



# 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 JNTUH, NIRF 101-150 Rank Band in Engineering Category  
Recognized as "College with Potential for Excellence" by UGC

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## MINUTES OF THE MEETING OF 18<sup>TH</sup> ACADEMIC COUNCIL (AC) HELD ON MARCH 06<sup>TH</sup>, 2024 AT 10.30 A.M. ONWARDS IN THE PG BOARD ROOM OF PATRON'S BHAVAN AT VNRVJIET, PRAGATHI NAGAR, HYDERABAD

### MEMBERS PRESENT

- 1) Dr. C. D. Naidu, Principal & Chairman
- 2) Dr. B. Chennakesava Rao, Director for Advancement and Dean, Admin
- 3) Dr. A. Subhananda Rao, Director, R&D
- 4) Dr. A. Mallika, HOD/CE, Member and Chairman, BoS/CE
- 5) Dr. Poonam Upadhyay, HOD/EEE, Member and Chairman, BoS/EEE
- 6) Dr. B. Satyanarayana, HOD/ME, Member and Chairman, BoS/ME
- 7) Dr. S. Rajendra Prasad, HOD/ECE, Member and Chairman, BoS/ECE
- 8) Dr. S. Nagini, HOD/CSE, CSBS, Member and Chairman, BoS/CSE & CSBS
- 9) Dr. K. Vidyasagar, i/c HOD/EIE, Member and Chairman, BoS/EIE
- 10) Dr. D. Srinivasa Rao, HOD/IT, Member and Chairman, BoS/IT
- 11) Dr. T. Srinivasa Rao, HOD/AE, Member and Chairman, BoS/AE
- 12) Dr. N. Sandhya, HOD/CSE (AI&ML,IOT), Member and Chairman, BoS/CSE(AI&ML,IOT)
- 13) Dr. M. Rajasekhar, HOD/CSE (DS,CYS), AI&DS, Member and Chairman, BoS/CSE(DS,CYS)
- 14) Dr. T. Jayashree, HOD/H&S, Member
- 15) Dr. D. Pardhasaradhi, Head, Training & Placement, Member
- 16) Dr. G. Ramesh Chandra, Head RCC, Member
- 17) Dr. K. Ramujee, Dean, Examinations & Evaluation, Member
- 18) Dr. Y. Padma Sai, Dean, Student Progression, Member
- 19) Dr. B. Narendra Kumar, Professor/CE, Member
- 20) Sh. B. V. Paparao, Expert from Industry/ **R&D/Engg./Education**, Member
- 21) Dr. A. Vasana, Expert from Industry/R&D/Engg./**Education**, Member
- 22) Dr. Venu Gopal A., Expert from Industry/R&D/Engg./**Education**, Member
- 23) Dr. Arun Kumar Pujari, Expert from Industry/R&D/Engg./**Education**, Member
- 24) Mr. Vidyasagar MVV, Expert from **Industry**/R&D/Engg./Education, Member
- 25) Mr. Pravin Upadhyay, Expert from **Industry**/R&D/Engg./Education, Member
- 26) Sri. B. V. Krishna Rao K., Former Secretary, SBTET, Member
- 27) Dr. A. Aruna Kumari, Nominee of the University, JNTUH, Member
- 28) Dr. B. Sunitha, Nominee of the University, JNTUH, Member
- 29) Dr. V. Parvathi, Nominee of the University, JNTUH, Member
- 30) Dr. Y. Shivraj Narayan, Coordinator, Academics, Member
- 31) Dr. K. Anuradha, Dean, Academics & Member Secretary

## MEMBERS ON LEAVE

- 32) Dr. R. Manjula Sri, HOD/EIE, Member and Chairman, BoS/EIE  
33) Mrs. Y. Bhanusree, Asst. Prof./CSE, & Coordinator, IQAC and Academic Audit Cell, Member  
34) Dr. S. Venkateswara Rao, Expert from Education, Member

Dr. K. Anuradha, Dean, Academics welcomed the members to the 18<sup>th</sup> meeting of Academic Council held on March 06<sup>th</sup>, 2024 at VNRVJIET and requested the Chairman, Academic Council to preside over the meeting.

