Department of Electronics and Communication Engineering

JUIT Waknaghat

A meeting of Board of Studies of the Department of Electronics and Communication Engineering was held on 18-11-2021 at 10:00 AM in online mode.

The following members were present

1.	Prof. Samir Dev Gupta	Dean Academics
2.	Dr. Rajiv Kumar	Chairman
3.	Prof. D. Ghosh	External Member
4.	Prof. C.C. Tripathi	External Member
5.	Dr. Balwinder Singh	External Member
6.	Dr. Shruti Jain	Member Secretary
7.	Dr. Shweta Pandit	Member
8.	Dr. Salman Raju	Member
9.	Dr. Sunil Datt Sharma	Member
10.	Dr. Vikas Baghel	Member
11.	Dr. Naveen Jaglan	ECE Department
12.	Dr. Alok Kumar	ECE Department
13.	Mr. Pardeep Garg	ECE Department
14.	Mr. Munish Sood	ECE Department
15.	Mr. Anuj Maurya	ECE Department
16.	Mr. Pankaj Kumar	ECE Department
17.	Prof. Karanjeet Singh	HoD, Mathematics Department
18.	Prof. Ashish Kumar	HoD, Civil Engineering Department
19.	Prof. Vivek Sehgal	HoD, CSE & IT Department
20.	Dr. Anil Kant	Representative BT& BI Department
21.	Mr. Abhishek Kumar	Co-opted Member for online issue

Leave of absence:

Leave of absence was granted to the Prof. Ashok Gupta, Dean Academics and Research by the Chairman Board of Studies.

The Chairman welcomed all the members who were present for the meeting. The meeting was thereafter deliberated by Dr. Shruti Jain on agenda items as had been approved by the Chairman.

Item No. 1: To approve the minutes of last meeting of the BoS held on July 23, 2021.

Dr. Shruti Jain has presented the last minutes of meeting which was approved in the last BoS.

The minutes of the last BoS meeting were approved by the BoS members.

Item No. 2: To consider the revision in the course scheme of ECE Minor Program.

In the existing ECE minor programme, Modern analogue and Digital Communication, Advanced Communication Lab, Wireless and Data Communication and Internet of Things are proposed as compulsory courses along with Digital Electronics and Logic Design, Digital Electronics and Logic Design Lab, and Microprocessor and Interfacing. In the new revised structure, Modern analogue and Digital Communication, Advanced Communication Lab, Wireless and Data Communication and Internet of Things are dropped as compulsory courses and in their place, electives have been introduced. These electives have been categorized in to four buckets. This modification has been done by considering the feedback from the students and faculty members.

To this modification, Prof. C.C Tripathi sir has suggested to keep a documentary record for the reason to modify the existing curriculum as these documents can be asked / required by the rating agencies like NBA and NAAC. Also, Dr. Tripathi has suggested going for SWAYAM / MooCs courses. Dr. Shruti said that our university also emphasises on MooC's courses. Students can opt elective from the university or any MooC's course.

All the changes in the minor courses were added as *Annexure I*.

Approved.

Item No. 3 : To consider the addition of new Open Electives in 8th semester in ECE curriculum for 2018 batch.

In order to improve the skill/knowledge of students depending on the market scenario, six open electives have been introduced. They are namely, Python for Data Science and Machine Learning, Digital Image Processing using Python, Renewable Energy Systems, Biomedical Imaging System, Introduction to Graph Theory, Machine learning with its applications. To this, Dean Academics suggested to introduce the courses that are not offered by other departments. Apart from this Prof. C. C. Tripathi has suggested to look into the terminology of Honours and Proficiency degree from the perspective of AICTE. Prof. Samir Dev Gupta reminded that in the ordinances of JUIT, Honours degree is awarded to students based on CGPA and Proficiency degree is different from the Honours course. Prof. C.C Tripathi suggested following the guidelines set by AICTE concerning Proficiency and Honours degrees.

After discussion three courses were removed from the list namely Python for Data Science and Machine Learning, Introduction to Graph Theory, Machine learning with its applications.

The final lists of electives are appended as *Annexure II*.

