



# Sant Baba Bhag Singh University

(University Established under Punjab Act No.6 of 2013)

Vill. Khiala, P.O. Padhiana, Dist. Jalandhar, Punjab, INDIA

## External Expert Review Performa for Board of Studies

Name of External Expert : Dr. Balwant Raj  
Discipline : Electronics & Communication Engineering  
Designation : Assistant Professor  
Organization (Name & Address): Assistant Professor (UIET), Panjab University, SSG  
Regional Centre, Hoshiarpur  
Contact No. : 9855205439  
Mail ID : balwant78@yahoo.co.in  
erbalwantraj@gmail.com  
Date of Visit/Meeting : 3<sup>rd</sup> March, 2022 (Online)

### Reviewer's Comments :-

To meet industry demands, enhance employability as well as research interest of students required changes done in the study scheme of Electrical Engineering are attached herewith this letter.

❖ Use extra sheet(s) if required.

Signature

Date 03-03-2022

Coordinator/HOD's/Dean's

Dean Academics

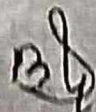


**Proposed amendments in the 2019 schemes are:**

1. Modification of the contents of the lab course Power System -II lab (EE306), in 6<sup>th</sup> semester, (since the contents are same as that of Power System-I Lab).
2. Full name of the theory course HVDC (EE407) offered as Professional Elective- IV in 7<sup>th</sup> semester need to be mentioned
3. Incorporation of the course Biomedical Instrumentation (EE324) as Professional Elective -III in 6<sup>th</sup> semester
4. The name of the theory course Production & Operations Management (ME472) need to be revised. Since the name of the subject is Operations Management in the scheme of Host Deptt (Mechanical Engg) offered as Open elective -IV in 7<sup>th</sup> semester
5. The theory course Industrial Safety (ME474) need to be introduced as Open Elective -IV in 7<sup>th</sup> semester
6. The theory course Utilization of Electrical Energy (EE476) need to be incorporated in the curriculum as open elective -V in 8<sup>th</sup> semester
7. The course code of Line Commutated and active PWM rectifiers (EE318) offered as professional elective -III need to be revised in 6<sup>th</sup> semester.

**Proposed amendments in 2020 scheme are:**

1. The L.T.P of the theory course Measurement and Instrumentation (EE 305) offered as professional core course in semester 5 need to be revised
2. The theory course Open Elective -I need to be shifted from 5<sup>th</sup> semester to 6<sup>th</sup> semester, since the students are getting overburdened.
3. Instrumentation in Power System (EE 371) need to be incorporated in curriculum as an open elective-I in 5<sup>th</sup> semester
4. The theory course Analog & Digital communication (ECE 372) need to be incorporated in the curriculum as open elective -II in 6<sup>th</sup> semester.
5. The theory course Electric Generation & Economics (EE 372) need to be incorporated in the curriculum as Open elective -II in 6<sup>th</sup> semester.
6. The L.T.P of the theory course Linear control system (EE 204) offered in 4<sup>th</sup> semester need to be revised.
7. The course Microprocessor & Interfacing (EE 208) Applications need to be incorporated in the curriculum as professional core course in 4<sup>th</sup> sem, since it is a pre-requisite for the Microcontroller & Interfacing applications course.
8. The Lab course Microprocessor & Interfacing Applications Lab (EE 214) need to be incorporated in the curriculum as professional core Lab in 4<sup>th</sup> semester, since it is a pre-requisite for the Microcontroller & Interfacing Applications Lab course.
9. The theory course Microcontroller and applications (EE208) needs to be shifted in 6<sup>th</sup> semester from 4<sup>th</sup> semester with revised name (Microcontroller & Interfacing Applications) and code (EE 318).
10. The Lab course Microcontroller Lab (EE314) needs to be shifted in 6<sup>th</sup> semester from 4<sup>th</sup> semester with revised name (Microcontroller & Interfacing Applications Lab) and code (EE 328).
11. The theory course Speech Signal & Image Processing (ECE 373) need to be introduced in the curriculum as open elective -I in 6<sup>th</sup> semester.
12. The theory course Mobile Communication (ECE 371) needs to be incorporated in the curriculum as open elective -I in 6<sup>th</sup> semester.

  
Dr. Balwant Raj  
AP(U/EI) PUSSE



**SANT BABA BHAG SINGH UNIVERSITY**  
**Deptt of Electrical Engg.**  
**(UIET)**

Ref. No.: SBBSU/EE/PBoS-001/2022

Date: 04/03/2022

**Subject: PROCEEDINGS OF THE MEETING OF BOARD OF STUDIES OF DEPARTMENT OF ELECTRICAL ENGINEERING, UNIVERSITY INSTITUTE OF ENGINEERING AND TECHNOLOGY.**

The meeting of members of BoS was held on March 3<sup>rd</sup>, 2022 at 02:00PM in the SANT BABA BHAG SINGH UNIVERSITY through online mode.

