1.1.2. Revision of Curriculum

No.	Program	Total No. of Courses	No. of Courses where revision is carried out	Percentage of curriculum revision carried out
1	Civil Engineering	23	6	26.0
2	Computer Science & Engineering (CSE)	25	7	28.0
3	Electronics & Communication Engineering	23	7	30.4
4	Electrical & Electronics Engineering	23	5	21.7
5	Mechanical Engineering	22	3	13.6
Percentage of revision done in the curriculum across all the programs (evidence for NAAC criteria: 1.1.2)		23.94%		
6	CSE (AI & ML)	Newly designed as this is an emerging domain		
7	CSE (Data Science)			

Director

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

List of Courses where modifications / revisions are carried out

Civil Engineering

1	Design of Steel Structures	20CE602
2	Transportation Engineering	20CE601
3	Environmental Engineering	20CE603
4	Estimation and Costing	20CES04
5	Finishing School for Civil Engineering	20CES05
6	Indian Traditional Knowledge	20MCX04

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

Computer Science and Engineering

1	Cryptography and Network security	20CS601
2	Web Technologies	20CS602
3	Modern Software Engineering	20CS603
4	Android App Development	20CSS04
5	Finishing School for CSE	20CSS05
6	Indian Traditional Knowledge	20MCX04

Head of the Department
Computer Science and Engineering
N.S .Raju Institute of Technology
Sontyam, Visakhapatnam - 531173

Electronics & Communication Engineering

1	Microwave Engineering	20EC601
2	Digital Signal Processing	20EC602
3	Micro Processors & Micro Controllers	20EC603
4	Fundamentals of Machine Learning	20ECS04
5	Android App Development	20ECS05
6	Indian Traditional Knowledge	20MCX04

Dr. B. SIVA PRASAD
M.Tech.,Ph.D., (MBA), MIAENG, MIETE
Associate Professor & Head
Electronics & Communication Engg.
N.S.Raju Institute of Technology(A)
Sontyam, Visakhapatnam-531 173

Electrical & Electronics Engineering

1	Micro Processors & Micro Controllers	20EC603
2	Electrical Measurement & Instrumentation	20EE602
3	Power System Analysis	20EE603
4	P - Spice	20EESO4
5	E - CAD	20EESO5

Head of the Department
Dept of Electrical & Electronics Engg
N.S.Raju Institute of Technology Autonomous
Sontyam, Visakhapatnam - 531 173

Mechanical Engineering

1	CNC Programming	20MES02
2	Heat Transfer	20ME603
3	Robotics & Automation	20ME023

Head of the Department
Mechanical Engineering
N.S.Raju Institute of Technology (A)
Visakhapatnam - 531 173

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

NSRIT Estd. 2008 **NADIMPALLI SATYANARAYANA RAJU INSTITUTE OF TECHNOLOGY**

(AUTONOMOUS)

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1.1.2. Academic Council and Board of Studies

No	ACM/BoS	Held on date	Quorum
		Summary	
1	5th ACM	17-09-2022	Yes
2	6th ACM	13-04-2023	Yes
3	4th BoS	11-08-2022	Yes
4	5th BoS	17-02-2023	Yes

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

NSRIT NADIMPALLI SATYANARAYANA RAJU INSTITUTE OF TECHNOLOGY
(AUTONOMOUS)

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. Khader 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 3rd academic council meeting along with the action taken report of the 3rd 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 3rd 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 21st 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

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

NADIMPALLI SATYANARAYANA RAJU INSTITUTE OF TECHNOLOGY
(AUTONOMOUS)

Mode : Hybrid | Platform: Zoom
Date : April 13, 2023 (Thursday)
Time : 02:30 PM

MEMBERS PRESENT

1. Dr. J. Raja Murugadoss, Chairman, Academic Council (Offline)
2. Dr. D. Rajya Lakshmi, DoE i/c, JNTU – GV, AP (Online)
3. Dr. K. Chandra Bhushana Rao, DAP i/c, JNTU – GV, AP (Online)
4. Dr. G. Jaya Suma, Director, IIIP & T (i/c), JNTU – GV, AP (Offline)
5. Dr. C. L. V. R. S. V. Prasad, Principal, GMRIT (Online)
6. Dr. R. B. V. Subramanyam, Prof., NIT Warangal (Online)
7. Dr. P. Srinivasa Rao, Global Head, CYIENT (Online)
8. Sri. G. S. Raju, Director, GSY Technologies (Online)
9. All Chairpersons of U. G. and P. G. Programs (Offline)
10. Dr. N. V. V. S. Suryanarayana, Coordinator, IQAC (Offline)
11. Dr. G. Kalyani, CoE (Offline)
12. Mr. K. Shankar, Senior Faculty (Offline)

GRANT OF LEAVE OF ABSENCE:

1. Mr. G. Sarath Chandra, Alumni

Dr. J. Raja Murugadoss, Director and Chairman of the Academic Council welcomed all the members and introduced the new members nominated by JNTU – GV, Andhra Pradesh to the other members and confirmed the minutes of the 5th academic council meeting (Item #1) held on September 17, 2022. Further, on behalf of NSRIT, the undersigned thanked all the earlier members of the Academic Council of JNTUK, Kakinada for their continued support and inputs in enriching the curriculum under autonomous governance of NSRIT.

