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VALLURUPALLI NAGESWARA RAO VIGNANA JYOTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

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NBA Accreditation for B.Tech. CE, EEE, ME, ECE, CSE, EIE, IT, AE Programmes and
M.Tech. STRE, PE, AMS, SWE Programmes
Approved by AICTE, New Delhi, Affiliated to JNTU, Hyderabad, NIRF 113th Rank in Engineering Category
Recognized as "College of Excellence" by UGC
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MINUTES OF THE MEETING OF 16TH ACADEMIC COUNCIL (AC) HELD ON NOVEMBER 22ND, 2022 AT 02.30 P.M. ONWARDS IN THE BOARD ROOM OF PATRON'S BHAVAN AT VNRVJIE, 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, Member
- 5) Dr. B. Satyanarayana, Vice Principal, Polytechnic & HOD/ME, Member
- 6) Dr. S. Rajendra Prasad, HOD/ECE, Member
- 7) Dr. S. Nagini, HOD/CSE, CSBS, Member
- 8) Dr. N. Sandhya, HOD/CSE (AI&ML, IOT), Member
- 9) Dr. M. Rajasekhar, HOD/CSE (DS, CYS), AI&DS, Member
- 10) Dr. R. Manjula Sri, HOD/EIE, Member
- 11) Dr. D. Srinivasa Rao, HOD/IT, Member
- 12) Dr. T. Srinivasa Rao, HOD/AE, Member
- 13) Dr. T. Jayashree, HOD/H&S, Member
- 14) Dr. D. Pardhasaradhi, Head, Training & Placement
- 15) Dr. G. Ramesh Chandra, Head RCC, Member
- 16) Dr. K. Ramujee, Dean Examinations & Evaluation, Member
- 17) Dr. Y. Padma Sai, Dean Student Progression, Member
- 18) Dr. B. Narendra Kumar, Professor of CE, Member
- 19) Mrs. Y. Bhanusree, Asst. Prof., CSE, & Coordinator, IQAC and Academic Audit Cell,
Member
- 20) Dr. A. Vasan, Expert from Industry/R&D/Engg./Education, Member
- 21) Dr. Venu Gopal A., Expert from Industry/R&D/Engg./Education, Member
- 22) Dr. M. Manzoor Hussain, Nominee of the University, JNTUH, Member
- 23) Dr. D. Srinivasa Rao, Nominee of the University, JNTUH, Member
- 24) Dr. K. Manjula Vani, Nominee of the University, JNTUH, Member
- 25) Dr. Y. Shivraj Narayan, Coordinator, Academics, Member
- 26) Dr. K. Anuradha, Dean, Academics & Member Secretary

MEMBERS ON LEAVE

- 27) Dr. A. Subhananda Rao, Director, R&D
- 28) Dr. M. Rama Manohara Babu, Expert from Industry/ R&D/Engg./Education,
Member
- 29) Dr. P. Subba Rao, Expert from Industry/R&D/Engg./Education, Member
- 30) Dr. S. Venkateswara Rao, Expert from Education, Member

31) Sri. B. V. Krishna Rao K., Former Secretary, SBTET, Member

Chairman welcomed all the members to the 16th meeting of Academic Council held on November 22nd, 2022 at VNRVJiet. Chairman apprised the members regarding the implementation of National Education Policy (NEP) 2020 directives under the proposed R22 curriculum and academic regulations. Thereafter, formal agenda items were taken up and the following matters were considered, deliberated and decisions taken are as under:



16.1 Course structure and detailed syllabi of B.Tech. I year programs under B.Tech. CBCS R22 Academic Regulations for the batches admitted from the academic year 2022-2023 onwards

- B.Tech. four year course structures and detailed syllabi of the following B.Tech. I year programmes to be offered under B.Tech. Choice Based Credit System R22 academic regulations for the batches admitted from the academic year 2022-2023 onwards 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)
 - ✓ B.Tech. (Computer Science & Business Systems)
 - ✓ B.Tech. CSE (Artificial Intelligence and Machine Learning)
 - ✓ B.Tech. CSE (Internet of Things)
 - ✓ B.Tech. CSE (Data Science)
 - ✓ B.Tech. CSE (Cyber Security)
 - ✓ B.Tech. Artificial Intelligence and Data Science
- Council approved the course structures and detailed syllabi of the aforementioned B.Tech. I year programmes under B.Tech. CBCS R22 academic regulations as indicated in **Annexure-I**.

