

Shri G.S. Institute of Technology & Science, Indore
Department of Electronics & Instrumentation Engineering

DPAQIC Meeting & its Agenda

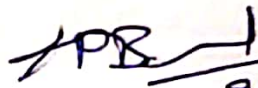
Date:08/06/2023

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The meeting of DPAQIC of EI Department is Scheduled on 13th June 2023 at 4 PM in the conference room of the department. It is requested to make it Convenient to attend the meeting.

The agenda of the meeting is as given below:

1. Discuss & approve Scheme, Syllabus & exit policy for NEP2020.
2. Discuss & approve the CO & POs of Subject(s).
3. Analysis of CO & PO attainment of previous sem July2022 to Dec. 2022
4. Analysis of result of individual faculty member for Dec 2022 exam.
5. Any other point with the permission of chair.


9/6/2023

Dr. P. P. Bansod


Professor & Head
Chairman, DPAQIC

Copy to-
The Director, SGSITS, Indore
The Dean (Academics), SGSITS, Indore
All Members of DPAQIC
DPAQIC File, EID

Shri G.S. Institute of Technology & Science, Indore
Department Of Electronics & Instrumentation Engineering


Circular


SGSITS/EID/2023/DPAQC/01

DATE:08/06/2023

The department Program Assessment & Quality Improvement Committee (DPAQC) is constituted for the academic session 2023-24 and 2024-25 as follows,

1.	Head, EID	Chairperson	Prof. P.P. Bansod
2.	Senior Faculty of Department	Member	Shri Rajesh Khatri
3.	Senior Professor (Other Academic Institute)	Member	Dr. Vaibhav Neema
4.	Senior Faculty (Allied Branch of Institute)	Member	Prof. Shekhar Sharma Professor, E&TC Deptt.
5.	Industry Expert	Member	Mr. Anuj Upadhaya Farm Electronics Pvt. Ltd Pardeshipura, Indore.


Prof. & Head,
EID

Copy to-
The Director, SGSITS, Indore 
The Dean (Academic), SGSITS, Indore
All Members of DPAQC
DPAQC File, EID

o/c



Shri G.S. Institute of Technology and Science, Indore
Department of Electronics and Instrumentation Engineering

Minutes of DPAQIC Meeting

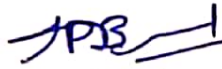

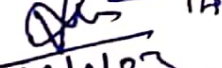
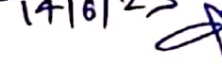

A meeting to DPAQIC of the department was held in the conference room on 14th June, 2023 at 11.30am. Following members were present

- | | |
|-----------------------|---------------------------|
| 1. Dr. P.P. Bansod | Chairperson, DPAQIC |
| 2. Shri Rajesh Khatri | Member |
| 3. Dr. Vaibhav Neema | Member, External IET DAVV |
| 4. Anuj Upadhyaya | Member, Industry expert |
| 5. Dr. Shekhar Sharma | Member, E& TC, SGSITS |

The deliberations of the meeting are as follow.

- (i) The Scheme, syllabus & exit policy for NEP 2020 to be implemented for 2023 admitted student was discussed & approved.
- (ii) The Course Outcome & Program Outcome of Subjects were discussed & approved.
- (iii) The analysis of CO & PO attainment for the academic year 2023-24 was deferred till next DPAQIC meeting. (after result declaration of April 2023 Exam) ✓
- (iv) The analysis & result of individual faculty member for Dec. 2022 was discussed & Committee member suggested following actions to improve their feedback.
 - (a) Conduction of remedial classes
 - (b) Identifying Weaker students
 - (c) Interacting with students through mentor mentee meetings.
 - (d) To address individual's weakness. & improve on them.
 - (e) Undergoing refresher courses, for updation of knowledge.

The meeting ended with vote of thanks by chair.