Item #2: Approval for the members of BoS (Two members as per UGC guidelines) for the Board of Studies of Engineering programs, MBA and Basic Science and Humanities for the period 2023 – 2026. (Tenure 3 years)

The Chairman, Academic Council recommended the list of names of the Board of Studies for the period 2023 – 2026 for the Boards of Engineering programs, MBA and Basic Science and Humanities under the category "Outside Parent University" as per the UGC guidelines for taking necessary approval from the members of the Academic Council as furnished below.

Civil Engineering

No.	Suggestions	Action Taken
1	Dr. S. Adiseshu, Professor	AU college of Engineering, Andhra University, Andhra Pradesh
2	Dr. E. Ilayaraja, Professor	PSG College of Technology, TN

CSE

No.	Suggestions	Action Taken
1	Dr. Ch. Sudhakar, Professor	Dept. of CSE, NIT Warangal, Telangana
2	Dr. Vadi Kumari, Professor	Dept. of CSE, Andhra University, Andhra Pradesh

CSE (AI & ML)

No.	Suggestions	Action Taken
1	Dr. S. Janakiraman, Associate Professor	Department of Banking Technology, Pondicherry University, Puducherry
2	Dr. Vadi Kumari, Professor	Dept of CSE, Andhra University, Andhra Pradesh

CSE [Data Science]

No.	Suggestions	Action Taken
1	Dr. Ch. Sudhakar, Professor	Dept. of CSE, NIT Warangal, Telangana
2	Dr. A.S.N. Chakravarthy, Professor	Dept. of CSE, JNTUK, Kakinada, Andhra Pradesh

ECE

No.	Suggestions	Action Taken
1	Dr. T. Kishore Kumar, Professor	NIT Warangal, Telangana
2	Dr. P. Rajesh Kumar, Professor	Andhra University, Visakhapatnam

EEE

No.	Suggestions	Action Taken
1	Dr. P. Madhukarjuna Rao, Professor	AU College of Engineering, Andhra University
2	Dr. G. Yesuratnam, Professor	University College of Engineering, Osmania University

Mechanical Engineering

No.	Suggestions	Action Taken
1	Dr. V. Panduranga, Associate Professor	IIT, Bhubaneswar, Odisa
2	Dr. C. Prathap, Associate Professor	Indian Institute of space science and Technology, Thiruvananthapuram

MBA

No.	Suggestions	Action Taken
1	Dr. K. V. Ramana Murthy, Professor	Department of DCMS, Andhra University
2	Dr. M. Purna Sai Ganash, Associate Professor	IIIT, Sri Kakulam, Andhra Pradesh

Basic Science & Humanities (English, Chemistry, Mathematics and Physics)

No.	Suggestions	Action Taken
1	Dr. Rama Naga Kantham, Professor of English	Andhra University College of Engineering, Andhra University
2	Dr. G. Nageswara Rao, Professor of Chemistry, Former Vice-Chancellor of AU	AU College of Science & Technology, Visakhapatnam
3.	Prof. K. Rajendra Prasad, Professor, Dept. of Applied Mathematics,	AU College of Science & Technology, Andhra University, Visakhapatnam
4	Dr. P.V. Laxminarayana, Associate Professor, Dept. of Physics	AU College of Science & Technology, Andhra University, Visakhapatnam

Resolved that the proposed names of all programs of B. Tech., MBA and Basic Science and Humanities be approved and will come into force from the subsequent meeting of the Board of Studies onwards.

Item #3: The Boards of Studies of all Engineering programs discussed and recommended the modifications in the Academic Rules and Regulations 2020 (Revision I) for all B. Tech. programs for the students admitted from the Academic Year 2022 – 2023 onwards with effect from the ACY 2023 – 2024.

The Chairman, Academic Council proposed the Academic Rules and Regulations 2020 (Revision 1) pertaining to B. Tech. Regular, Honors and Minor with Specialization and highlighted the features of the rules and regulations 2020 (Revision I). The Chairman (Academic Council) moved that the recommendations of the Joint Board as in Appendix I be approved.

