## 1.1.1. B. Academic Council Minutes & BoS

| Summary | | | |
|---|---|---|---|
| No | ACM/BoS | Held on date | Quorum |
| 1 | 2nd ACM | 21-08-2021 | Yes |
| 2 | 3rd ACM | 26-02-2022 | Yes |
| 3 | 2nd BoS | July-2021 | Yes |
| 4 | 3rd BoS | February-2022 | Yes |

Principal
PRINCIPAL
N.S. Raju Institute of Technology
Sontyam, Visakhapatnam - 531173

## Minutes of the Meeting

| | | | | | |
|---|---|---|---|---|---|
| **Name of the Meeting** | 2nd Board of Studies | | **Ref. No.** | Email Communication dated July 6, 2021 by the Chairman (BoS) | |
| **Platform** | Zoom | | **Date** | July 31, 2021 (Saturday) **Time** | 10:45 AM – 12:00 Noon |

**Members Present**: Dr. B. Krishna Rao, University College of Engineering, JNTUK, Kakinada (University Nominee), Dr. D. Ravi Prasad, Asst. Professor, NIT Warangal (Academic Council Nominee), Dr. M. G. Muni Reddy, Associate Professor, Andhra University, Visakhapatnam (Academic Council Nominee), Mr. M. Banerjee, K.K.R. Projects Ltd., Visakhapatnam (Industry Nominee), Mr K. Srinu, Alumni, Ramco Cements (Alumni), All Members of faculty (Civil Engineering Program) and Mrs. S. Pavani, Chairman (BoS)

| Sl. No. | Description |
|---|---|
| 1 | The Chairman of the BoS have welcomed all the members of the BoS and confirmed the minutes of the first Board of Studies and subsequently introduced the Director and Professor of Civil Engineering |
| 2 | The Chairman of the BoS presented the Agenda and accordingly presented the Curriculum for all the semesters (I through VIII) and Syllabus for the Semesters III - IV<br><br>Based on the presentation, the members of BoS suggested the following points<br><br>a. To split 20CE305 Fluid Mechanics and Hydraulics in Semester III into two distinct courses viz. 20CE305 Fluid Mechanics in Semester III and 20CE402 Hydraulic Machinery in Semester IV<br><br>b. To remove 20CS403 Python Programming from Semester III as the students have already experienced "C Programming" during first semester and integrate to the course 20CS407 as integrated skill course<br><br>c. To rename 20CE501 Structural Analysis as Structural Analysis I and the extended version of this course shall be kept in elective courses as 20CE012 Advanced Structural Analysis<br><br>d. To explore the possibilities of including the core courses like Water Resource Engineering and Irrigation Design and Drawing to the maximum extent in semester V<br><br>e. To expand the topics in the units wherever possible<br><br>f. To interchange Unit. I and Unit II of the syllabus in Building Planning and Drawing |

Dr. J. Raja Murugadoss
Director
N.S. Raju Institute of Technology (A)
Sontyam, Visakhapatnam-531173

4. The committee members have appreciated the efforts of offering the courses like Finishing School in Civil Engineering during VII semester and well planned & designed curriculum focussing on National Education Policy 2020

Signature 31|7|2021
Chairman (BoS)

Copy to :    (a) All members
(b) File (Department)
(c) Autonomous Affairs

2 of 2 pages

Head of the Department
Dept. of Civil Engineering
N.S. Raju Institute of Technology(A)
Sontyam, Visakhapatnam-531173.

# Minutes of the Meeting

| | | | | | |
|---|---|---|---|---|---|
| Name of the Meeting | 3rd Board of Studies (CE) | Ref. No. | Email Communication dated Feb 3, 2022 by the Chairman (BoS) | | |
| Model Platform | Online/Zoom | Date | February 12, 2022 (Saturday) | Time | 10:30 AM – 12:30 PM |

**Members Present:**

Dr. B. Krishna Rao, University College of Engineering, JNTUK, Kakinada (University Nominee), Dr. D. Ravi Prasad, Asst. Professor, NIT Warangal (Academic Council Nominee), Dr. M. G. Muni Reddy, Associate Professor, Andhra University, Visakhapatnam (Academic Council Nominee), Mr. K. Srinu, Alumni, Ramco Cements (Alumni), Dr. J. Raja Murugadoss, Director, All Members of faculty (Civil Engineering Program), Mr. B. Ramesh Chandra, Chairman, BoS (Civil Engineering).

**Members Present**

**Special Invitees:**

Mr. Sivaram Kumar, Director (India), Luca Industries (Germany), Dr. S. Jeyachandran, CEO, Marutham Developers (Chennai)

**Grant of Leave of Absence**

1. Mr. M. Benerjee, K.K.R Projects Ltd, Visakhapatnam (Industry Nominee)

| Sl. No | Description |
|---|---|
| | The Chairman (BoS) welcomed all the members of BoS for the meeting of 3rd board of studies of CE and confirmed the minutes of 2nd BoS held on July 31, 2021. |
| 1. | |
| | **(Review of Action Taken Report)** |
| 2. | Members reviewed the action report for the suggestion made by the members during 2nd BoS. |

Subsequently the Chairman (BoS)presented the following items

(a) Syllabus pertaining to semester V and VI

(b) Syllabus pertaining to the courses categorized under professional elective and open elective I

(c) Syllabus pertaining to the courses categorized under B.Tech (Honors) and (Minors) category I

Based on the presentation the following suggestions were made

(a) To include a Unit on Spatial rainfall forecasting using Trend analysis with respect to Climate change in the course of Urban Hydrology

(b) To add a course on Entrepreneurship and recommended that this can be implemented as an online add on e-Course.

**3.**

(c) The students who may not get a chance to undergo internship can be advised to enroll relevant online e-courses and successfully finish them, thus giving them the edge equivalent to that of the professional internship experience.

(d) To merge the courses of 1) Drawing of Reinforced Concrete Structures and 2) Drawing of Steel Structures as one Drawing Laboratory course which is implemented using latest Civil Engineering domain software's such as AutoCAD, STAAD Pro, e Tabs, MX Road Suite, etc.

