural Analysis | 3 | 1 | 0 | 3 |
| 7G667 | Environmental Engineering-II | | | | |
| 7G668 | Numerical methods in civil Engineering | | | | |
| 7G669 | Concrete Technology Lab | 0 | -- | 3 | 2 |
| 7G66A | Structural Analysis and Design Lab II – E-TABS/ROBOT-Structural Analysis/BIM | 0 | -- | 3 | 2 |
| 7GC61 | *Advanced English communication skills lab | 0 | -- | 3 | 2 |
| 7G66B | Seminar-II | 0 | -- | 2 | 1 |
| Total | | 18 | 06 | 11 | 25 |

Note: L - Lecture; T-Tutorial; P – Practical; C – Credit

IV Year B. Tech., I Semester

| Subject Code | Subject Name | Hours / Week | | | |
|----------------------------------|--|--------------|-----------|-----------|-----------|
| | | L | T | P | C |
| 7G671 | Design and Drawing of Irrigation Structure | 3 | 1 | 0 | 1 |
| 7G672 | Foundation Engineering | 3 | 1 | 0 | 1 |
| 7G673 | Transportation Engineering | 3 | 1 | 0 | 1 |
| 7G674 | Open Elective | | 1 | 0 | 1 |
| 7G675 | MOOCs | 3 | | 0 | 1 |
| PROFESSIONAL ELECTIVE -II | | | | | |
| 7G676 | Bridge Engineering | | 1 | | 1 |
| 7G677 | Finite Element Methods for Civil Engineering | | | 0 | 2 |
| 7G678 | Ground Improvement Techniques | 0 | | | 2 |
| 7G679 | Geotechnical Engineering Lab | 0 | -- | 3 | |
| 7G67A | Transportation Engineering Lab | 0 | -- | 3 | 2 |
| 7G67B | Project Management Lab-MS Project Primavera | 0 | -- | 3 | 2 |
| 7G67C | Comprehensive Civil Engineering | 0 | -- | 3 | 2 |
| Total | | 15 | 05 | 11 | 25 |

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| 7G576 | Integrated Product Development | ME |
| 7G376 | Industrial Electronics | ECE |
| 7G377 | Medical Instrumentation | ECE |
| 7G178 | Cyber Laws | CSE |
| 7G179 | Principles of programming language | IT |
| 7GA72 | Intellectual Property Rights | DBA |
| 7GA71 | Human Resource Management | DBA |

IV Year B. Tech., II Semester

| Subject Code | Subject Name | Hours / Week | | | |
|----------------------------------|--|--------------|----------|----------|-----------|
| | | L | T | P | C |
| PROFESSIONALELECTIVE -III | | | | | |
| 7G681 | Advanced Environmental Engineering | 3 | | | |
| 7G682 | Green Buildings | | 1 | | |
| 7G683 | Prestressed concrete | | | 1 | |
| PROFESSIONALELECTIVE IV | | | | | |
| 7G684 | Advanced RCC Design | 3 | | | |
| 7G685 | Construction Planning and Project Management | | 1 | | |
| 7G686 | Advanced Transportation Engineering | | | 1 | |
| PROFESSIONALELECTIVE V | | | | | |
| 7G687 | Elements of Earth Quake Resistant Design | 3 | | | |
| 7G688 | Ground water Development and Management | | 1 | | |
| 7G689 | Remote sensing and GIS | | | 1 | |
| 7G68A | Seminar - III | 0 | | | |
| 7G68B | Project Work | | | | 2 |
| Total | | 09 | 3 | 3 | 10 |

Note: L - Lecture; T-Tutorial; P - Practical; C - Credits

ANNEXURE-II

I Year B. Tech., I Semester

| Subject | Subject Name | Hours / Week | | | C |
|--------------|------------------------------|--------------|----------|-----------|-------------|
| | | L | T | P | |
| | Engineering chemistry | 2 | 1 | 0 | 3 |
| | Engineering Mathematics-I | 3 | 1 | 0 | 4 |
| | English | 3 | 0 | 0 | 3 |
| | Engineering Mechanics | 3 | 0 | 1 | 3 |
| | Basic electrical engineering | 2 | -- | 0 | 2.0 |
| | Engineering chemistry Lab | -- | -- | 3 | 1.5 |
| | Basic electrical lab | -- | -- | 3 | 1.5 |
| | ELCS lab | -- | -- | 4 | 1.5 |
| Total | | 13 | 2 | 11 | 19.5 |