Based on the presentation the members appreciated the Initiatives of Open ended assessment instrument in the proposed regulations 2020 (Revision I) and the following suggestions are made to take care in the regulation. Further the undersigned has clarified that the above initiative will be deployed at the

initial times with the continuous internal assessment and will be deployed for SEE once the system gets maturity in this initiative.

1. Suggested to have exit/alternate option as well as to specify all the necessary conditions in the Academic Regulations in case if the student doesn't clear the course and non availability of the courses in future in the online platform
2. Suggested to include provisions for choosing another elective in case if the student fails in an elective

Resolved that the Academic Rules and Regulations 2020 (Revision I) as in Appendix I be approved and will come into force for the students admitted from the academic year 2022 - 2023 onwards with effect from 2023 – 2024 onwards.

Item #4 – Item #10: The Board of Studies of various Engineering programs discussed and recommended the modified Curriculum and Syllabus of all the semesters under Academic Regulations 2020 (Revision I) for B. Tech. programs including B. Tech. (Honors), B. Tech. (Minor with Specialization) and Industry connect courses.

The Chairman of various Boards of Studies have proposed modified Curriculum and Syllabus under the Academic Rules and Regulations 2020 (Revision I) pertaining to their respective B. Tech. programs for the students admitted during 2022 – 2023 with effect from the academic year 2023 – 2024 onwards.

Resolved that the proposed modified Curriculum and Syllabus under Academic Rules and Regulations 2020 (Revision I) as in Appendix II - VIII be approved and these come into force for the students admitted from the academic year 2022 - 2023 onwards with effect from 2023 – 2024 onwards. However the Boards of CSE (AI and ML) and CSE (Data Science) are requested to relook into the changes being suggested and proceed.

Item #11: The Board of Studies of Basic Science and Humanities (BS & H) and other Boards of Engineering programs discussed and recommended the Curriculum and Syllabus for the first year pertaining to the Semester I and II under Academic Regulations 2020 (Revision I) for the students to be admitted during the academic year 2023 – 2024 onwards as the Academic Rules and Regulations 2023 was resolved to halt during the Joint Board Meeting held on April 06, 2023.

The Chairman, Board of Studies, Basic Science and Humanities (BS & H) have proposed Curriculum and Syllabus for the students of the first year to be admitted from the academic year 2023 – 2024 onwards under Academic Regulation 2020 (Revision I) with an intention of the readiness of the Curriculum and Syllabi, if the Academic Rules and Regulations 2023 is not in force at the time of admission.

Resolved that the proposed Curriculum and Syllabus under Academic Rules and Regulations 2020 (Revision I) as in Appendix IX for the students to be admitted during the academic year 2023 – 2024 be approved.

Item #12: The Board of Studies of all Engineering programs discussed and recommended the introduction of the Academic Rules and Regulations 2023 for all the B. Tech. programs for the students admitted from the Academic Year 2023 – 2024 onwards.

Suggested to halt for a while.

Item #13: Approval to consider the system of double valuation to single valuation for the U. G. programs from the academic year 2023 – 2024 onwards (**Through Circulation**).

Preamble: Double valuation is being followed for all U. G. and P. G. programs since 2020, the grant of autonomy for the semester end examinations. Here the valuation #1 and #2 are done by the internal and external examiners respectively. Here the approval is kindly solicited to go for single valuation for U. G. programs and suitable SOP will be arrived for implementation from the academic year 2023 – 2024 onwards. In this regard, the approval is kindly requested.

Any other Items: Nil

Chairman (Academic Council) & Director

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

NSRIT

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Minutes of the Meeting

Name of the Meeting	4th Board of Studies (CE)	**Ref. No.**	Email Communication dated August 11, 2022 by the Chairman (BoS)
Model Platform	Online/Zoom	**Date**	August 27, 2022 (Saturday) **Time** 10:30 AM – 12:05 PM

Members Present:

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. D.V.Shanmukesh, Chairman, BoS (Civil Engineering)

Special Invitees:
Dr. S. Jeyachandran, CEO, Marutham Developers (Chennai)

Grant of Leave of Absence:

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

Sl. No	**Description**
1.	The Chairman (BoS) welcomed all the members of BoS for the meeting of 4th board of studies of CE and confirmed the minutes of 3rd BoS held on Feb 03, 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 VII and VIII

(b) Syllabus pertaining to the courses categorized under Professional Elective - III, IV & V and Open Elective II & III

(c) Syllabus pertaining to the courses categorized under B.Tech. (Honors) and (Minor with Specialization) category II & III

(d) The members were appraised with the new initiatives of augmenting few more courses related to B.Tech. (Minor with Specialization) in the following fields of interest

  1. Liberal Arts
  2. Statistics
  3. General Management
  4. Human resource Management

In addition to the existing ones viz. Communication Engineering, Production Management, Advanced Power Systems, Advanced Computing, Data Science & Web Development

