

1.1.3 & 1.2.1

Supporting Documents - Electrical Engineering

**MOMs Highlighting Employability Courses_1.1.3 &
Approved MOMs of BOS/ Academic Council
Highlighting the Name of New Courses Introduced_1.2.1**



IK Gujral Punjab Technical University

Minutes of the Meeting

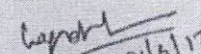
Meeting of Board of Studies (Electrical Engineering), venue Conference hall, 2nd Floor, Deptt. of Academics Date and Time: June 21st 2017 & 11:00 am to 3:00 pm

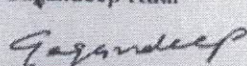
The following members were present:

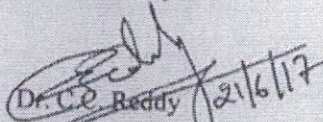
1. Dr. Y.S.Brar
2. Dr. C.C. Reddy
3. Dr. R.S. Khela
4. Dr. Sudhir Sharma
5. Dr. Gagandeep Kaur
6. Dr. Kanwardeep Singh
7. Dr. Navneet Singh Bhangu
8. Er. Gagandeep Kaur
9. Dr. J.S. Chahal
10. Dr. Deepika Bhalla

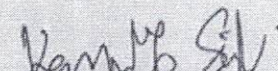
The board took the agenda and discussed the following:

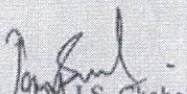
1. The exiting scheme of B.Tech Electrical Engineering was reviewed.
2. The members proposed the draft of new scheme for the Batch 2018-2019 onwards.
3. The members suggested that the proposed scheme of B.Tech Electrical Engineering shall be displayed on University website for inviting suggestions from the stakeholders.
4. The Board members suggested that the meeting be convened again to discuss any suggestion regarding the scheme and to propose the draft for the course contents.
5. The meeting ended with the vote of thanks to the chair.

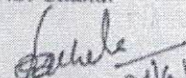

Dr. Gagandeep Kaur

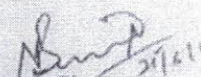

Er. Gagandeep Kaur

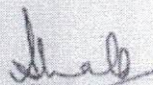

Dr. C.C. Reddy

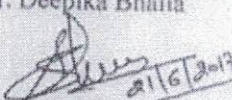

Dr. Kanwardeep Singh

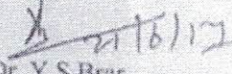

Dr. J.S. Chahal


Dr. R.S. Khela


Dr. Navneet Singh Bhangu


Dr. Deepika Bhalla


Dr. Sudhir Sharma


Dr. Y.S. Brar

Head
Department of Electrical Engineering
IK Gujral Punjab Technical University
Kapurthala-144000

Attendance Sheet

Meeting of... Board of Study Electrical Engg.
held on 21/06/2017 at 11:00 AM meeting hall, Academic Deptt. IKG PTU

Sr. No.	Name & Address	Contact Number	E-Mail I.D.	Signature
1.	Dr. Kamwardeep Singh, Deptt. of EE G.N.D.E.C. Ludhiana	95014-11533	KDS97DEE@GMAIL.COM	KDK
2.	Dr. N S Bhangu Deptt. of Elect. Engg. GNDEC Ludhiana	98728-27229	namneetbhangu@gmail.com	Bhangu
3.	Dr. Raja Singh Khela Director-Principal, DIET, Khara	9888634562	rskhela@rediffmail.com	21/6/17
4.	Dr. Deepika Bhatta Deptt. of EE, IKGPTU main campus Kapurthala	9465884858	deepika.bhatta81@gmail.com	21/6/17
5.	Jaspreet Singh Chahal Asst Prof (EE) IKGPTU main campus	946584841	JSCHAHAL@PTU-ACIN	21/6/17
6.	Dr. Sudhir Sharma Associate Prof. (EE) DAV SET, Jalandhar	9872203721	Sudhir-abc@gmail.com	21/6/17
7.	Gagandeep Kaur Associate Prof. (EE) main campus, IKGPTU	94780 98118	gaganpik@gmail.com	Gagandeep 21/6/17
8.	Chandrabhan Reddy Associate prof. based IIT Roorkee	94170 34192	reddy@iitrpr.ac.in	21/6/17
9.	D. J. S. Bhan Professor IKGPTU KPT	94780 98013	bhanjadsingh@yahoo.co.in	21/6/17
10.	Dr. Gagan Deep Kaur	8146722433	gagandeep@thapsu.edu	21/6/17

Head
Department of Electrical Engineering
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Kapurthala-144006

I K Gujral Punjab Technical University
(Main campus), Kapurthala

Board Of Study Electrical Engineering

Ref No: IKGP/EE/630.

date: 12/12/17

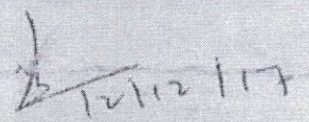
Reference to the 2nd meeting of Board of Study Electrical Engineering on 06.12.2017. find attached with:

- I. Copy of the Minutes of Meeting
- II. Vision & Mission of Electrical Engineering Department of IKGPTU main campus
- III. Programme Educational objectives (PEOs) and Programme Outcomes (POs) and Course Outcomes

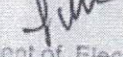
(Cos) of:

- a. B. Tech. (Electrical Engineering)
- b. M. Tech. Electrical Engineering
- c. M. Tech. (Power Engineering)
- d. M. Tech. Electrical Engineering (Power Systems)

Submitted for kind perusal and record.


Dr Y S Brar
Chairman
BOS (Electrical Engineering)

Dean (Academic)

Head 
Department of Electrical Engineering
I.K. Gujral Punjab Technical University
Kapurthala-144006

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I K Gujral Punjab Technical University
(Main campus), Kapurthala

Department of Electrical Engineering

Minutes of Meeting

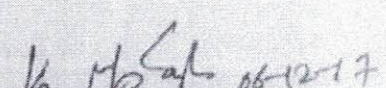
The 2nd meeting of BoS (Electrical Engg.) was held under the Chairmanship of Prof. Y S Brar in the Conference room, 2nd floor at IKGPTU dated 06.12.2017. The members discussed and approved following agenda items:

1. The members deliberated upon the draft scheme of BTech (Electrical Engg.) proposed in 1st BoS meeting held on 21-06-17, it was decided that in the light of recent AICTE guidelines regarding UG curriculum, the scheme shall be redesigned accordingly and shall be brought in the next BoS meeting.
2. Draft of Vision & Mission of the Electrical Engineering Department of IKGPTU Main campus were discussed and approved.
3. Members deliberated on the Program Educational Objectives (PEOs) and Course Outcome (COs) of B.Tech (Electrical Engg.), M.Tech (Electrical Engg.), M.Tech (Power System), M.Tech (Power Engg.) and M.Tech Electrical Engg.(Power Engg.) and approved the draft for the same.
4. It was further discussed by the members that scheme of all M.Tech program of Electrical Engg. shall be revised to include atleast one lab course.