Dr. C.D. Naidu, Principal and Chairman, Academic Council, VNRVJIET initiated the proceedings of the 18<sup>th</sup> meeting of Academic Council by welcoming all the members and introducing the newly appointed JNTUH nominees as well as newly induced subject experts in the Academic Council. Thereafter, formal agenda items were taken up and the following matters were considered, deliberated and decisions taken are as under:

### **18.1 Confirmation of the minutes of 17<sup>th</sup> meeting of Academic Council held on May 27<sup>th</sup>, 2023**

- Minutes of 17<sup>th</sup> meeting of Academic Council held on May 27<sup>th</sup>, 2023 were presented by Dr. C.D. Naidu, Chairman, AC and the same were endorsed.
- Dr. K. Anuradha, Dean, Academics & Member Secretary apprised the council that actions have been taken for the agenda items of 17<sup>th</sup> Council meeting as per the suggestions provided by council members.

### **18.2 Action taken on the minutes of 17<sup>th</sup> meeting of Academic Council held on May 27<sup>th</sup>, 2023**

- A copy of the Action Taken Report against the minutes of 17<sup>th</sup> meeting of Academic Council held on May 27<sup>th</sup>, 2023 is enclosed for reference in **Annexure-I.**

### **18.3 Revision of course structure and detailed syllabi of B.Tech. III year Regular and Minor degree programs under B.Tech. CBCS R22 Academic Regulations for the batches admitted from the academic year 2022-2023 onwards**

- BoS approved B.Tech. four-year course structures and detailed syllabi of the following B.Tech. III year Regular and Minor degree 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 by the Chairman of the respective Board of Studies before the Council for approval.
  - ✓ 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
  - ✓ B.Tech. Minor (Artificial Intelligence and Machine Learning)
  - ✓ B.Tech. Minor (Cyber Security)
  - ✓ B.Tech. Minor (Data Science)
  - ✓ B.Tech. Minor (Internet of Things)
  - ✓ B.Tech. Minor (Innovation and Entrepreneurship)
- Council approved the revised course structures and detailed syllabi of the aforementioned B.Tech. III year Regular and Minor degree programmes under B.Tech. CBCS R22 academic regulations as indicated in **Annexure-II** along with the following suggestions.

➤ **B.Tech. Civil Engineering:**

Dr. A. Mallika, HoD and Chairman, BoS (Civil Engineering) presented the highlights of B.Tech. III year Civil Engineering curriculum under B.Tech. R22 academic regulations. Following suggestions were given by the Council members:

Dr. B. Sunitha, University Nominee, JNTU Hyderabad: To add a theory course on 'Geology'.

Mr. Pravin Upadhyay, Expert Member from Industry: To check for topics/course related to 'Pollution'.

➤ **B.Tech. Electrical and Electronics Engineering:**

Dr. Poonam Upadhyay, HoD and Chairman, BoS (Electrical & Electronics Engineering) presented the highlights of B.Tech. III year Electrical & Electronics Engineering curriculum under B.Tech. R22 academic regulations. Following suggestions were given by the Council members:

Dr. Vasan, Expert Member from BITS Hyderabad: To check for possibility of making on 'Artificial Intelligence' course as compulsory.

To update the textbooks with latest editions.

Dr. Arun Kumar Pujari, Expert Member from Mahindra University Hyderabad: To include applications in each unit of professional elective course on 'Soft Computing Techniques in Electrical Engineering'.

Mr. B. V. Papa Rao, Expert Member from ASL DRDO Hyderabad: To include details of ebooks in curriculum.

➤ **B.Tech. Mechanical Engineering:**

Dr. B. Satyanarayana, HoD and Chairman, BoS (Mechanical Engineering) presented the highlights of B.Tech. III year Mechanical Engineering curriculum under B.Tech. R22 academic regulations. Following suggestions were given by the Council members:

Dr. Venu Gopal, Expert Member from NIT Warangal: To check the credit balancing of courses.

➤ **B.Tech. Automobile Engineering:**

Dr. T. Srinivasa Rao, HoD and Chairman, BoS (Automobile Engineering) presented the highlights of B.Tech. III year Automobile Engineering curriculum under B.Tech. R22 academic regulations. Following suggestions were given by the Council members:

Dr. Venu Gopal, Expert Member from NIT Warangal: To reduce the content of 'CAE' course, Unit-III on CIM may be limited.

