



MINUTES OF MEETING


The Committee of Board of Studies (BOS) met on 30th May, 2018 at 11.30 AM in office of HOD (EIE) to discuss and finalize the course scheme of UG for Electrical Engineering as per the guideline of AICTE.

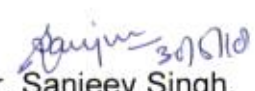
The following members attended the meeting.


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|----|---|-----------------|
| 1. | Dr. J.S. Dhillon, HOD (EIE) | Chairman |
| 2. | Dr. V.K. Jain, Professor | Member |
| 3. | Dr. Sanjay Marwaha, Professor | Member |
| 4. | Dr. A.S. Arora, Professor | Member |
| 5. | Mr. Diljinder Singh, Associate Professor | Member |
| 6. | Dr. Sanjeev Singh, Associate Professor | Member |
| 7. | Dr. Manmohan Singh, Associate Professor | Member |
| 8. | Dr. Ashwani Kumar, Professor, Department of Electrical, Engineering, NIT Kurukshetra | External Member |
| 9. | Er. Baljeet Singh, ASE (Sales), Office of Chief Engineer Commercial, Head Office, The Mall, Patiala | Member |

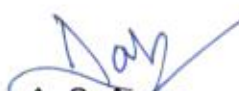
The committee discussed the agenda of UG and recommends as under:


- 1) The course schemes of UG has 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 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. Manmohan Skigh,
Associate Prof.



Dr. Sanjeev Singh,
Associate Prof.

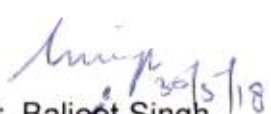

Diljinder Singh,
Associate Prof.


Dr. A. S. Arora
Professor


Dr. Sanjay Marwaha,
Professor,

Dr. V.K. Jain,
Professor


Dr. Ashwani Kumar, Professor
Deptt. of Electrical Engg.
NIT Kurukshetra


Er. Baljeet Singh
ASE (Sales) Patiala


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

city Division, Barnala

UG Study Scheme-Group A (GEE)

Semester-I Group-A (GEE)							
S. No.	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	3	10	25	20
Semester-II-A Group-A (GEE)							
S. No.	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	1	1
11	MC-401	Mandatory Course-1	3	0	0	3	0
Total			13	3	14	29	20
Semester-II-B Group-A (GEE)							
	TPIN-421	Practical Training During Summer Vacations (In-house) 02 weeks				80	2 (S/US)
Semester-III Group-A (GEE)							
S. No.	Sub Code	Subject Name	L	T	P	Hrs.	Credits
1	BSMA-501	Numerical and Statistical Methods	3	0	0	3	3
2	PCEE-511	Electrical Circuit Analysis and Synthesis	3	1	0	4	4
3	PCEE-512	Electronic Devices and Circuits	3	1	0	4	4
4	PCEE-513	Electrical Machines – I (Transformers and DC Machines)	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	PCEE-514	Electrical Machines - I Laboratory	0	0	2	2	1

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8	PCEE-515	Electrical Circuits Laboratory	0	0	2	2	1
		Total	14	3	6	23	20
Semester-IV-A Group-A (GEE)							
S. No.	Sub Code	Subject Name	L	T	P	Hrs.	Credits
1	ESME-501	Engineering Mechanics	3	1	0	4	4
2	PCEE-521	Digital Electronics	3	0	0	3	3
3	PCEE-522	Electrical Machines – II (Asynchronous and Synchronous machines)	3	1	0	4	4
4	PCEE-523	Signals and Systems	3	1	0	4	4
5	HSMC-501	Principles of Management	3	0	0	3	3
6	PCEE-524	Analog and Digital Electronics Laboratory	0	0	2	2	1
7	PCEE-525	Electrical Machines – II Laboratory	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 (GEE)							
	TPID-521	Industrial Training 02 weeks				80	2 (S/US)
Semester-V Group-A (GEE)							
S. No.	Sub Code	Subject Name	L	T	P	Hrs.	Credits
1	PCEE-611	Electrical Power System – I (Generation, transmission and distribution)	3	0	0	3	3
2	PCEE-612	Control Systems	3	1	0	4	4
3	OEEE-611	Open Elective-1	3	0	0	3	3
4	OEEE-612	Open Elective-2	3	0	0	3	3
5	PEEE-611	Professional Elective-1	3	0	0	3	3
6	HSMC-601	Technical Communication	2	0	0	2	2
7	PCEE-613	Control Systems Laboratory	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 (GEE)							
S. No.	Sub Code	Subject Name	L	T	P	Hrs.	Credits
1	PCEE-621	Power Electronics and Drives	3	0	0	3	3
2	PCEE-622	Electrical Power System – II (Analysis and Protection)	3	1	0	4	4
3	OEEE-621	Open Elective-3	3	0	0	3	3
4	OEEE-622	Open Elective-4	3	0	0	3	3
5	PEEE-621	Professional Elective-2	3	0	0	3	3
6	HSMC-603	Engineering Economics and Entrepreneurship	3	0	0	3	3
7	PCEE-623	Power System Laboratory	0	0	2	2	1
		Total	18	1	2	21	20
Semester-VI-B Group-A (GEE)							
	TPID-621	Industrial Training 04 weeks				160	4 (S/US)

