



PG Department of ELECTRONICS and INSTRUMENTATION TECHNOLOGY

University of Kashmir

07.7.2023

(5)

Notes: Subject: Introduction of Integrated M.Sc. Electronics programme in the Department.

In continuation to past meetings held by the faculty members to discuss the modularity for introduction of 'Integrated M. Sc. Electronics Programme' in the department, a meeting of the faculty members of the Department was held on 27-07-2023. The following were present:

1. Prof. M. Tariq Bandy (Chairman and Head of the Department)
2. Dr. Farooq A. Khanday (member)
3. Dr. Shabir A. Parah (member)
4. Dr. Javaid A. Sheikh (member)
5. Ms. Farhat Ruhee (member)

The faculty members discussed the importance of the subject of Electronics at the +2, undergraduate and postgraduate levels, current faculty scenario and infrastructure at the college level, and other issues and challenges impeding the offerings of the Electronics at degree colleges and other challenges faced by the aspirants. The members also discussed opportunities particularly employability opportunity of the pass out students of this subject at different levels under the NEP 2020. The members unanimous were of the opinion that NEP 2020 which includes appropriate and current skill enhancement credits has further opened tremendous employment opportunities at all levels (certificate, diploma, degree, honors, PG and research) for Electronics pass out students.

The members perused the structure and syllabus of 4-year undergraduate programme in Electronics and other allied subjects and accordingly prepared course structure and other modularity of the proposed 'Integrated M. Sc. Electronics' programme.

The meeting ended with a vote of thanks to the chair.

Faculty members of the Department.

Prof. M. Tariq Bandy
27.7.2023

Dr. Farooq A. Khanday
27/7/23

Dr. Shabir A. Parah

Dr. Javaid A. Sheikh
27/7/23

Ms. Farhat Ruhee

To be Submitted alongwith a detailed proposal of the draft statutes.

Dr. M. Tariq Bandy
(Head of the Department)
27.7.2023

~~Dean, FAST~~



PG Department of ELECTRONICS and
INSTRUMENTATION TECHNOLOGY

University of Kashmir

1
Ku/2023-6/CC-4460
DT: 14-7-2023

Notes:


Subject: Minutes of the meeting of Board of Under Graduate Studies in Electronics and Electronic Equipment Maintenance.

A meeting of the board of under graduate studies in Electronics and Electronic Equipment Maintenance was held on Friday, 14th July 2023 in the office chamber of the Head of the Department. The following were present:

1. Prof. M. Tariq Banday (Chairman and Head of the Department)
2. Dr. Farooq A. Khanday (member)
3. Dr. Shabir A. Parah (member)
4. Dr. Javaid A. Sheikh (member)
5. Ms. Farhat Ruhee (member)
6. Dr. Shahjahan Wani (member)
7. Dr. Sharief ud din Khan (member)
8. Mr. Altaf Hussain Khan (member, Islamia College of Science and Commerce)
9. Dr. Nusrat Parveen (member, Islamia College of Science and Commerce)
10. Mr. Rooh ul Amin (member)
11. Mr. Hakeem Shuja Hussain (member, Cluster University)
12. Dr. M. Rafiq Beigh (member)
13. Dr. Waseem Chesti (industry member, Diginet Technologies Ltd. Bangalore)

The members discussed the revised NEP 2020 framework and devised the course structure across different course types (course type 1, course type 2 and course type 3) and syllabus of 4-year UG programme in Electronics and 4-year UG programme in Electronics Electronic Equipment Maintenance.

The devised course structure duly signed by the members for 4-year UG programme in Electronics and 4-year UG programme in Electronics Electronic Equipment Maintenance are given in the annexed pages. *The course structure and syllabus has also been send through e-mail on nep2020syllabus@gmail.com.*


Dr. M. Tariq Banday
(Head of the Department and
Chairman BOUGS)

~~Assistant~~
Assistant Registrar (Academic)