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

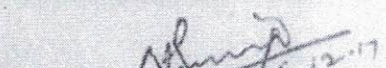

Prof. Y S Brar


Prof. C C Reddy


Prof. Kanwardeep Singh



Dr. Gagandeep Kaur


Dr. Sudhakar Sharma

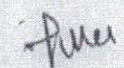

Dr. Navneet Singh Bhangu


Dr. J S Chahal



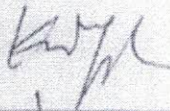
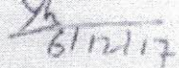
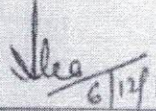
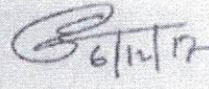
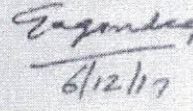
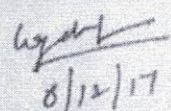
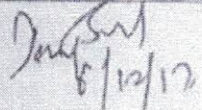
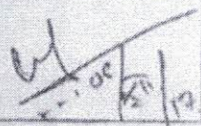

Dr. Deepika Bhalla

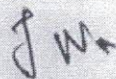

Dr. Gagandeep Kaur


Er. Navdeepak Sandhu


Head
Department of Electrical Engineering
I.K. Gujral Punjab Technical Unive.
Kapurthala-144006

Attendance Sheet
 Meeting of... Board of Studies, Electrical Engg. ...
 held on 6/12/2017 at 11:00 AM meeting hall, Academic Deptt. IKG PTU

Sr. No.	Name & Address	Contact Number	E-Mail I.D.	Signature
1.	Dr. Sudhir Sharma Associate Prof + Head DAVJET, Jalandhar	98782-03726	sudhir.abc@gmail.com	
2.	Dr. Navneet Singh Bhangu Asstt. Prof. EED GNDEC, Ludhiana	98782-27229	navneetbhangu@gmail.com	
3.	Dr. Kamwardeep Singh EED, GNDEC Ldh.	95014-11533	KDS97DEE@gmail.com	
4.	Dr. Y.S. Bhat EED, IKGPTU, KPT	94780-98013	brangadwivedi@yahoo.co.in	 6/12/17
5.	Dr. Deepika Bhatta Asst. Prof. EE IKGPTU, Kapurthala	94658-84858	dbhatta@ptu.ac.in	 6/12/17
6.	C. C. Reddy Associate Professor IIT Ropar	94170-34192	reddy@iitrpr.ac.in	 6/12/17
7.	Gagandeep Kaur Associate Prof. IKGPTU, Jalandhar	94780-98118	gaganpik@gmail.com	 6/12/17
8.	Dr. Gagan Deep Kaur Thapar University Patiala	814672-433	gagandeep@thapar.edu	 8/12/17
9.	Dr. Jyoti Singh Chahal EED, IKGPTU	94658-84841	JSCHAHAL@PTU.AC.IN	 8/12/17
10.	Dr. Navdeep Singh Asstt. Prof. Sgt. Dr. C. K. S. (M) M. A. U.	94780-98040	navdeep.ptu@gmail.com	 8/12/17


 Head
 Department of Electrical Engineering
 I.K. Gujral Punjab Technical University
 Kapurthala-144006

Minutes of Meeting held on 19.04.2018

The 3rd meeting of BoS (Electrical Engg.) was held under the Chairmanship of Prof. Y S Brar in the Conference room, 2nd floor at IKGPTU on 19.04.2018.

1. As proposed in 2nd Meeting of BoS held on 21-06-17 Laboratory courses have been included in the M. Tech. Programme.
2. The members discussed and approved following items:
 - A: Under Graduate Programme (Electrical Engineering)
 - i. Syllabus of Common Basic Sciences Course:
Basic Electrical Engineering, BTEE-101-18, 4 credits)
Basic Electrical Engineering Laboratory BTEE-102-18, 1 credit)
 - ii. Inclusion of three weeks of Induction Programme in the initial 3 weeks of B. Tech 1st Semester Electrical Engineering.
 - iii. Minimum credits as per scheme are required by a student to be eligible to get Under Graduate degree in Electrical Engineering. A student will be eligible to get Under Graduate degree with Honours or additional Minor Engineering, if he/she completes an additional 20 credits. These could be acquired through MOOCs.
 - iv. Students may take at least one Virtual laboratory from the list provided by AICTE in 2018.
 - v. Six weeks Summer Industry Internship: Six weeks in an Industry in the area of Electrical Engineering. The summer internship should give exposure to the practical aspects of the discipline. In addition, the student may also work on a specified task or project which may be assigned to him/her. The outcome of the internship should be presented in the form of a report. Performance to be rated as Satisfactory/Unsatisfactory (S/US). For unsatisfactory performance the internship to be repeated.
 - vi. Open Elective: The student may choose a subject of 03 credits offered by any other Engineering Department in that semester as an Open Elective.
 - B: Post Graduate Programme
 - i. Teaching Scheme of M. Tech. Electrical Engineering (Power System)
 - ii. Teaching Scheme of M. Tech. Electrical Engineering
 - iii. Teaching Scheme of M. Tech. Power Engineering
 - iv. Teaching Scheme of M. Tech. Power System
 - v. 1st Semester Syllabus of M. Tech. Electrical Engineering (Power System)
 - vi. 1st Semester Syllabus of M. Tech. Electrical Engineering
 - vii. 1st Semester Syllabus of M. Tech. Power Engineering
 - viii. 1st Semester Syllabus of M. Tech. Power System

3. The members discussed and approved following drafts:
A: Under Graduate Programme (Electrical Engineering)

- i. Teaching Scheme of B. Tech. Electrical Engineering from 3rd to 8th Semester.
- ii. Syllabus of B. Tech. Electrical Engineering from 3rd to 8th Semester

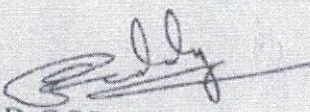
B: Post Graduate Programme

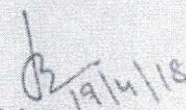
- i. 2nd to 4th semester Syllabus of M. Tech. Electrical Engineering (Power System)
- ii. 2nd to 4th semester of M. Tech. Electrical Engineering
- iii. 2nd to 4th semester of M. Tech. Power Engineering
- iv. 2nd to 4th semester of M. Tech. Power System

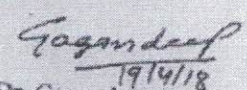
The drafts of Teaching schemes to be put in public view (website of University) for comments and final decision

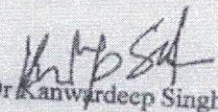
4. For Subject titles which are of Open Electives Courses and Mandatory Courses and Humanities and Social Sciences including Management Courses etc code used include "X" and/or "Y" and these may be changed accordingly.
5. Programme Educational Objectives of B.Tech.: Electrical Engineering to be the same as approved in the 2nd Meeting of BoS held on 21-06-17.
6. There being no further points the meeting ended with a vote of thanks to the chair.