➤ **B.Tech. Electronics and Communication Engineering:**

Dr. S. Rajendra Prasad, HoD and Chairman, BoS (Electronics and Communication Engineering) presented the highlights of B.Tech. III year Electronics and Communications Engineering curriculum under B.Tech. R22 academic regulations. Following suggestions were given by the Council members:

Dr. Vasana, Expert Member from BITS Hyderabad: To check for the similarity in 'Artificial Intelligence and Machine Learning' (Professional Core) and 'Fundamentals of Machine Learning' (Professional Elective) courses.

To compress 3 courses on Mathematics to 2 and include a course on Applied Mathematics with contents 'Probability and Statistics'/'Linear Algebra' in future curriculum revision.

Dr. Arun Kumar Pujari, Expert Member from Mahindra University Hyderabad: To verify the syllabus of fourth and fifth units of 'Essential Mathematics for Machine Learning'.

To introduce topics on different techniques of AI, Reasoning, Machine Learning, Natural Language Processing, Searching as part of Artificial Intelligence and then Machine Learning topics in 'Artificial Intelligence and Machine Learning' – professional core course.

To specify classification of ANN, SVM in 'Artificial Neural Networks' course as well as to check the titles of textbooks.

To review Unit-I in Fundamentals of Machine Learning course, it is a good course, but heavy in content; and also, to relook into the title of the course. To ensure a track in 'Micro Electronics' in elective courses.

Dr. Venu Gopal, Expert Member from NIT Warangal: To reorient the course on Fundamentals of Machine Learning, Computer Vision, Searching.

➤ **B.Tech. Electronics and Instrumentation Engineering:**

Dr. K. Vidya Sagar, i/c HoD (Electronics and Instrumentation Engineering) presented the highlights of B.Tech. III year Electronics and Instrumentation Engineering curriculum under B.Tech. R22 academic regulations. Following suggestions were given by the Council members:

Dr. Vasana, Expert Member from BITS Hyderabad: To check for possibility of making 'Probability and Random Processes' course as mandatory.

To add course on 'Artificial Intelligence and Machine Learning'.

Dr. Venu Gopal, Expert Member from NIT Warangal: To generalize the name of 'Labview laboratory'.

Dr. A. Subhananda Rao, Member: To reduce the content on 8086 and include topics in the latest Microprocessors in the professional core course on 'Microprocessors, Microcontrollers and Interfacing' course.

Mr. Pravin Upadhyay, Expert Member from Industry: To add topics on Humanoid robots as a part of project-based learning in the course on 'Fundamentals of Robotics and Automation'.

➤ **B.Tech. Computer Science and Engineering:**

Dr. S. Nagini, HoD and Chairman, BoS (Computer Science and Engineering) presented the highlights of B.Tech. III year Computer Science and Engineering curriculum under B.Tech. R22 academic regulations. Following suggestions were given by the Council members:

Dr. Arun Kumar Pujari, Expert Member from Mahindra University Hyderabad: To add ChatGPT as one unit in 'Artificial Intelligence' course.

To review course on 'Data Mining'.

To check for the possibility of adding Mobile Imaging in the professional elective course on 'Image Processing'.

To add one unit of Dimensionality Reduction and Feature Selection in 'Data Engineering' course.

To remove textbook on Machine Learning in 'Data Engineering' course.

To review the content of Unit-I in 'Machine Learning' course.

To add one unit on Deep Learning in 'Machine Learning' course.

To include Regularization topic in 'Machine Learning' course.

To use Machine Learning platforms in 'Machine Learning Laboratory' course.

Dr. Vasan, Expert Member from BITS Hyderabad: To check for possibility of making 'Probability and Random Processes' course as mandatory.

To add an experiment on retrieving data from different repositories in 'Machine Learning Laboratory' course.

Mr. Pravin Upadhyay, Expert Member from Industry: To review the title of 'Agile Software Process'.

To implement Protocols in 'Computer Networks Laboratory' course.

To review the contents of 'Web Technologies' course as DOM is outdated; Joomla is not included.

Recommended to rename the title of 'Image Processing' course to 'Digital Image Processing'.

➤ **B.Tech. Computer Science and Business Systems:**

Dr. S. Nagini, HoD and Chairman, BoS (Computer Science and Engineering) presented the highlights of B.Tech. III year Computer Science and Business Systems curriculum under B.Tech. R22 academic regulations. Following suggestions were given by the Council members:

Dr. Arun Kumar Pujari, Expert Member from Mahindra University Hyderabad: To verify the 'Machine Learning' courses in CSE and CSBS and they can be made on par.