Name	Designation	Signature
(1) Prof P.P. Bansod	Professor & Head.	 14/6/2023.
(2) Shri Rajesh Khatri	Associate Professor.	
(3) Dr. Vaibhav neema	Assistant Professor - IET. DAVV.	 14/6
(4) Mr. Anuj Upadyaya	Farm Electronics.	 14/6/23
(5) Prof. Shekhar Sharma	Professer, E&TC SGSITS	 14/6/2023

SHRI G.S. INSTITUTE OF TECHNOLOGY AND SCIENCE , INDORE
II YEAR B.Tech. (Electronics & Instrumentation Engg.)
Diploma (Electronics & Instrumentation Engg.)

Semester - III

S. No.	Subject Category	Subject Code	Subject Name	Hours per Week			Credits		Maximum Marks				
				L	T	P	Th	Pr	Theory		Practical		Total
									Th.	CW	SW	Pr.	
1	BSC	MA-	Mathematics - III	3	1	0	4	-	70	30	-	-	100
2	PCC	EI-	Circuit Analysis & Synthesis	3	-	-	3	-	70	30	-	-	100
3	PCC	EI-	Digital Electronics	3	-	-	3	-	70	30	-	-	100
4	PCC	EI-	Electronics Devices & Circuits	3	-	-	3	-	70	30	-	-	100
5	ESC	EI-	Fundamentals of Measurement	3	-	-	3	-	70	30	-	-	100
6	LC (EI)	EI-	Circuit Analysis & Synthesis Lab	-	-	2	-	1	-	-	20	30	50
7	LC (EI)	EI-	Digital Electronics Lab	-	-	2	-	1	-	-	20	30	50
8	LC (EI)	EI-	Electronics Devices & Circuits Lab	-	-	2	-	1	-	-	20	30	50
9	LC (EI)	EI-	Electronics workshop Lab	-	-	2	-	1	-	-	40	60	100
10	HSMC	HU-	Environmental Science	2	-	-	2	-	-	100	0	0	100
TOTAL				17	1	8	18	4	350	250	100	150	850

Semester - IV

S. No.	Subject Category	Subject Code	Subject Name	Hours per Week			Credits		Maximum Marks				
				L	T	P	Th	Pr	Theory		Practical		Total
									Th.	CW	SW	Pr.	
1	HSMC	HU-	Economics for Engineers	3	-	-	3	-	70	30	-	-	100
2	PCC	EI-	Analog Electronics	3	-	-	3	-	70	30	-	-	100
3	PCC	EI-	Sensors & Transducers	3	-	-	2	-	70	30	-	-	100
4	BSC	MA-	Mathematics - IV	3	1	-	4	-	70	30	-	-	100
5	PCC	EI-	Circuit Design using HDLs	3	-	-	3	-	70	30	-	-	100
7	LC (EI)	EI-	Analog Electronics Lab	-	-	2	-	1	-	-	20	30	50
8	LC (EI)	EI-	Sensors & Transducers Lab	-	-	2	-	1	-	-	20	30	50
9	LC (EI)	EI-	Circuit Design using HDLs Lab	-	-	2	-	1	-	-	20	30	50
10	LC (EI)	EI-	Software Workshop	-	-	2	-	1	-	-	40	60	100
11	MC	HU-	Essence of Indian Knowledge Tradition	2	-	-	2	-	70	30	0	0	100
TOTAL				17	1	8	17	4	420	180	100	150	850

Diploma in Electronics and Instrumentation Engg will be awarded after acquiring additional 10credits out of which 6credits as three months industrial training within five years

- * For 4 credits - 1) Microprocessor systems.
2) Analog & Digital Comm.

SHRI G.S. INSTITUTE OF TECHNOLOGY AND SCIENCE , INDORE
IIIYEAR B.Tech. (Electronics & Instrumentation Engg.)
Vocational Degree (Electronics & Instrumentation Engg.)

