



**NADIMPALLI SATYANARAYANA RAJU  
INSTITUTE OF TECHNOLOGY  
(AUTONOMOUS)**



(Approved by AICTE, New Delhi & Affiliated to JNTUK, Kakinada & An ISO 9001, ISO 14001 & ISO 45001 Certified Institution)  
Recognized under 2(f) of the UGC Act 1956 & Accredited by NAAC with 'A' Grade (3.10/4.00)  
SONTYAM, Pondurthi - Anandapuram Highway, Visakhapatnam - 531173, Ph : 988524197, 8095484548, www.nsr.it.edu.in

Mode : Online | Platform: Zoom

Date : 17.09.2022 (Saturday)

Time : 03:00 PM

**MEMBERS PRESENT**

1. Dr. J. Raja Murugadoss, Director, NSRIT, Member
2. Dr. K. V. S. G. Murali Krishna, DAP, JNTUK, University Nominee
3. Dr. B. Bala Krishna, DoE, JNTUK, University Nominee
4. Prof. Ch. Srinivasa Rao, UCEV, JNTUK, University Nominee
5. Dr. C. L. V. R. S. V. Prasad, Principal, GMRIT
6. Sri. G. S. Raju, Director, GSY Technologies
7. Dr. P. Srinivasa Rao, Global Head, CYIENT
8. All Chairpersons of U. G. and P. G. programs
9. Dr. N. V. V. S. Suryanarayana, Coordinator (IQAC)
10. Dr. G. Kalyani, CoE
11. Mr. K. Shankar, Senior Faculty

**GRANT OF LEAVE OF ABSENCE:**

1. Dr. M. A. Khadar Baba, Chairman, Academic Council
2. Dr. Laxmi Pati Raju, Principal, MVGR, Academia
3. Dr. R. B. V. Subramanyam, Prof., NIT Warangal
4. Mr. G. Sarath Chandra, Alumni

Dr. J. Raja Murugadoss, Director and Member of the Academic Council welcomed all the members and confirmed the minutes of the 3<sup>rd</sup> academic council meeting along with the action taken report of the 3<sup>rd</sup> Academic Council held on February 26, 2022.

**ITEM NO. #3 - #9: Syllabi pertaining to the Semester VII and VIII, category II, III & IV of B. Tech. (Honors) and category II & III of B. Tech. (Minor with Specialization) of the existing ones for the students admitted across all the programs viz. Civil Engineering, CSE, CSE (Artificial Intelligence and Machine Learning), CSE (Data Science), Electronics and Communication Engineering, Electrical and Electronics Engineering and Mechanical Engineering from the Academic Year 2020 – 2021 onwards.**

The board of studies of all B. Tech. programs have proposed the syllabus pertaining to Semester VII and VIII, category II, III and IV of B. Tech. (Honors) and category II and III of Minor with Specialization under Academic Regulation 2020 and the Joint Board recommended for placing before Academic Council for its approval.

The Chairpersons of all BoS moved that the recommendations of the Joint Board as in Appendix I – VII be approved.

Resolved that the proposed syllabus of all programs B. Tech. as in Appendix I - VII be approved and these come into force for the students admitted from the academic year 2020 - 2021 onwards.

**ITEM NO. #10: Inclusion of few more trans-disciplinary courses under B. Tech. (Minor with Specialization) for the students admitted across all programs of study of B. Tech. from the Academic Year 2021 – 2022 onwards.**

The board of studies of all B. Tech. programs have proposed the syllabus of new courses pertaining to Minor with Specialization in **Statistics, Liberal Arts, General Management and Human Resource Management in addition to the earlier approved courses of B. Tech. (Minor with Specialization in core Engineering)** during the 3<sup>rd</sup> Academic Council Meeting held on February 26, 2022 under Academic Regulation 2020 and the Joint Board recommended for placing before Academic Council for its approval after having the formal approval through meeting from the respective board of studies of Management Studies and Science and Humanities. **Members appreciated the new initiative taken by the Institute as this is the first attempt and new initiative in Engineering Curriculum.**

Director, NSRIT moved that the recommendations of the Joint Board as in Appendix VIII be approved.

