St. PETER'S INSTITUTE OF HIGHER EDUCATION AND RESEARCH

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AVADI, CHENNAI – 600 054.

MINUTES OF THE 22nd MEETING OF THE BOARD OF STUDIES IN

ELECTRONICS AND COMMUNICATION ENGINEERING (ECE)

Held on 26.02.2021 **(Online mode)**

Members Present

S.No	Name	Designation	Member
1.	Dr. G.P. Ramesh	Professor & Head	Chairman
2.	Dr.J.M.Mathana	Professor & Dean	Member
3.	Ms. T. Anne Ramya	Assistant Professor	Member
4.	Ms. R. Gomathi	Assistant Professor	Member
5.	Ms.R.Nirmala	Assistant Professor	Member
6.	Dr. C. Tharini	Professor & Head B.S.Abdur Rahman Crescent Institute of Science & Technology	Academic Expert Member
7.	Mr. V. S. Ramesh	Director – STEPS Knowledge Services Pvt Ltd Authorized Partner Texas Instruments India University Program	Industry Expert Member

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HEAD
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22.1 Considered the minutes of the 21st meeting of Board of Studies in Electronics and Communication Engineering held on 24.02.2020

RESOLVED that the minutes of the 21st meeting of Board of Studies in Electronics and Communication Engineering held on 24.02.2020 be confirmed.

22.2 Reviewed the Syllabi of VII & VIII semester of B.E. (Electronics and Communication Engineering) under the Regulations 2018 with Choice Based Credit System (CBCS).

RESOLVED that the Syllabi of VII & VIII semester of B.E. (Electronics and Communication Engineering) under the Regulations 2018 with Choice Based Credit System (CBCS) from the batch of students to be admitted from 2018-19 to be approved.(Appendix – I)

RESOLVED to include new elective courses, 518BMT13 - Medical Electronics & 518CST07 - Cyber Security Fundamentals in V semester from the batch of students to be admitted from 2019-20 under the Regulation 2018 to be approved. (Appendix – II)

22.3 Reviewed the Syllabus of III & IV semester of B.E. (Electronics and Communication Engineering) under the Regulations 2020.

RESOLVED that the Syllabi of III & IV semester of B.E. (Electronics and Communication Engineering) under the Regulations 2020 with Choice Based Credit System (CBCS) from the batch of students to be admitted from 2018-19 to be approved. (Appendix – III)

22.4 Considered the new Regulation and syllabi of I & II semesters of M.E (communication Systems) programme from the batch of students to be admitted from 2021-22 under the Regulations 2021 with Choice Based Credit System (CBCS).

RESOLVED that the new Regulation and syllabi of I & II semesters of M.E. (Communication Systems) programme from the batch of students to be admitted from 2021-22 under the Regulations 2021 with Choice Based Credit System (CBCS) be approved. (Appendix – IV)

22.5 Considered to include courses having focus on employability/ entrepreneurship /skill development in the syllabi of B.E (ECE) under the Regulations 2018 & Regulation 2020 and M.E (communication Systems) under the Regulations 2021.

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RESOLVED that the courses having focus on employability/ entrepreneurship /skill development year wise in the syllabi of B.E (ECE) under the Regulations 2018 & Regulation 2020 and M.E (communication Systems) under the Regulations 2021 to be approved.

22.6 Reviewed the curricula developed having relevance to the local/national/regional/global developmental needs with learning objectives including programme outcomes, program specific outcomes and course outcomes of all the programmes.

RESOLVED that the syllabi of B.E (ECE) programme under the Regulations 2018 & 2020 and M.E (communication Systems) under the Regulations 2021 developed having relevance to the local/national/regional/global developmental needs with learning objectives including programme outcomes, program specific outcomes and course outcomes of all the programmes be approved.

22.7 Reviewed and considered the curriculum feedback analysis and action taken report based on the suggestions given by the stake holders.

Resolved that the curriculum feedback analysis and action taken report based on the suggestions given by the stake holders to be approved. (Appendix – V).

