BoS Agenda Items June 2024

Item 1	To confirm the minutes of previous BoS meeting held in the month of December 2023. **The minutes of previous BOS held on 29 Nov 2023 has been finalized.**
Item 2	To review and finalize the **scheme structure of B.Tech. VII Semester** with the provision of *Three (03) Departmental Electives (DEs) and Open Category (OC) Course.* **(Out of which One (01) Elective and o1 Open category course is to be offered in traditional mode** and **remaining Two (02) Departmental Electives are to be offered in online mode** with credit transfer **for the batch admitted in 2021-22**. **Scheme Structure of B.Tech VII Semester with provision of Three Departmental Electives and One Open Category courses has been discussed and finalized.** **AnnexureI**
Item 3	To propose the list of courses which the students can opt from SWAYAM/NPTEL/MOOC based Platforms, to be offered in **online mode for Two (02) Departmental Electives** (DE) Course, with credit transfer in the B.Tech. VII Semester under the flexible curriculum (Batch admitted in 2021-22). **The list of course which the students can opt from SWAYAM/NPTEL/MOOC based platforms, to be offered in online mode under department elective (DE) course, with credit transfer in the VII Semester under the flexible curriculum has been discussed and finalized. AnnexureII**

S.No	Category Code	Course Code	Name of The course
1	DE-III	200754	Microwave Engineering
2		200755	An Introduction to Coding Theory
3	DE-IV	200756	Fundamentals of Nano and Quantum Photonics
4		200762	Fiber Optic Communication Technology
5		200763	Pattern Recognition and Applications
6		200764	Simulation of Communication Systems using MATLAB

Item 4	To prepare and finalize the syllabus of courses to be offered (*for batch admitted in 2021-22*)under *Departmental Elective (DE) Course* (in traditional mode) for B. Tech. *VII Semester* along with their COs . **Following subjects have been finalized as Departmental Electives to be offered through traditional teaching mode and the syllabi are given in AnnexureIII**

S. No	Category	Subject Code	Subject Name
1	DE-II	200711	**Satellite & Radar Communication**
2	DE-II	200715	**Embedded Systems Design**
3	DE-II	200716	**Telecommunication Switching and Network**

Item 5	To prepare and finalize the syllabus of courses to be offered (**for batch admitted in 2021-22**) under the **Open Category (OC) Courses** (in traditional mode) for B.Tech. VII semester students of other departments along with their Cos **The syllabus of courses to be offered (*for batch admitted in 2021-22*) under the *Open Category (OC) Courses* (in 20 traditional modes) for B.Tech. *VII semester* students of other departments along with their COs has been discussed and finalized. AnnexureIV**

S. No	Category	Subject Code	Subject Name
1	OC-II	910218	Mobile Communication and 5G Standard
2	OC-II	910217	Consumer Electronics

Item 6	To review and finalize the Experiment list/ Lab manual for Departmental Laboratory Course (DLC) to be offered in B. Tech. VII semester (*for batches admitted in 2021-22*). **The Experiment list/ Lab manual for Departmental Laboratory Course (DLC) to be offered in B.Tech. VII semester has been finalized and approved by BOS members AnnexureV**

S. No	Category	Subject Code	Subject Name
1	DLC	200703	Creative Problem Solving
2	DLC	200704	Embedded Systems Design

Item 7

To propose the list of "Additional Courses" which can be opted for getting an

(i)   Honours (for students of the host department)
(ii)   Minor Specialization (for students of other departments)

These courses will be offered through SWAYAM/NPTEL/MOOC based Platforms for the B.Tech. VII semester students (for the batch admitted in 2021-22) and for B.Tech. V semester (for the batch admitted in 2022-23)
AnnexureVI

Semester	Hons/Minor	Domain	Subject Name
V	Honors	Communication and Signal Processing	1.Principles and Techniques of Modern Radar Systems 2.Stochastic Control & Communication
		VLSI Design	1. Hardware modeling using Verilog 2. Analog VLSI Design
		Nano-Technology	1. Nano-Technology, Science and Application 2. Microelectronics: Devices to Circuits
	Minors	Control & Sensor Technology	1. Control System
		Communication and Signal Processing	1. Introduction to Wireless and Cellular Communications
VII	Honors	Communication and Signal Processing	1. Introduction To Adaptive Signal Processing 2. Stochastic Control & Communication

		VLSI Design	1. VLSI Interconnects 2. Analog VLSI Design 3. VLSI Design flow(RTL to GDS)
	Minors	Control & Sensor Technology	1. Design of Photovoltaic Systems
		Communication and Signal Processing	1. Microwave Engineering

Item 8	To review and finalize the *scheme structure of B.Tech. V Semester under* the flexible curriculum (*Batch admitted in 2022-23*). **The scheme structure of B.Tech. V Semester under the flexible curriculum (Batch admitted in 2022-23) has been discussed and finalized. AnnexureVII**

| Item 9 | To review and finalize the syllabi for all *Departmental Core (DC) Courses* of B. Tech. *V Semester (for b*atch admitted in 2022-23) under the flexible curriculum along with their COs.