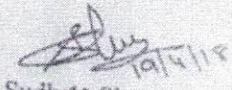

Prof. Y S Brar



Dr C C Reddy

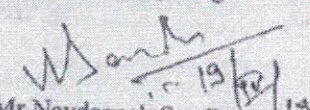

Dr Raja Singh Khela

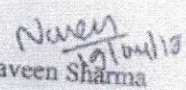

Dr. Gagandeep Kaur

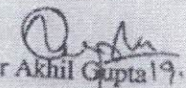

Dr Kanwardeep Singh

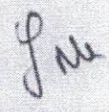

Dr. Sudhakar Sharma


Dr. Deepika Bhalla


Mr Navdeepak Sandhu


Dr Naveen Sharma


Dr Akhil Gupta


Head
Department of Electrical Engineering
I.K. Gujral Punjab Technical University
Kapurthala-144005

The meeting started with the welcome address to the special invitees and the members of the BoS by the Dr Y S Brar, Chairman BoS(EE). The following points were discussed and deliberated upon:

- Head
Department of Electrical Engineering
J.K. Gujral Punjab Technical University
Kapurthala-141006

3 414

I K Gujral Punjab Technical University
(Main campus), Kapurthala
Board of Studies: Electrical Engineering

Minutes of Meeting held on 01.11.2018

• **M. Tech. Power System**

- (iii) Syllabus of M. Tech. Electrical Engineering (Power System) 2nd to 4th semester.
- (iv) Syllabus of M. Tech. Electrical Engineering 2nd to 4th semester.
- (v) Syllabus of M. Tech. Power Engineering 2nd to 4th semester.
- (vi) Syllabus of M. Tech. Power System 2nd to 4th semester.

7. **Suggestions Received:**

(a) **Post Graduate Programme:** Audit Course I & II, all the courses to be kept in one common pool for 2019 Scheme.

(b) **Under Graduate Programme:** Feedback to be collected in regard with the content of Module 5 of BTEE:101-18 Basic Electrical Engineering

8. There being no further points the meeting ended with a vote of thanks to the chair.

Members of BoS

Dr Y S Brar
Chairman, BoS(EE)

Gagandeep
01/11/18
Dr Gagandeep Kaur

Dr Kanwardeep Singh

Dr Sudhir Sharma

Dr Deepika Bhalla

Dr Navdeep Singh Bhangu

Naveen
01/11/18
Dr Naveen Sharma

Special Invitee

Mr Sukhmander Singh, Addl. SE,
PSPCL Jalandhar

Dr Rajneesh Sachdeva

Dr Ashish Arora

Dr Kultar Deep Singh

Dr Chander Prakash

Dr J S Bawa

Dr Vandana Nathani

Head

Department of Electrical Engineering
I.K. Gujral Punjab Technical University
Kapurthala-144006

I K Gujral Punjab Technical University- Jalandhar, Kapurthala
Board of Studies: Electrical Engineering

Minutes of Meeting held on 26.03.2019

The 5th meeting of BoS (Electrical Engg.) was held under the Chairmanship of Prof. Y S Brar in the Conference room, 2nd floor at IKG Punjab Technical University Jalandhar on 26.03.2019 at 11:00am.

The meeting started with the welcome address to the special invitees and the members of the BoS by the Dr Y S Brar, Chairman BoS(EE). The previous minutes of meeting were read out. All present were informed that the tenure of the BoS had been extended up till 31/03/2019. (Ref no: IKGPTU/Reg/OO/552, dated 08/03/2019.)

The following agenda items were discussed:

Item No.	Agenda	Discussions and Decision
Post Graduate Programme:		
1.	To accept Course Code and the Syllabus of Mathematics III (Probability and Statistics) proposed by BoS(Mathematical Sciences).	The Course Code and Syllabus of Mathematics-III received from BoS (MS) was accepted.
2.	To review the teaching scheme of B. Tech Electrical Engineering Programme in context with the Mandatory Courses (Ref no. IKG-PTU/DA/1475 dated 08-02-2019, the syllabus of Environmental Science with Course Code EVA-102/18 for all Under graduate UG programmes to be adopted in the 1 st year).	The syllabus of Environmental Science with Course Code EVA-102/18 for all Under graduate UG programmes to be adopted in the 1 st year was accepted.
3.	Ref. no. IKGPTU/DA/03/280, Dated 26-02-2019, necessary changes in Range of Credits for Honours Degree and range of Credits and Courses for Major Degree in B.Tech.-Electrical Engineering and Minor Degree in B.Tech. (other engineering).	The minimum credits required for Minor Degree in Programs under BoS(EE) to be 20. The required changes were discussed and deliberated upon. The Members of Bos(EE) authorize Chairman Bos(EE), HoD(EE) and Coordinator BoS(EE) to sign relevant documents
4.	To approve the Teaching Scheme and syllabus of 3 rd and 4 th Semester for B. Tech. Electrical Engineering.	Base on Item no.2 and 3 the following were approved:

Agenda

[Handwritten signatures and dates: 26/3/19, 26/3/19, 26/3/19, 26/3/19, 26/3/19, 26/3/19, 26/3/19, 26/3/19, 26/3/19, 26/3/19]

Head
Department of Electrical Engineering
I.K. Gujral Punjab Technical University
Kapurthala-144906

Item No.	Agenda	Discussions and Decision
6.	To approve the Teaching Scheme and syllabus of 3 rd and 4 th Semester for B. Tech. Electronics and Electrical Engineering.	<p>After detailed discussion and deliberation, the following were approved:</p> <ul style="list-style-type: none"> (i) Teaching Scheme of B. Tech. Electronics and Electrical Engineering for 3rd & 4th Semester. (ii) Syllabus of B. Tech. Electronics and Electrical Engineering for 3rd & 4th Semester. <p>After detailed discussion and deliberation, the draft of syllabus of 3rd and 4th Year B. Tech. Electronics and Electrical Engineering is to be placed on the website for feedback.</p> <p>The Members of Bos(Ee) authorize Chairman Bos(Ee), HoD(Ee) and Coordinator Bos(Ee) to sign relevant documents.</p>
7.	To approve the Teaching Scheme and syllabus of 3 rd and 4 th Semester for B. Tech. Electrical Engineering and Industrial Control.	<p>After detailed discussion and deliberation, the following were approved:</p> <ul style="list-style-type: none"> (i) Teaching Scheme of B. Tech. Instrumentation and Control Engineering for 3rd & 4th Semester. (ii) Syllabus of B. Tech. Instrumentation and Control Engineering for 3rd & 4th Semester. <p>After detailed discussion and deliberation, the draft of syllabus of 3rd and 4th Year B. Tech. Instrumentation and Control Engineering is to be placed on the website for feedback.</p> <p>The Members of Bos(Ee) authorize Chairman Bos(Ee), HoD(Ee) and</p>

Head
Department of Electrical Engineering
I.K. Gujral Punjab Technical University
Kapurthala-144006

Item No.	Agenda	Discussions and Decision
		Coordinator BoS(EE) to sign relevant documents.
8.	To approve the Teaching Scheme and syllabus of 3 rd and 4 th Semester B. Tech. Instrumentation and Control Engineering	Deferred to next meeting
10.	To review the feedback of the subject BEE-101-18 Basic Electrical Engineering.	Module 5 to be removed and topic of Contactors to be introduced in Module: Electrical Installations.
Post Graduate Programme:		
9.	Ref no.: IKGPTU/DA/1279, Dated 28/11/2019, To approve the decision regarding the Audit Courses of M. Tech. Programme.	Accepted
PhD Programme:		
11.	To approve the Interdisciplinary subjects for PhD Course work in Electrical Engineering.	After detailed discussion and deliberation, the Interdisciplinary subjects for PhD Course work and Course Code are approved
Additional Points		
12.	Range of Credits for Honors Degree	Minimum credits as per scheme are required by a student to be eligible to get Under Graduate degree in Electrical Engineering. A student will be eligible to get Under Graduate degree with Honours, if he/she completes an additional 20 credits. These could be acquired through MOOCs and registering in the department.
13.	Regarding Open Electives for all Undergraduate B. Tech. programs under BoS(EE).	Open Elective: A student may take Courses from the list of Open Electives offered by other Departments or MOOCs Courses of SWAYAM/MOOCs courses approved by the Board of Studies
14.	Vision and Mission Statement Programme Educational Objectives and (c) Programme Outcomes approved in the 2 nd meeting of BoS(EE) held on 06/12/2017.	Vision and mission statement approved for all for all Undergraduate B. Tech. programs under BoS(EE).