Date: 26.02.2021

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Appendix – I

B.E. (ELECTRONICS AND COMMUNICATION ENGINEERING)

REGULATION 2018

CHOICE BASED CREIDIT SYSTEMS

VII SEMESTER

Code No.	Course Title	L	T	P	C	Marks		
						CA	EA	Total
718ECT01	RF and Microwave Engineering	3	0	0	3	25	75	100
718ECT02	Optical Communication	3	0	0	3	25	75	100
718ECT03	Wireless Communication	3	0	0	3	25	75	100
	ProgramElective4	3	0	0	3	25	75	100
	ProgramElective5	3	0	0	3	25	75	100
718ECP01	RF circuit & Antennas Design Lab	0	0	2	2	25	75	100
718ECP02	Optical & Microwave Lab	0	0	2	2	25	75	100
718ECP03	ProjectStage-1	0	0	0	3	25	75	100
Total		**15**	**0**	**4**	**22**	**200**	**600**	**800**

VIII SEMESTER

Code No.	Course Title	L	T	P	C	Marks		
						CA	EA	Total
-	ProgramElective6	3	0	0	3	25	75	100
-	Openelective-2	3	0	0	3	25	75	100
818ECP01	ProjectStage-2	0	0	0	7	25	75	100
Total		**6**	**0**	**0**	**13**	**75**	**225**	**300**

Overall percentage change for B.E (Electronics and Communication Engineering):51.61 %

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Appendix – III

B.E. (ELECTRONICS AND COMMUNICATION ENGINEERING)

REGULATION 2020

CHOICE BASED CREIDIT SYSTEMS

III SEMESTER

Code No.	Course Title	L	T	P	Credit	Marks		
						CA	EA	Total
Theory & Practical								
AMAT2103	Mathematics-III	3	1	0	4	40	60	100
AECT2101	Electronic Devices	3	0	0	3	40	60	100
AECT2102	Digital System Design	3	0	0	3	40	60	100
AECT2103	Signals and Systems	3	0	0	3	40	60	100
AECT2104	Network Theory	3	0	0	3	40	60	100
AECT2105	Internet of Things – Overview and its Application	3	0	0	3	40	60	100
AECL2101	Electronic Devices Laboratory	0	0	4	2	40	60	100
AECL2102	Digital System Design Laboratory	0	0	4	2	40	60	100
ASSL2102	Soft Skills	0	0	2	1	100	0	100
	Total	**18**	**1**	**10**	**24**	**420**	**480**	**900**

IV SEMESTER

Code No.	Course Title	L	T	P	Credit	Marks		
						CA	EA	Total
Theory & Practical								
AEET3109	Control Systems	2	1	0	3	40	60	100
AECT2106	Electronic circuits	3	0	0	3	40	60	100
AECT2107	Microprocessor and Microcontroller	3	0	0	3	40	60	100
AECT2108	Linear Integrated Circuits	3	0	0	3	40	60	100
AECT2109	Communication Networks	2	0	0	2	40	60	100
AECL2103	Circuits Design and Simulation Laboratory	0	0	4	2	40	60	100
AECL2104	Microprocessor and Microcontroller Laboratory	0	0	4	2	40	60	100
AECL2105	Linear Integrated Circuits Laboratory	0	0	4	2	40	60	100
AECI2101	Internship-1	0	0	0	2	100	0	100
ASSL2103	Soft Skills	0	0	2	1	100	0	100
	Total	**13**	**1**	**14**	**23**	**520**	**480**	**1000**

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NEW COURSES FOR THE ACADEMIC YEAR 2021-2022