16.2 Course structure and detailed syllabi of M.Tech. I and II year programs under M.Tech. CBCS R22 Academic Regulations for the batches admitted from the academic year 2022-2023 onwards

- M.Tech. two year course structures and detailed syllabi of the following M.Tech. I and II year programmes to be offered under M.Tech. Choice Based Credit System R22 academic regulations for the batches admitted from the academic year 2022-2023 onwards were presented before the committee.
 - ✓ M.Tech. (Structural Engineering)
 - ✓ M.Tech. (Highway Engineering)
 - ✓ M.Tech. (Geotechnical 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. (Software Engineering)
 - ✓ M.Tech. (Computer Science and Engineering)
 - ✓ M.Tech. (Electronics and Instrumentation)
 - ✓ M.Tech. (Computer Networks and Information Security)
- Council approved the course structures and detailed syllabi of the aforementioned M.Tech. I and II year programmes under M.Tech. CBCS R22 academic regulations as indicated in **Annexure-II**.

16.3 B.Tech. CBCS R22 Academic Rules and Regulations for B.Tech. student batches admitted from the academic year 2022-2023 onwards

- VNRVJET B.Tech. R22 CBCS Academic Rules and Regulations based on JNTU Hyderabad B.Tech. R22 Academic Rules and Regulations and directives of National Education Policy (NEP) 2020 was presented before the council for approval.
- Council approved the 'VNRVJET B.Tech. R22 Academic Rules and Regulations' [**Annexure-III**] for the student batches to be admitted from the academic year 2022-2023. Following are some of the highlights of the academic regulation:
 - The **total number of credits** for **B.Tech.** programmes is fixed at **160**.
 - The performance of a student in each semester shall be evaluated course wise with a **maximum** of **100 marks** for **theory and practical courses**. Skill based courses on **Elements of Civil Engineering / Electrical & Electronics Engineering / Mechanical Engineering/Electronics & Communication Engineering / Computer Science & Engineering / Electronics & Instrumentation Engineering / Automobile Engineering** and II year course on **Field Project/Skills** shall be evaluated for **50 marks**. In addition, design sensitization, design thinking, internship, industry oriented mini-project, project stage-I and project stage-II courses shall be evaluated for **100 marks** each.
 - The evaluation procedure shall be **40 marks** for **Continuous Internal Evaluation (CIE)** and **60 marks** for **Semester End Examination (SEE)** for all the B.Tech. programmes.
 - **Continuous Internal Evaluation (CIE)** in **Theory** courses of B.Tech. programmes shall consist of Sessional Examination (**SE - 30 M**), Class Assessment (**CA - 05 M**) and Experiential Learning Assessment (**ELA - 05 M**).

❖ **Theory Courses: 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: 5 X 2 M = 10 M

- ✓ All questions are **compulsory**.
- ✓ 2 questions from Unit-I and Unit-II each and 1 question from first half of Unit-III in First sessional examination (SE-I)
- ✓ 1 question from second half of Unit-III and 2 questions from Unit-IV and Unit-V each in Second sessional examination (SE-II)

PART-B: 20 M

- ✓ There shall be a total of **06 questions**.
- ✓ There shall be **two questions** from **each UNIT** with **internal choice** i.e., **'either' 'or'** choice.

Q.1 OR Q.2 **8 Marks**

Q.3 OR Q.4 **8 Marks**

Q.5 OR Q.6 **4 Marks**

- ✓ Student shall **answer one question** from **each UNIT**.

- First sessional examination (SE-I) shall be conducted on Unit-I, Unit-II and first half of the Unit-III.
- Second sessional examination (SE-II) shall be conducted on second half of the Unit-III, Unit-IV and Unit-V.
- **Average of two SEs** shall be calculated and used as the final sessional marks for each course.

❖ **Theory Courses: Class Assessment (CA - 05 M):**

- **Two class assessments** consisting of **any one** of the alternative assessment tools (AAT) like **online quiz / assignment / objective exam etc.** shall be conducted covering the syllabus that is completed at the time of conducting the CA and evaluated for **05 marks** each.
- The first and second CAs shall be conducted during the instruction days as per the academic calendar.
- **Average of two CAs** shall be calculated and used as the final class assessment marks.