Head
Department of Electrical Engineering
I.K. Gujral Punjab Technical University
Kapurthala-144006

Item No.	Agenda	Discussions and Decision
15.	Programme Educational Objectives (PEOs) and Programme Outcomes (POs) drafted in the 2 nd meeting of BoS(EE) held on 06/12/2017.	Programme Educational Objectives (PEOs) and Programme Outcomes (POs) are approved for all Undergraduate B. Tech. programs under BoS(EE).
16.	To approve the decision of number of Credits for Dissertation I and II of M. Tech Programme taken in the Meeting of Chairman of BoSs of IKGPTU	Accepted and Approved

Dr Y S Brar, Chairman thanked the members of the BoS(EE) for their contribution throughout the tenure of the BoS(EE) Special Thanks to the Special Invitees to the 5th Meeting of BoS(EE). There being no further points the meeting ended with a vote of thanks to the chair.

Members of BoS	Special Invitee
Dr Y S Brar, Chairman BoS	Dr J S Dhillon, SLIET Longowal
Dr Raja Singh Khela	Dr Dilbagh Singh, NIT Jalandhar
Dr Chakardhar Reddy	Dr. Smarajit Ghosh, TIET Patiala
Dr Gagandeep Kaur	Dr G S Brar, BBSBEC Fatehgarh Sahib
Dr Kanwardeep Singh	Dr Rakesh Kumar, IKGPTU Amritsar Campus
Dr Sudhir Sharma	Dr Kamaljeet Bhatia, IKGPTU Batala Campus
Dr Deepika Bhalla	Dr Naveen Sharma, IKGPTU Batala Campus
Dr Navneet Singh Bhangu	Dr Akhil Gupta, IKGPTU Batala Campus
Dr Navdeepak Sandhu	Dr Jagmeet Bawa, IKGPTU Main Campus Kapurthala
	Dr Jujhar Singh, IKGPTU Main Campus Kapurthala

Head
Department of Electrical Engineering
I K Goyal Punjab Technical University
Kapurthala-144006

Minutes of Meeting held on 26.06.2019

The 1st meeting of Board of Studies for Electrical Engineering (Main Campus and Constituent Campuses)

was held under the Chairmanship of Prof. Y S Brar in the Director (Main Campus) Office at IKG Punjab Technical University Jalandhar on 26.06.2019 at 11:45am.

The meeting started with the welcome address to the members of BoS (EE) and special invitee by the Dr Y S Brar. The following agenda items were discussed and decisions taken:

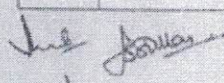
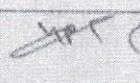

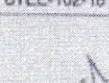
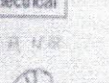
Item No.	Agenda	Discussions and Decision
1.1	To adopt the Vision and Mission statement of Department of Electrical Engineering approved the 5 th Meeting of BoS (EE) of IKGPTU and make any changes so that it is in line with that of the University.	<p>The Vision and Mission statement of Department of Electrical Engineering of Main Campus and Constituent Campuses are adopted and finalised (Annexure: A).</p> <p>The Members of BoS (EE) authorize Chairman BoS (EE), HOD (EE) and Coordinator BoS (EE) to sign relevant documents.</p>
1.2	To adopt the relevant study scheme and syllabus of IKGPTU for the present batches of main campus and constituent campuses.	<p>The study scheme and syllabus for the present batches of Main Campus and Constituent Campuses for:</p> <ul style="list-style-type: none"> • B. Tech. (EE) Batch 2016-20 and Batch 2017-21 of Main Campus and Constituent Campuses: IKGPTU Scheme & Syllabus of B. Tech. Electrical Engineering [EE] Batch 2011 of IKGPTU are adopted. • B. Tech. (EE) Batch 2018-22 of Main Campus and Constituent Campuses: IKGPTU Scheme & Syllabus of B. Tech. Electrical Engineering [EE] Batch 2018 of IKGPTU are adopted. • B. Tech. (EE) Batch 2019-23 of Main Campus and Constituent Campuses: IKGPTU Scheme & Syllabus of B. Tech. Electrical Engineering [EE] Batch 2019 of IKGPTU are adopted. • M. Tech EE(PS) Batch 2018-20 and Batch 2019-21 of Main Campus and Constituent Campuses: IKGPTU Scheme & Syllabus of M. Tech. Electrical Engineering [PS] Batch 2018 of IKGPTU are adopted.
1.3	To finalise the syllabus of subject relevant to 1 st /2 nd year of 2019 batch.	<p>For 1st year subjects/courses common to all branches:</p> <ul style="list-style-type: none"> • BTEE-101-18 Basic Electrical Engineering • BTEE-102-18 Basic Electrical Engineering Laboratory

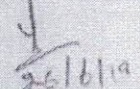
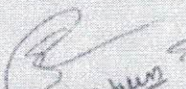


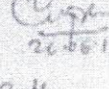
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Head
Department of Electrical Engineering
I.K. Gujral Punjab Technical University
Kapurthala-141006

I K Gujral Punjab Technical University- Jalandhar, Kapurthala
Board of Studies for Electrical Engineering (Main Campus and Constituent Campuses)