Mr. Pravin Upadhyay, Expert Member from Industry: To introduce all types of cloud , Review of Unit V in Cloud Microservices and Applications course To check for possibility of adding RoS-I/II, WSIP/XML.

➤ **B.Tech. Information Technology:**

Dr. D. Srinivasa Rao, HoD and Chairman, BoS (Information Technology) presented the highlights of B.Tech. III year Information Technology curriculum under B.Tech. R22 academic regulations.

Mr. Pravin Upadhyay, Expert Member from Industry: To check for the possible inclusion of WEKA tool.

➤ **B.Tech. CSE (Artificial Intelligence and Machine Learning):**

Dr. N. Sandhya, Chairman, BoS - CSE(AIML, IoT) presented the highlights of B.Tech. III year CSE (Artificial Intelligence and Machine Learning) curriculum under B.Tech. R22 academic regulations. Following suggestions were given by the Council members:

Dr. Arun Kumar Pujari, Expert Member from Mahindra University Hyderabad: To check for commonality of courses related to CSE domain.

Mr. Pravin Upadhyay, Expert Member from Industry: To verify the prerequisites 'Linear Algebra and Optimization Techniques' for the 'Neural Networks and Deep Learning' course.

To update title as Cyber Security instead of 'Information and Network Security'.

➤ **B.Tech. CSE (Internet of Things):**

Dr. N. Sandhya, Chairman, BoS - CSE(AIML, IoT) presented the highlights of B.Tech. III year CSE (Internet of Things) curriculum under B.Tech. R22 academic regulations.

➤ **B.Tech. CSE (Data Science):**

Dr. M. Rajasekhar, Chairman, BoS - CSE(Data Science, Cyber Security) presented the highlights of B.Tech. III year CSE (Data Science) curriculum under B.Tech. R22 academic regulations.

➤ **B.Tech. CSE (Cyber Security):**

Dr. M. Rajasekhar, Chairman, BoS - CSE(Data Science, Cyber Security) presented the highlights of B.Tech. III year CSE (Cyber Security) curriculum under B.Tech. R22 academic regulations.

➤ **B.Tech. Artificial Intelligence and Data Science:**

Dr. M. Rajasekhar, Chairman, BoS - CSE(Data Science, Cyber Security) presented the highlights of B.Tech. III year Artificial Intelligence and Data Science curriculum under B.Tech. R22 academic regulations. Following suggestions were given by the Council members:

Dr. Arun Kumar Pujari, Expert Member from Mahindra University Hyderabad:  
To add a course on Supervised Learning as it is missing.  
To check for content of Unsupervised Learning course, addition of topics on clustering, and to verify DBScan, as it is outdated.  
To check the content of Ensemble Models course as unit IV is specified on case study which may be replaced and recommended the real time data sets.

#### **18.4 Ratification of on-circulation resolutions**

- (i) Amendment in VNRVJiet B.Tech. CBCS R18/R19/A19/R22 Academic Regulations based on relaxation in credit-based promotion by JNTUH**
- (ii) Amendment in VNRVJiet B.Tech. CBCS R22 Academic Regulations regarding course re-registration**
- (iii) One-time chance for Old Regulation students including internal marks improvement**
- (iv) Credit-based exemption from B.Tech. III year II semester to IV year I semester by JNTUH**
- (v) Academic Calendars for the academic year 2023-2024**
- (vi) Subject registration details of B.Tech. I, II, III & IV years and M.Tech. I & II years for the academic year 2023-2024**
- (vii) Detention and condonation lists of I semester of B.Tech. I, II, III and IV year and M.Tech. I and II year for the academic year 2023-2024**
- (viii) Amendment in the existing RC/RV rule as suggested by the Directorate of University Examinations, JNTUH**
  - Dean, Academics presented the above mentioned on-circular resolutions which were approved by the Council members online for ratification.
  - Council ratified the approved on-circular resolutions as indicated in **Annexure-III**.

#### **18.5 Examination schedules in the academic year 2023-2024**

- Examination schedules of B.Tech. and M.Tech. programmes in the academic year 2023-2024 were presented before the Council for approval by Dr. K. Anuradha, Dean, Academics.
- Council approved the examination schedules of B.Tech. and M.Tech. programmes in the academic year 2023-2024 as given in **Annexure-IV**.