B.E. – ELECTRONICS AND COMMUNICATION ENGINEERING

S.No	Programme Code	Programme Name	Course Code	Name of the Course
1	ECU	B.E. - Electronics and Communication Engineering	AECT2101	ELECTRONICS DEVICES
2	ECU	B.E. - Electronics and Communication Engineering	AECT2103	SIGNALS & SYSTEM
3	ECU	B.E. - Electronics and Communication Engineering	AECT2104	NETWORK THEORY
4	ECU	B.E. - Electronics and Communication Engineering	AECT2105	INTERNET OF THINGS – OVERVIEW & ITS APPLICATION
5	ECU	B.E. - Electronics and Communication Engineering	AECL2101	ELECTRONIC DEVICES LAB
6	ECU	B.E. - Electronics and Communication Engineering	AEET3109	CONTROL SYSTEMS
7	ECU	B.E. - Electronics and Communication Engineering	AECT2106	ELECTRONIC CIRCUITS
8	ECU	B.E. - Electronics and Communication Engineering	AECT2108	LINEAR INTEGRATED CIRCUITS
9	ECU	B.E. - Electronics and Communication Engineering	AECT2109	COMMUNICATION NETWORKS
10	ECU	B.E. - Electronics and Communication Engineering	AECL2103	CIRCUITS DESIGN AND SIMULATION LAB
11	ECU	B.E. - Electronics and Communication Engineering	AECL2104	MICROPROCESSOR AND MICROCONTROLLER LAB
12	ECU	B.E. - Electronics and Communication Engineering	AECL2105	LINEAR INTEGRATED CIRCUITS LAB
13	ECU	B.E. - Electronics and Communication Engineering	AECI2101	INTERNSHIP-1
14	ECU	B.E. - Electronics and Communication Engineering	718ECT01	RF AND MICROWAVE ENGINEERING
15	ECU	B.E. - Electronics and Communication Engineering	718ECT02	OPTICAL COMMUNICATION
16	ECU	B.E. - Electronics and Communication Engineering	718ECT03	WIRELESS COMMUNICATION
17	ECU	B.E. - Electronics and Communication Engineering	818ECT03	COGNITIVE RADIO
18	ECU	B.E. - Electronics and Communication Engineering	718ECP01	RF CIRCUIT & ANTENNAS DESIGN LAB
19	ECU	B.E. - Electronics and Communication Engineering	718ECP03	PROJECT STAGE-1
20	ECU	B.E. - Electronics and Communication Engineering	718ECP02	OPTICAL AND MICROWAVE LABORATORY

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21	ECU	B.E. - Electronics and Communication Engineering	818EET04	ROBOTICS SYSTEM
22	ECU	B.E. - Electronics and Communication Engineering	818ECP01	PROJECT STAGE - 2
23	ECU	B.E. - Electronics and Communication Engineering	AECT3113	ANALOG AND DIGITAL COMMUNICATION

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Appendix – IV

M.E. (COMMUNICATION SYSTEMS)

REGULATION 2021

CHOICE BASED CREIDIT SYSTEMS

I SEMESTER

Code No.	Course Title	L	T	P	Credit	Marks		
						CA	EA	Total
Theory & Practical								
ACEPT1101	Applied Mathematics for Electronics and Communication Engineers	3	1	0	4	40	60	100
ACEPT1102	Advanced Radiation systems	3	0	0	3	40	60	100
ACEPT1103	Advanced Digital Communication Techniques	3	0	0	3	40	60	100
ACEPT1104	Advanced Digital signal processing	3	1	0	4	40	60	100
ACEPT1105	Optical Communication Networks	3	0	0	3	40	60	100
	ProgrammeElective-1	3	0	0	3	40	60	100
ACEPP1101	Communication System Lab –I	0	0	4	2	40	60	100
	Total	**18**	**2**	**4**	**22**	**280**	**420**	**700**

II SEMESTER

Code No.	Course Title	L	T	P	Credit	Marks		
						CA	EA	Total
Theory & Practical								
ACEPT2101	Wireless Mobile Communication	3	0	0	3	40	60	100
ACEPT2102	RF and Microwave System Design	3	1	0	4	40	60	100
ACEPT2103	MIMO OFDM Systems	3	0	0	3	40	60	100
	ProgrammeElective-2	3	0	0	3	40	60	100
	ProgrammeElective-3	3	0	0	3	40	60	100
	InstituteElective-1	3	0	0	3	40	60	100
ACEPP2101	Communication System Lab –II	0	0	4	2	40	60	100
	Total	**18**	**1**	**4**	**21**	**280**	**420**	**700**