Semester - V

S. No.	Subject Category	Subject Code	Subject Name	Hours per Week			Credits		Maximum Marks				
				L	T	P	Th	Pr	Theory		Practical		Total
									Th.	CW	SW	Pr.	
1	PCC	IT	Data Structure	3	-	-	3	-	70	30	0	0	100
2	PCC	EI	Microprocessor System	3	-	-	3	-	70	30	0	0	100
3	PCC	EI	VLSI Design	3	-	-	3	-	70	30	0	0	100
4	PEC	EI	Program Elective Course - I	3	-	-	3	-	70	30	0	0	100
5	OEC		Open Elective Course - I	3	-	-	3	-	70	30	0	0	100
6	LC (IT)	IT	Data Structure Lab	-	-	2	-	1	-	-	20	30	50
7	LC (EI)	EI	Microprocessor System Lab	-	-	2	-	1	-	-	20	30	50
8	LC (EE)	EI	VLSI Design Lab	-	-	2	-	1	-	-	20	30	50
9	LC-(EI)	EI	Test & calibration Lab	-	-	2	-	1	-	-	40	60	100
10	PROJ	EI	Internship	-	-	2	-	1	-	-	50	-	50
11	HSMC	HU	Indian Constitution	2	-	-	2	-	-	100	-	-	100
TOTAL				17	0	10	17	5	350	250	150	150	900

Semester - VI

S. No.	Subject Category	Subject Code	Subject Name	Hours per Week			Credits		Maximum Marks				
				L	T	P	Th	Pr	Theory		Practical		Total
									Th.	CW	SW	Pr.	
1	PCC	EI	Filter Design & Simulation	3	-	-	3	-	70	30	0	0	100
2	PCC	EI	High Frequency Engineering	3	-	-	3	-	70	30	0	0	100
3	PCC	EE	Control Systems	3	-	-	3	-	70	30	0	0	100
4	PEC	EI	Program Elective Course - II	3	-	-	3	-	70	30	0	0	100
5	OEC		Open Elective Course - II	3	-	-	3	-	70	30	0	0	100
6	LC (EI)	EI	Filter Design & Simulation Lab	-	-	2	-	1	-	-	20	30	50
7	LC (EE)	EE	Control Systems Lab	-	-	2	-	1	-	-	20	30	50
8	PEC LC (EI)	EI	Program Elective Course - II Lab	-	-	2	-	1	-	-	20	30	50
9	PROJ	EI	Minor Project	-	-	4	-	2	-	-	50	0	50
10	HSMC	IP	Industrial Engineering & Management	2	-	-	2	-	70	30	0	0	100
TOTAL				17	0	10	17	5	420	180	110	90	800

V Vocational degree in Electronics & Instru Engg shall be awarded after acquiring additional 10credits out of which 6credits as three months industrial training within five years

For 4 Credits: 1) Process Instrumentation
2) Fiber optics & photonics.

U.G.S. INSTITUTE OF TECHNOLOGY AND SCIENCE, INDORE
IV YEAR B.Tech. (Electronics & Instrumentation Engg.)

Semester - VII

S. No.	Subject Category	Subject Code	Subject Name	Hours per Week			Credits		Maximum Marks				
				L	T	P	Th	Pr	Theory		Practical		Total
									Th.	CW	SW	Pr.	
1	PCC	EI	Process Instrumentation	3	-	-	3	-	70	30	-	-	100
2	PCC	BM	Medical Instrumentation	3	-	-	3	-	70	30	-	-	100
3	PCC	EI	Fiber Optics and Photonics	3	-	-	3	-	70	30	-	-	100
4	PEC	EI	Program Elective Course - III	3	-	-	3	-	70	30	-	-	100
5	PEC	EI	Program Elective Course - IV	3	-	-	3	-	70	30	-	-	100
6	LC(EI)	EI	Process Instrumentation Lab	-	-	2	-	1	-	-	20	30	50
7	LC(EI)	EI	Medical Instrumentation Lab	-	-	2	-	1	-	-	20	30	50
8	LC(EE)	EI	Fiber Optics and Photonics Lab	-	-	2	-	1	-	-	20	30	50
9	PROJ	EI	Major Project	-	-	8	-	4	-	-	40	60	100
TOTAL				15	0	14	15	7	350	150	100	150	750

Semester - VIII

S. No.	Subject Category	Subject Code	Subject Name	Hours per Week			Credits		Maximum Marks				
				L	T	P	Th	Pr	Theory		Practical		Total
									Th.	CW	SW	Pr.	
1	PEC	EI	Program Elective Course - V	3	-	-	3	-	70	30	0	0	100
2	PEC	EI	Program Elective Course - VI	3	-	-	3	-	70	30	0	0	100
3	PROJ	EI	Industrial Training / Internship	-	-	16	-	8	-	-	100	0	100
4	PROJ	EI	Research Work	-	-	12	-	6	-	-	40	60	100
5	MC	EI	Research Paper*	2	-	-	-	-	-	-	50	-	50
TOTAL				8	0	28	6	14	140	110	140	60	450