Item No.	Agenda	Discussions and Decision
		<ul style="list-style-type: none"> Reference to feedback received from stakeholders on the syllabus of the above subjects/courses in the 5th meeting of BoS EE (period 2018-19) held on 26/03/2019 the changes made for IKGPTU Scheme & Syllabus Batch 2019 are adopted for Main Campus and Constituent Campuses (Annexure B). <p>The Members of BoS (EE) authorize Chairman BoS (EE), HOD (EE) and Coordinator BoS (EE) to sign relevant documents.</p>
1.4	Design the study scheme and syllabus for 2019 Batch and keep it in line with the guidelines of Major and Minor degree, achievement of credits through SWAYAM/MOOCs courses.	<p>The BoS EE (Main Campus and Constituent Campuses) approved On-line SWAYAM /MOOCs courses (for Semester July-Nov 2019) for Minor Degree in Electrical Engineering (Annexure C).</p> <p>The Members of BoS (EE) authorize Chairman BoS (EE), HOD (EE) and Coordinator BoS (EE) to sign relevant documents.</p>
1.5	To decide the PO, PEOs, Graduate Attributes for the programmes offered (a) B. Tech (EE) (b) M. Tech EE(PS)	<p>The draft of PO, PEOs of (a) B. Tech (EE) (b) M. Tech EE(PS) approved in the 2nd meeting of BoS(EE) (period 2018-19) held on 06/12/2017 are adopted for Main Campus and Constituent Campuses (Annexure D).</p> <p>The Members of BoS (EE) authorize Chairman BoS (EE), HOD (EE) and Coordinator BoS (EE) to sign relevant documents.</p>
1.6	To decide the COs of the courses and ensure their achievement through the question papers.	<p>The COs of "IKGPTU Scheme & Syllabus of B. Tech. Electrical Engineering [EE] Batch 2011" are already defined in 2nd meeting of BoS EE (period 2018-19) held on 06.12.2017 are adopted for Main Campus and Constituent Campuses.</p> <p>The COs of "IKGPTU Scheme & Syllabus of B. Tech. Electrical Engineering [EE] Batch 2018" courses approved in the 5th meeting of BoS EE (period 2018-19) held on 26/03/2019 are adopted for Main Campus and Constituent Campuses.</p> <p>The COs of 1st year courses/subjects: BTEE-101-18 Basic Electrical Engineering and BTEE-102-18 Basic Electrical</p>

26/6/19

Head
 Department of Electrical Engineering
 I.K. Gujral Punjab Technical University
 Kapurthala-144006

I K Gujral Punjab Technical University- Jalandhar, Kapurthala
Board of Studies for Electrical Engineering (Main Campus and Constituent Campuses)

Item No.	Agenda	Discussions and Decision										
		<p>Engineering Laboratory courses approved in the 5th meeting of BoS EE (period 2018-19) held on 26/03/2019 are adopted for Main Campus and Constituent Campuses.</p> <p>The draft of question paper pattern for Mid-Session Tests is approved (Annexure: E).</p> <p>The Members of BoS (EE) authorize Chairman BoS (EE), HOD (EE) and Coordinator BoS (EE) to sign relevant documents.</p>										
1.7	(Additional point) To decide On-line courses to be offered in the session July-November 2019 for credits required for Honors Degree in Electrical Engineering.	<p>The BoS EE (Main Campus and Constituent Campuses) approved On-line SWAYAM /MOOCs courses (for Semester July-Nov 2019) for Honors Degree in Electrical Engineering (Annexure: F)</p> <p>The Members of BoS (EE) authorize Chairman BoS (EE), HOD (EE) and Coordinator BoS (EE) to sign relevant documents.</p>										
1.8	(Additional point) Decision on the number of credits to be assigned for the duration (per week) for SWAYAM/MOOCs undertaken for Honors Degree and For Minor Degree in other Branch/Discipline.	<p>It was recommended that the number of credits to be assigned for the duration (per week) for SWAYAM/MOOCs undertaken for Honors Degree and for Minor Degree in other Branch/Discipline be:</p> <table><thead><tr><th>Weeks</th><th>Credits</th></tr></thead><tbody><tr><td>3-5 Weeks</td><td>1</td></tr><tr><td>8-9 Weeks</td><td>2</td></tr><tr><td>10-13 Weeks</td><td>3</td></tr><tr><td>14-16 Weeks</td><td>4</td></tr></tbody></table>	Weeks	Credits	3-5 Weeks	1	8-9 Weeks	2	10-13 Weeks	3	14-16 Weeks	4
Weeks	Credits											
3-5 Weeks	1											
8-9 Weeks	2											
10-13 Weeks	3											
14-16 Weeks	4											

Members of BoS:EE Main & Constituent Campuses	Special Invitee	Alumni and Student from Programme
<p><i>[Signature]</i> Dr Y S Brar, Chairman</p> <p><i>[Signature]</i> Dr Jagdish Kumar</p> <p><i>[Signature]</i> Dr Yog Raj Sood</p>	<p><i>[Signature]</i> Dr Naveen Sharma, IKGPTU Batala Campus</p>	<p>Karan Bali (Student)</p> <p><i>[Signature]</i></p>

[Handwritten signatures and notes below the table]

Head
 Department of Electrical Engineering
 I.K. Gujral Punjab Technical University
 Kapurthala-144066

I K Gujral Punjab Technical University- Jalandhar, Kapurthala
Board of Studies for Electrical Engineering (Main Campus and Constituent Campuses)

<p><i>[Signature]</i> 26.6.2019 Dr J S Dhillon</p> <p><i>[Signature]</i> 26/6/19 Dr Gagandeep Kaur</p> <p><i>[Signature]</i> Dr Chakardhar Reddy</p> <p><i>[Signature]</i> 26/6/19 Dr Rakesh Kumar</p> <p><i>[Signature]</i> 26.06.19 Dr Akhil Gupta</p> <p><i>[Signature]</i> Dr Dilbagh Singh</p> <p><i>[Signature]</i> Dr Paramjit Singh</p> <p><i>[Signature]</i> Dr Deepika Bhatta, Coordinator</p>		
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Head
Department of Electrical Engineering
I.K. Gujral Punjab Technical University
Kapurthala-144006

Minutes of Meeting (on line/video conferencing) held on 21st May, 2020

The 2nd meeting of Board of Studies for Electrical Engineering (Main Campus and Constituent Campuses) was held online/video conferencing under the Chairmanship of Prof. (Dr) Y S Brar on 21st May, 2020 (Thursday) at 11:00am.

The details of the online meeting:

Meeting link: <https://ptu.webex.com/j.php?MTID=m13d4f0a0b2a9ce4d5906a7c17ca87d7d>

Meeting number: 918 425 519

Password: r22jKmidpR8

The following members were present

Dr Y S Brar, Chairman
Dr Yog Raj Sood
Dr Jagdish Kumar
Dr Ashwani Kumar
Dr Dilbagh Singh
Dr Gagandeep Kaur
Dr Kanwardeep Singh
Dr Rakesh Kumar
Dr Akhil Gupta
Dr Naveen Sharma, Special Invitee
Dr Deepika Bhatta, Coordinator

The meeting started with the welcome address to the Members of BoS (EE) and special invitee by the Prof. (Dr) Y S Brar.

- A. Review of the Minutes of Meeting of the 1st meeting of Board of Studies (Electrical Engineering), Main and Constituent Campuses (2019-21) held on 26/06/2019.