(e) To avoid overlapping of topics in two different yet similar courses, such as Advanced Concrete Technology and Building Materials and Construction.

(f) The importance of teaching Tendering process to civil engineering students and recommended that the curriculum should be

updated to meet this end.)

(a) Highlighted the importance of Rapid Construction Technology and urged that students should be made aware of this technology through the professional curriculum.

(b) The importance of Flipped learning method was discussed. Furthermore, in order to give students a research edge experience, going multidisciplinary was stressed, when it comes to excel at research, especially in the domain of materials science pertaining to concrete.

    The Members approved all the items with above suggestions.

Copy to :    (a) All members
                (b) File (Department)
                (c) Autonomous Affairs

Signature
Chairman (BoS)

Head of the Department
Dept. of Civil Engineering
N.S. Raju Institute of Technology(A)
Sontyam, Visakhapatnam-531173.

# 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, Pendurthi - Anandapuram Highway, Visakhapatnam - 531173, Ph : 9885824167, 8099464648, www.nsrit.edu.in

**Dr. J. Raja Murugadoss**
Director
N S Raju Institute of Technology (A)
Sontyam, Visakhapatnam-531173

## Minutes of the Meeting

| Name of the Meeting | 2nd Board of Studies | Ref. No. | Email Communication dated July 27, 2022 by the Chairman (BoS) | | |
|---|---|---|---|---|---|
| Platform | Zoom | Date | September 3, 2022 (Saturday) | Time | 10:00 AM – 11:30 AM |

| Members Present | **External members**<br>1. Dr Krishna Mohan, Professor, Department of CSE, IIT Hyderabad (ACM nominee)<br>2. Dr Sudha Sadhasivam, Professor, Department of CSE, PSG College of Technology Coimbatore (ACM nominee)<br>3. Dr Ilango, Director – Technical, Data Foundry.ai (Industry)<br>4. Ms Varshini Developer, IBM, Bangalore, Alumni, Member.<br>**Internal members**<br>5. All Members of faculty<br>**Members absent**<br>1. Dr J V R Murthy Professor, Department of CSE, University College of Engineering, Kakinada JNTUK, Kakinada (University Nominee) |
|---|---|

| No. | Points discussed |
|---|---|
| 1 | Chairman of BoS welcomed all the members for the 2nd Board of Studies of CSE (AI&ML) |
| 2 | Chairman of BoS shared minutes of 1st BoS minutes and conferred the minutes of meeting of CSE (AIML). It was highlighted that all suggestions given in 2nd BoS of CSE, are incorporated in the courses of Semesters V and VI |
| 3 | Chairman of BoS gave a brief outline of the highlights of AR 20 regulations and distribution courses in line with the APSCHE guidelines |
| 4 | Programme Educational Objectives (PEOs) of CSE (AIML) programme is accepted by members |
| 5 | Discussion on Curriculum from Semester VII onwards and following are the suggestions<br>  i. In Big Data Analytics, one unit content shall be included on SPARK<br>  ii. The text book for the course Soft Computing should include latest edition of book by Simon Haykins and other books must also be on latest editions<br>  iii. Unit 3 content of the course Cyber Threat Analysis must be modified<br>  iv. The course content of Fundamentals of Artificial Intelligence must be framed on the latest edition of AI book by Russel and Norwig; if possible, the course can be on Intelligent agents as it is under Open Elective category which would be opted by students of other departments<br>Discussion on syllabus for B Tech (Honors)<br>  a. Syllabus of the course Video Analytics must be revisited; applications of ML shall be included as one unit<br>  b. For the course on Game Programming, practical assessment must be included for 50% |

| | c. Digital Forensics course can be replaced by Privacy preservation |
| | General discussions |
| | i. Credits that are to be earned through MOOCs under self-study shall be from NPTEL, Coursera Specializations and Udemy; it is advisable to have assessment at institute level |
| | ii. Inter-disciplinary projects must be promoted in the department |

Copy to :     (a) All members
           (b) File (Department)
           (c) Autonomous Affairs

Signature
Chairman (BoS)

## Minutes of the Meeting

| | | | |
|---|---|---|---|
| Name of the Meeting | 3rd Board of Studies (ECE) | Ref. No. | Email Communication dated Feb 2, 2022 by the Chairman (BoS) |
| Model /Platform | Online/Zoom | Date | February 12, 2022 (Saturday) Time 10:30 AM – 12:15 PM |

**Members Present**

Dr. K. Chandra Bushana Rao, Professor, University College of Engineering Vizianagaram, JNTUK (University Nominee), Dr.T.Kishore Kumar, Professor, NIT Warangal (Academia), Dr. Ch. Gajendranath Chaudhury, Assistant Professor, IIT, Hyderabad (Academia), Mrs. M. M.Tulasi, Manager, MOS Chip Semiconductor Pvt. Ltd., Visakhapatnam (Industry), Mr. P. Mani Kumar, Layout Designer, MOS Chip Semiconductor Pvt. Ltd., Visakhapatnam (Alumni), All Members of faculty (Electronics & Communication Engineering Program), Mr. Ezhilmaran, AXIS Global Automation (Industry),Coimbatore and Dr. B. Siva Prasad, Chairman (BoS)

**Grant of Leave of Absence:**

(1) Mr. P. V. J. Raj Kumar (2) Mrs. G. Moulika (3) Mr. Y. V. Sri Charan (4) Mr. M. Ganesh

| SI. No | Description |
|---|---|
| 1. | The Chairman (BoS) Welcomed all the members of BoS for the meeting of 3rd Board of Studies of ECE and conformed the minutes of 2nd BoS held on July 31, 2021. |
| 2. | **(Review of Action Taken Report)** <br> Members reviewed the action report for the suggestion made by the members during 2nd BoS. |
| 3. | Subsequently the Chairman (BoS) presented the following items <br> (a) Syllabus pertaining to Semester V and VI <br> (b) Syllabus pertaining to the Courses categorized under Professional Elective and Open Elective <br> (c) Syllabus pertaining to the Courses categorized under B. Tech (Honors) and (Minor) category <br> Based on the presentation, the following suggestions were made <br> (a) To mention the name of the department after the Course name in Minor category <br> (b) To check the difficulty level of the syllabus in Linear & Digital IC Applications Course <br> (c) To include Sampling Theorem and A to D Converters experiment in Linear & Digital IC Applications Course <br> (d) To update the syllabus of Microwave Engineering course with latest topics <br> (e) To remove the BiCMOS heading in the II & III Units of VLSI Design Course <br> (f) To interchange the Unit IV and Unit V in Speech Processing Course ( Professional Elective Category II) |
| 4. | The Members approved all the items with above modifications |

