SESHADRI RAO GUDLAVALLERU ENGINEERING COLLEGE

(An Autonomous Institute with Permanent Affiliation to JNTUK, Kakinada)
Seshadri Rao Knowledge Village, Gudlavalleru – 521356, Krishna District (A.P)

Details of BoS Meeting held from the Academic Year 2023-24

Academic Year : 2023-24

BoS Meeting Dates : 08-07-2023

Online Meeting Link : Offline

Minutes of BoS :

Minutes of the Meeting on Curriculum Design of R23 regulation on 08-07-2023:

The First External Board of Studies meeting has been completed for the Department of Internet of Things to frame the R23 course structure in Management's office Conference room on 08-07-2023.

External Board of Studies members are nominated from University, NIT, IIITDM, Industrialist and Alumni member.

The following are the discussions and suggestions made in the meeting:

1. The Committee suggested that DAC Nominee will check up the Vision & Mission.
2. Include more case studies and hands-on programmes for the students.
3. Credits in I year I semester and I year II semester has to be balanced to a total of 20 credits in each semester.
4. Mathematics subject needs 1 tutorial atleast to solve the numericals (LA&C)
5. Every subject and the corresponding lab must be in the same semester.
6. The Subject Functional English with credits-2 has to be kept in I year I semester along with Functional English Lab.
7. Principles of Electrical and Electronics should be shifted to semester-I
8. IoT subject have to placed in I year II semester.
9. IoT workshop a Lab and Principles of Electrical and Electronics Lab should be swapped.....
10. Subjects Analog Electronics and Electronic Instrumentation and Signal Conditioning can be moved to next higher semesters.
11. The subjects Signal Conditioning and Sensors, Acuators and Data Acquisition should be dealt in the same semester.
12. Subject Probability and Complex Analysis can be placed in the earlier semester.
13. Microcontrollers and Applications should be shifted to earlier semesters.
14. SCADA can be incorporated in DA
15. Include System Verilog based VLSI Lab as basic introduction to VLSI Lab in III year II Semester.
16. An idea of splitting the Artificial Intelligence and Machine Learning into two separate subjects with 5 units in each subject had also been discussed.

17. If the subjects AI & ML subjects are separated into two, they can be incorporated in Open Electives for all the branches of Engineering has been suggested by the members.
18. The committee strongly indicated to consider the NPTEL subjects to include as Electives.
19. The students from IoT branch has to go with ECE/CSE for GATE, M.TECH and competitive exams.
20. Gate Subjects can be kept under Open Electives.
21. FOG computing subject has to be shifted to the semester where Python subject is placed.
22. In Electives Microprocessor for IoT prototyping should be changed to MPMC.
23. MOOCS to be included as Professional Elective with 1 MOOC or 2 Professional electives (or) 2 MOOCs or 1Professional Elective in a semester.
24. The option to choose 2MOOCs out of 6 Professional Electives may also be given to the students.
25. Introduction to Smart Sensors subject in Open Elective-II can be incorporated to ECE branch also.
26. Security subjects like Cyber security/ IoT security should be included in course.
27. The concepts Smart Grid /SCADA should be incorporated to IoT students.
28. The representation of Textbooks and Reference books have to include Edition, Version and Volume sections.
29. The concepts of Hall Effect sensors, magnetic sensors and other widely used sensors should be incorporated.
30. Unit wise coverage is to be included at the end of the textbook representation.
31. In Principles of Electrical and Electronics Lab, the experiments 10,11,12 can be placed in the starting and experiments 12,13 can be combined as one experiment.
32. Norton and Thevenin's Theorem can be combined as one experiment in Principles of Electrical and Electronics Lab.
33. Millman's Theorem should also be included in Principles of Electrical and Electronics Lab.
34. Better to change the title of Unit-IV in Principles of Electrical and Electronics subject.
35. PIN diode may also be included in the syllabus.
36. The suggestion to not keep the BS Publications in textbooks is given the members.
37. The Concepts of Antenna Theory to be included at around Magnetic Materials or Principles of Communication Subjects.
38. The Zener Diode experiment title has to be edited in the form of V-I characteristics of Zener diode in Signal Processing Lab.
39. The member advised to develop IoT Component Workshop Lab and incorporate hands-on experiments.
40. They also suggested to incorporate with Drone Hub by NHRD, Tihan-IIT Hyderabad and build the experiments by conducting the Skill Development Programmes which can be funded by Tihan-IIT Hyderabad.
41. As per the given guidelines frame the Introduction to IoT subject by discussing with internal faculty.