Item No.	Agenda	Discussions and Decisions
1.1	To adopt the Vision and Mission statement of Department of Electrical Engineering approved in the 1 st Meeting of BoS (EE) of IKGPTU and make any changes so that it is in line with that of the University.	Item 52.09.07 of the 52 nd Academic Council meeting held on 16/01/2020. Action taken: Adopted
1.2	To adopt the relevant study scheme and syllabus of IKGPTU for the present batches of main campus and constituent campuses.	Item 52.09.01 of the 52 nd Academic Council meeting held on 16/01/2020. Action taken: Adopted
1.3	To finalise the syllabus of subject relevant to 1 st /2 nd year of 2019 batch.	For 1 st year subjects/courses common to all branches: • BTEE-101-18 Basic Electrical Engineering • BTEE-102-18 Basic Electrical Engineering Laboratory The change was less than 10%. the necessary changes were incorporated and made available on the university website. Action Taken: Noted

Dr Y S Brar (Chairman), Dr Y R Sood, Dr Jagdish Kumar, Dr Ashwani Kumar, Dr Dilbagh Singh, Dr Gagandeep kaur, Dr Kanwardeep Singh, Dr Rakesh Kumar, Dr Akhil Gupta, Dr Naveen Sharma (Special Invitee), Dr Deepika Bhatta, Coordinator have approved the minutes on meeting held online on 21st may 2020 on Cisco webEx through email

Head
Department of Electrical Engineering
I.K. Gujral Punjab Technical University
Kapurthala

Item No.	Agenda	Discussions and Decisions										
1.4	Design the study scheme and syllabus for 2019 Batch and keep it in line with the guidelines of Major and Minor degree, achievement of credits through SWAYAM/MOOCs courses.	The BoS EE (Main Campus and Constituent Campuses) approved On-line SWAYAM /MOOCs courses (for Semester July-Nov 2019) for Minor Degree in Electrical Engineering (Annexure: C). Action Taken: Adopted										
1.5	To decide the PO, PEOs, Graduate Attributes for the programmes offered (a) B. Tech (EE) (b) M. Tech EE(PS)	Item 52.09.07 of the 52 nd Academic Council meeting held on 16/01/2020. Action taken: Noted										
1.6	To decide the COs of the courses and ensure their achievement through the question papers.	Item 52.09.06 and 52.09.07 of the 52 nd Academic Council meeting held on 16/01/2020. Action taken: Adopted										
1.7	(Additional point) To decide On-line courses to be offered in the session July-November 2019 for credits required for Honors Degree in Electrical Engineering.	Decision on the previous/above recommendation is pending. <i>However, reference no. IKGPTU/DA/2355, dated 06/03/2020.</i> Action taken: Noted										
1.8	(Additional point) Decision on the number of credits to be assigned for the duration (per week) for SWAYAM/MOOCs undertaken for Honors Degree and For Minor Degree in other Branch/Discipline.	It was recommended that the number of credits to be assigned for the duration (per week) for SWAYAM/MOOCs undertaken for Honors Degree and for Minor Degree in other Branch/Discipline be: <table border="1"> <thead> <tr> <th>Weeks</th><th>Credits</th></tr> </thead> <tbody> <tr> <td>03-05 Weeks</td><td>1</td></tr> <tr> <td>06-09 Weeks</td><td>2</td></tr> <tr> <td>10-13 Weeks</td><td>3</td></tr> <tr> <td>14-16 Weeks</td><td>4</td></tr> </tbody> </table> Decision on the previous/above recommendation is pending. <i>However, the BOS revises its recommendations to:</i> The number of credits for SWAYAM/MOOCs courses for Honours Degree in Electrical Engineering to be as per the credits mentioned in the respective SWAYAM/MOOCs course certificate to be noted. Action Taken: Noted	Weeks	Credits	03-05 Weeks	1	06-09 Weeks	2	10-13 Weeks	3	14-16 Weeks	4
Weeks	Credits											
03-05 Weeks	1											
06-09 Weeks	2											
10-13 Weeks	3											
14-16 Weeks	4											

B. Agenda Items for 2nd meeting of Board of Studies for Electrical Engineering (Main Campus and Constituent Campuses) (2019-21)

Item No.	Agenda	Discussions and Decisions
2.1	To adopt the changes communicated for the uniformity of marks distribution of Mandatory Non-Credit Courses of B. Tech programmes on	The marks distribution of Mandatory Non-Credit Courses of B. Tech Electrical Engineering is adopted.

Dr Y S Brar (Chairman), Dr Y R Sood, Dr Jagdish Kumar, Dr Ashwani Kumar, Dr Dilbagh Singh, Dr Gagandeep kaur, Dr Kanwardeep Singh, Dr Rakesh Kumar, Dr Akhil Gupta, Dr Naveen Sharma (Special Invitee), Dr Deepika Bhalla, Coordinator have approved the minutes on meeting held online on 21st may 2020 on Cisco webEx through email

Head
Department of Electrical Engineering
I K Gujral Punjab Technical Univ
Jalandhar

Item No.	Agenda	Discussions and Decisions																
	2018 teaching scheme. (IKG-PTU/DA/2243 and IKG-PTU/DA/IO-1320, dated 09/12/2019 followed by IKG-PTU/DA/2316, dated 31/01/2020.																	
2.2	To adopt the Syllabus of Mandatory Non-Credit Course EVS-101-18 Environmental Studies (IKG-PTU/DA/1475, dated 08/02/2019 followed by IKG-PTU/DA/2316, dated 31/01/2020)	The Syllabus of Mandatory Non-Credit Course EVS-101-18 Environmental Studies (IKG-PTU/DA/1475, dated 08/02/2019 followed by IKG-PTU/DA/2316, dated 31/01/2020) is adopted.																
2.3	Item 52.04.12 of the 52 nd Academic Council meeting held on 16/01/2020, "Distribution of marks for evaluation of M. Tech. Dissertation"	Item 52.04.12 of the 52 nd Academic Council meeting held on 16/01/2020, "Distribution of marks for evaluation of M. Tech. Dissertation", is adopted.																
2.4	Bridge courses/additional subjects for change of branch/upgradation in 3 rd Semester to B. Tech. Electrical Engineering program.	<p>The BoS recommended and approved Bridge courses/additional subjects for change of branch/upgradation in 3rd Semester to B. Tech. Electrical Engineering program</p> <p>Student who opts for B. Tech. Electrical Engineering programme in 3rd Semester for upgradation/change of branch will need to study the following Bridge /Additional courses:</p> <table border="1"> <tr> <th>Student opting for B. Tech EE from B. Tech.</th><th colspan="3">Bridge /Additional courses</th></tr> <tr> <td>Computer Science Engineering</td><td rowspan="5">(Bridge Course-I) BTANBC1-18</td><td rowspan="5">BTPH102-18 (Theory) BTPH112-18 (Laboratory)</td><td rowspan="5">Not applicable</td></tr> <tr> <td>Computer Engineering</td></tr> <tr> <td>Civil Engineering</td></tr> <tr> <td>Mechanical Engineering</td></tr> <tr> <td>Electronics and Communication Engineering</td></tr> <tr> <td></td><td></td><td></td><td>BTEE-101-18 (Theory) BTEE-102-18 (Laboratory)</td></tr> </table> <p>i) The Bridge/Additional course is audit/qualifying course and no extra credit is awarded to the student qualifying the course.</p> <p>ii) The Bridge/Additional course will be evaluated by the concerned teacher allocated the said course</p>	Student opting for B. Tech EE from B. Tech.	Bridge /Additional courses			Computer Science Engineering	(Bridge Course-I) BTANBC1-18	BTPH102-18 (Theory) BTPH112-18 (Laboratory)	Not applicable	Computer Engineering	Civil Engineering	Mechanical Engineering	Electronics and Communication Engineering				BTEE-101-18 (Theory) BTEE-102-18 (Laboratory)
Student opting for B. Tech EE from B. Tech.	Bridge /Additional courses																	
Computer Science Engineering	(Bridge Course-I) BTANBC1-18	BTPH102-18 (Theory) BTPH112-18 (Laboratory)	Not applicable															
Computer Engineering																		
Civil Engineering																		
Mechanical Engineering																		
Electronics and Communication Engineering																		
			BTEE-101-18 (Theory) BTEE-102-18 (Laboratory)															

