# VALLURUPALLI NAGESWARA RAO VIGNANA JYOTHI
INSTITUTE OF ENGINEERING AND TECHNOLOGY

An Autonomous Institute, Accredited by NAAC with 'A' Grade
NBA Accreditation for B.Tech. CE, EEE, ME, ECE, CSE, EIE, IT Programmes
Approved by AICTE, New Delhi, Affiliated to JNTUH
Recognized as "College with Potential for Excellence" by UGC
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MINUTES OF THE MEETING OF 10TH ACADEMIC COUNCIL (AC) HELD ON JULY 14TH, 2018 AT 10.30A.M. ONWARDS IN THE BOARD ROOM OF PATRON'S BHAVAN AT VNRVJIET, BACHUPALLY, HYDERABAD:
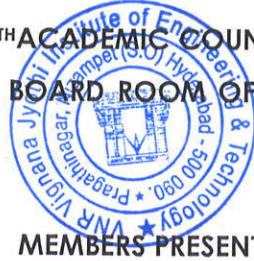
MEMBERS PRESENT

1) Dr. C. D. Naidu, Principal & Chairman
2) Dr. B. Chennakesava Rao, Director for Advancement and Dean, Admin
3) Dr. A. Mallika, HOD/CE, Member
4) Dr. Poonam Upadhyay, HOD/EEE & IQAC Coordinator, Member
5) Dr. M.V.R. Durga Prasad, HOD/ME, Member
6) Dr. Y. Padma Sai, HOD/ECE, Member
7) Mrs. B. V. Kiranmayee, HOD/CSE, Member
8) Dr. R. Manjula Sri, HOD/EIE, Member
9) Dr. G. Suresh Reddy, HOD/IT, Member
10) Dr. T. Srinivasa Rao, HOD/AE, Member
11) Dr. T. Jayashree, HOD/H&S, Member
12) Dr. G. Ramesh Chandra, Head RCC, Member
13) Dr. K. Ramujee, Dean Examinations & Evaluation, Member
14) Dr. B. Narendra Kumar, Dy. Dean, Admin and Finance, Member
15) Dr. B. V. Sanker Ram, Nominee of the University, JNTUH, Member
16) Dr. K. Vijay Kumar Reddy, Nominee of the University, JNTUH, Member
17) Sri. B. V. Krishna Rao K., Former Secretary, SBTET, Member
18) Dr. Y. Shivraj Narayan, Coordinator, Academics, Member
19) Dr. K. Anuradha, Dean, Academics & Member Secretary

MEMBERS ON LEAVE

1) Dr. A. S. Rao, Dean Innovation, Incubation, Entrepreneurship & Globalization, Member
2) Dr. G. Satheesh Reddy, Expert from Industry/R&D/Engg./Education, Member

3) Dr. P. Subba Rao, Expert from Industry/R&D/Engg./Education, Member
4) Dr. A. K. Pujari, Expert from Industry/R&D/Engg./Education, Member
5) Dr. N. V. Uma Mahesh, Expert from Industry/R&D/Engg./Education, Member
6) Dr. E. Sai Baba Reddy, Nominee of the University, JNTUH, Member
7) Dr. S. Venkateswara Rai, Expert from Education, Member

Chairman welcomed the members to the 10th meeting of Academic Council on July 14th, 2018. Curriculum is drafted based on the AICTE model curriculum under Choice Based Credit system. Chairman apprised the members regarding the salient points proposed in the R18 curriculum:

- Total number of credits in B.Tech. programmes are fixed as 160 whereas in M.Tech. programmes as 68.
- Common curriculum in I year of B.Tech. programmes.

Thereafter, formal agenda items were taken up and the following matters were considered, deliberated upon and decisions taken are as under:

➢ **Approval of course structure of B.Tech. and M.Tech. programmes to be offered under Choice Based Credit System (CBCS) from the academic year 2018-19.**
   - B.Tech. course structures of the following programmes to be offered under Choice Based Credit System (CBCS) from the academic year 2018-19 were presented before the committee.
      ✓ B.Tech. (Civil Engineering)
      ✓ B.Tech. (Electrical & Electronics Engineering)
      ✓ B.Tech. (Mechanical Engineering)
      ✓ B.Tech. (Electronics & Communication Engineering)
      ✓ B.Tech. (Computer Science & Engineering)
      ✓ B.Tech. (Electronics & Instrumentation Engineering)
      ✓ B.Tech. (Information Technology)
      ✓ B.Tech. (Automobile Engineering)
   - Committee approved the course structures of the B.Tech. programmes under CBCS with the following recommendations:
      ▪ Include Engineering Mechanics course in I year curriculum of B.Tech. Civil Engineering, Mechanical Engineering and Automobile Engineering programmes.
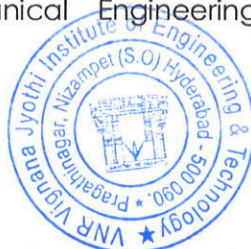
- Shorten the titles of mathematics courses
- Title of Problem Solving through Programming in C may be changed to Programming through C and Problem Solving through Programming in C Laboratory to Programming through C Laboratory
- Design Sensitization may be moved to II year
- Include a theory course on Data Structures in II year curriculum of B.Tech. Mechanical Engineering and Automobile Engineering programmes.
- Reduce the number of open electives to 3.
- Form stream-wise group of courses in professional elective courses
- Number of textbooks to be limited to 01 or 02 however references can be more.