#### **18.6 Enhancement of grace marks for 2022 and 2023 graduated B.Tech. students under B.Tech. CBCS R18 and R19 academic regulations**

- Dr. K. Ramujee, Dean, Examinations apprised the members that JNTUH has now issued proceedings dated December 14<sup>th</sup>, 2023 regarding addition of

grace marks upto 0.50% of total marks and for any number of theory subjects for all B.Tech. R18 2021-2022 and 2022-2023 passed out students.

- Council approved and resolved to apply the addition of grace marks upto 0.50% of total marks and for any number of theory subjects for all B.Tech. R18 (2021-2022) and B.Tech. R19 (2022-2023) graduating students.

### 18.7 Substitute courses offered to the students re-admitted under B.Tech. R19/A19/R22 academic regulations in the academic year 2023-2024

- Dr. K. Anuradha, Dean, Academics presented the following list of courses repeated/already studied by re-admitted students in B.Tech. A19 / R22 academic regulations in the academic year 2023-2024 and the equivalent substitute courses as suggested by the Chairman of the respective BoS for approval.

B.Tech. Program	Previous Regulation	Subject studied already in previous regulation	Credits	Current Regulation	Subject repeated as per current regulation	Credits	Current Regulation	Suggested Substitute subject	Credits
<b>B.Tech. II Semester</b>									
CSE (AI & ML) II Sem	A19	Basics of Electrical Energy for Engineers (A19ES1EE01)	3	R22	Basic Electrical and Electronics Engineering (22ES1EE101)	3	R22	English for Skill Enhancement (22HS1EN101)	2
		Basic Electrical Engineering Laboratory (A19ES2EE01)	1		Basic Electrical and Electronics Engineering Laboratory (22ES2EE101)	1		English Language and Communication Skills Laboratory (22HS2EN101)	1
		Engineering Drawing (A19ES3ME02)	2		Engineering Drawing (22ES3ME102)	2		Introduction to Artificial Intelligence and Machine Learning (22ES1AM101)	2
					Engineering and IT workshop (22ES2ME102)	2			
<b>B.Tech. IV Semester</b>									
CE	A19	Computer Aided Civil Engineering Drawing (A19PC3CE01)	1	R22	Computer Aided Drafting Laboratory (22SD5CE201)	2	R22	Design Thinking (22PW4CE201)	2
EEE	A19	-	-	R22	-	-	R22	-	-
ECE	A19	-	-	R22	-	-	R22	-	-



EIE	A19	-	-	R22	-	-	R22	-	-
IT	A19	Design and Analysis of Algorithms (A19PC1CS03)	3	R22	Design and Analysis of Algorithms (22PC1CS202)	4	R22	Design Thinking (22PW4CS201)	2
								Data Visualization (22SD5DS201)	1
								Data Analysis with Excel (22ES2CS104)	1
AE	A19	-	-	R22	-	-	R22	-	-
<b>B.Tech. VI Semester</b>									
EEE	R19	-	-	A19	-	-	A19	-	-
EIE	R19	-	-	A19	-	-	A19	-	-

- Council approved the BoS suggested equivalent substitute courses to be pursued by re-admitted students under B.Tech. R22 academic regulations in the academic year 2023-2024.

### 18.8 Certificate courses offered in the academic year 2023-2024

- List of certificate courses offered by the various departments in the academic year 2023-2024 as given in **Annexure-V** was presented by Dr. K. Anuradha, Dean, Academics before the Council for approval.
- After deliberations, the council approved the list of certificate courses.

### 18.9 NPTEL-SWAYAM/MOOC courses offered in the academic year 2023-2024


- NPTEL-SWAYAM/MOOC courses offered in the academic year 2023-2024 as given in **Annexure-VI** were presented by Dr. K. Anuradha, Dean, Academics before the Council for approval.
- Council approved the list of NPTEL-SWAYAM/MOOC courses offered in the academic year 2023-2024.

Dr. C.D. Naidu, Principal and Chairman, Academic Council thanked the council members for sparing their valuable time and providing key inputs in the revision of curriculum and other academic activities in the Institute.

The meeting concluded with a vote of thanks to the Council members by Dr. Y. Shivraaj Narayan, Coordinator, Academics.

To  
All the Members.



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