❖ **Theory Courses: Experiential Learning Assessment (ELA - 05 M):**

- **Course Project / course viva-voce / poster presentation / case study** in the concerned course shall be conducted before **Sessional Examination-I (SE-I) and Sessional Examination-II (SE-II)** and evaluated for **05 marks**.
- **Average of two ELAs** shall be calculated and used as the final sessional marks for each course.

❖ **Theory Courses: 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 **FIVE 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: 5 X 2 M = 10 M

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

PART-B: 5 X 10 M = 50 M

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

❖ **Practical Courses: Continuous Internal Evaluation (CIE - 40 M):**

- For **Practical** courses, there shall be a **continuous internal evaluation (CIE)** during the semester for **40 marks** and **60 marks** for **semester end examination (SEE)**.
- Out of the 40 marks allocated to CIE, **10 marks** shall be for **day-to-day work** in the laboratory, **10 marks** for the **internal practical examination** to be conducted at the end of semester, **10 marks** for **laboratory record** and **10 marks** for **course project which consists of Design or Software / Hardware Model presentation or App Development or Prototype development etc.** which shall be evaluated after completion of laboratory course.

❖ **Practical Courses: Semester End Examination (SEE - 60 M):**

- **SEE** shall be conducted at the end of semester for a total of **60 marks**.
- The time duration of the SEE shall be **3 hours**.
- Out of the 60 marks allocated to SEE, **10 marks** shall be for **initial procedures & diagrams**, **15 marks** for **conduct of experiment & collection of data**, **15 marks** for **analysis of data / results / graphs etc.**, **10 marks** for **course project report** and **10 marks** for **viva-voce** on concerned laboratory course

❖ **B.Tech. Minimum Academic Requirements:**

- A student shall be deemed to have satisfied the minimum academic requirements and earned the credits for each **theory, practical, design and drawing** course in B.Tech. programme, if student secures
 - ✓ A **minimum of 35% marks (14 marks out of 40 marks)** for each course in the **continuous internal evaluation (CIE)**

- ✓ A **minimum of 35% marks (21 marks out of 60 marks)** for each course in the **semester end examination (SEE)**, and
- ✓ A **minimum of 40% marks (40 marks out of 100 marks)** for each course considering **both CIE and SEE** taken together.
- ✓ In terms of letter grades, a '**C**' grade and above in that course.
- A student shall be deemed to have satisfied the minimum academic requirements and earned the credits allotted to I year-Elements of CE/EEE/ME/ECE/CSE/EIE/IT/AE courses and II year-Field Project courses, if student secures
 - ✓ A **minimum of 40% of total marks (20 marks out of 50 marks)** in CIE
- A student shall be treated as **failed**, if he
 - ✓ **remains absent** during the schedule in **I year-Elements.... and II year-Field Project courses, OR**
 - ✓ **secures less than 40% marks (20 marks out of 50 marks)** in **I year – Elements ... and II year - Field project courses, OR**
 - ✓ **does not submit a report** in **II year - Field project courses OR**
 - ✓ **does not make a presentation** of the same before the evaluation committee as per the schedule in **II year - Field project courses**
- A student shall be deemed to have satisfied the minimum academic requirements and earned the credits allotted to **Internship/Industry oriented mini-project, Project, Design thinking** courses, if student secures
 - ✓ A **minimum of 40% of total marks (40 marks out of 100 marks)** in each of the Internship/Industry oriented mini-project, Project and Design thinking courses
- A student shall be treated as **failed**, if he
 - ✓ **does not submit a report** in Internship, Industry oriented mini-project, **OR**
 - ✓ **does not make a presentation** of the same before the evaluation committee as per the schedule, **OR**
 - ✓ **secures less than 40% marks (40 marks out of 100 marks)** in overall evaluation in Internship/Industry oriented mini project.
 - ✓ In case of a student not meeting any of the above points, student may re-appear once for each of the evaluation of Field project, Internship, Industry oriented mini-project, as scheduled by the evaluation committee; if the student fails in such 'one re-appearance' evaluation also, student has to re-appear for the same in the next subsequent semester, as and when it is scheduled.
- In order to successfully complete the B.Tech. degree programme, a student shall