* Minimum one research paper in the year should be submitted for publication in a Reputed Conference or Journal

CW (Class Work) marks will be based on Assignments and/or quizzes

SW (Sessional Work) marks will be based on Performance in Practical + final internal submission

Pr (Practical End semester Exam Viva voce) marks will be based on Quiz and or Viva Voci Examination by External Examiner

All the evaluations will be done on the basis of Rubrics prepared for that purpose.

Duration of Internship is minimum 20xPractical hours (e.g. 20x16hours=320hours=40 working days for 8hours per day)

A minor certificate will be awarded if additional 20 credits are earned in a particular area/specialisation

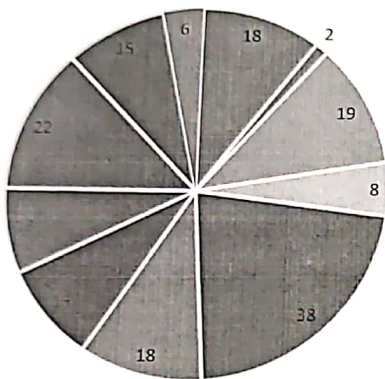
List of Elective courses in Electronics & Instrumentation Engineering

Program Electives

- PEC-I** 1 Analog and Digital Communication (I) 5th Sem
2 Signals & Systems
3 Smart Sensors
- PEC-II** 1 Microcontroller and Embedded System (II)-6th Sem
2 Analog Integrated Circuits
3 Analytical Instrumentation
- PEC-III** 1 VLSI technology (I) 7th Sem
2 Mechatronics
3 Digital Signal Processing
- PEC-IV** 1 Power Electronics (II) 7th Sem
2 Radio Frequency Integrated Circuits
3 Advanced Control Systems
- PEC-V** 1 Internet of Things(I) 8th Sem
2 Computer Networks
3 Digital Image Processing
- PEC-VI** 1 Automation in Instrumentation(II) 8th Sem
2 Process Control
3 Intelligent Instrumentation

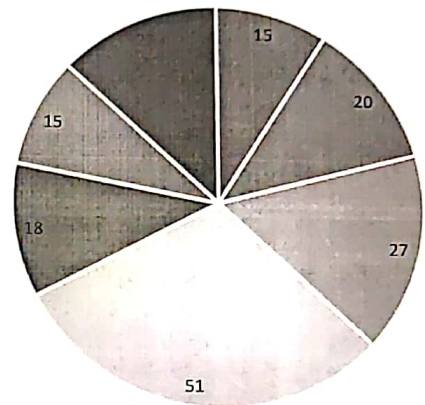
		Credits					
Basic Science Course	BSC	18	20	HSSM	15	12 - 15	12
Basic Science Lab Course	BSC LAB	2		BS	20	25 - 30	25
Engineering Science Course	ESC	19	27	ES	27	24 - 30	24
Engineering Science Lab Course	ESC LAB	8		PC	51	48 - 65	48
Program Core Course	PCC	38	51	PE	18	18 - 25	18
Program Elective Course	PEC	18	18	OS	15	18 - 18	18
Open Elective Course	OEC	15	15	PR	22	15 - 20	15
Lab Course (Civil Engineering)	LC (CE)	13			168	160 - 203	160
Project	PROJ	22	22				203
Humanities, Social Science and Management Course	HSMC	15	15				
Mandatory Course (Non credit)	MC	6	Non Credit				
	Total	174	168				

NEP 2020



■ BSC ■ BSC LAB ■ ESC ■ ESC LAB ■ PCC ■ PEC
 ■ OEC ■ LC (CE) ■ PROJ ■ HSMC ■ MC

RGPV 4D



■ HSSM ■ BS ■ ES ■ PC ■ PE ■ OS ■ PR