I Year B. Tech., II Semester

| Subject | Subject Name | Hours / Week | | | C |
|--------------|--|--------------|----------|-----------|-------------|
| | | L | T | P | |
| | Engineering Physics(mechanics & MOS) | 2 | 1 | 0 | 3 |
| | Engineering Mathematics-II | 3 | 1 | 0 | 4 |
| | Engineering graphics | 1 | -- | 4 | 3 |
| | Problem solving techniques and C Programming | 1 | -- | 4 | 3 |
| | Workshop Manufacturing Practices | 3 | 1 | 0 | 3 |
| | Engineering Physics lab | -- | -- | 3 | 1.5 |
| | Programming in C Lab | -- | -- | 2 | 1.5 |
| | Engineering Work shop | -- | -- | 2 | 1.5 |
| Total | | 10 | 3 | 15 | 20.5 |

II Year B. Tech., I Semester

| Subject Code | Subject Name | Hours / Week | | | C |
|--------------|---|--------------|-----------|-----------|--------------|
| | | L | T | P | |
| | Computer aided civil engineering drawing | 1 | 0 | 2 | 3 |
| | Strength of Materials-I | 3 | 1 | 0 | 3 |
| | Engineering Mathematics-III | 2 | 1 | 0 | 3 |
| | Surveying-I | 3 | 1 | 0 | 4 |
| | Introduction to Construction Materials(BMC) | 3 | 1 | 0 | 3 |
| Mc | Environmental sciences | 3 | 0 | 0 | 0 |
| | Surveying Lab-I | 0 | 0 | 3 | 1.5 |
| | Strength of Materials Lab | 0 | 0 | 3 | 1.5 |
| | Aptitude and Reasoning | 0 | 0 | 2 | 1 |
| Total | | 15 | 04 | 10 | 20.00 |

II Year B. Tech., II Semester

| Subject Code | Subject Name | Hours / Week | | | C |
|--------------|--|--------------|---|---|---|
| | | L | T | P | |
| | Mechanical Engineering & Electrical technology | 3 | 1 | 0 | 2 |

| | | | | |
|---|-----------|-----------|-----------|-----------|
| Open elective-II | 2 | 1 | -- | 2 |
| Professional communications lab | -- | -- | 2 | 1 |
| Concrete technology lab | -- | -- | 3 | 1.5 |
| Project Management Lab-MS Project/Primavera | -- | -- | 3 | 1.5 |
| Mini Project | -- | -- | 6 | |
| Total | 17 | 06 | 14 | 20 |

IV Year B. Tech., I Semester

| Subject Code | Subject Name | Hours / Week | | | C |
|--------------|---|--------------|-----------|-----------|-----------|
| | | L | T | P | |
| | Design and Drawing of Reinforced concrete | 3 | 1 | 0 | 3 |
| | Design of steel structures | 3 | 1 | 0 | 3 |
| | Construction Engineering & Project Management | 3 | 1 | 0 | 2 |
| | Professional Elective-IV | 3 | 1 | 0 | 2 |
| | Transportation Engineering-II | | | | |
| | Sustainable engineering & technology | | | | |
| | Transportation economics | 3 | 1 | 0 | 2 |
| | Professional Elective-V | | | | |
| | Advanced Reinforced Concrete Design | | | | |
| | Urban Hydrology & Hydraulics | | | | |
| | Earth quake engineering | 2 | 1 | -- | 2 |
| | Open elective-III | -- | -- | 3 | 1.5 |
| | STAAD lab-I | -- | -- | 2 | 1.5 |
| | Structural Analysis and Design Lab- E-TABS | -- | -- | 3 | 1.0 |
| | Transportation Engineering Lab | -- | -- | 6 | 6 |
| | Project Phase-1(Mini Project/Internship) | -- | -- | 6 | 6 |
| | Total | 17 | 06 | 14 | 24 |

IV Year B. Tech., II Semester

| Subject Code | Subject Name | Hours / Week | | | C |
|--------------|---|--------------|-----------|----------|-----------|
| | | L | T | P | |
| | Bridge Engineering | 3 | 1 | 0 | 3 |
| | Design of hydraulic structures/Irrigation engineering | 3 | 1 | 0 | 3 |
| | Professional Elective-VI | 3 | 1 | 0 | 2 |
| | Remote sensing and GIS | | | | |
| | Advanced structural analysis | | | | |
| | Prestressed concrete | | | | |
| | Open elective-IV | 2 | 1 | -- | 2 |
| | Project Work-Phase 2 | -- | -- | 6 | 6 |
| | Total | 11 | 04 | 6 | 16 |

Note: L - Lecture; T-Tutorial; P - Practical; C - Credits