- **register** for all the courses covering **160 credits** as specified and listed in the course structure of the B.Tech. programme,
- fulfils all the attendance and academic requirements for **160** credits,
- **'earn all 160 credits'** by **securing SGPA \geq 5.0** (in each semester) and **CGPA \geq 5.0** (at the end of each successive semester)

- **passes all the mandatory courses**

❖ **B.Tech. Promotion Rules:**

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

S. No.	Promotion	Conditions to be fulfilled
1	I semester (I year I semester) to II semester (I year II semester)	i. Regular course of study of I semester (I year I semester)
2	II semester (I year II semester) to III semester (II year I semester)	i. Regular course of study of II semester (I year II semester). ii. Must have secured atleast 50 % of the total credits upto II semester (I year II semester) i.e., 20 credits out of 40 credits of the respective programme from all the relevant regular and supplementary examinations, whether the student takes those examinations or not.
3.	III semester (II year I semester) to IV semester (II year I semester)	i. Regular course of study of III semester (II year I semester).
4	IV semester (II year II semester) to V semester (III year I semester)	i. Regular course of study of IV semester (II year II semester). ii. Must have secured atleast 60% of the total credits upto IV semester (II year II semester) i.e., 48 credits out of 80 credits of the respective programme from all the relevant regular and supplementary examinations, whether the student takes those examinations or not.
5	V semester (III year I semester) to VI semester (III year II semester)	i. Regular course of study of V semester (III year I semester).

6	VI semester (III year semester) to VII semester (IV year I semester)	i. Regular course of study of VI semester (III year II semester). ii. Must have secured atleast 60% of the total credits upto VI semester (III year II semester) i.e., 72 credits out of 120 credits of the respective programme from all the relevant regular and supplementary examinations, whether the student takes those examinations or not.
7	VII semester (IV year semester) to VIII semester (IV year II semester)	i. Regular course of study of VII semester (IV year I semester)

❖ **Award of Degree:**

◆ **Award of B.Tech. Degree:**

- A student shall be declared qualified for the award of the B.Tech. degree in the concerned branch of Engineering allotted at the time of admission, if he/she fulfills the following academic rules:
 - ✓ Pursued **a programme of study for not less than four academic years and not more than eight academic years** from the date of commencement of the first academic year.
 - ✓ Registered for **160 credits** and secured a minimum of **160 credits with CGPA ≥ 5.0**.

◆ **Re-joining B.Tech. Degree after break:**

- A student may be permitted to take **one year break** while pursuing four-year B.Tech. regular degree programme i.e., **either after completion of B.Tech. IV semester (B.Tech. II year II semester) or B.Tech. VI semester (B.Tech. III year II semester)**.

◆ **Award of Two-Year B.Tech. Diploma Certificate:**

- A student **willing to exit four-year B.Tech.** regular degree program shall be **awarded two-year B.Tech. Diploma Certificate** in the concerned branch of engineering allotted at the time of admission, if he fulfills the following conditions:
 - ✓ **completes all the minimum academic requirements upto B.Tech. IV semester (B.Tech. II year II semester)** and
 - ✓ **earns all the 80 credits upto B.Tech. IV semester (B.Tech. II year II semester) within 4 years from the date of admission in B.Tech. I year.**

- ◆ **Award of B.Tech. Honors Degree:**
 - A student shall be **awarded B.Tech. degree with Honors**, if he **secures additional 20 credits** (over and above 160 credits for the regular B.Tech. degree) in III year and IV year only with **atleast 7.5 CGPA for Honors** and **acquiring 160 credits successfully with atleast 7.5 CGPA for regular B.Tech. and passing all subjects in first attempt.**
- ◆ **Award of B.Tech. Minor Degree:**
 - A student shall be **awarded B.Tech. Minor degree in a specified programme** if he **secures additional 18 credits** (over and above 160 credits for the regular B.Tech. Degree) during III year and IV year only.