Approved

Item No. 4: To consider the change of credits of two professional electives from 3-0-0 as:

i.	Optical Communication system	2-0-0
ii.	Optical Communication system Lab	0-0-2
iii.	Optical Networks	2-0-0
iv.	Optical Networks Lab	0-0-2

Prof. Samir Dev Gupta suggested having a correlation between the theory and lab with sufficient provision of hardware equipment. Prof. Tripathi suggested having more hardware oriented approach to labs than experiments based on simulations and software. In view of this, Dr. Rajiv Kumar has explained that the list of experiments of Optical Communication system Lab comprises Hardware experiments and Optical Networks Lab consists hardware + simulation experiments.

Item No. 5 : To consider the change in the course contents of Advance Communication Lab running in 6th sem from 2019 batch onwards.

This lab has been fine tuned with introduction of new experiments.

A syllabus of lab course has been approved by BoS members.

Item No. 6: Any other permission with the chair.

Dr. Shruti Jain requested the external members to give some suggestions to improve the admissions in ECE department. To this request, Prof. C.C Tripathi has suggested to have conversations with the parents to convince their ward to choose ECE.

The meeting concluded at 11:15 AM with a vote of thanks by **Dr. Shruti Jain**, Secretary Board of Studies.

Annexure I

The slight modifications in **MINOR degree in ECE** have been made. The revised scheme is as follows:

S. No.	Semester	Course/Course Code	Course Hours		Credits	Total Hours	
		Mandatory	L	T	P		
1	3	Digital Electronics & Logic Design (18B11EC312)	3	1	0	4	4
2	3	Digital Electronics & Logic Design Lab (18B17EC372)	0	0	2	1	2
3	4	Modern Analog and Digital Communication Lab (18B17EC473)	0	0	2	1	2
4	5	Microprocessors & Interfacing (18B11EC512)	3	0	0	3	3
5	5	Microprocessors & Interfacing Lab (18B17EC572)	0	0	2	1	2
6	6	Wireless and Data Communication (18B11EC611)	3	0	0	3	3
7	6	Advance Communication Lab (18B17EC673)	0	0	2	1	2
						14	18

		Non-Mandatory					
8	7	Pattern Analysis in Machine	3	0	0	3	3
		Intelligence (19B1WEC732)					
9	7	Robotic Systems and Control	3	0	0	3	3
		(18B1WEC737)					
10	8	Forensic Image Processing	3	0	0	3	3
		(19B1WEC735)					
11	8	Applied Medical Signal Processing	3	0	0	3	3
		(19B1WEC736)					
						3 + 3 = 6	
	Total				20	24	

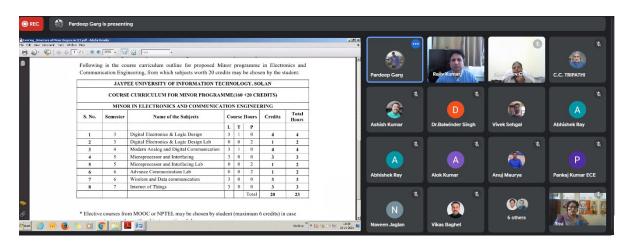
Annexure II

List of Open Electives

S.No	Course Name	L-T-P
1	Digital Image Processing using Python	3-0-0
2	Renewable Energy Systems	3-0-0
3	Biomedical Imaging System	3-0-0









Attendance sheet of BoS held on 18-11-2021

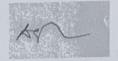
(Prof. D.Ghosh)

(Dr. Balwinder Singh)

(Dr. Rajiv Kumar)

Jalmonflys (Dr. Salman Raju)

(Prof. C. C. Tripathi)



(Prof. Samir Dev Gupta)

(Dr. Sunil Datt Sharma)

(Dr. Shweta Pandit)

(Mr. Anuj Maurya)

(Mr. Pankaj Kumar)

Attendance sheet of BoS held on 18-11-2021 (Prof. Karanjeet Singh, Mathematics Deptt.) (Dr. Vivek Sehgal, CSE & IT Deptt..) (Mr. Abhishek Kumar)