(e) Further the courses as cited above are approved by the Board of Studies of BS & H and Management Studies

Based on the presentation the following suggestions were made:

(a) To rephrase " Self Healing Concrete" to "Special Concrete"

(b) To alter BIM course as integrated course with lab component   3 0 2 4

(d) To include topics related to ocean structures in Ocean Engineering

4. The Members approved all the items with above suggestions.

Signature
Chairman (BoS)

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

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

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Minutes of the Meeting

Name of the Meeting	5th Board of Studies (CE)	Ref. No.	Email Communication dated Feb 17, 2023 by the Chairman (BoS)
Model Platform	Online/Zoom	Date	March 15, 2023 (Wednesday)　Time　　　10:30 AM – 12:05PM

Members Present:

Members Present — Dr. B. Krishna Rao, University College of Engineering, JNTUK, Kakinada (University Nominee), Dr. D. Ravi Prasad, Associate 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, Dr. J. Raja Murugadoss, Director, All Members of faculty (Civil Engineering Program), Mr. D.V.Shanmukesh, Chairman, BoS (Civil Engineering),

Grant of Leave of Absence:
1. Mr. M. Benerjee, K.K.R Projects Ltd, Visakhapatnam (Industry Nominee)

Sl. No	Description
1.	The Chairman (BoS) welcomed all the members of BoS for the meeting of 5th board of studies of CE and confirmed the minutes of 4th BoS held on August 27, 2022.
2.	**(Review of Action Taken Report)** Members reviewed the action report for the suggestion made by the members during 4th BoS. Subsequently the Chairman (BoS) presented the following items 　(a) Curriculum pertaining to semester I to VIII, for the AR23 regulation 　(b) Syllabus pertaining to the courses in the II semester by the parent department Based on the presentation the following suggestions were made
3.	(a) Suggested to look into the title "Engineering Behaviour of Soils" and also there should not be any duplication in the content with respect to Soil Mechanics (b) Suggested to include the topics like "Theories of failure, Torsion & Principle stresses" with respect to Strength of Materials course (c) Suggested to meticulously float the content in Structural analysis -1 & 2
4.	The Members appreciated the functional aspects like Internships as well as the online certification for the Mandatory courses.
5.	The Members approved all the items as per the agenda

2. Feedback received on the curriculum & syllabus under the academic regulation 2020

9

NSRIT

No.	Suggestions	Remarks
1	Name the "Building materials and Construction components" as "Building materials" only	Incorporated in the AR23
2	Surveying course hours are not properly distributed Addition of topics like "Use & applications of Total Station" are to be included in the Geo graphical Information systems	Incorporated in the AR23 Surveying Course
3	Plan for the Survey camp	After the III Semester for 01 Week
4	Structural analysis can be in II parts as in the 1st part all the basics can be covered and in the 2nd part Matrix connections, Cables & Suspension bridges like topics can be added	

Link 1   Link 2

Dr. Muni Reddy

Haragopal (D...

GADDAM KA...

S

p

Signature

15/3/23

Chairman (BoS)

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

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

NSRIT Estd. 2001 **NADIMPALLI SATYANARAYANA RAJU**
INSTITUTE OF TECHNOLOGY
(AUTONOMOUS)

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Minutes of the Meeting

Name of the Meeting	4th Board of Studies	Ref. No.	Email Communication dated August 2, 2022 &September 6, 2022 by the Chairman (BoS)		
Platform	Zoom	Date	September 7, 2022 (Wednesday)	Time	10:00 AM – 11:00AM

Members Present

1. Prof. M. V. PandurangaRao, Professor & Head, Dept. of CSE, IIT, Hyderabad (Academia)
2. Dr. Ch. Sudhakar, Professor, Dept. of CSE, NIT Warangal (Academia)
3. Dr.R. RajeswaraRao, Professor & i/c Principal, Dept. of CSE, University College of Engineering, Vizianagaram, JNTUK (University)
4. Dr. ParamataSatyanarayana, DGM, Vizag Steel Plant (Industry)
5. Mr. Dinakar, Associate Software, Accenture (Alumni)
6. Mr. Dinesh Kumar Hirawat, CEO, HMI (Guest)
7. All Members of faculty (Computer Science & Engineering Program) and Dr. R. Srinivas, Chairman (BoS)

Sl. No.	Description	Remarks
1	Chairman of BoS welcomed all the members for the 4th Board of Studies of CSE	
2	Chairman of BoS shared minutes of 3rd BoS and conferred that all suggestions are incorporated in semesters III and IV	
3	Chairman of BoS started the discussion highlighting the distribution of courses and credits of AR20 curriculum. It is framed in line with the APSCHE guidelines Discussion on Curriculum and syllabus of CSE	
4	a. In Software Testing Methodology, theoretical content is fine. It is advised to assign practical assignments to students and award marks for it.	All the suggestions will be incorporated

b. In Software Project Management, content should not be overlapped with Software Engineering course