16.4 M.Tech. CBCS R22 Academic Rules and Regulations for M.Tech. student batches admitted from the academic year 2022-2023 onwards

- VNRVJIET M.Tech. R22 CBCS Academic Rules and Regulations based on JNTU Hyderabad M.Tech. R22 Academic Rules and Regulations and directives of National Education Policy (NEP) 2020 was presented before the council for approval.
- Council approved the 'VNRVJIET M.Tech. R22 Academic Rules and Regulations' [**Annexure-IV**] for the student batches to be admitted from the academic year 2022-2023. Following are some of the highlights of the academic regulation:
 - The **total number of credits** for **M.Tech.** programmes is fixed at **68**.
 - The performance of a student in each semester shall be evaluated course wise with a **maximum of 100 marks** for **theory and practical courses**. In addition, technical seminar, English for Academic and Research Writing, Industry Engagement, Mini-project and project stage-I and project stage-II courses shall be evaluated for **100 marks** each.
 - The evaluation procedure shall be **40 marks** for **Continuous Internal Evaluation (CIE)** and **60 marks** for **Semester End Examination (SEE)** for all the M.Tech. programmes.
 - **Continuous Internal Evaluation (CIE)** in **Theory** courses of M.Tech. programmes shall consist of Sessional Examination (**SE - 30 M**), Class Assessment (**CA - 05 M**) and Experiential Learning Assessment (**ELA - 05 M**).
- ❖ **Theory Courses: 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: 5 X 2 M = 10 M**
 - ✓ All questions are **compulsory**.

- ✓ 2 questions from Unit-I and Unit-II each and 1 question from first half of Unit-III in First sessional examination (SE-I)
- ✓ 1 question from second half of Unit-III and 2 questions from Unit-IV and Unit-V each in Second sessional examination (SE-II)

PART-B: 20 M

- ✓ There shall be a total of **06 questions**.
- ✓ There shall be **two questions** from **each UNIT** with **internal choice** i.e., **'either' 'or'** choice.

Q.1 OR Q.2 **8 Marks**

Q.3 OR Q.4 **8 Marks**

Q.5 OR Q.6 **4 Marks**

- ✓ Student shall **answer one question** from **each UNIT**.

- First sessional examination (SE-I) shall be conducted on Unit-I, Unit-II and first half of the Unit-III.
- Second sessional examination (SE-II) shall be conducted on second half of the Unit-III, Unit-IV and Unit-V.
- **Average of two SEs** shall be calculated and used as the final sessional marks for each course.

❖ **Theory Courses: Class Assessment (CA - 05 M):**

- **Two class assessments** consisting of **any one** of the alternative assessment tools (AAT) like **online quiz / assignment / objective exam etc.** shall be conducted covering the syllabus that is completed at the time of conducting the CA and evaluated for **05 marks** each.
- The first and second CAs shall be conducted during the instruction days as per the academic calendar.
- **Average of two CAs** shall be calculated and used as the final class assessment marks.

❖ **Theory Courses: Experiential Learning Assessment (ELA - 05 M):**

- **Course Project / course viva-voce / poster presentation / case study** in the concerned course shall be conducted before **Sessional Examination-I (SE-I) and Sessional Examination-II (SE-II)** and evaluated for **05 marks**.
- **Average of two ELAs** shall be calculated and used as the final sessional marks for each course.

❖ **Theory Courses: 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 **FIVE 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: 5 X 2 M = 10 M

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

PART-B: 5 X 10 M = 50 M

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

❖ **Practical Courses: Continuous Internal Evaluation (CIE - 40 M):**

- For **Practical** courses, including Communication Skills for Academic and Research Writing, there shall be a **continuous internal evaluation (CIE)** during the semester for **40 marks** and **60 marks** for **semester end examination (SEE)**.
- Out of the 40 marks allocated to CIE, **10 marks** shall be for **day-to-day work** in the laboratory, **10 marks** for the **internal practical examination** to be conducted at the end of semester, **10 marks** for **laboratory record** and **10 marks** for **course project which consists of Design or Software / Hardware Model presentation or App Development or Prototype development etc.** which shall be evaluated after completion of laboratory course.