The syllabi for all Departmental Core (DC) Courses of B.Tech. V Semester (for batch admitted in 2022-23) under the flexible curriculum along with their COs has been discussed and finalized. AnnexureVIII |

S.No	Category	Subject Code	Subject Name
1	DC	2200511	Data Science
2		2200512	Mobile Communication & 5G Network
3		2200515	VLSI Design
4		2200519	Electromagnetic Theory
		2200520	Digital Signal Processing

| Item 10 | To review and recommend the Experiment list/ Lab manual for all the Laboratory Courses to be offered in B. Tech. *V Semester (for b*atch admitted in 2022-23).
The Experiment list/ Lab manual for all the Laboratory Courses to be offered in B.Tech.V semester **(for batch admitted in 2022-23) has been discussed and finalized. AnnexureIX** |

S. No	Category	Subject Code	Subject Name
1	DC	2200511	Data Science
2	DC	2200512	VLSI Lab
3	DLC	2200516	Minor Project-I

Item 11	To review and recommend the list of projects which can be assigned under the 'Skill based mini-project' category in various laboratory components based courses to be offered in B.Tech. **V Semester** (*for the batch admitted in* 2022-23). The skill based mini projects for various laboratory courses to be offered in V semester has been discussed and finalized. **AnnexureX**

Item 12	To propose the list of courses from SWAYAM/NPTEL/MOOC Platforms to be offered (*for batch admitted in 2022-23*) in online mode under *Self-Learning/ Presentation*, in the B.Tech. *V Semester.* The list of courses from SWAYAM/NPTEL/MOOC Platforms to be offered (*for batch admitted in 2022-23)* in online mode under *Self-Learning/ Presentation*, in the B.Tech. *V Semester* has been discussed and finalized. **AnnexureXI**

S. No	Semester	Subject Category	Subject Name	Duration (weeks)
1	V	Self Learning	**Demystifying Networks**	04
2			**Basics of Software defined Radios and Practical applications**	04
3			**Foundation of Cognitive robotics**	04

Item 13	To review and finalize the *scheme structure of B.Tech. III Semester under* the flexible curriculum (*Batch admitted in 2023-24*). **The scheme structure of B.Tech. III Semester under the flexible curriculum (Batch admitted in 2023-24) has been discussed and finalized. AnnexureXII**

Item 14

To review and finalize the syllabi for all Departmental Core (DC) Courses of *B. Tech. III Semester* (for **batch admitted in 2023-24**) under the flexible curriculum along with their COs.
 The syllabi for all Departmental Core (DC) Courses of B.Tech. III Semester (for batch
 admitted in 2023-24) under the flexible curriculum along with their COs has been discussed
 and finalized
AnnexureXIII

S. No	Category	Subject Code	Subject Name
1	DC	3200320	Analog Communication
2		3200322	Analog Integrated Circuits
3		3200323	Communication Networks
4		3200324	Data Communication

Item 15

To review and recommend the list of experiments and skill-based mini projects of *B.Tech. III semester* (for **batch admitted in 2023-24**) .

The Experiment list/ Lab manual for all the Laboratory Courses to be offered in B.Tech.III semester (for batch admitted in 2023-24) has been discussed and finalized. **AnnexureXIV**

S. No	Category	Subject Code	Subject Name
1	DC	3200320	Analog Communication
2		3200322	Analog Integrated Circuits
3		3200321	Hardware Lab

Item 16	To propose the list of courses from SWAYAM/NPTEL/MOOC Platforms to be offered in the *B.Tech .III Semester (for batches admitted in 2023-24)* in online mode under *Self-Learning/ Presentation.* **AnnexureXV**

S. No	Semester	Subject Category	Subject Name	Duration (weeks)
1	III	Self Learning	C Programming and Assembly language	04
2			Fundamentals of Electronics Device Fabrication	04
3			Python for Data Science	04

Item 19	To review and recommend the *Scheme structure &Syllabi* of **PG Programme** (M.E./M.Tech./MCA/MBA) along with their Course Outcomes (COs). **Not applicable**
Item 20	To review and recommend the *Scheme structure and Syllabus* of **Ph.D. Course Work** (specific to Doctoral Research Scholars, if any). **Not applicable**
Item 21	To review the CO attainments, to identify gaps and to suggest corrective measures for the improvement in the CO attainment levels for all the courses taught during **July-Dec 2023 session**. https://shorturl.at/3yYgi The review of the CO attainments, gaps and corrective measures for the improvement in the CO attainment for the courses taught in July-December 2023 has been finalized as per the discussion with BOS members.
Item 22	To review the PO attainments levels and suggest the actions to be taken for improvement in PO attainment https://shorturl.at/Sgw4O The PO attainment of 2019-2023 batch with attainments level and gap analysis has been discussed and finalized.
Item 23	To review and finalize the CO-PO mapping matrix for all the courses to be taught in July-Dec 2024. https://shorturl.at/Jorip CO-PO mapping matrix with attainments and gap analysis has been discussed and finalized.
Item 24	To review curricula feedback from various stakeholders, its analysis and impact https://shorturl.at/1Zsnk Curricula feedback from various stackholders includes students, faculty, employer and alumni has been discussed and action taken report has been finalized.
Item 25	Any other matter

The following suggestions were provided by the external BOS members:

1. **As per the suggestion given by external members, syllabus of Digital Signal Processing has been modified**
2. **As suggested by the external member, the list of experiments of Creative Problem Solving and Embedded System Design Lab has been modified.**