Discussion on syllabus of B. Tech(Honors)
a. In GPU Architecture and Programming, Unit-V need to be revised as it is not related to this course.
b. In Distributed Parallel Computing, it is advised to include atleast 2 units from the textbook-2

Discussion on Curriculum and syllabus of B. Tech(Minors)
a. In Database Security, include Data Migration Techniques in Unit-IV

General discussions
a. Include MOOC course for B.Tech Honors in the curriculum with minimum of 12 weeks of duration.

Signature
Chairman (BoS)   7/9/22

Head of the Department
Computer Science and Engineering
N.S. Raju Institute of Technology
Sontyam, Visakhapatnam - 531173

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

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SONTYAM, Pendurthi - Anandapuram Highway, Visakhapatnam - 531173, Ph : 08852824187, 8099464545, www.nsrit.edu.in

Minutes of Meeting

Name of the meeting	5th Board of Studies	Ref. No.	Email Communication dated March 4, 2023 by the Chairman (BoS)		
Platform	Zoom	Date	March 18, 2023 (Saturday)	Time	10:00AM – 10:30AM

Members Present	**Chairman BoS** Dr Srinivas Rayudu, Professor, Dept. of CSE

External Members
1. Prof. M. V. PandurangaRao, Professor, Dept. of CSE IIT, Hyderabad (Academia)
2. Dr. Ch. Sudhakar, Professor, Dept. of CSE, NIT Warangal (Academia)
3. Dr. R. RajeswaraRao, DIRECTOR i/c Academic Audit & Professor, Dept. of CSE, University College of Engineering Vizainagaram, JNTUK (University)
4. Dr. Paramata Satyanarayana, DGM, Vizag Steel Plant (Industry)
5. Mr. V. Dinakar, Software Developer -2, Oracle (Alumni)

Internal Members
6. Dr R Priya Vaijayanthi, HoD CSE (AI/ML), Dr K Madhavi, HoD CSE (DS)
7. All Members of faculty of CSE

No.	Points Discussed
1	Chairman of BoS welcomed all the members for the 5th Board of Studies of CSE.
2	Chairman of BoS shared minutes of 4th BoS minutes and conferred the minutes of meeting of CSE. It was highlighted that all suggestions given in 4th BoS of CSE, are incorporated. Modifications in the course content of Software Testing Methodologies, Software Project Management, GPU Architecture and Programming and Database Security are incorporated and are approved by the members.
3	Chairman of BoS discussed on the consolidated feedback received on the curriculum under AR20 and on syllabi.
4	External BoS members suggested to revisit academic regulation 2023 and AR23 curriculum after the parent university and APSCHE releases the new framework and they suggested to have another round of BoS meeting.

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Signature
Chairman (BoS)
Head of the Department
Computer Science and Engineering
N.S .Raju Institute of Technology
Sontyam, Visakhapatnam - 531173

NSRIT Estd. 2008

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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** 1. Dr Krishna Mohan, Professor, Department of CSE, IIT Hyderabad (ACM nominee) 2. Dr Sudha Sadhasivam, Professor, Department of CSE, PSG College of Technology Coimbatore (ACM nominee) 3. Dr Ilango, Director – Technical, Data Foundry.ai (Industry) 4. Ms Varshini Developer, IBM, Bangalore, Alumni, Member. **Internal members** 5. All Members of faculty **Members absent** 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
	    i. In Big Data Analytics, one unit content shall be included on SPARK
	    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
	    iii. Unit 3 content of the course Cyber Threat Analysis must be modified
	    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
	Discussion on syllabus for B Tech (Honors)
	    a. Syllabus of the course Video Analytics must be revisited; applications of ML shall be included as one unit
	    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

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Signature
Chairman (BoS)

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2nd Board of Studies Computer Science and Engineering (Data Science)

Minutes of the Meeting

Name of the Meeting	2nd Board of Studies	Ref. No	Email Communication dated September 6, 2022 by the Chairman (BoS)
Platform	Zoom	Date	September 6, 2022 (Tuesday) Time 10:00 AM – 11:20 AM

Members Present

1. Dr J V R Murthy Professor, Department of CSE University College of Engineering, Kakinada JNTUK, Kakinada. University Nominee
2. Dr Kuda Nageswarar Rao, Andhra University College of Engineering, Professor, Institute Nominee(Academia)
3. Dr Rashmi Ranjan Rout, Associate Professor, NIT Warangal, Institute Nominee(Academia)
4. Mr M Ramakrishna AssociateManager, SQA, ScientificGames, Institute Nominee (Industry)
5. Mr K S R C Raju, Technical Director, Axiom IO, Institute Nominee (Industry)
6. Mr Akhil, Software Engineer, Tech Mahindra, Institute Nominee (Alumni)
7. All Members of faculty (Computer Science & Engineering Program)