❖ **Practical Courses: Semester End Examination (SEE - 60 M):**

- **SEE** shall be conducted at the end of semester for a total of **60 marks**.
- The time duration of the SEE shall be **3 hours**.
- Out of the 60 marks allocated to SEE, **10 marks** shall be for **initial procedures & diagrams**, **15 marks** for **conduct of experiment & collection of data**, **15 marks** for **analysis of data / results / graphs etc.**, **10 marks** for **course project report** and **10 marks** for **viva-voce** on concerned laboratory course

❖ **M.Tech. Minimum Academic Requirements:**

- A student shall be deemed to have satisfied the minimum academic requirements and earned the credits for each **theory/practical** course in B.Tech. programme, if student secures
 - ✓ A **minimum of 40% marks (16 marks out of 40 marks)** for each course in the **continuous internal evaluation (CIE)**
 - ✓ A **minimum of 40% marks (24 marks out of 60 marks)** for each course in the **semester end examination (SEE)**, and
 - ✓ A **minimum of 50% marks (50 marks out of 100 marks)** for each course considering **both CIE and SEE** taken together.
 - ✓ In terms of letter grades, a '**B**' grade and above in that course.
- A student shall be deemed to have satisfied the minimum academic requirements and earned the credits allotted to **Technical Seminar and**

Mini-project courses, if student secures

- ✓ A **minimum of 50% of total marks (50 marks out of 100 marks)** for technical seminar and mini-project courses in the **CIE and SEE** taken together
- A student shall be treated as **failed**, if he
 - ✓ **does not submit a report** on technical seminar and mini-project, **OR**
 - ✓ **does not make a presentation** of the same before the evaluation committee as per the schedule, **OR**
 - ✓ **secures less than 50% marks (50 marks out of 100 marks)** in overall evaluation
 - The failed student shall reappear for the above evaluation when the notification for supplementary examination is issued.
- In order to successfully complete the M.Tech. degree programme, a student shall
 - **register** for all the courses covering **68 credits** as specified and listed in the course structure of the M.Tech. programme,
 - **fulfills** all the **attendance** and **academic requirements** for **68 credits**,
 - **'earn all 68 credits'** by **securing SGPA ≥ 6.0** (in each semester) and **CGPA ≥ 6.0** (at the end of each successive semester)
 - **passes all the mandatory courses**

❖ **M.Tech. Minimum Academic Requirements:**

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

S. No.	Promotion	Conditions to be fulfilled
1	I semester (I year I semester) to II semester (I year II semester)	ii. Regular course of study of I semester (I year I semester) iii. Must have put-in minimum required attendance of 75% in at least 03 theory courses excluding mandatory audit courses
2	II semester (I year II semester) to III semester (II year I semester)	iii. Regular course of study of II semester (I year II semester). iv. Must have put-in minimum required attendance of 75% in at least 03 theory courses excluding mandatory audit courses

❖ **Award of Degree:**

◆ **Award of M.Tech. Degree:**

- A student shall be declared qualified for the award of the M.Tech. degree in the concerned branch of Engineering and Technology with the specialization allotted at the time of admission, if he/she fulfils the following academic rules:
 - ✓ Pursued **a programme of study for not less than two academic years and not more than four academic years** from the date of commencement of the first academic year.
 - ✓ Registered for **68 credits** and secured a minimum of **68 credits with CGPA \geq 6.0.**

16.5 Course structure and detailed syllabi of B.Tech. IV year courses of the following programs under B.Tech. CBCS R19 Academic Regulations

- **B.Tech. CSE (Artificial Intelligence and Machine Learning)**
- **B.Tech. CSE (Internet of Things)**
- **B.Tech. CSE (Data Science)**
- **B.Tech. CSE (Cyber Security)**
- Course structure and detailed syllabi of courses to be offered in the following B.Tech. IV year programmes under B.Tech. CBCS R19 academic regulation for the batches admitted from the academic year 2020-2021 were presented before the Council for approval:
 - ✓ B.Tech. - CSE (Data Science)
 - ✓ B.Tech. - CSE (Artificial Intelligence and Machine Learning)
 - ✓ B.Tech. - CSE (Cyber Security)
 - ✓ B.Tech. - CSE (Internet of Things)
- Council approved the course structure of B.Tech. IV year and detailed syllabi of courses to be offered in B.Tech. IV year of the above mentioned programme under B.Tech. CBCS R19 academic regulation for the batches admitted from the academic year 2020-2021 as indicated in the **Annexure-V**.