Dr Y S Brar (Chairman), Dr Y R Sood, Dr Jagdish Kumar, Dr Ashwani Kumar, Dr Dilbagh Singh, Dr Gegandeep kaur, Dr Kanwardeep Singh, Dr Rakesh Kumar, Dr Akhil Gupta, Dr Naveen Sharma (Special Invitee), Dr Deepika Bhalla, Coordinator have approved the minutes on meeting held online on 21st may 2020 on Cisco webEx through email

Head
Department of Electrical Engineering
I.K. Gujral Punjab Technical University
Kapurthala

Item No.	Agenda	Discussions and Decisions
		thought internal evaluation at department/constituent campus level. iii) The teacher allocated the bridge course should be given 2 hours load per week for teaching it. iv) The student opting for change of branch must qualify the course within one year of change of branch. v) The department/constituent campus shall issue a certificate that the student has passed the Bridge/Additional course. vi) Upon certification of passing audit/qualifying course the earlier issued result notification/s and DMCs of the concerned student shall be cancelled and the Examination Department of IKGPTU shall issue new result notification and DMCs as per upgraded curriculum with same number of credits.
2.5	To invite representative of TCS-ion to present detailed presentation of the subjects proposed for B.Tech. in Electrical Engineering. The presentation to include: a) The proposed subjects for B.Tech in Electrical Engineering, outcomes and infrastructure. b) If any training for B.Tech in Electrical Engineering is being undertaken by TCS-ion in any college or University, should be elaborated with viability.	The BOS did not find the item to be in its scope as the communication is not addressed for B.Tech. in Electrical Engineering.
2.6	Item 52.08 of the 52 nd Academic Council meeting held on 16/01/2020: "Starting of one semester training for B. Tech programs in 7 th /8 th semester (Not available in model curriculum of AICTE)	Item 52.08 of the 52 nd Academic Council meeting held on 16/01/2020: "Starting of one semester training for B. Tech programs in 7 th /8 th semester (Not available in model curriculum of AICTE) was adopted by the BoS. However, the BoS (EE) leaves the option for the Department/Campus/Student to either opt for One Semester Training or do Industry oriented courses in lieu of One Semester Training in 7 th or 8 th Semester (Subject to approval from Competent Authority).
2.7	Changes in draft of syllabus of 3 rd and 4 th year on account of above Item 2.5 & 2.6	On account of item 2.6, the BoS discussed, revised and approved: (a) The teaching scheme of 3 rd year B.Tech. in Electrical Engineering programme. (b) The syllabus of 5 th Semester B.Tech. in Electrical Engineering programme. (c) The draft of teaching scheme of 4 th year B.Tech. in Electrical Engineering programme.

Dr V S Brari Chairman, Dr V R Sood, Dr Jagdish Kumar, Dr Ashwani Kumar, Dr Dilbagh Singh, Dr Gagandeep kaur, Dr Kanwardeep Singh, Dr Rakesh Kumar, Dr Akhil Gupta, Dr Naveen Sharma (Special Invitee), Dr Deepika Bhatta, Coordinator have approved the minutes on meeting held online on 21st May 2020 on Cisco webEx through email

Head
Department of Electrical Engineering
I.K. Gujral Punjab Technical University
Kapurthala-141006

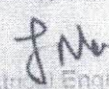
Item No.	Agenda	Discussions and Decisions
2.8	Course Title, Course code, syllabus, Course Outcomes (COs) of subjects of Humanities and Social Sciences including Management for B.Tech in Electrical Engineering programme.	(a) The BoS accepted the Course Title, Course code, of courses of Humanities and Social Sciences including Management for B.Tech in Electrical Engineering as communicated by the University. (b) The BoS proposed to adopted the syllabus of respective courses given in the "AICTE model curriculum for UG Courses Volume-I, January 2018". It was observed that Course Outcomes need to be included. The concerned BoS to provide the syllabus and COs.
2.9	A. To finalise the on-line SWAYAM/ MOOCS courses and the credits of the course for Minor degree in Electrical Engineering for the session January-May 2020. B. Action on letter regarding MOOCs courses Reference no. IKGPTU/DA/2355, dated 06/03/2020.	A. From the available relevant on-line SWAYAM/ MOOCS courses for the session January-May 2020, the list of the SWAYAM/ MOOCS courses to be considered for Minor degree in Electrical Engineering is approved. B. Regarding the list of SWAYAM/ MOOCS for Minor degree in Electrical Engineering for each semester, the Members of BoS authorize Chairman BoS (EE), HoD (EE) Main Campus, Coordinator and one member of BoS (EE) to identify the course and forward the list to the office of Dean Academics two weeks before the commencement of the semester and take post-facto approval in the next meeting of the BoS.
2.10	A. To finalise the on-line SWAYAM/MOOCs courses and credits for Honors Degree in Electrical Engineering for the session January-May 2020. B. Action on letter regarding MOOCs courses Reference no. IKGPTU/DA/2355, dated 06/03/2020.	A. From the available relevant on-line SWAYAM/ MOOCS courses for the session January-May 2020, the list of the SWAYAM/ MOOCS courses to be considered for Honors Degree in Electrical Engineering is approved. B. Regarding the list of SWAYAM/ MOOCS for Honors Degree in Electrical Engineering for each semester, the Members of BoS authorize Chairman BoS (EE), HoD (EE) Main Campus, Coordinator and one member of BoS (EE) to identify the course and forward the list to the office of Dean Academics two weeks before the commencement of the semester and take post-facto approval in the next meeting of the BoS.
2.11	Students pursuing Major Degree in Electrical Engineering (Batch 2018 onwards) can only do Minor degree in Electrical and Computer Engineering (Reference AICTE Approval	(a) Reference AICTE Approval Process Handbook 2021, Chapter 7, Point 7.3.2 the BoS recommended that for Batch 2018 and onwards the students opting for Major degree in B. Tech. Electrical can only do

Dr Y S Brar (Chairman), Dr Y R Sood, Dr Jagdish Kumar, Dr Ashwani Kumar, Dr Dilbagh Singh, Dr Gagandeep kaur, Dr Kanwardeep Singh, Dr Rakesh Kumar, Dr Akhil Gupta, Dr Naveen Sharma (Special Invitee), Dr Deepika Bhatta, Coordinator have approved the minutes on meeting held online on 21st may 2020 on Cisco webEx through email

Head
Department of Electrical Engineering
I K Gujral Punjab Technical University
Kapurthala