Dr. Balwant Raj, Assistant Professor, Punjab University, SSG Regional Centre Hoshiarpur was present in online mode.

The following members were present:

S. No.	Name	Subject	Designation	Institute	Position
1.	Dr. Aneet Kumar	Education	Dean Academics & Dean UIE	SBBSU, Jalandhar	Chairperson
2.	Dr. Balwant Raj	Electronics & Communication Engineering	Assistant Professor	Punjab University, Swami Servanand Giri Regional Centre (PUSSGRC), Hoshiarpur	External Expert
3.	Dr. Vijay Dhir	Computer Science & Engineering	Dean UIET/ Director R &D/ Director IQAC	SBBSU, Jalandhar	Member
4.	Dr. Jagdeep Kaur	Computer Science & Engineering	Associate Professor, Dy. Dean UIET & HOD CSE	SBBSU, Jalandhar	Member
5.	Dr. Harpreet Kaur	Computer Science & Engineering	Associate Professor, CSE	SBBSU, Jalandhar	Member
6.	Dr. Gurmanik Kaur	Electrical Engineering	Associate Professor and Officiating Co-Ordinator, EE	UIET	Member
7.	Dr. Vijender Kumar Jain	Electrical Engineering	Professor, EE	UIET	Member
8.	Dr. Amandeep Singh	Electrical Engineering	Professor, EE	UIET	Member
9.	Er. Mandip Singh	Electrical Engineering	Assistant Professor, EE	UIET	Member Secretary
10.	Er. Arshdeep Singh	Electrical Engineering	Assistant Professor, EE	UIET	Member
11.	Er. Neha Kapila	Electrical Engineering	Assistant Professor, EE	UIET	Member
12.	Er. Jagjeet Singh	Electronics & Communication Engineering	Assistant Professor, ECE	UIET	Member
13.	Som Kumar	Electrical Engineering	Bio-Medical Engineer	Agva Health Care, Noida	Alumni



**Members from the other institutes of SBBSU are as follows:**

S.No	Designation	Position
1.	Dr. Seema Garg (Dean UICM, UIL & UICA)/ Her representative	Member
2.	Dr. Ramandeep Kaur Chahal (Dean UICM) )/ Her representative	Member
3.	Dr. Vikas (Dean UISH)/ His representative	Member
4.	Dr. Sandeep Randhawa (Director, T&P Department)/ )/ Her representative	Member

**Following agenda items were discussed and approved:**

**Amendments in the 2019 scheme:**

1. Modification of the contents of the lab course Power System -II lab (EE306), in 6<sup>th</sup> semester. (since the contents are same as that of Power System-I Lab).
2. Full name of the theory course HVDC (EE407) offered as Professional Elective- IV in 7<sup>th</sup> semester need to be mentioned.
3. Incorporation of the course Biomedical Instrumentation (EE324) as Professional Elective -III in 6<sup>th</sup> semester.
4. The name of the theory course Production & Operations Management (ME472) need to be revised. Since the name of the subject is Operations Management in the scheme of Host Deptt (Mechanical Engg) offered as Open elective -IV in 7<sup>th</sup> semester.
5. The theory course Industrial Safety (ME474) need to be introduced as Open Elective -IV in 7<sup>th</sup> semester.
6. The theory course Utilization of Electrical Energy (EE476) need to be incorporated in the curriculum as open elective -V in 8th semester.
7. The course code of Line Commutated and active PWM rectifiers (EE318) offered as professional elective - III need to be revised in 6<sup>th</sup> semester.

**Amendments in 2020 scheme:**

1. The L:T:P of the theory course Measurement and Instrumentation (EE305) offered as professional core course in semester 5 need to be revised.
2. The theory course Open Elective-I need to be shifted from 5<sup>th</sup> semester to 6<sup>th</sup> semester, since the students are getting overburdened.
3. Instrumentation in Power System (EE 371) need to be incorporated in curriculum as an open elective-I in 5<sup>th</sup> semester.
4. The theory course Analog & Digital communication (ECE 372) need to be incorporated in the curriculum as open elective -II in 6<sup>th</sup> semester.
5. The theory course Electric Generation & Economics (EE 372) need to be incorporated in the curriculum as Open elective -II in 6<sup>th</sup> semester.
6. The L:T:P of the theory course Linear control system (EE 204) offered in 4<sup>th</sup> semester need to be revised.
7. The course Microprocessor & Interfacing (EE 208) Applications need to be incorporated in the curriculum as professional core course in 4th sem, since it is a pre-requisite for the Microcontroller & Interfacing applications course.
8. The Lab course Microprocessor & Interfacing Applications Lab (EE 214) need to be incorporated in the curriculum as professional core Lab in 4<sup>th</sup> semester, since it is a pre-requisite for the Microcontroller & Interfacing Applications Lab course.