16.6 Course structure and detailed syllabi of B.Tech. III year courses of B.Tech. - Artificial Intelligence and Data Science program under B.Tech. CBCS A19 Academic Regulations

- Course structure and detailed syllabi of B.Tech. III year courses of B.Tech. - Artificial Intelligence and Data Science program under B.Tech. CBCS A19 academic regulation were presented before the council.
- Council approved the course structure of B.Tech. III year courses of B.Tech. - Artificial Intelligence and Data Science program under B.Tech. CBCS A19 academic regulation for the batches admitted from the academic year 2021-2022 as indicated in the **Annexure-VI**.

16.7 NPTEL-SWAYAM courses on offer as an option to Professional Elective courses of B.Tech. V semester (III year I semester) and B.Tech. VII semester (IV year I semester) under B.Tech. CBCS R19 Academic Regulations

- Following NPTEL-SWAYAM courses as an option to Professional Elective courses of B.Tech. V and VII semesters under B.Tech. CBCS R19 academic regulations was presented before the Council for approval.

B.Tech. Branch	Elective Group	Name of the equivalent MOOC to Professional Elective course	Duration	Strength
B.Tech. V Semester (R19)				
ECE	PE-I	Essential Mathematics for Machine Learning (IITR)	12 Weeks	05
CSE-AIML	PE-I	Cryptography and Network Security (IITKGP)	12 Weeks	06
B.Tech. VII Semester (R19)				
CE	PE-III	Foundation Engineering (IITKGP)	12 Weeks	04
	PE-IV	Remote Sensing and GIS (IITG)	8 Weeks	09
ECE	PE-III	Introduction to Machine Learning (IITM)	12 Weeks	22

- Council approved the list of equivalent NPTEL-SWAYAM courses offered and registered students of B.Tech. V and VII semesters in these courses under B.Tech. CBCS R19 academic regulations as indicated in **Annexure-VII**.

16.8 Detailed syllabus of IV year courses of B.Tech. Minor in Emerging Areas under B.Tech. R19 Academic Regulations

- Detailed syllabi of IV year courses of the following B.Tech. Minor programs in Emerging Areas under B.Tech. CBCS R19 Academic Regulations was presented before the council for approval.
 - B.Tech. Minor in Artificial Intelligence and Machine Learning
 - B.Tech. Minor in Internet of Things
 - B.Tech. Minor in Data Science
 - B.Tech. Minor in Cyber Security
- Council approved the detailed syllabi of IV year courses of the aforementioned B.Tech. Minor programs as given in **Annexure-VIII**.

16.9 Academic Calendars of B.Tech. and M.Tech. programs for the academic year 2022-2023

- Academic calendars of B.Tech. I, II, III and IV year programmes and M.Tech. I and II year programmes for the academic year 2022-2023 were presented before the council for approval.
- Council approved the academic calendars of B.Tech. I, II, III and IV year programmes and M.Tech. I and II year programmes for the academic year 2022-2023 as indicated in **Annexure-IX**.

16.10 Relaxation of promotion rules for B.Tech. students in the academic year 2021-2022 for promotion to the academic year 2022-2023

- In line with the JNTUH issued notification dated 17.10.2022 regarding relaxation of promotion rules for B.Tech. students in the academic year 2021-2022, the following was proposed before the Council:
 - Relaxation in credits i.e., securing a minimum of 25% of total credits for promotion to the next year of B.Tech. programmes in the academic year 2021-2022 only (for promoting to the academic year 2022-2023) as given in the table below.

Promotion from	Required Credits – Regular	Required Credits – Lateral Entry
I year to II year	10 credits out of 40	--
II year to III year	20 credits out of 80	10 credits out of 40
III year to IV year	30.5 ≈ 30 credits out of 122	20.5 ≈ 20 credits out of 82

- Council approved the relaxation of credits for promotion to the next year of B.Tech. programmes in the academic year 2021-2022 only.

16.11 Examination schedules and subject-wise registration details of students in the academic year 2022-2023

- Examination schedules and subject-wise student registration details (including NPTEL courses as an option to Professional Electives under Credit Transfer) of B.Tech. and M.Tech. programmes in the academic year 2022-2023 were presented before the council.
- Council approved the examination schedules and subject-wise student registration details of B.Tech. and M.Tech. programmes in the academic year 2022-2023 as given in **Annexures-X and XI**.