Four-Year Undergraduate Programme in Electronics under NEP2020

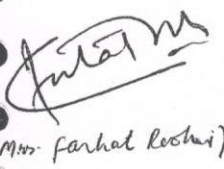
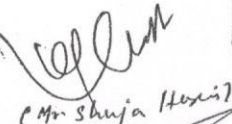
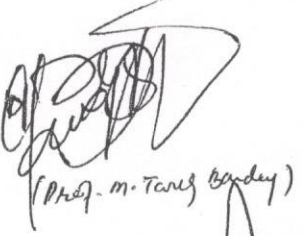
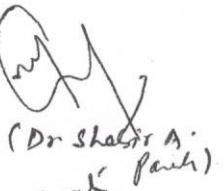
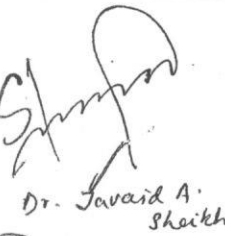

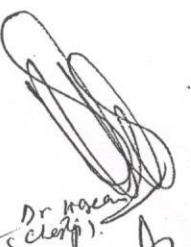

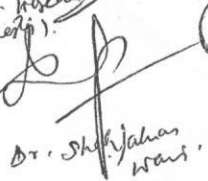

Course Structure

Semester	Course Type - I	Course Type - II	Course Type - III
I	ELE122J Network Analysis & Analog Electronics (4+2 Credits)	-	-
II	ELE222J Digital Electronics (4+2 Credits)	-	-
III	ELE322J Operational Amplifier & Linear Integrated Circuits (4+2 Credits)	-	-
IV	ELE422J1 Signals and Systems (3+1 Credits)	ELE422J2 Applied Mathematics and Programming (4+2 Credits)	ELE422J3 Electromagnetic Waves and Antennas (4+2 Credits)
V	ELE522J1 Microprocessors & Microcontrollers (3+1 Credits)	ELE522J2 Digital System Design and VHDL (4+2 Credits)	ELE522J3 Microwave Engineering (4+2 Credits)
VI	ELE622J1 Communication Electronics – I (3+1 Credits)	ELE622J2 Advanced Microprocessors and Microcontrollers (4+2 Credits)	ELE622J3 Artificial Intelligence & Machine Learning (4+2 Credits)
VII	ELE722J1 Electronic Instrumentation (3+1 Credits)	ELE722J2 Embedded Systems and Internet of Things (4+2 Credits)	ELE722J3 Communication Electronics – II (4+2 Credits)
VIII	ELE822J1 Power Electronics & Photonics (3+1 Credits)	<i>Honours</i>	
		ELE822J2 Control Systems (4+2 Credits)	ELE822J3 Material Sciences and VLSI Technology (4+2 Credits)
		<i>Research</i>	
		ELE822JP Research Project (0+12 Credits)	

Four-Year Undergraduate Programme in Electronics under NEP2020

Course Structure

Semester	Course Type - I	Course Type - II	Course Type - III
I	ELE- 021-01 122J Network Analysis & Analog Electronics (4+2 Credits)	-	-
II	ELE- 022-02 222J XXXXXXXXXX Digital XXXXXXXXXX Electronics (4+2 Credits)	-	-
III	ELE- 021-03 322J Operational Amplifier & LINEAR INTEGRATED CIRCUITS (4+2 Credits)	-	-
IV	ELE- 021-04 422J Signals and Systems (3+1 Credits)	ELE- 022-01 422J Applied Mathematics and Programming (4+2 Credits)	ELE- 023-01 422J Electromagnetic Waves and Antennas (4+2 Credits)
V	ELE- 021-05 522J Microprocessors & Microcontrollers (3+1 Credits)	ELE- 022-02 522J Digital System Design and VHDL (4+2 Credits)	ELE- 023-02 522J Microwave Engineering (4+2 Credits)
VI	ELE- 021-06 622J Communication Electronics - I (3+1 Credits)	ELE- 022-03 622J Advanced Microprocessors and Microcontrollers (4+2 Credits)	ELE- 023-03 622J Artificial Intelligence & Machine Learning (4+2 Credits)
VII	ELE- 021-07 722J Electronic Instrumentation (3+1 Credits)	ELE- 022-04 722J Embedded Systems and Internet of Things (4+2 Credits)	ELE- 023-04 722J Communication Electronics - II (4+2 Credits)
VIII	ELE- 021-08 822J Power Electronics & Photonics (3+1 Credits)	Honours	
		ELE- 022-05 822J Control Systems (4+2 Credits)	ELE- 023-05 822J Material Sciences and VLSI Technology (4+2 Credits)
		Research	
	ELE- 022-05 822J Research Project - I (4+2 Credits)	ELE- 023-05 822J Research Project - II (4+2 Credits)	

 (Mr. Farhad Rezaei)
 (Mr. Shuja Husni)
 (Dr. Shalish A. (Prof. M. Tariq Bandy))
 (Dr. Shalish A. (Prof. M. Tariq Bandy))
 Dr. Savaid A. Sheikh
 (Dr. F.A. Khuday)
 Dr. Shuja Husni
 Mr. Moh. D.
 Dr. Shuja Husni
 Mr. Moh. D.