Members Absent   1. Dr. Rajib Mall, IIT Kharagpur, Institute Nominee(Academia)

SI. No.	Description	Remarks
	Review of Action Taken Report)	
1	Members reviewed the action report for the suggestion made by the members during 1st BoS	
2	Chairman of BoS welcomed all the members for the 2nd Separate Board of Studies of CSE(DS)	
3	Chairman of BoS shared minutes of 1st Joint BoS and conferred that all suggestions are incorporated in semesters V and VI	
4	Chairman of BoS started the discussion highlighting the distribution of courses and	

credits of AR20 curriculum. It is framed in line with the APSCHE guidelines

Discussion on Curriculum I-VIII and syllabus of CSE(DS) from VII,VIII semesters and Honors-Category-II,III,IV, Minors-category-II,III. Following are the suggestions

    a. In Image & Video Analytics, ensure that the topics which student has already learned should not be repeated again in this course

    b. In Web Intelligence course, any Web Intelligence Tools required by the industry shall be included which will be helpful for the students for their career

    c. In Introduction to Big data course, assign few assignments to the students so that they can have practical knowledge on the subject.

Discussion on B. Tech (Honors)

    d. In Programming for Analytics & Data Processing, assign few assignments to the students to implement them practically.

All the suggestions will be incorporated

6   The Members approved all the items with above modifications

Signature
Chairman (BoS)

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Minutes of the Meeting

Name of the Meeting	4th Board of Studies (ECE)	Ref. No.	Email Communication dated August 4, 2022 by the Chairman (BoS)		
Model /Platform	Online/Zoom	Date	September 9, 2022 (Friday)	Time	10:30 AM – 12:15 PM

Members Present	Dr. K. Chandra Bushana Rao, Professor, University College of Engineering Vizianagaram, JNTUGV (University Nominee), Dr.T.Kishore Kumar, Professor, NIT Warangal (Academia), Dr. Ch. Gajendranath Chaudhury, Assistant Professor, IIT, Hyderabad (Academia), Faculty of ECE and Dr. B. Siva Prasad, Chairman (BoS)
Grant of Leave of Absence:	(1) Mrs. M. M.Tulasi, Manager, MOS Chip Semiconductor Pvt. Ltd., Visakhapatnam (Industry), (2) Mr. P. Mani Kumar, Layout Designer, MOS Chip Semiconductor Pvt. Ltd., Visakhapatnam (Alumni),

Sl. No	Description
1.	The Chairman (BoS) Welcomed all the members of BoS for the meeting of 4th Board of Studies of ECE and conformed the minutes of 3rd BoS held on Feb 12, 2022.
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

3.
    (a) Syllabus pertaining to Semester VII and VIII
    (b) Syllabus pertaining to Professional Electives III, IV and V
    (c) Syllabus pertaining to Open Electives II, III and IV
    (d) Syllabus pertaining to Category II,III and IV of B. Tech. (Honors) and Category II and III of B. Tech. (Minor)

Based on the presentation, the following suggestions were made
    (a) To change the Radar Systems course name as Radar Engineering
    (b) To change the Hardware Modelling using Verilog course name as Hardware Design using Verilog
    (c) To change the Architectural Design of Digital Integrated Circuits course name as Design of Digital Integrated Circuits
    (d) To include Wireless Communication course as Pre requisite for Advanced 3G and 4G Mobile Communications
    (e) To verify and modify the repeated concepts in Advanced 3G and 4G Mobile Communications with Wireless Communication course
    (f) To verify the Course Outcome 5 of Hardware Modeling using Verilog course
    (g) To change the Text Book Authors order of priority in Analog Electronic Circuits course (Minor Course Cat. III)

4.   The Members approved all the items with above modifications

Signature 9/9/22

Chairman (BoS)
Head of the Department
Dept. of Electronics & Communication Engg.,
N.S.Raju Institute of Technology
Sontyam, Visakhapatnam-531 173

Copy to :   (a) All members
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Minutes of the Meeting