Dr. J. Raja Murugadoss
Director
N.S. Raju Institute of Technology (A)
Sontyam, Visakhapatnam-531173

Signature
Chairman (BoS)
Head of the Department
Dept. of Electronics & Communicatin Engg.,
N.S. Raju Institute of Technology
Sontyam, Visakhapatnam - 531173

Copy to :
(a) All members
(b) File (Department)
(c) Autonomous Affairs

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

## Minutes of the Meeting

| Name of the Meeting | 2nd Board of Studies | Ref. No. | Email Communication dated July 6, 2021 by the Chairman (BoS) | | |
|---|---|---|---|---|---|
| Platform | Zoom | Date | July 31, 2021 (Saturday) | Time | 10:30 AM – 1:00 Noon |

**Members Present**: Dr. K. Chandra Bushana Rao, Professor, University College of Engineering Vizianagaram, JNTUK (University Nominee), Dr.T.Kishore Kumar, Professor, NIT Warangal (Academic Council Nominee), Dr. Ch. Gajendranath Chaudhury, Assistant Professor, IIT, Hyderabad (Academic Council Nominee), Mrs. M. M.Tulasi, Manager, MOS Chip Semiconductor PVT Ltd.,Visakhapatnam (Industry Nominee), Mr. P.Mani Kumar, Layout Designer, MOS Chip Semiconductor PVT Ltd.,Visakhapatnam (Alumni), All Members of faculty (Electronics & Communication Engineering Program) and Mr. B. Siva Prasad, Chairman (BoS)

| Sl. No. | Description |
|---|---|
| 1 | Member suggested to explore the possibilities of mapping of the other POs than the existing POs in all courses based on the scope of the content |
| 2 | Member suggested not to include B.Tech Honor Courses in Professional Electives or Open Electives |
| 3 | Member suggested to give the List of Minor Specialization courses to other department students |
| 4 | Member suggested to check the difficulty level in the III Sem Courses |
| 5 | Member suggested that B.Tech Honors Course titles should be corrected |
| 6 | Member suggested to add Machine Learning and Artificial Intelligence courses in the Curriculum |
| 7 | Member suggested to combine Combinational and Sequential Circuits in a single unit and then suggested to add VHDL basics in a separate unit in the Digital System Design subject. |
| 8 | Member suggested to add some VLSI topics and Application Development Courses. |

Signature

**Chairman (BoS)**

Copy to :
(a) All members
(b) File (Department)
(c) Autonomous Affairs

## Minutes of the Meeting

| | | | |
|---|---|---|---|
| Name of the Meeting | 3rd Board of Studies (EEE) | Ref. No. | Email Communication dated Feb 4, 2022 by the Chairman (BoS) |
| Model /Platform | Online/Zoom | Date | February 15, 2022 (Tuesday) Time 10:30 AM – 12:30PM |

**Members Present**
Dr. B. Naresh, Associate Professor, University College of Engineering, JNTUK, Kakinada (University Nominee), Dr. Srinivas Bhaskar Karanki, AssistantProfessor, IIT Bhubaneswar (Academic Council Nominee), Dr. Shankar Peddapati, Assistant Professor, NIT, Tadepalligudem, AP(Academic Council Nominee), Mr. B.Srinivas Reddy, GM, RINL, Visakhapatnam (Industry Nominee),Mr. B.Santosh, Junior Manager, Vizag Steel Plant, Visakhapatnam (Alumni), Dr. R.S.R. Krishnam Naidu, Chairman (BoS)

**Grant of Leave of Absence:**

(1) Mr. B.Santosh,Junior Manager, Vizag Steel Plant, Visakhapatnam (Alumni).

| Sl. No | Description |
|---|---|
| 1. | The Chairman (BoS) Welcomed all the members of BoS for the meeting of 3rd Board of Studies of EEE and conformed the minutes of 3rd BoS held on July 31, 2021. |
| 2. | (Review of Action Taken Report) |

Members reviewed the action report for the suggestion made by the members during 3rd BoS.
Subsequently the Chairman (BoS)presented the following items

(a) Syllabus pertaining to Semester V and VI

3.

(b) Syllabus pertaining to the Courses categorized under Professional Elective and Open Elective I
(c) Syllabus pertaining to the Courses categorized under B.Tech (Honors) and (Minor) category I

Based on the presentation, the following suggestions were made

(a) To change the name of the subject "Power Quality" in honors as "Electric Power Quality"
(b) To change the name of the subject "Industrial Electronics" as "Basic Industrial Automation" and also suggested some minor changes in the syllabus.
(c) To add a topic on fourier series expansion in "Power Electronics" subject
(d) To change "types of design of lighting and flood lighting" to "types of design of indoor and outdoor lighting" in "Utilization of Electrical Energy"
(e) To change self-study topic in unit I from "tungsten and fluorescent" to "tungsten and LED lamps" in "Utilization of Electrical Energy" subject
(f) To add "Solar PV Characteristics" in subject "Introduction of Renewable Energy Sources".
(g) To add topics on "measurement of low voltage or current" and "Digital Energy Meter's" in "Electrical Measurements and Instrumentation" subject
(h) To rename unit III and IV from "Non linear Systems-I" and "Non linear Systems-II" to Non linear Systems" and "Stability of Nonlinear Systems" in "Advanced Control Systems".
(i) To add a topic on "power quality" in subject "Reactive Power Compensation and Management" and also asked to add few topics on "user side load demand".
(j) To add a topic on "Control Authority Safety Regulations" as self-study topics in subject "Electrical Safety and

Dr. J. Raja Murugadoss
Director
N.S. Raju Institute of Technology (A)
Sontyam, Visakhapatnam-531173

(i) To replace a topic named "Electrical safety in Distribution system" as "Electrical Safety, shocks and their prevention" in subject "Electrical Safety and Management".