Kura-Elec-5714
dt 30-06-2022

PG Department of ELECTRONICS and
INSTRUMENTATION TECHNOLOGY
University of Kashmir

Notes:

Subject: Minutes of the meeting of Board of Under Graduate Studies in Electronics.

A meeting of the board of under graduate studies in Electronics was held on 23-6-2022 in the office chamber of the Head of the Department. The members discussed the revised NEP 2020 framework and devised the syllabus for 1st and 2nd semesters for Major / Minor (4+2) and one introductory Multidisciplinary course of 3 credits (1st to 3rd semester):

Type	Semester	Course Title
Major	1 st	Network Analysis and Analog Electronics Credits (4+2)
Minor (Interdisciplinary)	1 st	-do-
Major	2 nd	Linear and Digital Integrated Circuits Credit (4+2)
Minor	2 nd	-do-
Multidisciplinary	1 st to 3 rd	Introduction to Electronics (Credit:3)

In addition, the members discussed National Education Policy-2020 which gives immense thrust to developing skill set of students to create skillful manpower for growth and development of the country. The members noted that about seventeen courses have been listed as Skill Enhancement Courses (SEC) as per the Framework issued by University of Kashmir to be adapted in the affiliated and constituent colleges, however, no course from Electronics discipline has been included in this list. The members accordingly proposed and devised syllabus for the following Skill Enhancement Course (SEC):

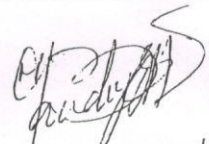
Skill	Semester	Course Title (Credits: 2+2)
Auto-Electronics	1 st	Fundamentals of Auto-electronics
	2 nd	Accessories in Vehicular Systems
	3 rd	Braking, Lighting, Chassis and Sensing
Medical Electronics	1 st	Fundamentals of Devices and Tools for Repair and Maintenance
	2 nd	Biomedical Instrumentation
	3 rd	Medical Imaging Equipment Maintenance and Repair
Consumer Electronics	1 st	Home Appliances
	2 nd	Office Appliance
	3 rd	Communication Appliances
Mobile Electronics and Telecommunications	1 st	Basics of Electrical Engineering
	2 nd	Telecom Infrastructure and Grounding
	3 rd	Android Application Development

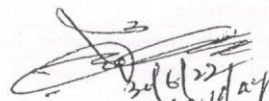
Skill	Semester	Course Title (Credits: 2+2)
Surveillance Systems	1 st	DTH, Set-top Box Installation and Service Techniques
	2 nd	Electronic Security
	3 rd	Installation Repair & Maintenance of EPABX and CCTV System
Embedded System Design	1 st	Introduction to Microcontroller and Embedded System
	2 nd	Embedded System Design using Microcontrollers
	3 rd	Embedded Internet of Things (IoT)
Repair and Maintenance of Electronic Appliances	1 st	Electrical Circuits and Networking Skills
	2 nd	Repair and Maintenance of Power Supplies, Inverters and UPS
	3 rd	Repair and Maintenance of Mobile Phones


The syllabus for each Major, Minor, Multidisciplinary and proposed SEC has been framed by the members of the Board of Undergraduate Studies in accordance with the latest circulated scheme, which is annexed for your perusal and necessary action.

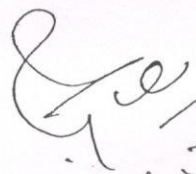
The meeting ended with a vote of thanks to the chair.

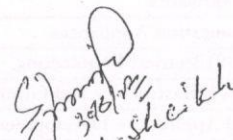
Members of the Board of Undergraduate studies in Electronics.

