



MINUTES OF MEETING

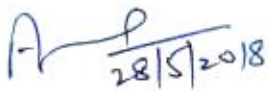
The Committee of Board of Studies (BOS) met on 28th May, 2018 at 11.30 AM in office of HOD (EIE) to discuss and finalize the course scheme of UG and PG for Instrumentation and Control and Engineering as per the guideline of AICTE following points.

The following members attended the meeting.

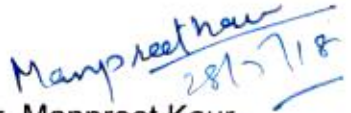
1.	Dr. J.S. Dhillon, HOD (EIE)	Chairman
2.	Dr. V.K. Jain, Professor	Member
3.	Dr. Sanjay Marwaha, Professor	Member
4.	Dr. Manpreet Kaur, Associate Professor	Member
5.	Dr. Surita Maini, Associate Professor	Member
6.	Dr. Ashwani Kumar Aggarwal, Assistant Professor	Member
7.	Dr. Vijender Singh, Professor Department of Instrumentation & Control, Netaji Subhash Institute of Technology, Delhi	External Member
8.	Mr. Parveen Garg, Assoc. Director, M/s. Emerson Automation Solution, Noida (U.P.).	External Member

The committee discussed the agenda of UG and PG and recommends as under:


- 1) The course schemes of UG and PG have been proposed as per Annexure-'I' and the syllabi shall be designed on proceeding year wise basis.
- 2) The syllabi of 1st year of UG & PG was discussed and finalized as per Annexure-'II'.
- 3) Committee authorized Chairman, Board of Studies (BOS) for any change in scheme and syllabi (if required) with the consent of the BOS members..
- 4) Meeting ended with vote of thanks to the chair.



Dr. Ashwani Kumar Aggarwal,
Assistant Prof.



Dr. Surita Maini,
Associate Prof.


Dr. Manpreet Kaur,
Associate Prof.


Dr. Sanjay Marwaha,
Professor


Dr. V.K. Jain,
Professor


Mr. Parveen Garg, Assoc. Director.,
M/s Emerson Automation Solution, Noida


Dr. Vijender Singh, Prof. Deptt. of Inst. & Control,
NSIT, Delhi


Dr. J.S. Dhillon, HOD (EIE)

UG Study Scheme-Group A (GIN)

Semester-I Group-A (GIN)							
SNo	Sub Code	Subject Name	L	T	P	Hrs.	Credits
1	BSMA-401	Engineering Mathematics I	3	1	0	4	4
2	BSPH-401	Applied Physics	3	1	0	4	4
3	ESEE-401	Elements of Electrical Engineering	2	1	0	3	3
4	ESCS-401	Elements of Computer Engineering	2	0	0	2	2
5	ESEC-401	Elements of Electronics Engineering	2	0	0	2	2
6	BSPH-402	Applied Physics Lab	0	0	2	2	1
7	ESEE-402	Elements of Electrical Engineering Lab	0	0	2	2	1
8	ESCS-402	Elements of Computer Engineering Lab	0	0	4	4	2
9	ESEC-402	Elements of Electronics Engineering Lab	0	0	2	2	1
Total			12	03	10	25	20
Semester-II A Group-A (GIN)							
SNo	Sub Code	Subject Name	L	T	P	Hrs.	Credits
1	BSMA-402	Engineering Mathematics II	3	1	0	4	4
2	BSCH-401	Applied Chemistry	3	1	0	4	4
3	ESME-401	Elements of Mechanical Engineering	2	1	0	3	3
4	ESME-402	Workshop Technology and Practice	1	0	0	1	1
5	HSMC-401	English Communication and Soft Skills	1	0	0	1	1
6	BSCH-402	Applied Chemistry Lab	0	0	2	2	1
7	ESME-403	Elements of Mechanical Engineering Lab	0	0	2	2	1
8	ESME-404	Engineering Drawing	0	0	4	4	2
9	ESME-405	Workshop Technology and Practice Lab	0	0	4	4	2
10	HSMC-402	English Communication and Soft Skills Lab	0	0	2	2	1
11	MC-401	Mandatory Course-1	3	0	0	3	0
Total			13	03	14	30	20
Semester-II-B Group-A (GIN)							
	TPIN-421	Practical Training During Summer Vacations (In-house) 02 weeks				80	2 (S/US)
Semester-III Group-A (GIN)							
SNo	Sub Code	Subject Name	L	T	P	Hrs.	Credits
1	BSMA-501	Numerical and Statistical Methods	3	0	0	3	3
2	PCIE-511	Electrical Circuit Analysis and Synthesis	3	1	0	4	4
3	PCIE-512	Electronic Devices and Circuits	3	1	0	4	4
4	PCIE-513	Electrical and Electronic Measurement	3	1	0	4	4
5	BSBL-501	Biology for Engineers	2	0	0	2	2
6	BSMA-502	Numerical and Statistical Methods Lab	0	0	2	2	1





7	PCIE-514	Electronic Devices and Circuits Lab	0	0	2	2	1
8	PCIE-515	Electrical and Electronic Measurement Lab	0	0	2	2	1
Total			14	03	06	23	20

Semester-IV-A Group-A (GIN)

SNo	Sub Code	Subject Name	L	T	P	Hrs.	Credits
1	ESME-501	Engineering Mechanics	3	1	0	4	4
2	PCIE-521	Digital Electronics	3	1	0	4	4
3	PCIE-522	Sensors and Transducers	3	1	0	4	4
4	PCIE-523	Signals and Systems	3	0	0	3	3
5	HSMC-501	Principles of Management	3	0	0	3	3
6	PCIE-524	Digital Electronics Lab	0	0	2	2	1
7	PCIE-525	Sensors and Transducers Lab	0	0	2	2	1
8	MC-501	Mandatory Course-2	3	0	0	3	0
Total			18	3	4	25	20