4. The Members approved all the items with above modifications

Signature
Chairman (BoS)

Copy to :    (a) All members
               (b) File (Department)
               (c) Autonomous Affairs

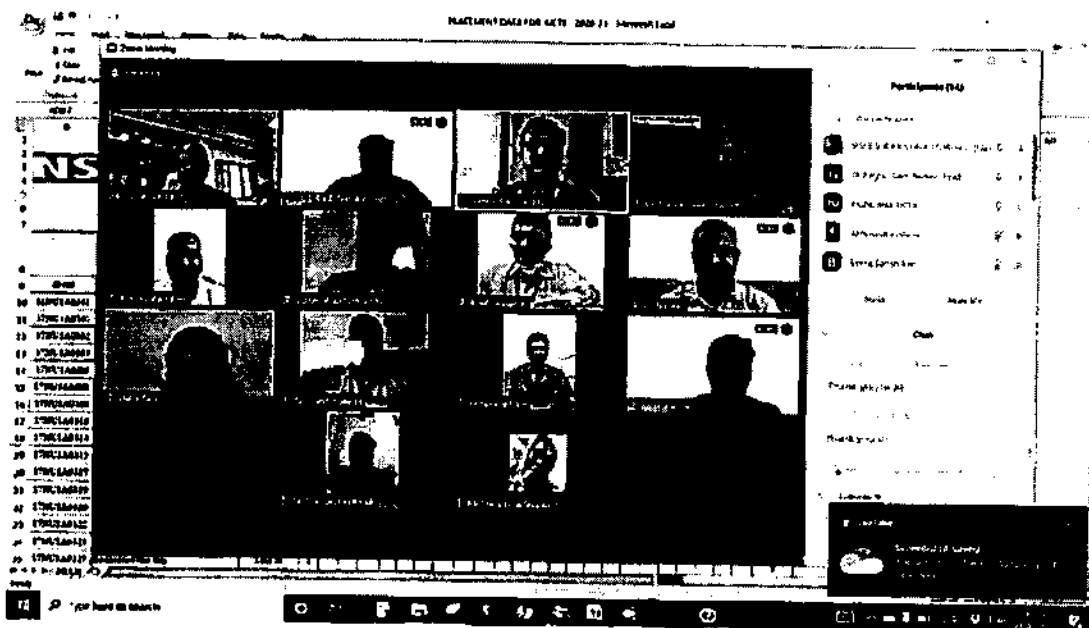# NSRIT NADIMPALLI SATYANARAYANA RAJU INSTITUTE OF TECHNOLOGY (AUTONOMOUS)

## Minutes of the Meeting

| Name of the Meeting Platform | 2nd Board of Studies Zoom | Ref. No. Date | Email Communication dated July 6, 2021 by the Chairman (BoS) July 31, 2021 (Saturday) Time 10:45 AM – 12:00 Noon |
|---|---|---|---|

Members Present: Dr. B. Bala Krishna, Professor, University College of Engineering, JNTUK, Kakinada (University Nominee), Dr. V. Pandu Ranga, Associate Professor, IIT, Bhubaneswar (Academic Council Nominee), Dr. Satish Ben, Associate Professor, NIT, Warangal (Academic Council Nominee), Dr. G.V. Sri Ram, CEO, Perfect Industries, Vijayawada (Industry Nominee), Mr. G. Sarath Chandra, Design Engineer, Infosys, Pune, (Alumni Nominee), All Members of faculty, Dr. K. R. Mohan Reddy, Chairman (BoS)

| Sl. No. | Description | Remarks |
|---|---|---|
| 1 | Panel suggested to add the APT program, G&M codes and manual part program in "20MES02- Computer Numerical Control Programming" under skill oriented course which is in IV semester. | Modified as per the suggestion and it will be send to the panel members, soon |
| 2 | Panel also suggested to have integer number of credits in III and IV semesters not to have problem while calculation of promotion of students. (Instructed to check the regulations). | As per the regulations, no point of an issue to the students while calculating the promotion requirements. |

Signature 31/07/202
Chairman (BoS)

Copy to :
(a) All members
(b) File (Mechanical Engineering Department)
(c) Autonomous Affairs



Dr. J. Raja Murugadoss
Director
N.S. Raju Institute of Technology (A)
Sontyam, Visakhapatnam-531173

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

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SONTYAM, Pendurthi - Anandapuram Highway, Visakhapatnam - 531173, Ph : 8985024187, 8099464540, www.nsrit.edu.in

## Department of Mechanical Engineering
## Minutes of the Meeting

| | | | |
|---|---|---|---|
| Name of the Meeting | 3rd Board of Studies | Ref. No. | Email Communication dated Feb 7, 2022 by the Chairman (BoS) |
| Platform | Zoom | Date | Feb 12, 2022 (Saturday)    Time    10:30 AM – 12:00 Noon |

**Members Present**

Dr. B. Bala Krishna, Professor, University College of Engineering, JNTUK, Kakinada (University Nominee), Dr. V. Pandu Ranga, Associate Professor, IIT, Bhubaneswar (Academia), Dr. Satish. Ben, Associate Professor, NIT, Warangal (Academia), Dr. C.V. Sri Ram, CEO, Perfect Industries, Vijayawada (Industry), Mr. G. Sarath Chandra, Design Engineer, Infosys, Pune, (Alumni), All Members of faculty, Dr. P.N.E. Naveen, Chairman (BoS)

Special Invitees:

Dr. Pratap Chokalingam, Associate Professor, Indian Institute of Space Science and Technology, Thiruvananthapuram

