

# BOS Minutes of Meetings FOR ELECTIVES

## Minutes of Meeting, Board of Studies, 30.6.15

### Minutes of the Board of Studies Meeting Of Electrical Engineering Department Held on 30<sup>th</sup> June, 2015 Venue: Committee Room

The following were present:

1. Dr. J.S.Dhillon
2. Dr. Piush Verma
3. Dr. Sanjay Marwaha
4. Dr. Lakhwinder Singh
5. Er. Pritam Singh
6. Pf. Jaswinder Singh
7. Dr. Y.S.Brar
8. Pf. Preetinder Singh
9. Dr. Kanwardeep Singh
10. Pf. Gagandeep Singh Sodhi
11. Pf. Arvind Dhingra
12. Pf. Navneet Singh Bhangu
13. Pf. Harmeet Singh Gill

Pf. Jaswinder Singh, Chairman, BOS welcomed the participants to the meeting. The agenda which had already been circulated was placed before the board.

1. The new study scheme was put up for discussion and approval. The chairman apprised the board that as per the college norms credit based scheme was being introduced and the same was put for approval of the board. The board after certain amendments unanimously approved the same.

APPROVED

2. The syllabus for 3<sup>rd</sup> and 4<sup>th</sup> semester was also presented. The syllabus for all the subjects included their Course Objectives and Course Outcomes. The syllabus was discussed at length and certain amendments were suggested which were duly incorporated. This was approved by the board.

APPROVED

3. The board members were of the view that syllabi for 5<sup>th</sup>, 6<sup>th</sup> & 7<sup>th</sup>/8<sup>th</sup> semester must be ready before December, 2015.

AGREED

There being no other matter, the meeting ended with a vote of thanks.

  
Chairman, BOS (EE)

Cc: Director for kind information  
Dean (Academic)  
All members of BOS (EE)

## Minutes of Meeting, Board of Studies, 9.12.16

### GURU NANAK DEV ENGINEERING COLLEGE, LUDHIANA ELECTRICAL ENGINEERING DEPARTMENT

#### Minutes of Meeting (Board of Studies)

Held on 9<sup>th</sup> December, 2016

Venue: Committee Room

The following members were present:

1. Dr.J.S.Dhillon
2. Dr.Y.S.Brar
3. Dr. Lakhwinder Singh
4. Er.Pritam Singh
5. Pf.Jaswinder Singh
6. Pf.Preetinder Singh
7. Dr.Kanwardeep Singh
8. Pf.Gagandeep Singh Sodhi
9. Pf.Arvind Dhingra
10. Dr. Navneet Singh Bhangu
11. Pf.Harmeet Singh Gill

Pf.Jaswinder Singh, Chairman, BoS welcomed the participants to the meeting. The agenda which had already been circulated was placed before the board.

1. The codes for all subjects of B.Tech (Electrical Engineering) were placed before the board. The Chairman informed the members that code change was necessary as the Dean(Academics), Guru Nanak Dev Engineering College, Ludhiana has directed all departments to follow uniform structure for subject codes. This is also necessary as per directions received from affiliating university: IKG Punjab Technical University, Kapurthala.

The board members agreed for the change and the changed codes are appended alongwith.

2. The Program Educational Objectives and Program outcomes for B.Tech (Electrical Engineering) and M.Tech (Power engineering) alongwith mission and vision statement of department were placed for review before the board.

The board members gave their valuable inputs which were recorded. The Chairman assured the board members that their suggestions shall be incorporated in the revised documentation.

3. The Chairman informed the board regarding upcoming accreditation visit for PG and compliance report for UG courses. In view of this board was of the view that Ph.D qualification faculty may be recruited to maintain cadre ratio.

  
- 1 19 2016

## Minutes of Meeting, Board of Studies, 14.7.17

Guru Nanak Dev Engineering College, Ludhiana

Electrical Engineering Department

Minutes of BoS Meeting

Date: 14.7.2017

Ref.No.

A meeting of Board of Studies of Electrical Engineering Department was held in the college committee room on 14.7.2017 at 10.00AM. The following were present:

1. Dr. J.S. Dhillon
2. Dr. Piush Verma
3. Dr. Sanjay Marwaha
4. Dr. Lakhwinder Singh
5. Dr. Yadwinder Singh Brar
6. Pf. Jaswinder Singh
7. Pf. Khushdeep Singh
8. Pf. Preetinder Singh
9. Pf. Rupinderjit Singh
10. Dr. Kanwardeep Singh
11. Pf. Gagandeep Singh Sodhi
12. Dr. Navneet Singh Bhangu
13. Pf. Harmeet Singh Gill
14. Pf. Arvind Dhingra

Chairman, BoS welcomed all to the 6<sup>th</sup> Board of Studies meeting.