Name of the Meeting	5th Board of Studies (ECE)	Ref. No.	Email Communication dated March 12, 2023 by the Chairman (BoS)		
Model /Platform	Online/Zoom	Date	March 25, 2023 (Saturday)	Time	10:30 AM – 11:30 AM
Members Present	Dr. K. Chandra Bushana Rao, Professor, University College of Engineering Vizianagaram, JNTUGV (University Nominee), Dr.T.Kishore Kumar, Professor, NIT Warangal (Academia), Dr. Ch. Gajendranath Chaudhury, Assistant Professor, IIT, Hyderabad (Academia), Faculty of ECE and Dr. B. Siva Prasad, Chairman (BoS)				
Grant of Leave of Absence:	(1) Mrs. M. M.Tulasi, Manager, MOS Chip Semiconductor Pvt. Ltd., Visakhapatnam (Industry), (2) Mr. P. Mani Kumar, Layout Designer, MOS Chip Semiconductor Pvt. Ltd., Visakhapatnam (Alumni)				

Sl. No	Description
1.	The Chairman (BoS) Welcomed all the members of BoS for the meeting of 5th Board of Studies of ECE and conformed the minutes of 4th BoS held on Sep 9, 2022.
2.	**(Review of Action Taken Report)** Members reviewed the action report for the suggestion made by the members during 4th BoS
3.	Subsequently the Chairman (BoS) presented the following items (a) Approval requested for the academic regulation 2020 (Revision 1) for the students admitted from the academic year 2022 - 2023 onwards with effect from the ACY 2023 – 2024 (b) Modifications in Curriculum and Syllabus from Semester III onwards under academic regulation 2020 for all B. Tech. Programs (c) Discussion on the attainment of Program Outcomes (POs) and Program Specific Outcomes (PSOs) of the 2022 relieved batch of students. (d) Feedback analysis and proposed action plan in the curriculum under academic regulation 2023 (e) Curriculum for all the semesters including electives under the proposed academic regulation 2023 (f) Courses related to B. Tech. (Honors) and B. Tech. (Minor with specialization) under the proposed academic regulation 2023 (g) Approval requested for the academic regulation 2023 for the students to be admitted from the academic year 2023 - 2024 onwards in B. Tech. programs (h) Approval requested Syllabus pertaining to Semester-I & Semester-II of Proposed AR23

Based on the presentation, the following suggestions were made

(a) To rename the Simulation Lab Course with domain / software specific name in Proposed AR23 Curriculum.

(b) To shift the Antenna and Wave Propagation course from Professional Elective-1 list to professional Core course and suggested to shift Control Systems Course from ES to PE in Proposed AR23 Curriculum.

(c) To include 5G & 6G Technology Concepts in Proposed AR23 Curriculum.

4.
(d) To make necessary changes in Academic Regulations 23 in case of any major deviations with the proposed APSCHE Regulations

5 The Members approved all the items with above modifications as furnished in point #3

Signature 25/3/23

Chairman (BoS)
Dr. B. SIVA PRASAD
M.Tech.,Ph.D., (MBA), MIAENG, MIETE
Associate Professor & Head
Electronics & Communication Engg.
N.S.Raju Institute of Technology(A)
Sontyam, Visakhapatnam-531 173

Copy to   : (a) All members
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Minutes of the Meeting

Name of the Meeting	4th Board of Studies (EEE)	Ref. No.	Email Communication dated Aug 27, 2022 by the Chairman (BoS)		
Model /Platform	Online/Zoom	Date	September 9, 2022 (Friday)	Time	11:00 AM – 12:30 PM
Members Present	Dr. B. Naresh, Associate Professor, University College of Engineering, JNTUK, Kakinada (University Nominee), Dr. Srinivas Bhaskar Karanki, Assistant Professor, 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.Srinivas Reddy, GM, RINL, Visakhapatnam (Industry Nominee) (2) 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 4th Board of Studies of EEE and conformed the minutes of 3rd BoS held on Feb 15, 2022.
2.	**(Review of Action Taken Report)** Members reviewed the action report for the suggestion made by the members during 3rd BoS.

3.	Subsequently the Chairman (BoS) presented the following items
	    (a) Syllabus pertaining to Semester VII and VIII
	    (b) Syllabus pertaining to the Courses categorized under Professional Elective III, IV and Open Elective II .
	    (c) Syllabus pertaining to the Courses categorized under B. Tech (Honors) and (Minor)

	Based on the presentation, the following suggestions were made
	    (a) To add topics on DC protection in "Switch Gear and Protection"
	    (b) To rename Unit-1 in "HVDC & FACTS" as Introduction to "HVDC and FACTS".
	    (c) To rename Unit-2 as "PLC Programming and Operations" in "Programmable Control Devices and Applications".
	    (d) Suggested to add some applications in Unit-5 in "Programmable Control Devices and Applications".
	    (e) To refine the syllabus for "Advanced Power Converters"
	    (f) To rename a experiment in ECAD, "Electric Circuit Diagrams" as "Draw Cable Layout diagrams"
	    (g) To change the title of "Electric Vehicles on Smart Grid" as "Challenges and Impact of Electric Vehicles on Smart Grid"
	    (h) To rename "Power Electronic Converters for Smart Grid and Electric Vehicles" as "Design and Testing of Battery Management System for Electric Vehicles"