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Curriculum Coordinator

BoS Chairman, IoT

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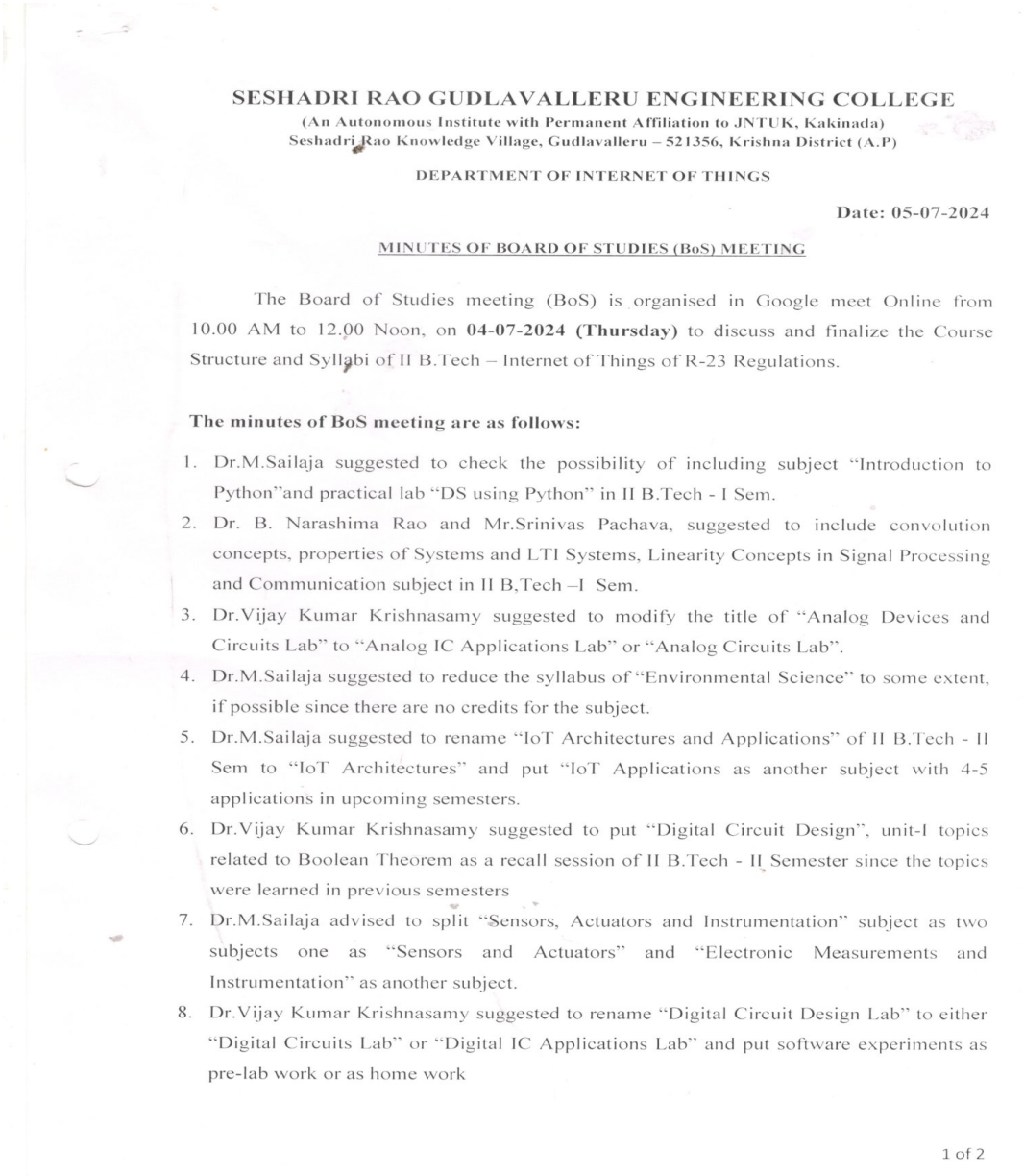
Details of BoS Meeting held from the Academic Year 2024-25

Academic Year : **2024-25**

BoS Meeting Dates : **04-07-2024**

Online Meeting Link : **https://tinyurl.com/bosiot23**

Minutes of BoS :



SESHADRI RAO GUDLAVALLERU ENGINEERING COLLEGE
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Seshadri Rao Knowledge Village, Gudlavalleru – 521356, Krishna District (A.P)