The following points were discussed:

1. The revised vision and mission of Electrical Engineering Department were discussed and approved.
2. The syllabus for 7<sup>th</sup>/8<sup>th</sup> semester 2014 scheme B.Tech (Electrical) was put up for discussion. The members gave their valuable suggestions which were duly incorporated. The board members approved the syllabus.
3. The PEOs and POs of B.Tech (Electrical Engineering) & M.Tech (Power Engineering) were presented for validation of the board. These were duly validated by the board.
4. The syllabus for Basic Electrical Engineering 2017 batch was discussed and approved.

There being no other matter for discussion, the meeting ended with a vote of thanks.

HOD (EED) &

Chairman, BoS



# Minutes of Meeting, Board of Studies (internal), 27.2.18

GURU NANAK DEV ENGINEERING COLLEGE, LUDHIANA

ELECTRICAL ENGINEERING DEPARTMENT

Minutes of Meeting Board of Studies (Internal)

Held on: 27<sup>th</sup> February, 2018

Venue: Committee Room

Ref. No. EE/ 200/A

Dr. 27/2/18

The following member were present:

1. Pf. Jaswinder Singh, Chairman *Jaswinder Singh*
2. Pf. Khushdeep Singh (On Leave)
3. Pf. Preetinder Singh *Preetinder Singh*
4. Pf. Rupinderjit Singh *Rupinderjit Singh*
5. Dr. Kanwardeep Singh *Kanwardeep Singh*
6. Pf. Gagandeep Sjingh Sodhi *Gagandeep Sjingh Sodhi*
7. Dr. Navneet Singh Bhangu *Navneet Singh Bhangu*
8. Pf. Harmeet Singh Gill *Harmeet Singh Gill*
9. Dr. Arvind Dhingra *Arvind Dhingra*

Special Invitee

Er. Satish Saini = *Satish Saini*  
Chairman, Smart Grid Technical Activities,  
(SG TAC)- IEEE  
Senior Projects & Program Manager, Hydro One Networks Inc.  
Mississauga, Ontario, Canada.

Pf. Jaswinder Singh, Chairman, BoS welcomed the participants to the meeting and the following agenda points were discussed:-

1. The syllabus of the subject Smart Grids: Fundamentals & Technologies was placed before the board as it has to be added as an elective subject in 7<sup>th</sup> / 8<sup>th</sup> Semester of B.Tech (Electrical Engg) in 2017 Syllabus Scheme. The same was approved. (SUBJECT CODE : DEEG-17811)
2. The Environment Engg. Subject for 2017 Syllabus Scheme has to be taught to the students of 2017 batch B.Tech. (Electrical Engg) immediately after the completion of 2<sup>nd</sup> Semester. The syllabus for Environment Engg. is common to all branches and will be supplied by Civil Engineering department. The item was approved.
3. New codes and hours allotted for the subjects of 2017 Syllabus Scheme was discussed and placed before the board. The board approved the same.
4. Course outcomes of B.Tech (Electrical Engg) and M.Tech (Power Engg.) were reformulated and deliberated upon in the meeting. The board approved the same.

*Jaswinder Singh*  
HOD(Electrical) &  
Chairman. BoS

27/02/2018

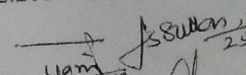
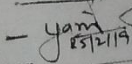
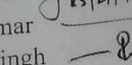
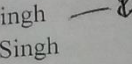
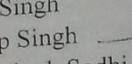
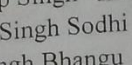
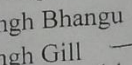
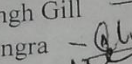
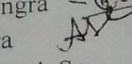
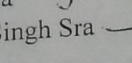
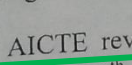
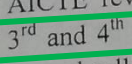
**GURU NANAK DEV ENGINEERING COLLEGE, LUDHIANA**  
**DEPARTMENT OF ELECTRICAL ENGINEERING**

February 25, 2019

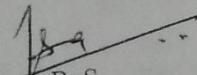
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**Minutes of Meeting**

A board of studies meeting of department of Electrical Engineering was held in college committee room on 25.2.2019. The following members were present:

1. Dr. J.S.Dhillon —  25.02.2019
2. Dr. Y.P.Verma —  25/2/19
3. Er. Dheeraj Kumar — 
4. Pf. Preetinder Singh — 
5. Pf. Rupinderjit Singh — 
6. Dr. Kanwardeep Singh — 
7. Pf. Gagandeep Singh Sodhi — 
8. Dr. Navneet Singh Bhangu — 
9. Pf. Harmeet Singh Gill — 
10. Dr. Arvind Dhingra — 
11. Dr. Amit Kamra — 
12. Pf. Jaswinder Singh Sra — 

Study scheme as per AICTE revised 2018 model curriculum was discussed for 2018 batch onwards. Syllabus for 3<sup>rd</sup> and 4<sup>th</sup> semester was discussed. The suggestions of the experts were incorporated. The scheme and syllabus after incorporating the comments are enclosed.