Semester-IV-B Group-A (GIN)

	TPID-521	Industrial Training 02 weeks				80	2 (S/US)
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Semester-V Group-A (GIN)

SNo	Sub Code	Subject Name	L	T	P	Hrs.	Credits
1	PCIE-611	Analytical and Optical Instrumentation	3	0	0	3	3
2	PCIE-612	Control Systems	3	1	0	4	4
3	OEIE-611	Open Elective-1	3	0	0	3	3
4	OEIE-612	Open Elective-2	3	0	0	3	3
5	PEIE-611	Professional Elective-1	3	0	0	3	3
6	HSMC-601	Technical Communication	2	0	0	2	2
7	PCIE-613	Control System Lab	0	0	2	2	1
8	HSMC-602	Technical Communication Lab	0	0	2	2	1
Total			17	1	4	22	20

Semester-VI-A Group-A (GIN)

SNo	Sub Code	Subject Name	L	T	P	Hrs.	Credits
1	PCIE-621	Microprocessors and Microcontrollers	3	1	0	4	4
2	PCIE-622	Industrial Instrumentation	3	0	0	3	3
3	OEIE-621	Open Elective-3	3	0	0	3	3
4	OEIE-622	Open Elective-4	3	0	0	3	3
5	PEIE-621	Professional Elective-2	3	0	0	3	3
6	HSMC-603	Engineering Economics and Entrepreneurship	3	0	0	3	3
7	PCIE-623	Microprocessors and Microcontrollers Lab	0	0	2	2	1
Total			18	1	2	21	20

Semester-VI-B Group-A (GIN)

	TPID-621	Industrial Training 04 weeks				160	4 (S/US)
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Semester-VII Group-A (GIN)							
SNo	Sub Code	Subject Name	L	T	P	Hrs.	Credits
1	PCIE-711	Process Dynamics and Control	3	1	0	4	4
2	PCIE-712	Data Communication and Networking	3	1	0	4	4
3	PEIE-711	Professional Elective-3	3	0	0	3	3
4	PEIE-712	Professional Elective-4	3	0	0	3	3
5	OEIE-711	Open Elective-5	3	0	0	3	3
6	PCIE-713	Process Dynamics and Control Lab	0	0	2	2	1
7	PROJIE-711	Project Stage-I and Seminar	0	0	4	4	2
Total			15	2	6	23	20
Semester-VIII Group-A (GIN)							
SNo	Sub Code	Subject Name	L	T	P	Hrs.	Credits
1	PEIE-721	Professional Elective-5	3	0	0	3	3
2	PEIE-722	Professional Elective-6	3	0	0	3	3
3	PROJIE-721	Project Stage-II	0	0	12	12	6
Total			6	0	12	18	12
OR							
Internship in Industry & Project Stage-II							

List of Professional Electives

- **PEIE-611 Professional Elective-1**

PEIE-611A	○ Biomedical Instrumentation
PEIE-611B	○ Electrical Machines
PEIE-611C	○ Industrial Safety

- **PEIE-621 Professional Elective-2**

PEIE-621A	○ Bio-Medical Signal and Image Processing
PEIE-621B	○ Power Electronics and Drives
PEIE-621C	○ Telemetry and Data Acquisition

- **PEIE-711 Professional Elective-3**

PEIE-711A	○ Wind and Solar Energy Systems
PEIE-711B	○ Telemedicine and Robotic-Surgery
PEIE-711C	○ Virtual Instrumentation

- **PEIE-712 Professional Elective-4**

PEIE-712A	○ Digital Signal Processing
PEIE-712B	○ Optimization Techniques
PEIE-712C	○ Non-Linear and Optimal Control

- **PEIE-721 Professional Elective-5**

PEIE-721A	○ Robotics
PEIE-721B	○ Power Plant Instrumentation
PEIE-721C	○ Introduction To MEMS

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PEIE-722 Professional Elective-6

PEIE-722A	○ Advanced Microprocessors and Microcontrollers
PEIE-722B	○ Computer Control of Processes
PEIE-722C	○ Modelling and Simulation

List of Open Electives

- **OEIE-611 Open Elective – 1**

OEIE-611A	○ Electrical Circuits
OEIE-611B	○ Electrical Engineering Materials
OEIE-611C	○ Renewable Energy Sources

- **OEIE-612 Open Elective – 2**

OEIE-612A	○ Energy Conservation Practices
OEIE-612B	○ Energy Auditing and Management
OEIE-612C	○ Power Plant Engineering

- **OEIE-621 Open Elective – 3**

OEIE-621A	○ Microprocessors and applications
OEIE-621B	○ Elements of Power System
OEIE-621C	○ Biomedical Instrumentation

- **OEIE-622 Open Elective – 4**

OEIE-622A	○ Control System
OEIE-622B	○ Microcontrollers and Applications
OEIE-622C	○ Industrial Safety Engineering

- **OEIE-711 Open Elective – 5**

OEIE-711A	○ Signals and Systems
OEIE-711B	○ Sensors and Transducers
OEIE-711C	○ Introduction to Soft Computing

List of Mandatory Courses

- **MC-401 Mandatory Course – 1: Professional and Engineering Ethics**
- **MC-501 Mandatory Course – 2: Indian Constitution**