- M.Tech. course structures of the following programmes to be offered under Choice Based Credit System (CBCS) from the academic year 2018-19 were presented before the committee.
  - ✓ M.Tech. (Structural Engineering)
  - ✓ M.Tech. (Geotechnical Engineering)
  - ✓ M.Tech. (Highway Engineering)
  - ✓ M.Tech. (Power Electronics)
  - ✓ M.Tech. (Power Systems)
  - ✓ M.Tech. (Advanced Manufacturing Systems)
  - ✓ M.Tech. (CAD/CAM)
  - ✓ M.Tech. (Embedded Systems)
  - ✓ M.Tech. (VLSI System Design)
  - ✓ M.Tech. (Electronics & Instrumentation)
  - ✓ M.Tech. (Software Engineering)
  - ✓ M.Tech. (Computer Science & Engineering)
  - ✓ M.Tech. (Computer Networks and Information Security)

- Committee approved the course structures of M.Tech. programmes under CBCS with the following recommendations:
  - Increase the number of professional core courses in I and II semester from 02 to 03
  - Reduce the credits of laboratory courses in I and II semester from 2 to 1.5
  - Introduce a course on 'Technical Seminar' in I semester with 2 credits

- 'Research Methodology and Intellectual Property Rights' shall be the audit (non-credit) course in I semester
- Introduce a course on 'Mini-project' in II semester with 2 credits
- 'English for Academic and Research Writing' shall be the audit (non-credit) course in II semester
- Incorporate common open elective basket for all the M.Tech. programmes
- Reduce the number of credits of 'Dissertation Phase–I' in III semester to 08.

➤ **Approval of detailed syllabi of I B.Tech. courses and I & II M.Tech. courses to be offered from the academic year 2018-19.**

- Detailed syllabi of courses offered in B.Tech. I year and M.Tech. I and II year programmes were presented before the committee for approval.
- Members welcomed the introduction of design sensitization and design thinking courses in the B.Tech. curriculum. However, they suggested to introduce 'Design Sensitization' course in II year rather than I year. Dean, Academics briefed about the introduction of design courses at various levels in the B.Tech. curriculum.

  Level-I: Design Sensitization course deals with generic approach hence introduced at I year level

  Level-II: Design Thinking course deals with engineered approach hence introduced at III year level

- Members suggested moderating the content proposed in the various courses by keeping in mind the student input and the time required to complete it.
- Committee approved the syllabi of courses offered in B.Tech. I year and M.Tech. I and II year programmes.

➤ **Approval of 'Academic Rules and Regulations' (R18) under Choice Based Credit System (CBCS) for the batches to be admitted from the academic year 2018-19.**

- VNRVJIET R18 Academic Rules and Regulations under Choice Based Credit System (CBCS) was presented before the committee for approval.
- R18 Academic Rules and Regulations for B.Tech. and M.Tech. programmes were approved with the following recommendations:
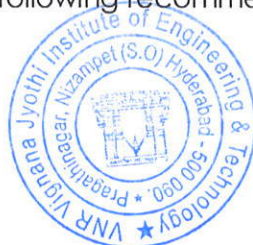
- The total number of credits for B.Tech. programmes is fixed at 160 whereas for M.Tech. programmes it is 68
- The evaluation procedure shall be 40 marks for Continuous Internal Evaluation (CIE) and 60 marks for Semester End Examination (SEE) for both B.Tech. and M.Tech. programmes
- Continuous Internal Evaluation (CIE) in B.Tech. and M.Tech. programmes shall consist of Sessional Examination (SE - 30 M) and Class Assessment (CA - 10 M).

❖ **B.Tech. Sessional Examination (SE - 30 M):**
- For theory courses, two sessional examinations shall be conducted in each semester as per the academic calendar. Each sessional examination shall be evaluated for 30 marks.
- Question paper pattern for sessional examination (30 Marks) shall be as follows:

  PART-A: 3 X 2 M = 6 M
- There shall be one question from each unit.
- All questions are compulsory.

  PART-B: 3 X 8 M = 24 M
- There shall be one question from each unit with internal choice i.e., 'either' 'or' choice.
- The student has to answer one question from each unit.
- There could be a maximum of two sub divisions in a question i.e., (a) and/or (b).
- Average of two SEs shall be calculated and used as the final sessional marks for each course.