Cdr. Gopi Krishna Sivvam, Chief Operating Officer, Centre of Excellence in Maritime & Shipbuilding (CEMS), Visakhapatnam, Dr. M V A  Raju Bahubalendruni, Assistant Professor, NIT Puducherry, Dr. T.V. Arjunan, Dean, Guru Ghasidas Vishwavidyala , Central University, Bilaspur, Chhattisgarh

| Sl. No. | Description |
|---|---|
| 1 | The Chairman (BoS) welcomed all the members of BoS for the meeting of 3rd board of Studies of ME and conformed the minutes of 2nd BoS held on July 31, 2021. |
| 2 | **(Review of Action Taken Report)**<br>Members reviewed the action report for the suggestion made by the members during 2nd BoS.<br>Subsequently the Chairman (BoS)presented the following items |
| 3 | (a)  Syllabus pertaining to semester V and VI<br>(b)  Syllabus pertaining to the courses categorized under professional elective and open elective I |
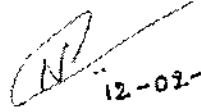
(c) Syllabus pertaining to the courses categorized under B.Tech (Honors) and (Minors) category I

Based on the presentation the following suggestions were made

(a) To include the concepts of Boiler is not required for the course Advanced Heat Transfer under the B.Tech (Honors)

(b) To indicate the arrangement of units in the course Jet Propulsion and Rocket Engineering under B.Tech (Honors)

The Members approved all the items with above modifications

4

12-02-2022.

Dr. P.N.E. Naveen
Assoc. Prof
Signature
Chairman (BoS)

Copy to :
    (a) All members
    (b) File (Mechanical Engineering Department)
    (c) Autonomous Affairs

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

| Mode | : Online | Platform : Zoom |
| Date | : 21.08.2021 (Saturday) |
| Time | : 03:00 PM |

## MEMBERS PRESENT

1. Dr. M. A. Khadar Baba, Chairman, Academic Council
2. Dr. J. Raja Murugadoss, Director, NSRIT, Member
3. Prof. R. Srinivasa Rao, DAP, JNTUK, University Nominee
4. Prof. L. Sumalatha, DoE, JNTUK, University Nominee
5. Prof. Ch. Srinivasa Rao, UCEV, JNTUK, University Nominee
6. Dr. CLVRSV. Prasad, Principal, GMRIT
7. Dr. R. B. V. Subramanyam, Prof., NIT Warangal
8. Dr. P. Srinivasa Rao, Global Head, CYIENT
9. Sri. G. S. Raju, Director, GSY Technologies
10. All Chairpersons of U. G. and P. G. programs
11. Dr. N. V. V. S. Suryanarayana, Coordinator (IQAC)
12. Dr. G. Kalyani, Deputy CoE
13. Mr. K. Shankar, Asst. CoE

## GRANT OF LEAVE OF ABSENCE

1. Dr. Laxmi Pati Raju, Principal, MVGR, Academia
2. Mr. Sarath Chandra, Alumni

The Controller of Examinations (CoE) introduced Dr. M. A. Khadar Baba, Principal and Chairman of the Academic Council and Dr. J. Raja Murugadoss, Director, NSRIT to all the members of the Academic Council. Subsequently, the Chairman welcomed all the members of the meeting, granted leave of absence, and confirmed the minutes of the 1st academic council meeting along with the action taken report.

### Item No. #2: Points of Common Interest

The various boards of studies of B. Tech. programmes have proposed the common points of interest under Academic Regulation 2020 pertaining to

| No. | Description | Board Suggested | Recommendations |
|---|---|---|---|
| 1 | To provide the list of courses pertaining to Minor with specialization to the other programs in the curriculum | ECE | Incorporated in the Proposed Curriculum. In addition to that, the broad areas of Honors are also indicated for better understanding. |

1

| | | |
|---|---|---|
| 2 | Suggested to have distinct Boards of Studies for CSE, CSE (AI & ML) and CSE (Data Science) from next BoS onwards | CSE | It will be implemented from the 3ʳᵈ Board of Studies. The following are the members suggested to be nominated by the ademic council<br><br>CSE (Artificial Intelligence and Machine Learning)<br>1. Dr. C. Krishna Mohan, Professor, IIT Hyderabad<br>2. Dr. Sudha Sadasivam, Professor & Head (CSE), PSG College of Technology<br>CSE (Data Science)<br>1. Dr. Rajib Mall, Professor of CSE, IIT Kharagpur<br>2. Dr. S. Ravi Chandra, Associate Professor NITW, Warangal |

The members reviewed the same and approved.

**Item No. #3: Highlights of the Academic Rules and Regulations 2020 and Amendments in the Academic Rules and Regulations of B. Tech. Programs**

The Director, NSRIT presented the following highlights of the Academic Rules and Regulations 2020 and briefed the members regarding the introduction of Honors and Minor with Specialization in all programs of study in the undergraduate level and updated the revised version of Academic Rules and Regulations 2020 based on the above components highlighting the academic bank of credits (ABC) anc Choice Based Semester and Credits System.

- B. Tech. (Honors)
- B. Tech. (Minor with Specialization)
- Completely in line with APSCHE Curriculum Framework
- Total number of credits required for the students admitted through Regular and Lateral (Regular: 160 Credits | Honors: 180 | Minor with specialization : 180 | Lateral entry: 121 Credits | Honors: 141 | Minor with specialization: 141)
- Choice Based Credit System (CBCS)
- Flexibility to offer B. Tech. (Honors) and B. Tech. (Minor with specialization)
- Outcome Based Curriculum Design
- Industry supported 1-credit courses from 3ʳᵈ semester onwards
- Customized assessment pattern following Revised Bloom's Taxonomy (RBT) for each course
- Self-study topics (italiced in each unit for all courses) for enhancing self-directed learning
- MOOCs and self-study courses for enhancing self-directed learning
- Summer (Sem. IV and VI) and Full Semester Internship (Sem. VII and VIII)
- Choice Based Semester System to promote NEP 2020 under Academic Bank of Credits (ABC)
- The structure and credit distribution (Semester-wise) remains same in all programs

The members reviewed the above said points and approved the same for the students admitted from the Academic Year 2020 – 2021 onwards.