  
Chairman, BoS

**Guru Nanak Dev Engineering College, Ludhiana**

**Electrical Engineering Department**

**Minutes of BoS Meeting**

A meeting of Board of Studies of Electrical Engineering Department was held in the college committee room on 22.7.2019 at 11.00AM. The following were present:

1. Dr. Kanwardeep Singh
2. Dr. Yadwinder Singh Brar
3. Dr. Ashwani Kumar Sharma
4. Er. Saravdeep Singh Bhasur
5. Er. Pritam Singh
6. Pf. Khushdeep Singh
7. Pf. Preetinder Singh
8. Pf. Rupinderjit Singh
9. Pf. Gagandeep Singh Sodhi
10. Dr. Navneet Singh Bhangu
11. Pf. Harmeet Singh Gill
12. Dr. Arvind Dhingra
13. Pf. Ravinder Kaur
14. Pf. Sonia
15. CoE : Dr. Akshay Girdhar
16. T&P Nominee
17. Dean Academics

Chairman, BoS welcomed all to the meeting.

A two minute silence was observed to mourn the death of Pf. Jaswinder Singh, Ex-Chairman, BoS & HOD(EED).

The following points were discussed:

1. The study scheme of M.Tech (Power Engg.) & M.Tech (Electrical Engg.) as per revised AICTE guidelines were discussed and approved.
2. The syllabus for 1<sup>st</sup> Semester M.Tech (Power Engg.) & M.Tech (Electrical Engg.) as per revised AICTE guidelines were discussed and approved.
3. The syllabus for 3<sup>rd</sup> and 4<sup>th</sup> Semester B.Tech (Electrical Engg.) for 2018 batch onwards was discussed and passed.
4. Study scheme for 5<sup>th</sup> to 8<sup>th</sup> semester for B.tech 2018 batch onwards were discussed and passed.
5. Minor degree courses were discussed. It was decided to float core electrical subjects. The Chairman, BoS was authorized to select and float the subjects in consultation with internal BoS.
6. Panel of examiners for all programs of Electrical Engineering department was approved.

The meeting ended with a vote of thanks.

HOD(EED) &

Chairman, BoS

LIST OF ELECTIVE SUBJECTS, M.TECT ELECTRICAL (PART TIME), 2014 ONWARDS

SUBJECT CODE COURSE TITLE

MTEE – 601	Research Methodology
MTEE – 602	EHVAC & HVDC Transmission System
MTEE – 603	Energy Efficient Machines
MTEE – 604	Power System Planning
MTEE – 605	Special Electric Machines
MTEE – 606	Industrial Drives & Automation
MTEE – 607	Power System Reliability
MTEE – 608	High Voltage Engg. and Test Techniques
MTEE – 609	Microprocessor and Microcontroller
MTEE – 610	Power System Dynamics and Stability



MTEE – 611	Power System Transients
MTEE – 612	Real Time Instrumen tation
MTEE - 613	Load and Energy Managem ent
MTEE – 614	Modeling and Dynamics of Electrical Machines
MTEE – 615	Renewabl e Energy Resources
MTEE – 616	Reliability Engineerin g
MTEE – 617	Optimizati on Technique s
MTEE – 618	Neural Networks & Fuzzy Logic
MTEE – 619	Organizati on and Finance in Power Sector

## LIST OF ELECTIVES, B.TECH ELECTRICAL, 2014 ONWARDS

### COURSE CC COURSE TITLE

DEEE- 145C RENEWABLE ENERGY RESOURVES  
DEEE- 145C ELECTRICAL DESIGN & ILLUMINATIIN  
DEEE- 145C ELECTRICAL ENGINEERING MATERIALS  
DEEE- 145C ENERGY AUDITING & MANAGEMENT  
DEEE- 145C SOLAR TECHNOLOGIES  
DEEE- 145C ANALOG INTEGRATED CIRCUITS  
DEEE- 146C POWER SYSTEM OPERATION & CONTROL  
DEEE- 146C COMPUTER AIDED ELECTRICAL MACHINE DESIGN  
DEEE- 146C OPTIMIZATION TECHNIQUES  
DEEE- 146C ENERGY CONVERSION  
DEEE- 146C ROBOTIC CONTROL SYSTEM  
DEEE- 146C PROCESS DYNAMIC AND CONTROL  
DEEE- 148C FUZZY LOGICS & SYSTEMS  
DEEE- 148C POWER SYSTEM PLANNING  
DEEE- 148C POWER SYSTEM RESTRUCTURING & DEREGULATION  
DEEE- 148C SYSTEM ENGINEERING & RELIABILITY  
DEEE- 148C ADVANCED MICROPROCESSORS  
DEEE- 148C DIGITAL SIGNAL PROCESSING  
DEEE- 148C SIGNAL & SYSTEMS  
DEEE- 148C FLEXIBLE AC TRANSMISSION SYSTEMS  
DEEE- 148C NEURAL NETWORKS  
DEEE- 1481 ENERGY EFFICIENT MACHINES  
OEEE- 146C NON CONVENTIONAL ENERGY SOURCES  
OEEE- 146C ENERGY AUDITING & MANAGEMENT