❖ **B.Tech. Class Assessment (CA - 10 M):**
- Two class assessments consisting of any one of the alternative assessment tools (AAT) like online quiz / assignment/objective exam/ course project/ case study etc. shall be conducted covering the syllabus that is completed at the time of conducting the CA and evaluated for 10 marks each.

- The first and second CAs shall be conducted during the instruction days as mentioned in the Academic Calendar.
- The average of two CAs shall be calculated and used as the final class assessment marks.
- The valuation and verification of answer scripts of CIE shall be completed within a week after the conduct of the examination.

❖ **B.Tech. Semester End Examination (SEE - 60 M):**

- The SEE shall be conducted at the end of semester for a total of **60 marks** of **3 hours** duration.
- The syllabus for the theory courses shall be divided into SIX units and each unit carries equal weightage in terms of marks distribution.
- Question paper pattern for SEE (60 Marks) shall be as follows:

PART-A: 6 X 2 M = 12 M

- There shall be one question from each unit.
- All questions are compulsory.

PART-B: 6 X 8 M = 48 M

- There shall be 01 question from each unit with internal choice i.e., 'either' 'or' choice.
- The student has to answer one question from each UNIT.
- There could be a maximum of two sub divisions in a question i.e., (a) and/or (b).

❖ **M.Tech. Sessional Examination (SE - 30 M):**

- For theory courses, two sessional examinations shall be conducted in each semester as per the academic calendar. Each sessional examination shall be evaluated for 30 marks.
- Question paper pattern for sessional examination (30 Marks) shall be as follows:

3 X 10 M = 30 M

- There shall be one question from each unit with internal choice i.e., 'either' 'or' choice.
- The student has to answer one question from each unit.
- There could be a maximum of two sub divisions in a question i.e., (a) and/or (b).
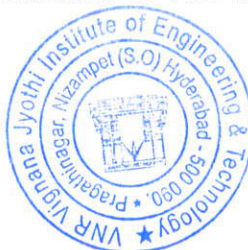
- Average of two SEs shall be calculated and used as the final sessional marks for each course.

❖ **M.Tech. Class Assessment (CA - 10 M):**

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- The syllabus for the theory courses shall be divided into SIX units and each unit carries equal weightage in terms of marks distribution.

- Question paper pattern for SEE (60 Marks) shall be as follows:

  6 X 10 M = 60 M

- There shall be 01 question from each unit with internal choice i.e., 'either' 'or' choice.

- The student has to answer one question from each UNIT.

- There could be a maximum of two sub divisions in a question i.e., (a) and/or (b).

- A student shall be deemed to have satisfied the minimum academic requirements and earn the credits for each theory or practical or design or drawing course in B.Tech. programme, if he secures

  - A **minimum of 35% marks** for each theory course in the **semester end examination (SEE)**, and

  - A **minimum of 40% marks** for each theory course considering **both CIE and SEE** taken together.
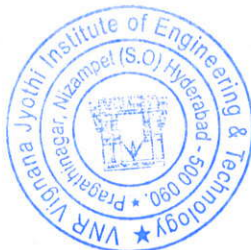
- A student shall be deemed to have satisfied the minimum academic requirements and earn the credits for each theory or practical or design or drawing course in M.Tech. programme, if he secures
  - A **minimum of 40% marks** for each theory course in the **semester end examination (SEE)**, and
  - A **minimum of 50% marks** for each theory course considering **both CIE and SEE** taken together.
- A student shall be treated as **failed**, if he
  - **does not submit a report** on internship, mini-project, project, design related courses, or
  - **does not make a presentation** of the same before the evaluation committee as per the schedule, or
  - **secures less than 50%marks** in evaluation.

- For B.Tech. programmes, the following promotion rules are applicable.

Promotion	Conditions to be fulfilled
First semester to second semester	Regular course of study of first semester
Second semester to third semester	Regular course of study of second semester and atleast 40 % of the total credits up to second semester
Third semester to fourth semester	Regular course of study of third semester
Fourth semester to fifth semester	Regular course of study of second semester and atleast 50 % of the total credits up to fourth semester
Fifth semester to sixth semester	Regular course of study of fifth semester
Sixth semester to seventh semester	Regular course of study of second semester and atleast 60 % of the total credits up to sixth semester
Seventh semester to eight semester	Regular course of study of seventh semester
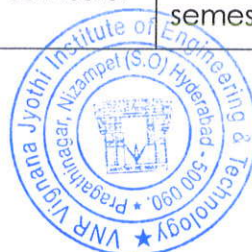
➢ **Approval of Certificate Courses to be offered during the academic year 2018-19.**

- List of certificate courses to be offered by the various departments during the academic year 2018-19 was presented before the committee and approved.

The meeting concluded with vote of thanks to the Chair.

Dr. C.D. Naidu

Chairman-AC &

Principal

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To

All the Members.