**Item No. #4: Curriculum (Semester III – VIII) and Syllabi (Semester III – IV) for the students admitted in Civil Engineering Program from the Academic Year 2020 – 2021 onwards**

The board of studies of B. Tech. Civil Engineering had proposed the formulation curriculum (Semester III – VIII) and Syllabi (Semester III – IV) under Academic Regulation 2020. and the Joint Board recommended for placing before Academic Council for its approval.

HoD (Civil Engg.) moved that the recommendations of the Joint Board as in Appendix II be approved.

Resolved that the Proposed Curriculum and Syllabi for B. Tech. Civil Engineering as in Appendix II be approved and these come into force for the students admitted from the academic year 2020 - 2021 onwards.

**Item No. #5: Curriculum (Semester III – VIII) and Syllabi (Semester III – IV) for the students admitted in Computer Science and Engineering Program from the Academic Year 2020 – 2021 onwards**

The board of studies of B. Tech. Computer Science and Engineering had proposed the formulation curriculum (Semester III – VIII) and Syllabi (Semester III – IV) under Academic Regulation 2020. and the Joint Board recommended for placing before Academic Council for its approval.

HoD (Computer Science and Engineering) moved that the recommendations of the Joint Board as in Appendix III be approved.

Resolved that the Proposed Curriculum and Syllabi for B. Tech. Computer Science and Engineering as in Appendix III be approved and these come into force for the students admitted from the academic year 2020 - 2021 onwards with the following suggestions.

1. To explore the possibility of swapping the courses 20CS403 and 20CS501 along with their corresponding laboratories
2. To strengthen the Competitive Programming Essentials in the Semester IV with more number of similar courses in the subsequent semester as this course is very much essential to enhance employability skills

**Item No. #6: Curriculum (Semester III – VIII) and Syllabi (Semester III – IV) for the students admitted in Computer Science and Engineering (Artificial Intelligence and Machine Learning) Program from the Academic Year 2020 – 2021 onwards**

The board of studies of B. Tech. CSE (Artificial Intelligence and Machine Learning) had proposed the formulation curriculum (Semester III – VIII) and Syllabi (Semester III – IV) under Academic Regulation 2020. and the Joint Board recommended for placing before Academic Council for its approval.

HoD (Computer Science and Engineering) moved that the recommendations of the Joint Board as in Appendix IV be approved.

Resolved that the Proposed Curriculum and Syllabi for B. Tech. CSE (Artificial Intelligence and Machine Learning) as in Appendix IV be approved and these come into force for the students admitted from the academic year 2020 - 2021 onwards.

**Item No. #7: Curriculum (Semester III – VIII) and Syllabi (Semester III – IV) for the students admitted in Computer Science and Engineering (Data Science) Program from the Academic Year 2020 – 2021 onwards**

The board of studies of B. Tech. CSE (Data Science) had proposed the formulation curriculum (Semester III – VIII) and Syllabi (Semester III – IV) under Academic Regulation 2020. and the Joint Board recommended for placing before Academic Council for its approval.

HoD (Computer Science and Engineering)  moved that the recommendations of the Joint Board as in Appendix V be approved.

Resolved that the Proposed Curriculum and Syllabi for B. Tech. CSE (Data Science)  as in Appendix V be approved and these come into force for the students admitted from the academic year 2020 - 2021 onwards.

**Item No. #8: Curriculum (Semester III – VIII) and Syllabi (Semester III – IV) for the students admitted in Electronics and Communication Engineering (ECE) Program from the Academic Year 2020 – 2021 onwards**

The board of studies of B. Tech. (ECE) had proposed the formulation curriculum (Semester III – VIII) and Syllabi (Semester III – IV) under Academic Regulation 2020. and the Joint Board recommended for placing before Academic Council for its approval.

HoD (ECE)  moved that the recommendations of the Joint Board as in Appendix VI be approved.

Resolved that the Proposed Curriculum and Syllabi for B. Tech. (ECE)  as in Appendix VI be approved and these come into force for the students admitted from the academic year 2020 - 2021 onwards.

**Item No. #9: Curriculum (Semester III – VIII) and Syllabi (Semester III – IV) for the students admitted in Electrical and Electronics Engineering (EEE) Program from the Academic Year 2020 – 2021 onwards**

The board of studies of B. Tech. (EEE) had proposed the formulation curriculum (Semester III – VIII) and Syllabi (Semester III – IV) under Academic Regulation 2020. and the Joint Board recommended for placing before Academic Council for its approval.

HoD (EEE)  moved that the recommendations of the Joint Board as in Appendix VII be approved.

Resolved that the Proposed Curriculum and Syllabi for B. Tech. (EEE)  as in Appendix VII be approved and these come into force for the students admitted from the academic year 2020 - 2021 onwards.

**Item No. #10: Curriculum (Semester III – VIII) and Syllabi (Semester III – IV) for the students admitted in Mechanical Engineering (Mechanical Engineering) Program from the Academic Year 2020 – 2021 onwards**

The board of studies of B. Tech. (Mechanical Engineering) had proposed the formulation curriculum (Semester III – VIII) and Syllabi (Semester III – IV) under Academic Regulation 2020. and the Joint Board recommended for placing before Academic Council for its approval.

HoD (Mechanical Engineering) moved that the recommendations of the Joint Board as in Appendix VIII be approved.

Resolved that the Proposed Curriculum and Syllabi for B. Tech. (Mechanical Engineering) as in Appendix VIII be approved and these come into force for the students admitted from the academic year 2020 - 2021 onwards.

**Item No. #11: Curriculum (Semester III – IV) and Syllabi (Semester III – IV) for the students admitted in Thermal Engineering (M. Tech.) Program from the Academic Year 2020 – 2021 onwards**

The board of studies of Mechanical Engineering had proposed the formulation curriculum (Semester III – IV) and Syllabi (Semester III – IV) under Academic Regulation 2020. and the Joint Board recommended for placing before Academic Council for its approval.

HoD (Mechanical Engineering) moved that the recommendations of the Joint Board as in Appendix IX be approved.