Overall percentage change for M.E (Communication Systems): 79.16%

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NEW COURSES FOR THE ACADEMIC YEAR 2021-2022

M.E. – COMMUNICATION SYSTEM

S.No	Programme Code	Programme Name	Course Code	Name of the Course
1	COP	M.E. - Communication System	ACEPT1101	APPLIED MATHEMATICS FOR ELECTRONICS AND COMMUNICATION ENGINEERS
2	COP	M.E. - Communication System	ACEPT1102	ADVANCED RADIATION SYSTEMS
3	COP	M.E. - Communication System	ACEPT1103	ADVANCED DIGITAL COMMUNICATION TECHNIQUES
4	COP	M.E. - Communication System	ACEPT1104	ADVANCED DIGITAL SIGNAL PROCESSING
5	COP	M.E. - Communication System	ACEPT1105	OPTICAL COMMUNICATION NETWORKS
6	COP	M.E. - Communication System	ACEPT1106	ADVANCED SATELLITE SYSTEMS
7	COP	M.E. - Communication System	ACEPT1108	EMBEDDED AND REAL TIME OPERATING SYSTEMS
8	COP	M.E. - Communication System	ACEPP1101	COMMUNICATION SYSTEM LAB – I
9	COP	M.E. - Communication System	ACEPT2101	WIRELESS MOBILE COMMUNICATION
10	COP	M.E. - Communication System	ACEPT2102	RF AND MICROWAVE SYSTEM DESIGN
11	COP	M.E. - Communication System	ACEPT2103	MIMO OFDM SYSTEMS
12	COP	M.E. - Communication System	ACEPT2104	ADVANCED RADAR AND NAVIGATIONAL AIDS
13	COP	M.E. - Communication System	ACEPT2105	COMMUNICATION NETWORK SECURITY
14	COP	M.E. - Communication System	ACEPT2110	ADVANCED DIGITAL IMAGE PROCESSING
15	COP	M.E. - Communication System	ACEPT2111	COMMUNICATION PROTOCOL ENGINEERING
16	COP	M.E. - Communication System	ACEPT2112	ELECTROMAGNETIC METAMATERIALS
17	COP	M.E. - Communication System	ACEPT2108	SMART ANTENNAS
18	COP	M.E. - Communication System	ACEPT2114	PATTERN RECOGNITION AND MACHINE LEARNING
19	COP	M.E. - Communication System	ACEPP2101	COMMUNICATION SYSTEM LAB – II

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Appendix -V

ACTION TAKEN REPORT ON STAKEHOLDERS FEEDBACK

2019-2020

Stakeholder	Feedback	Recommendation	Action taken
Student	Content of syllabi needs enhancement in terms of quality	Subsequent application by teachers was observed and efforts were effective	All the teachers were notified about the issue and they were encouraged and enriched the curriculum with more appropriate teaching-learning methods and techniques.
Teacher	Teachers should have the freedom to adopt innovative techniques/strategies of teaching such as seminar presentations, group discussions etc.	Teachers paid more attention to have more on innovative techniques and strategies for teaching	The details of the feedback were received by the department and appropriate awareness was created. Teachers were encouraged to adopt more innovative techniques and strategies for teaching
Alumni	More exposure to field visits in curriculum	Teachers paid more attention to have more field visits and thus gave exposure tostudents for field visits.	All the teachers were notified about the issue and they were encourages to have more field visits as a part of their curriculum
Parents	Practical Knowledge to be imparted which will help them to face real life situations.	More attention for practical session	Mini- Project models and individual presentations by students in the institution were encouraged for participating in competitions organized by other institutionswere facilitated
Employer	Faculty-student interaction may be enhanced	Learning management System through interactive	Smart Class rooms, Video conferencing etc was made effective by use of ICT

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