Item No.	Agenda	Discussions and Decisions
	Process Handbook 2021, Chapter 7, Point 7.3.2, circulated vide Reference no IKG-PTU/DAA/2347, dated 28/02/20202)	Minor Degree in Electrical and Computer Engineering. (b) The BoS(CSE) to be requested to convey the list of courses that the student can opt for each semester for Minor Degree in Electrical and Computer Engineering.
2.12	Procedure for (a) Minor Degree (b) Honors Degree	The BoS recommended for approval: (a) Student to opt for Minor degree in relevant programme in 3 rd semester and for Honors Degree in 5 th Semester. (b) Students having no backlog of 1 st semester and 2 nd semester can opt for Minor Degree in Electrical and Computer Engineering in the 3 rd semester. Students having no backlog of 3 rd semester and 4 th semester can opt for Honors Degree in B. Tech. Electrical Engineering in the 5 th Semester. • From the available relevant on-line SWAYAM/MOOCs courses for the session, the list of the courses to be considered for Minor degree/Honors degree in relevant programme to be approved by BoS. • The number of credits for SWAYAM/MOOCs courses for Minor degree in relevant programme to be as per the credits mentioned on the certificate of the respective SWAYAM/ MOOCs course. • The following steps are proposed for credits earned through SWAYAM/MOOCs courses: i) For each semester the student to take up online SWAYAM/MOOCs courses approved by the BoS. ii) Student to take permission (written) from Department/Constituent Campus for registration. iii) On successful completion of each SWAYAM/MOOCs in each semester the student to submit self-attested copy of certificate (on-line/hard) to Department/Constituent Campus iv) The Department/Constituent Campus to verify the certificate and there after Department/Constituent Campus to convey to the Examination Branch through the office of Dean Academics.

Dr Y S Brar (Chairman), Dr Y R Sood, Dr Jagdish Kumar, Dr Ashwani Kumar, Dr Dilbagh Singh, Dr Gagandeep kaur, Dr Kanwardeep Singh, Dr Rakesh Kumar, Dr Akhil Gupta, Dr Naveen Sharma (Special Invitee), Dr Deepika Bhalla, Coordinator have approved the minutes on meeting held online on 21st may 2020 on Cisco webEx through email


 Department of Electrical Engineering
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		<p>v) On obtaining the minimum credits the student will be eligible for (a) Minor Degree (b) Honors Degree in relevant programme.</p> <ul style="list-style-type: none"> In case of non-availability of SWAYAM/MOOCs courses the student can earn the minimum credits for (a) Minor Degree from Professional Core / Elective Courses (b) Honors degree from Professional Elective Courses other than those taken up for the concerned B.Tech Programme. <p>(c) The list of (i) Professional Core Courses (ii) Professional Elective Courses, clearly indicating odd and even semester is available in the Teaching Scheme.</p>
2.13	Recommendation for e-books	<p>The BoS recommends using e-books for teaching-learning process. The following members are assigned the duty to recommend a list of e-books for the programs under the preview of the BoS.</p> <ol style="list-style-type: none"> Dr Gagandeep Kaur, Chairperson, Dr Kanwardeep Singh, Member (external) Dr Akhil Gupta, Member (internal) Dr Deepika Bhalla (Coordinator)
2.14	Notification "Regarding New Programme", Ref. No. IKGPTU/REG/NF/36, dated 04/03/2020 for B. Voc. Solar System Technology of 03 Years duration.	Not to be considered for the Main/Constituent campus BoS
2.15	<p>On account of the lockdown since March 2020 due to COVID-19 pandemic, discussion on:</p> <p>(A) The change of pattern of Question paper and evaluation</p> <p>(B) Propose the Names of Paper Setters for each subject.</p> <p>(Ref. No. e-file I-15/534/2020-COE, received through email on 11th May 2020).</p>	<p>(A) On account of the lockdown since March 2020 due to COVID-19 pandemic, the members of BoS(EE) agreed that, based on the IT infrastructure available online Semester Ending Examination May 2020 may be conducted, if needed. On account of which there would be change in the pattern of question paper and the way to attempt it. The BoS recommends:</p> <ol style="list-style-type: none"> For theory courses having 60 marks for external, a student shall have to attempt 60 MCQs in 120 minutes. Each of the MCQ question with four options shall appear on screen of student without displaying the next question. The student will be required to attempt the question in the time frame as he/she desires subject to maximum duration allocated for attempting the respective question paper. On clicking the SAVE AND NEXT button, the next question will appear. Provision of invigilation of online examination to be made.

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		<p>(c) For theory courses internal evaluation in which only MST-I could be conducted during regular teaching, before lockdown, online MCQ based MST-II and MST-III may be conducted using Google forms or any other online/virtual platform.</p> <p>(d) For practical courses online internal and external evaluation to be conducted through Cisco WebEx or any other online/virtual platform. The record of the evaluation to be maintained.</p> <p>(e) External and Internal examiner to be assigned and evaluation to be uploaded on the University Examination portal as per the revised Academic Calendar. Honorarium to External and Internal examiner paid as per University norms.</p> <p>(f) For students who have undertaken (i) One Semester Industrial Training in 8th Semester (ii) Industrial Training after 4th semester, and (iii) Institutional Training after 2nd semester, online internal and external evaluation to be conducted through Cisco WebEx or any other online/virtual platform. The record of the evaluation to be maintained.</p> <p>External and Internal examiner to be assigned and evaluation to be uploaded on the University Examination portal as per the revised Academic Calendar</p> <p>Honorarium to External and Internal examiner paid as per University norms.</p> <p>(B) The BoS (EE) approved the list of the paper setters for online/conventional semester ending Examination for May 2020 to be:</p> <p>a) Names of 03-04 Question Paper Setters for each subject is proposed to the Examination Department</p> <p>b) Preferably 50% of the Question Paper Setters to be from IKGPTU system (Affiliated Colleges and Main & Constituent Campuses) and the remaining 50% Question Paper Setters to be from outside IKGPTU system (Punjab, other states and Union Territories).</p> <p>c) Each Question Paper to have two sets</p> <p>d) The maximum number of Question papers/sets to be assigned to one paper setter to be 03.</p>

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		<p>e) For conventional examination Honorarium to Question Paper Setters be paid as per University norms. Information regarding Paper Setters to be uploaded by Convener on the relevant online portal.</p>
2.16	To allow credit transfer to students to the extent of 20% in every semester for online courses provided through SWAYAM platform.	<p>In view of the present scenario, the teachers must teach (1 or 2 subjects (theory or laboratory) out of 8 subjects in a semester) through an on-line platform and also evaluate the students through online mode.</p> <p>(a) The on-line mode facility to faculty and students be provided by the University. It will help the students for developing on-line learning ability and participation in online evaluation processes. On the other-hand teachers will develop capabilities to create on-line lectures/study material. Further, it will become an asset for the University.</p> <p>(b) BoS to identify relevant courses per semester available on an online SWAYAM platform. If available, student may be permitted by Department/Constituent campus to complete maximum of 20% courses in every semester through the online SWAYAM platform.</p> <p>(c) The steps are already proposed for credits earned through SWAYAM/MOOCs courses in Item no 2.12.</p> <p>(d) The following line to be included in the draft of the teaching scheme. "If online courses are available, students may complete 20% of courses in every semester through the online SWAYAM platform/developed by the faculty of University, after approval of competent authority."</p>

The Members of BoS authorize Chairman BoS (EE), HoD (EE) Main Campus, Coordinator and one member of BoS (EE) to sign relevant documents after the University reopens after the lockdown due to COVID-19 is lifted.

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