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Semester-VII Group-A (GEE)							
S. No.	Sub Code	Subject Name	L	T	P	Hrs.	Credits
1	PCEE-711	Microprocessors and Microcontrollers	3	1	0	4	4
2	PCEE-712	Electrical and Electronic Measurements	3	1	0	4	4
3	PEEE-711	Professional Elective-3	3	0	0	3	3
4	PEEE-712	Professional Elective-4	3	0	0	3	3
5	OEEE-711	Open Elective-5	3	0	0	3	3
6	PCEE-713	Microprocessors and Microcontrollers Laboratory	0	0	2	2	1
7	PROJEE-711	Project Stage I and Seminar	0	0	4	4	2
Total			15	2	6	23	20
Semester-VIII Group-A (GEE)							
S. No.	Sub Code	Subject Name	L	T	P	Hrs.	Credits
1	PEEE-721	Professional Elective-5	3	0	0	3	3
2	PEEE-722	Professional Elective-6	3	0	0	3	3
3	PROJEE-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

- **PEEE-611 Professional Elective-1**

PEEE-611A	○ Biomedical Instrumentation
PEEE-611B	○ Electromagnetic field theory
PEEE-611C	○ Electrical safety and Standards

- **PEEE-611 Professional Elective-2**

PEEE-621A	○ Electrical Energy conservation and auditing
PEEE-621B	○ Non-linear and optimal control
PEEE-621C	○ Telemetry and data acquisition

- **PEEE-711 Professional Elective-3**

PEEE-711A	○ Wind and solar energy systems
PEEE-711B	○ Computational Electromagnetic
PEEE-711C	○ Reliability Engineering

- **PEEE-712 Professional Elective-4**

PEEE-712A	○ Soft Computing Techniques
PEEE-712B	○ Electrical and Hybrid vehicles
PEEE-712C	○ Virtual instrumentation

- **PEEE-721 Professional Elective-5**

PEEE-721A	○ Power quality and FACTs
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PEEE-721B	o Utilization of Electrical Energy
PEEE-721C	o Robotics Engineering

- **PEEE-722 Professional Elective-6**

PEIE-722A	o Advanced microprocessors and microcontrollers
PEIE-722B	o High voltage engineering
PEIE-722C	o Modelling and Simulation

List of Open Electives

- **OEEE-611 Open Elective – 1**

OEEE-611A	o Electrical Circuits
OEEE-611B	o Electrical Engineering Materials
OEEE-611C	o Renewable Energy Sources

- **OEEE-612 Open Elective – 2**

OEEE-612A	o Energy Conservation Practices
OEEE-612B	o Energy Auditing and Management
OEEE-612C	o Utilization of Electrical Energy

- **OEEE-621 Open Elective – 3**

OEEE-621A	o Microprocessors and applications
OEEE-621B	o Elements of Power System
OEEE-621C	o Biomedical Instrumentation

- **OEEE-622 Open Elective – 4**

OEEE-622A	o Control System
OEEE-622B	o Microcontrollers and Applications
OEEE-622C	o Electrical Safety and Standards

- **OEEE-711 Open Elective – 5**


OEEE-711A	o Signals and Systems
OEEE-711B	o Sensors and Transducers
OEEE-711C	o Soft Computing Techniques

List of Mandatory Courses

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


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