DEPARTMENT OF INTERNET OF THINGS

Date: 05-07-2024

MINUTES OF BOARD OF STUDIES (BoS) MEETING

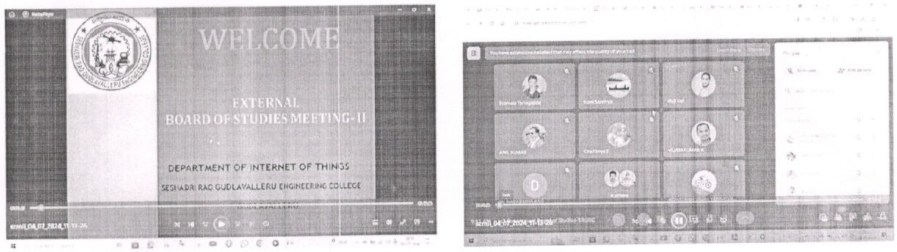
The Board of Studies meeting (BoS) is organised in Google meet Online from 10.00 AM to 12.00 Noon, on **04-07-2024 (Thursday)** to discuss and finalize the Course Structure and Syllabi of II B.Tech – Internet of Things of R-23 Regulations.

The minutes of BoS meeting are as follows:

1. Dr.M.Sailaja suggested to check the possibility of including subject "Introduction to Python"and practical lab "DS using Python" in II B.Tech - I Sem.
2. Dr. B. Narashima Rao and Mr.Srinivas Pachava, suggested to include convolution concepts, properties of Systems and LTI Systems, Linearity Concepts in Signal Processing and Communication subject in II B.Tech –I Sem.
3. Dr.Vijay Kumar Krishnasamy suggested to modify the title of "Analog Devices and Circuits Lab" to "Analog IC Applications Lab" or "Analog Circuits Lab".
4. Dr.M.Sailaja suggested to reduce the syllabus of "Environmental Science" to some extent, if possible since there are no credits for the subject.
5. Dr.M.Sailaja suggested to rename "IoT Architectures and Applications" of II B.Tech - II Sem to "IoT Architectures" and put "IoT Applications as another subject with 4-5 applications in upcoming semesters.
6. Dr.Vijay Kumar Krishnasamy suggested to put "Digital Circuit Design", unit-I topics related to Boolean Theorem as a recall session of II B.Tech - II Semester since the topics were learned in previous semesters
7. Dr.M.Sailaja advised to split "Sensors, Actuators and Instrumentation" subject as two subjects one as "Sensors and Actuators" and "Electronic Measurements and Instrumentation" as another subject.
8. Dr.Vijay Kumar Krishnasamy suggested to rename "Digital Circuit Design Lab" to either "Digital Circuits Lab" or "Digital IC Applications Lab" and put software experiments as pre-lab work or as home work

1 of 2

9. Syba Chaithanya Laksmi suggested to divide few experiments under verilog and few under HDL in Hardware Description Language Course
10. Dr.Vijay Kumar Krishnasamy suggested to include Micro processor and Micro controller in II-B.Tech with 4 credits before in corporating CAO Subject.
11. Dr.Vijay Kumar Krishnasamy suggested to cover Computer Networks and Embedded systems subjects in any of the semesters of II B.Tech.
12. Dr.M. Sailaja and Mr.Srinivas Pachava, suggested to plan more field visits for the students to improve Industrial practical exposure.



Some screen shots of the BoS Meeting.

(Dr. Y.Syamala)
8/7/24
BoS Chairman, IoT

SESHADRI RAO GUDLAVALLERU ENGINEERING COLLEGE

(An Autonomous Institute with Permanent Affiliation to JNTUK, Kakinada)
Seshadri Rao Knowledge Village, Gudlavalleru

Department of Internet of Things

Dt: 04-07-2024

External BoS Meeting – R23 Regulations – II B.Tech – I & II Sem

List of Attendees in Virtual Meeting – Google Meet

S.No.	Name of the Faculty	Role	Signature
1	Dr. Yarlagadda Syamala	BoS Chairman	
2	Dr. M.Sailaja	BoS Member	Online
3	Dr.Narasimha Rao Banavathu	BoS Member	Online
4	Dr.Vijaya Kumar Krishnasamy	BoS Member	Online
5	Ms.Syba Chaitanya Lakshmi	BoS Member	Online
6	Mr.Srinivas Pachava	BoS Member	Online
7	Dr. B. Rohith Bala Jaswanth	BoS Member	
8	Mr. Palaparthi Rama Krishna	BoS Member	
9	Mrs. Nekkanti Gowthami	BoS Member	
10	Mr. Kanna Anil Kumar	BoS Member	
11	Mr. Shaik Bajivali	BoS Member	
12	Mr. Konatham Veera Venkateswara Rao	BoS Member	
13	Mr. Chimakurthi Venkata Durga Ashok Kumar	BoS Member	
14	Mr. Sala Rajesh	BoS Member	
15	Ms. Kore Sandhya	BoS Member	
16	Mr. Nagubandi Balakrishna Chaitanya	BoS Member	N. chaitanya
17	Mrs. Desina Meenakshi Devi	BoS Member	D. Meenakshi Devi