4.	The Members approved all the items with above modifications

Signature   9/9/22

Chairman (BoS)

Head of the Department
Dept. of Electrical & Electronics Engg.
N.S.Raju Institute of Technology Autonomous
Sontyam, Visakhapatnam - 531 173

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Minutes of the Meeting

Name of the Meeting	5th Board of Studies (EEE)	Ref. No.	Email Communication dated Aug 27, 2022 by the Chairman (BoS)		
Model /Platform	Online/Zoom	Date	March 23, 2023 (Thursday)	Model /Platform	Online/Zoom
Members Present	Dr. B. Naresh, Associate Professor, University College of Engineering, JNTUK, Kakinada (University Nominee), Dr. Srinivas Bhaskar Karanki, Assistant Professor, 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.Srinivas Reddy, GM, RINL, Visakhapatnam (Industry Nominee)				

Sl. No	Description
1.	The Chairman (BoS) welcomed all the members of BoS for the meeting of 5th board of studies of CE and confirmed the minutes of 4th BoS held on September 9, 2022.
2.	**(Review of Action Taken Report)** Members reviewed the action report for the suggestion made by the members during 4th BoS.

3.	Subsequently the Chairman (BoS) presented the following items
	    (a) Curriculum pertaining to semester I to VIII, for the AR23 regulation
	    (b) Syllabus pertaining to the courses in the I & II semester by the parent department
	 Based on the presentation the following suggestions were made
	    (a) Suggested to rename "Material Science" as "Material's Science" or "Material's Science and Engineering"
	    (b) To increase number of hours in first unit in Basic Electrical and Electronics Engineering course
	    (c) Suggested to add application of those topics discussed in that unit for Basic Electrical and Electronics Engineering course
	    (d) Suggested to add additional experiments in Basic Electrical and Electronics Engineering lab
	    (e) Suggested to update the experiments in Network Analysis lab

4.	The Members have appreciated the initiatives taken and approved all the items with above suggestions.

Signature
Chairman (BoS)

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INSTITUTE OF TECHNOLOGY
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Minutes of the Meeting

Name of the Meeting	4th Board of Studies	Ref. No.	Email Communication dated Aug 06, 2022 by the Chairman (BoS)		
Platform	Zoom	Date	Sep 03, 2022 (Saturday)	Time	10:00 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, 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)					
Sl. No.	Description				
1	Suggested title of the Course for Applications of Mechatronics to Mechatronics and its applications comes under the Skill Oriented Course (SC).				
2	Suggested title of the Course for Integrated Computer Aided Design to Computer Aided Design comes under the Honors (HO) in category IV.				

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

Copy to :   (a) All members
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Minutes of the Meeting

Name of the Meeting	5th Board of Studies	Ref. No.	Email Communication dated March 18, 2023 by the Chairman (BoS)		
Platform	Zoom	Date	March 24, 2023 (Friday)	Time	11:00 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, Professor, NIT, Warangal (Academia), Dr. C.V. Sri Ram, CEO, Perfect Industries, Vijayawada (Industry), Mr. G. Sarath Chandra, Design Engineer, Infosys, Pune, (Alumni), Dr. K. Raghu Ram Mohan Reddy, All Members of faculty, Dr. P.N.E. Naveen, Chairman (BoS)				

Sl. No.	Description
1	The Chairman (BoS) welcomed all the members of BoS for the meeting of 5th board of studies of ME and confirmed the minutes of 4th BoS held on September 03, 2022.
2	**(Review of Action Taken Report)** Members reviewed the action report for the suggestion made by the members during 4th BoS.
3	Subsequently the Chairman (BoS) Presented the following items (a) Revised the Curriculum for the AR20 (b) Approval requested for the academic regulation 2020 (Revision 1) for the students admitted from the academic year 2022 - 2023 onwards with effect from the ACY 2023 – 2024 (c) Academic Curriculum 2023 and Curriculum pertaining to semester I to VIII, for the AR23 regulation Syllabus pertaining to the courses in the II semester by the parent department (d) Feedback analysis and proposed action plan in the curriculum under academic regulation 2023 (e) Courses related to B. Tech. (Honors) and B. Tech. (Minor with specialization) under the proposed academic regulation 2023 (f) Discussion on the attainment of Program Outcomes (POs) and Program Specific Outcomes (PSOs) of the 2022 relieved batch of students
4	Based on the presentation the following suggestions were made 1. Consider to publish the Journal papers either in UGC Care or Scopus as part of Technical Paper writing

5	The Members approved all the items with above suggestions as furnished in the point #3

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

25-03-2023

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