Resolved that the proposed syllabus of the B. Tech. (Minor with Specialization) in trans-disciplinary stream as cited above as in Appendix VIII **be approved based on the justifications as furnished below for having trans-disciplinary courses in Engineering Stream** and these come into force for the students admitted from the academic year 2021 - 2022 onwards.

#### **Necessity for Transdisciplinary Curriculum or STEAM Curriculum**

1. Integrating Arts into STEM education (STEAM) helps to enhance the creativity in the students; This is much a demanding skill in the product-based industries. Also, experiencing such curriculum during graduation help the students to work better with non-engineering stream in the industry and can participate with innovative ideas. That is why NEP 2020 has given greater emphasis for this
2. As it nurtures Creativity and Collaboration, it is essential in terms of 21<sup>st</sup> century skill set
3. A Engineering curriculum must have provisions for the engineering students to learn the non-engineering courses that sharpens the demanding skill set of industry, make them more employable with enhanced problem-solving skills with concern about environment, society and people and resource management.
4. LinkedIn report (2008) stated 58% of industry demands soft skills over hard skills  
<https://www.linkedin.com/business/learning/blog/top-skills-and-courses/the-skills-companies-need-most-in-2018-and-the-courses-to-get>
5. As per NEP 2020,
  - a. **Phasing out single-stream HEIs** in a phased manner and promoting multidisciplinary and cross disciplinary institutions of high quality is another highlight of NEP 2020. Hence, NSRIT would like to focus to enhance the quality of curriculum more on trans-disciplinary nature preparing the graduates for a holistic education for a better livelihood and professional career
  - b. **Focus on Learning Outcomes, Competencies and Subject Integration** i.e. No Silos among subjects / learning among curricular/non-curricular, academic/vocational, science/humanities and sports/art/academics
6. Statistics is the science of making inferences and decisions under uncertainty. It is increasingly relevant in the modern world due to the widespread availability of and access to unprecedented

amounts of data and computational resources in engineering sciences. Minors in Statistics focuses on providing students with a working knowledge base in statistics, probability, and computation, along with an ability to perform data analysis

7. In addition, Management and Managerial Skills is also very much essential for today's graduating engineer for an effective project management

**List of Colleges or Universities or IITs offering these Programs**

1. IIT Mandi in Political Thought
2. SRM, Andhra Pradesh in all areas of Arts, Science, Music, Journalism, Political Science
3. Institutions offering Minor in Statistics
  - a. IIT Mumbai
  - b. IIT Kanpur
  - c. Delhi University, Delhi
  - d. Mysore University, Karnataka
  - e. Asoka University, Haryana
  - f. Flames University, Bengaluru

**No. of Students above 7.5 CGPA in B. Tech. programs: 220 against 444**

**Availability of Resources:** For handling the above courses, the Institute has strong expertise in Science and Humanities as well as MBA program with adequate faculty.

**Approval requested for the List of Minor with Specialization in addition to the existing Minor with Specialization in core areas**

1. Liberal Arts
2. Statistics
3. General Management
4. Human Resource Management
5. Universal Human Values (UHV) Seeking approval through circulation as suggested

**No. of Students showing interest towards the above**

1. Liberal Arts : 90+
2. Statistics : 15+
3. Human Resources Management and General Management: 25+ each
4. UHV : 30+

**ITEM NO. #11:** Director, NSRIT presented the list of students of M. Tech. program in Thermal Engineering (03 against 06) as in Appendix IX, admitted during the Academic Year 2020 - 2021 who have successfully completed the degree M. Tech. in 2021 - 2022.

Any other Items: Nil

  
**CHAIRMAN (ACADEMIC COUNCIL) & PRINCIPAL**

Copy to: (a) All Members of the Academic Council  
(b) File

**Dr. J. Raja Murugadoss**

**Director**

**N.S. Raju Institute of Technology (A)**  
**Sontyam, Visakhapatnam-531173**