Curriculam Coordinator

Head of the Department

SESHADRI RAO GUDLAVALLERU ENGINEERING COLLEGE

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Seshadri Rao Knowledge Village, Gudlavalleru – 521356, Krishna District (A.P)

Details of BoS Meeting held from the Academic Year 2025-26

Academic Year : **2025-26**

BoS Meeting Dates : **23-06-2025**

Online Meeting Link : **https://tinyurl.com/bosiot23**

Minutes of the Board of Studies (BoS) Meeting-II

A Board of Studies Meeting-II is conducted in virtual mode on 23-06-2025 in Google Meet This meeting plays a pivotal role in shaping and enhancing the academic quality and industry relevance of our undergraduate program. The BoS serves as an essential academic body that provides guidance on curriculum design, syllabi revision, academic regulations, and value-added programs, ensuring that the offerings align with the latest technological advancements and industry demands.

The distinguished academicians and industry experts gave their valuable insights and expertise. The contributions help to maintain academic rigor, enrich the course content, and bridge the gap between classroom learning and real-world applications.

1. BoS Experts Present:

S. No.	Name	Designation	Affiliation	Role
1	Dr. M. Sailaja	Professor of ECE	JNTUK, Kakinada	University Nominee
2	Dr. Narasimha Rao Banavathu	Assistant Professor, ECE	NIT AP, Tadepalligudem	Subject Expert
3	Dr. Vijaya Kumar Krishnasamy	Assistant Professor, ECE	IIIT-D&M, Kancheepuram	Subject Expert
4	Ms. Syba Chaitanya Lakshmi	Senior Design Engineer	Global Foundries, VLSI, Bangalore	Industry Expert
5	Mr. Srinivas Pachava	Lead Senior Engineer	Qualcomm, Hyderabad	Alumni Expert

2. Agenda of the Meeting:

S. No.	Agenda Item
1	To discuss on Vision, Mission, POs (Program Outcomes), and PSOs (Program Specific Outcomes) of the program.
2	To discuss and finalize the III B.Tech & IV B.Tech course structure of R23 Regulation.

S. No.	Agenda Item
3	To discuss and finalize the III B.Tech syllabi of R23 Regulation.
4	Any other matter with the permission of the chair.

3.List of BoS Internal Members – Department of Internet of Things

S. No.	Name	Designation/Role
1	Dr. Y. Syamala	BoS Chairman
2	Dr. D. Prabhakar	BoS Member
3	Dr. T. Subhashini	BoS Member
4	Dr. Rohith Bala Jaswanth B	Curriculum Coordinator & BoS Member
5	Dr. B. Naga Sireesha	BoS Member
6	Dr. T. Anand Babu	BoS Member
7	Mr. P. Rama Krishna	BoS Member
8	Mrs. N. Gowthami	BoS Member
9	Mr. K. Anil Kumar	BoS Member
10	Mr. Sk. Baji Vali	BoS Member
11	Mr. K. V. Venkateswara Rao	BoS Member
12	Mr. Ch. V. D. Ashok Kumar	BoS Member
13	Mr. Sala Rajesh	BoS Member
14	Ms. Kore Sandhya	BoS Member
15	Mr. N. B. K. Chaitanya	BoS Member
16	Mrs. D. Meenakshi Devi	BoS Member
17	Ms. P. Lakshmi Prasanna	BoS Member
18	Mr. I. Venu Babu	BoS Member

4. Proceedings

- The meeting commenced with a warm welcome by the Head of the Department.
- A brief report on the department's achievements, student performance, and initiatives since the last BoS meeting was presented.
- The proposed curriculum structure for III & IV B.Tech –I & II Semester, Internet of Things, including syllabus revisions and course objectives, outcomes was discussed in detail.
- Dr. M. Sailaja, the University Nominee, appreciated the curriculum design and recommended minor modifications to enhance alignment with JNTUK guidelines.
- Dr. Narasimha Rao Banavathu suggested combining the list of professional electives as a basket, such that the student will select the necessary electives from the basket with ease.
- He advised to integrate more hands-on sessions and IoT simulation tools to improve student engagement.
- Dr. Vijaya Kumar Krishnasamy recommended incorporating design thinking elements into project-based learning.
- Ms. Syba Chaitanya Lakshmi emphasized the inclusion of industry-relevant tools such as Cadence and Synopsys for students opting VLSI-focused IoT subjects.
- Mr. Srinivas Pachava suggested including ambient IoT concepts to better align with current trends in broader industry.