LIST OF ELECTIVE SUBJECTS, M.TECH , POWER 2014 ONWARDS

COURSE CC COURSE TITLE

MTEE – 601	Research Methodology
MTEE – 602	EHVAC & HVDC Transmission System
MTEE – 603	Energy Efficient Machines
MTEE – 604	Power System Planning
MTEE – 605	Special Electric Machines
MTEE – 606	Industrial Drives & Automation
MTEE – 607	Power System Reliability
MTEE – 608	High Voltage Engg. and Test Techniques
MTEE – 609	Microprocessor and Microcontroller

MTEE – 610	Power System Dynamics and Stability
MTEE – 611	Power System Transients
MTEE – 612	Real Time Instrumentation
MTEE - 613	Load and Energy Management
MTEE – 614	Modeling and Dynamics of Electrical Machines
MTEE – 615	Renewable Energy Resources
MTEE – 616	Reliability Engineering
MTEE – 617	Optimization Techniques
MTEE – 618	Neural Networks & Fuzzy Logic
MTEE – 619	Organization and Finance in Power Sector



LIST OF ELECTIVE SUBJECTS, B.TECH , ELECTRICAL 2018 ONWARDS

TRACK I: ENERGY CONSERVATION & POWER SYSTEMS

COURSE CC COURSE TITLE

PEEE-101	Renewable Energy Sources
PEEE-103	Solar and Wind Energy
PEEE-105	Energy Efficient Machines
PEEE-107	Computer Aided Electrical Machine Design
PEEE-109	Power System Reliability
PEEE-111	Power System Planning
PEEE-113	Sub-Station Automation
PEEE-115	Smart Grids
PEEE-117	High Voltage Engineering
PEEE-119	High Voltage Transmission

PEEE-121	Power Quality Improvement
PEEE-123	Digital Protection of Power system

TRACK  
II:  
INSTRUMENTATION & CONTROL SYSTEM

COURSE CODE    COURSE NAME

PEEE-102	Embedded Systems & PLC
PEEE-104	Automatic Control & Robotics
PEEE-106	Digital Control System
PEEE-108	Process Dynamics and Control
PEEE-110	Optimization Techniques

PEEE-112	Artificial Intelligence Techniques
PEEE-114	Digital Signal Processing
PEEE-116	Biomedical Signals & Instrumentation
PEEE-118	SCADA & Distributed Control System
PEEE-120	Data Communication and Networking
PEEE-122	Virtual Instrumentation
PEEE-124	Fuzzy Expert Systems

**ical Engineering Department to all other Departments.**

COURSE CODE    COURSE NAME

OPEE-101	Energy Auditing and Management
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OPEE-102	Elements of Power System
OPEE-103	Non-Conventional Energy Sources
OPEE-104	Automation Control and Robotics
OPEE-105	Soft Optimization Techniques
OPEE-106	Smart Electrical Machines



LIST OF ELECTIVE SUBJECTS, M.TECH , POWER/ ELECTRICAL 2018 ONWARDS

COURSE CC COURSE TITLE

MEP-103	Renewable Energy System
MEP-104	Smart Grids
MEP-105	Dynamics of Electrical Machines
MEP-106	SCADA System and Applications
MEP-107	Electrical Power Distribution System
MEP-108	Mathematical Methods for Power Engineering
MEP-109	Pulse Width Modulation for Power Electronics Converters
MEP-110	Electric and Hybrid Vehicles
MEP-113	Restructured Power Systems

MEP-114	Advanced Digital Signal Processing
MEP-115	High Power Converter s
MEP-116	Power Apparatus Design
MEP-117	Advanced Micro- Controller Based Systems
MEP-118	Wind and Solar Systems
MEP-119	Power Quality
MEP-120	Artificial Intelligenc e Technique s
MEP-121	Power System Transients
MEP-122	Flexible AC Transmiss ion and Custom Power Devices
MEP-123	Industrial Load Modeling and Control

MEP-124	Dynamics of Linear Systems
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OPEN  
ELECTIV  
ES  
COURSE COURSE  
CODE TITLE

MOEP-101	Renewabl e Energy System
MOEP-102	Optimizati on Technique s
MOEP-103	Organisati on & Finance in Power Sector
MOEP-104	Electric and Hybrid Vehicles