Resolved that the Proposed Curriculum and Syllabi for M. Tech. (Thermal Engineering) as in Appendix IX be approved and these come into force for the students admitted from the academic year 2020 - 2021 onwards.

**Item No. #12: Curriculum (Semester III – VIII) and Syllabi (Semester III – IV) for the students admitted in Master of Business Administration (MBA) Program from the Academic Year 2020 – 2021 onwards**

The board of studies of Management Studies had proposed the formulation curriculum (Semester III – IV) and Syllabi (Semester III – IV) under Academic Regulation 2020. and the Joint Board recommended for placing before Academic Council for its approval.

HoD (Management Studies) moved that the recommendations of the Joint Board as in Appendix X be approved.

Resolved that the Proposed Curriculum and Syllabi for Master of Business Administration as in Appendix X be approved and these come into force for the students admitted from the academic year 2020 - 2021 onwards with the following suggestions.

1. To include courses related to skill development in the field of Office Tools viz. Computer based presentations, Work book and Word Applications
2. To include Enterprise Resource Planning and Management

**Item No. #13: Approval of Semester End Examination Results of U. G. and P. G. Programs for the Students admitted during the Academic Year 2020 – 2021 (Semester I)**

The Director, NSRIT presented the results pertaining to the Semester End Examination Results of U. G. and P. G. Programs for the Students admitted during the Academic Year 2020 – 2021. The members reviewed the same and approved for results. Also the permission is granted to release the results to the relevant stakeholders as per the Institution procedure. Further the members suggester to explore new

teaching methodologies and faculty competencies to enhance the academic performance in the coming batches.

| No. | Program of Study (UG) | No. of Students | | No. of Students Cleared all Courses | Pass Percentage |
| --- | --- | --- | --- | --- | --- |
| | | Registered | Appeared | | |
| 1 | Civil Engineering | 22 | 21 | 14 | 66.67 |
| 2 | CSE | 121 | 121 | 73 | 60.33 |
| 3 | CSE (AI & ML) | 31 | 29 | 19 | 65.52 |
| 4 | CSE (Data Science) | 31 | 30 | 28 | 93.33 |
| 5 | ECE | 121 | · 119 | 91 | 76.47 |
| 6 | EEE | 27 | 27 | 17 | 62.96 |
| 7 | Mechanical Engineering | 51 | 50 | 31 | 62.00 |
| No. | Program of Study (PG) | | | | |
| 1 | Thermal Engineering | 4 | | 3 | 75.00 |
| 2 | MBA | 114 | | 98 | 93.33 |

Eventually, the Director, NSRIT briefed the new initiatives regarding the implementation of Learning Management System (LMS).

Any Other Items: - Nil

CHAIRMAN (ACADEMIC COUNCIL) & PRINCIPAL

Copy to:         (A) All Members of the Academic Council
                 (B) File

Encl.    :       Curriculum and Syllabi (Sem. III – IV) as approved


Civil Engg.


CSE


CSE (AI & ML)


CSE (DS)


ECE


EEE


Mech. Engg.


Thermal Engg. (PG)


MBA

# NSRIT 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)
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SONTYAM, Pendurthi - Anandapuram Highway, Visakhapatnam - 531173, Ph : 9885524167, 8099464546, www.nsrit.edu.in

| | |
|---|---|
| Mode | : Online \| Platform: Zoom |
| Date | : 26.02.2022 (Saturday) |
| Time | : 03:30 PM |

## MEMBERS PRESENT

1. Dr. M. A. Khadar Baba, Chairman, Academic Council
2. Dr. J. Raja Murugadoss, Director, NSRIT, Member
3. Dr. K. V. S. G. Murali Krishna, DAP, JNTUK, University Nominee
4. Dr. B. Bala Krishna, DoE, JNTUK, University Nominee
5. Prof. Ch. Srinivasa Rao, UCEV, JNTUK, University Nominee
6. Dr. Laxmi Pati Raju, Principal, MVGR, Academia
7. Dr. CLVRSV. Prasad, Principal, GMRIT
8. Dr. R. B. V. Subramanyam, Prof., NIT Warangal
9. Dr. P. Srinivasa Rao, Global Head, CYIENT
10. Sri. G. S. Raju, Director, GSY Technologies
11. Mr. Sarath Chandra, Alumni
12. All Chairpersons of U. G. and P. G. programs
13. Dr. N. V. V. S. Suryanarayana, Coordinator (IQAC)
14. Dr. G. Kalyani, Deputy CoE
15. Mr. K. Shankar, Asst. CoE

## GRANT OF LEAVE OF ABSENCE: Nil

Dr. M. A. Khadar Baba, Principal and Chairman of the Academic Council welcomed all the members and confirmed the minutes of the 2nd academic council meeting along with the action taken report and reinforced the academic rules and regulations 2020 of the autonomous governance to all the members.

**Item No. #2: Syllabi pertaining to the Semester V and VI including Professional Electives I and II, Open Electives I and II, B. Tech. (Honors & Minor) courses under Category I for the students admitted in Civil Engineering Program from the Academic Year 2020 – 2021 onwards**

The board of studies of B. Tech. Civil Engineering had proposed the syllabus pertaining to Semester V and VI and syllabus pertaining to B. Tech. (Honors) and B. Tech. (Minor) under Category I under Academic Regulation 2020 and the Joint Board recommended for placing before Academic Council for its approval.

HoD (Civil Engg.) moved that the recommendations of the Joint Board as in Appendix I be approved.

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

1

**Item No. #3:** Syllabi pertaining to the Semester V and VI including Professional Electives I and II, Open Electives I and II, B. Tech. (Honors & Minor) courses under Category I for the students admitted in Computer Science and Engineering Program from the Academic Year 2020 – 2021 onwards

The board of studies of B. Tech. Computer Science and Engineering had proposed the syllabus pertaining to Semester V and VI and syllabus pertaining to B. Tech. (Honors) and B. Tech. (Minor) under Category I under Academic Regulation 2020 and the Joint Board recommended for placing before Academic Council for its approval.

Prof. Dr. K. Madhavi (CSE) moved that the recommendations of the Joint Board as in Appendix II be approved.