5. Resolutions Passed

1. The Vision, Mission, Pos, PSOs, and PEOs were approved by the BoS members.
2. The III & IV B.Tech-I & II Sems- IoT curriculum was approved with the suggested modifications.
3. Inclusion of the concepts of Ambient IoT in the syllabus is advised
4. New electives such as Digital Image and Computer Vision, Fog Computing, Augmented Reality and Virtual Reality were approved.
5. Industry collaborations for internships and guest lectures will be expanded.
6. The department will conduct a curriculum feedback and mapping exercise annually.
7. The NPTEL Swayam courses are suggested to be included compulsorily under 12 week MOOCs courses as decided already

6. Vote of Thanks

The meeting concluded with a vote of thanks by the Head of the Department, who expressed sincere gratitude to all the external and internal members for their valuable contributions and continued support in strengthening the academic quality and industry relevance of the program.

[Dr.Y.Syamala]
BoS Chairman, Department of Internet of Things
Seshadri Rao Gudlavalleru Engineering College,
Gudlavalleru

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SESHADRI RAO GUDLAVALLERU ENGINEERING COLLEGE

Seshadri Rao Knowledge Village : Gudlavalleru

Department of Internet of Things

External BoS Meeting - II - R 23 Regulations - III, IV B.Tech - I & II Sem

List of Attendees in Virtual Meeting - Google Meet

Dt: 23-06-2025

S.No.	Name of the Faculty	Role	Signature
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6	Mr. Srinivas Pachava	Bos Member	Online
7	Dr. D. Prabhakar	Bos Member	Online
8	Dr. T. Subhashini	Bos Member	Online
9	Dr. B.R.B Jaswanth	Bos Member	Online
10	Dr. B. Nagasirisha	Bos Member	Online
11	Dr. Ananda Babu T	Bos Member	Online
12	Mr.P. Ramakrishna	Bos Member	Online
13	Mrs. N. Gowthami	Bos Member	Online
14	Mr. K. Anil Kumar	Bos Member	Online
15	Mr. Shaik Bajivali	Bos Member	Online
16	Mr. K.V. Venkateswararao	Bos Member	Online
17	Mr.CH.V.D.Ashok Kumar	Bos Member	Online
18	Mr.Sala Rajesh	Bos Member	Online
19	Ms.Kore Sandhya	Bos Member	Online
20	Mr.Nagubandi Balakrishna Chaitanya	Bos Member	Online
21	Mrs.D.Meenakshi Devi	Bos Member	Online
22	Mrs.P.Lakshmi Prasanna	Bos Member	Online
23	Mr.I.Venubabu	Bos Member	Online

Curriculum Coordinator

Head of the Department

SESHADRI RAO GUDLAVALLERU ENGINEERING COLLEGE
Department of Internet of Things

Date: 23-06-2025 Time: 02:00PM to 04:00PM

Venue: Online-Google Meet

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2. Agenda of the Meeting:

S. No.	Agenda Item
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2	To discuss and finalize the III B.Tech & IV B.Tech course structure of R23 Regulation.
3	To discuss and finalize the III B.Tech syllabi of R23 Regulation.
4	Any other matter with the permission of the chair.

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Y. Syamala

[Dr.Y.Syamala]
BoS Chairman, Department of Internet of Things
Seshadri Rao Gudlavalleru Engineering College,
Gudlavalleru

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SESHADRI RAO GUDLAVALLERU ENGINEERING COLLEGE

Department of Internet of Things

Date: 16-04-2026 **Time: 10:00-11:00 AM**

Venue: Online - http://tiny.cc/R23BOSIOT

Minutes of the External Board of Studies (BoS) Meeting

A Board of Studies Meeting – III is conducted in virtual mode on 16-04-2026 in Microsoft Teams. This meeting plays a pivotal role in shaping and enhancing the academic quality and industrial relevance of our undergraduate program. The BoS serves as essential academic body that provides guidance on curriculum design, syllabi revision, academic regulations, ensuring that the offerings align with the latest technological advancements and industry demands.