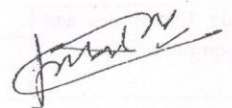

M. Tariq Bandy

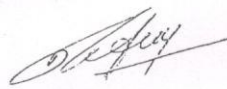

Dr. F.A. Khuday

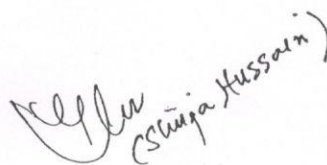

Dr. Shabir A. Panh



Dr. Shah-Jaleel Wain


Dr. J.A. Sheikh






(Suzain Hussain)


Dr. M. Tariq Bandy

Dean, FAST



P. G. Department of Electronics & Instrumentation Technology
University of Kashmir,
 Hazratbal, Srinagar-190006

Ref. No. : KU2017-elec-93

Dated : 25/10/2017

The Dean,
 School of Applied Sciences and Technology,
 University of Kashmir,
 Srinagar.

Subject: *Constitution of the Board of Post-Graduate and Under-Graduate Studies in Electronics and M. Tech in Embedded Systems and Solutions.*

Dear Sir,

The boards of Post Graduate and Undergraduate studies in Electronics and M. Tech. in Embedded Systems and Solutions have been re-constituted as per the requirements of the programmes. The proposed panels in the prescribed format are forwarded in annex to this letter ^{for} your kind ~~approval~~.

Thank you.

Yours Sincerely,

[Signature]
 Dr. M. Farid Baidar
 Head of the Department

Enclosures:

1. Panel for Board of Post-Graduate Studies in Electronics
2. Panel for Board of Graduate Studies in Electronics
3. Panel for Board of Graduate Studies in Electronics Equipment and Maintenance (EEM)
4. Panel of Board of Studies for M. Tech, in Embedded Systems and Solutions

Mrs. Shabeen
 Approved by the
 panel of board of
 Studies he concerned
 concerned head

*Forwarded to HOD
 Electronics EIT
 Further necessary
 action*

UNIVERSITY OF KASHMIR, SRINAGAR

No. F (Const-BOS-M.Tech) Acad/KU/16
Dated 27-04-2016

The Coordinator,

Department of Electronics and Instrumentation Technology,
University of Kashmir Sgr.

Sub: -Constitution of the Board of Postgraduate Studies for M.Tech Programme in Embedded Systems and Solutions.

Sir,

Apropos your letter dated 10-05-2016, this is to inform you that the Vice-Chancellor has been pleased to authorize constitution of the **Board of Postgraduate Studies for M.Tech Programme in Embedded Systems and Solutions** as under:-

Board of Postgraduate Studies for M. Tech Programme in Embedded Systems and Solutions:

- | | |
|--|----------|
| 1. Dr. M.Tariq Bandy,
Coordinator,
Department of Electronics and Instrumentation Technology,
University of Kashmir Srinagar. | Convener |
| 2. Dr. Farooq Ahmad Khanday,
Assistant Professor,
Department of Electronics and Instrumentation Technology,
University of Kashmir Srinagar. | Member |
| 3. Dr. Shabir Ahmad Parah,
Assistant Professor,
Department of Electronics and Instrumentation Technology,
University of Kashmir Srinagar. | Member |
| 4. Dr. Javaid Ahmad Sheikh,
Assistant Professor,
Department of Electronics and Instrumentation Technology,
University of Kashmir Srinagar. | Member |
| 5. Dr. Basharat Ahmad Want,
Associate Professor, Department of Physics,
University of Kashmir Srinagar. | Member |
| 6. Dr. Majid Zaman Baba,
Scientist 'D', IT & SS,
University of Kashmir Srinagar. | Member |
| 7. Ms. Farhat Roohi, (Research Scholar)
Department of Electronics and Instrumentation Technology, | Member |
| 8. Mr. Javaid Iqbal Reshi, (Research Scholar)
Department of Electronics and Instrumentation Technology, | Member |
| 9. Prof. A.H. Mir,
Department of Electronics & Communication Engineering,
National Institute of Technology, Srinagar | Member |
| 10. Prof. G.M Bhat
Dean, Faculty of Applied Sciences and Technology,
University of Kashmir, Srinagar. | Member |
| 11. Prof. R.K. Sharma,
School of VLSI Design & Embedded Systems, National Institute of Technology,
Kurukshetra-Haryana-136119 | Member |

The term of the members on this board shall be for a period of three years from the date of issuance of this letter.

The concerned may please be informed accordingly.

Yours faithfully,

Assistant Registrar
ACADEMIC