Resolved that the proposed syllabus of Computer Science and Engineering as in Appendix II be approved and these come into force for the students admitted from the academic year 2020 - 2021 onwards.

**Item No. #4:** Syllabi pertaining to the Semester V and VI including Professional Electives I and II, Open Electives I and II, B. Tech. (Honors & Minor) courses under Category I for the students admitted in Computer Science and Engineering (Artificial Intelligence and Machine Learning) Program from the Academic Year 2020 – 2021 onwards

The board of studies of B. Tech. Computer Science and Engineering (Artificial Intelligence and Machine Learning) had proposed the syllabus pertaining to Semester V and VI and syllabus pertaining to B. Tech. (Honors) and B. Tech. (Minor) under Category I under Academic Regulation 2020 and the Joint Board recommended for placing before Academic Council for its approval.

Prof. Dr. R. Priya Vaijayanthi (CSE) moved that the recommendations of the Joint Board as in Appendix III be approved.

Resolved that the proposed syllabus of Computer Science and Engineering (Artificial Intelligence and Machine Learning) as in Appendix III be approved and these come into force for the students admitted from the academic year 2020 - 2021 onwards.

**Item No. #5:** Modified Curriculum from Semester III onwards pertaining to CSE (Artificial Intelligence and Machine Learning) for the students admitted from the Academic Year 2022 – 2023 onwards.

The board of studies of B. Tech. Computer Science and Engineering (Artificial Intelligence and Machine Learning) had proposed the syllabus pertaining to Semester V and VI and syllabus pertaining to B. Tech. (Honors) and B. Tech. (Minor) under Category I under Academic Regulation 2020 and the Joint Board recommended for placing before Academic Council for its approval.

Prof. Dr. R. Priya Vaijayanthi (CSE) moved that the recommendations of the Joint Board as in Appendix IV be approved.

Resolved that the Proposed modified curriculum of Computer Science and Engineering (Artificial Intelligence and Machine Learning) as in Appendix IV be approved and these come into force for the students admitted from the academic year 2022 - 2023 onwards.

2

**Item No. #6:** Syllabi pertaining to the Semester V and VI including Professional Electives I and II, Open Electives I and II, B. Tech. (Honors & Minor) courses under Category I for the students admitted in Computer Science and Engineering (Data Science) Program from the Academic Year 2020 – 2021 onwards

The board of studies of B. Tech. Computer Science and Engineering (Data Science) had proposed the syllabus pertaining to Semester V and VI and syllabus pertaining to B. Tech. (Honors) and B. Tech. (Minor) under Category I under Academic Regulation 2020 and the Joint Board recommended for placing before Academic Council for its approval.

Prof. Dr. B. Ravi Kiran (CSE) moved that the recommendations of the Joint Board as in Appendix V be approved.

Resolved that the proposed syllabus of Computer Science and Engineering (Data Science) as in Appendix V be approved and these come into force for the students admitted from the academic year 2020 - 2021 onwards with the following suggestions.

- To include few topics related to Business Intelligence

**Item No. #7:** Syllabi pertaining to the Semester V and VI including Professional Electives I and II, Open Electives I and II, B. Tech. (Honors & Minor) courses under Category I for the students admitted in Electronics and Communication Engineering Program from the Academic Year 2020 – 2021 onwards

The board of studies of B. Tech. Electronics and Communication Engineering had proposed the syllabus pertaining to Semester V and VI and syllabus pertaining to B. Tech. (Honors) and B. Tech. (Minor) under Category I under Academic Regulation 2020 and the Joint Board recommended for placing before Academic Council for its approval.

Prof. Dr. B. Siva Prasad (ECE) moved that the recommendations of the Joint Board as in Appendix VI be approved.

Resolved that the proposed syllabus of Electronics and Communication Engineering as in Appendix VI be approved and these come into force for the students admitted from the academic year 2020 - 2021 onwards by incorporating the following suggestion.

- To include one more domain of courses under Category I through IV pertaining to B. Tech. (Honors)

**Item No. #8:** Syllabi pertaining to the Semester V and VI including Professional Electives I and II, Open Electives I and II, B. Tech. (Honors & Minor) courses under Category I for the students admitted in Electrical and Electronics Engineering Program from the Academic Year 2020 – 2021 onwards

The board of studies of B. Tech. Electrical and Electronics Engineering had proposed the syllabus pertaining to Semester V and VI and syllabus pertaining to B. Tech. (Honors) and B. Tech. (Minor) under Category I under Academic Regulation 2020 and the Joint Board recommended for placing before Academic Council for its approval.

Prof. Dr. R. S. R. Krishnam Naidu (EEE) moved that the recommendations of the Joint Board as in Appendix VII be approved.

Resolved that the proposed syllabus of Electrical and Electronics Engineering as in Appendix VII be approved and these come into force for the students admitted from the academic year 2020 - 2021 onwards.

**Item No. #9: Syllabi pertaining to the Semester V and VI including Professional Electives I and II, Open Electives I and II, B. Tech. (Honors & Minor) courses under Category I for the students admitted in Mechanical Engineering Program from the Academic Year 2020 – 2021 onwards**

The board of studies of B. Tech. Mechanical Engineering had proposed the syllabus pertaining to Semester V and VI and syllabus pertaining to B. Tech. (Honors) and B. Tech. (Minor) under Category I under Academic Regulation 2020 and the Joint Board recommended for placing before Academic Council for its approval.

Prof. Dr. P. N. E. Naveen (ME) moved that the recommendations of the Joint Board as in Appendix VIII be approved.

Resolved that the proposed syllabus of Mechanical Engineering as in Appendix VIII be approved and these come into force for the students admitted from the academic year 2020 - 2021 onwards.

Based on the above presentation, members suggested the following items to be included wherever it is applicable.

- To include topics related to Safety Engineering
- To include perquisite for all the courses to have a better understanding

Any Other Items: - Nil

**CHAIRMAN (ACADEMIC COUNCIL) & PRINCIPAL**

Copy to :  (A) All Members of the Academic Council
          (B) File

Encl.   :     Syllabi (Sem. V – VI) as approved

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