The distinguished academicians and industry experts gave their valuable insights and expertise. The contributions help to maintain academic rigor, enrich the course content, and bridge the gap between class room learning and real-world applications.

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3	Dr. Vijaya Kumar Krishnaswamy	Assistant Professor, ECE	IIITD&M Kancheepuram	Subject Expert
4	Ms. Syba Chaitanya Lakshmi	Senior Design Engineer	Global Foundries, Bangalore	Industry Expert
5	Mr. Srinivas Pachava	Lead Senior Engineer	Qualcomm, Hyderabad	Alumni Expert

2. Agenda of the Meeting:

S.No	Agenda Item
1	To discuss and finalize the IV B.Tech. Course Structure of R23 Regulations.
2	To discuss and finalize the IV B.Tech. Syllabi of R23 regulations.
3	Any other matter with the permission of the chair.

3. List of BoS Internal Members – Department of Internet of Things

S.No.	Name	Designation/Role
1	Dr. Y. Syamala	BoS Chairman
2	Dr. D. Prabhakar	BoS Member
3	Dr. T. Subhashini	BoS Member
4	Dr. B.R.B Jaswanth	BoS Member
5	Dr. B. Nagasirisha	BoS Member
6	Dr. Ananda Babu T	BoS Member
7	Mr. P. Ramakrishna	BoS Member
8	Mrs. N. Gowthami	BoS Member
9	Mr. K. Anil Kumar	BoS Member
10	Mr. Shaik Bajivali	BoS Member
11	Mr. K.V. Venkateswara Rao	BoS Member
12	Mr. CH. V. D. Ashok Kumar	BoS Member
13	Mr. Sala Rajesh	BoS Member
14	Ms. Kore Sandhya	BoS Member
15	Mr. Nagubandi Balakrishna Chaitanya	BoS Member
16	Mrs. D. Meenakshi Devi	BoS Member
17	Mr. I. Venubabu	BoS Member
18	Mrs. Anusha K.	BoS Member

4. Proceedings of the Meeting

The meeting commenced with the Chairperson welcoming all the members. The agenda focused on IV Year B.Tech IoT course structure and identifying areas for improvement to align with current technological advancements and industry requirements.

Key Discussions:

- The relevance and clarity of course titles were examined, particularly in emerging domains of IoT.
- The need for incorporating industry-oriented content, especially in communication systems and industrial applications, was emphasized.

- Members highlighted the importance of practical exposure through laboratory components.
- Emerging technologies such as FPGA, CPLD, FinFET, and satellite-based IoT communication were discussed for inclusion.
- Suggestions were made to revise specific units in the syllabus to enhance depth, clarity, and modern relevance.

5. Resolutions Passed

After detailed deliberations, the Board resolved the following:

1. Course Title Revisions
   - The course "Brain Computer Interface" shall be replaced with "Healthcare in IoT" to improve domain relevance.
   - The course "Communication Technology in IoT" shall be renamed to a more appropriate title with emphasis on antenna and communication systems.

2. Syllabus Enhancements
   - The syllabus of Communication Systems for IoT shall be updated to include:
     - Digital modulation techniques (ASK, PSK)
     - Bit Error Rate (BER) analysis
   - Unit–IV of the concerned course shall be restructured for better coherence and applicability.
   - Unit–V in VLSI System Design shall be revised to include advanced and contemporary topics.

3. Inclusion of Advanced Technologies
   - The curriculum shall incorporate:
     - CPLD and FPGA architectures
     - Advanced FET technologies, including FinFET
   - Emphasis shall be given to Narrowband IoT (NB-IoT) and its implementation using:
     - LEO (Low Earth Orbit) satellites
     - GEO (Geostationary Orbit) satellites

4. Industrial and Application-Oriented Content
   - The Industrial IoT (Open Elective) course shall be enhanced to include industrial systems and real-world applications.
   - IoT applications in satellite communication shall be explicitly covered.
   - Design aspects of hybrid IoT systems, integrating terrestrial and satellite communication, shall be included.

5. Laboratory Component

- A laboratory course shall be introduced to provide hands-on experience in:
- IoT communication systems
- FPGA/CPLD-based design
- Practical implementation of IoT applications

6. Vote of Thanks

The meeting concluded with a consensus that the revised curriculum will significantly enhance the technical depth, industry relevance, and practical orientation of the IoT program. The Board approved the above resolutions for implementation from the upcoming academic year.

Curriculum Coordinator

Head of the Department