16.12 Application of grace marks to R18 2018 batch students passing out in the academic year 2021-2022

- With reference to the JNTUH letter dated 19.11.2022 regarding application of grace marks to 2018 batch B.Tech. students under R18 academic

regulations and who are passing out in the academic year 2021-2022, the following was presented before the Council for approval.

- Grace marks (0.5% of maximum marks) shall be applicable to B.Tech. R18 academic regulation students as given below.
 - ✓ 30 marks for B.Tech. 2018 admitted regular students
 - ✓ 20 marks for B.Tech. 2019 admitted lateral entry students
 - Above grace marks shall be applicable to the following students who shall be eligible to get the B.Tech. degree in the academic year 2021-2022 only.
 - ✓ B.Tech. 2018 admitted regular students
 - ✓ B.Tech. 2019 admitted lateral entry students
 - ✓ B.Tech. students admitted in previous R15 academic regulations (R15) and who completed the IV year in R18 academic regulations without subject exemption.
- Council approved the eligibility conditions and applicable grace marks to the B.Tech. students of R18 academic regulations who shall be graduating in the academic year 2021-2022 only.

16.13 One-time chance examination for B.Tech. and M.Tech. students who have completed double the duration of their course work as per JNTUH guidelines

- Dean Examinations proposed to conduct one-time chance semester end examinations for B.Tech. and M.Tech. students as given below who completed double the duration of the programme and who completed their course work and completed the stipulated number of attempts to clear their backlog subjects.
- Students of B.Tech. R12 and R13 academic regulations
 - Students of M.Tech. R12, R13 and R15 academic regulations
- Council approved conducting one-time chance examination for B.Tech. and M.Tech. students of academic regulations mentioned above and who completed double the duration of their programmes and course work.

16.14 Program Educational Objectives and Program Outcomes/Program Specific Outcomes of B.Tech. and M.Tech. Programs under B.Tech. CBCS R22 Academic Regulation

- Program Educational Objectives and Program Outcomes/Program Specific Outcomes of the following B.Tech. and M.Tech. programmes to be offered under B.Tech. Choice Based Credit System R22 academic regulations and M.Tech. Choice Based Credit System R22 academic regulations for the batches admitted from the academic year 2022-2023 onwards 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)
- ✓ B.Tech. (Computer Science & Business Systems)
- ✓ B.Tech. CSE(Artificial Intelligence and Machine Learning)
- ✓ B.Tech. CSE(Internet of Things)
- ✓ B.Tech. CSE(Data Science)
- ✓ B.Tech. CSE(Cyber Security)
- ✓ B.Tech. Artificial Intelligence and Data Science
- ✓ M.Tech. (Structural Engineering)
- ✓ M.Tech. (Highway Engineering)
- ✓ M.Tech. (Geotechnical 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. (Software Engineering)
- ✓ M.Tech. (Computer Science and Engineering)
- ✓ M.Tech. (Electronics and Instrumentation)
- ✓ M.Tech. (Computer Networks and Information Security)

- Council approved the Program Educational Objectives and Program Outcomes/Program Specific Outcomes of the abovementioned B.Tech. and M.Tech. programmes under B.Tech. CBCS R22 academic regulations and M.Tech. CBCS R22 academic regulations as listed in **Annexure-XII**.

16.15 Restoration of Pre-COVID norms, regular pattern of question paper and promotion guidelines of B.Tech. I, II, III & IV year and M.Tech. I & II year students from the academic year 2022-2023



- In line with the JNTUH issued letter dated 14.10.2022 regarding restoration of pre-COVID norms, regular pattern of question paper and promotion guidelines of B.Tech. and M.Tech. students from the academic year 2022-2023, the following was proposed before the council for approval.
 - Conduct classwork and other academic activities in offline mode
 - Restore Pre-COVID norms of minimum class work attendance
 - Follow regular question paper pattern as per the applicable academic regulations
- Council approved the above proposal from the academic year 2022-2023.

16.16 Certificate courses offered in the academic year 2022-2023

- List of certificate courses to be offered by the various departments in the academic year 2022-2023 was presented before the Council for approval.
- After deliberations, council approved the list of certificate courses as listed in **Annexure-XIII**.

The meeting concluded with vote of thanks to the Chair.

To
All the Members.


Dr. C.D. Naidu
Chairman-AC &
Principal
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