9. The theory course Microcontroller and applications (EE208) needs to be shifted in 6<sup>th</sup> semester from 4<sup>th</sup> semester with revised name (Microcontroller & Interfacing Applications) and code (EE318).
10. The Lab course Microcontroller Lab (EE314) needs to be shifted in 6<sup>th</sup> semester from 4<sup>th</sup> semester with revised name (Microcontroller & Interfacing Applications Lab) and code (EE328).
11. The theory course Speech Signal & Image Processing (ECE 373) need to be introduced in the curriculum as open elective -I in 6<sup>th</sup> semester.
12. The theory course Mobile Communication (ECE 371) needs to be incorporated in the curriculum as open elective -I in 6<sup>th</sup> semester.

*M. S. Ram*  
(HOD, EE)



## Details of Proceedings of BoS Meeting

### Point-wise description of the amendments in the 2019 scheme

S. No.	Programme Name/ Programme Code	Course Code	Course Name	Remarks by Expert	Action Taken
1.	B.Tech. (EE)& B.Tech. (EE) LEET /UG020	EE306	Power System – II lab	Contents need to be revised	Incorporated in the curriculum by modifying the contents. Since the contents were same as that of Power System-I.
2.	B.Tech. (EE)& B.Tech. (EE) LEET /UG020	EE407	High Voltage DC Transmission system	Course name need to be revised	Already incorporated in the curriculum, however, the name is changed, since the abbreviation was given in the previous scheme
3.	B.Tech. (EE)& B.Tech. (EE) LEET /UG020	EE324	Biomedical Instrumentation	Professional Elective-III course need to be included.	Incorporated in curriculum as professional Elective-III, in semester 6
4.	B.Tech. (EE)& B.Tech. (EE) LEET /UG020	ME472	Operations Management	The subject name Production & Operations Management need to be revised since the name of the subject is Operations Management in the scheme of Host Deptt (Mechanical Engg)	Incorporated in curriculum as Operations Management as open elective –IV in 7 <sup>th</sup> Sem.



5.	B.Tech. (EE)& B.Tech. (EE) LEET /UG020	ME474	Industrial Safety	Industrial Safety need to be introduced as required by the stake holders	Incorporated in curriculum as Industrial Safety (Open elective- IV).
6.	B.Tech. (EE)& B.Tech. (EE) LEET /UG020	EE476	Utilization of Electrical Energy	Electrical Measurements need to be replaced with Utilization of Electrical Energy	Incorporated in curriculum as Open elective-V in 8 <sup>th</sup> sem.
7.	B.Tech. (EE)& B.Tech. (EE) LEET /UG020	EE318	Line Commutated and active PWM rectifiers	Course Code need to be revised due to incorporation of other subjects.	Incorporated in curriculum as professional elective-III in 6 <sup>th</sup> sem.



**Point-wise description of the amendments in the 2020 scheme**

S.No.	Programme Name/ Programme Code	Course Code	Course Name	Remarks by Experts	Action Taken
1.	B.Tech. (EE)& B.Tech. (EE) LEET /UG020	EE306	Power System – II lab	Contents need to be revised	Incorporated in the curriculum by modifying the contents. Since the contents were same as that of Power System-I.
2	B.Tech. (EE)& B.Tech. (EE) LEET /UG020	EE407	High Voltage DC Transmission system	Course name need to be revised	Already incorporated in the curriculum, however, the name is changed, since the abbreviation was given in the previous scheme
3.	B.Tech. (EE)& B.Tech. (EE) LEET /UG020	EE305	Measurement & Instrumentation	The Course L:T:P and Contact hours need to be revised.	Incorporated in the curriculum with 4 contact hours and 4 credits.
4.	B.Tech. (EE)& B.Tech. (EE) LEET /UG020	EE326	Line Commutated and active PWM rectifiers	Course Code need to be revised due to revisions in the scheme	Incorporated in the curriculum by modifying Course code.
5.	B.Tech. (EE) & B.Tech. (EE) LEET /UG020	EE324	Biomedical Instrumentation	Professional Elective-III course list need to be revised	Incorporated in curriculum as professional Elective-III. in semester 6



6.	B.Tech. (EE) & B.Tech. (EE) LEET /UG020	EE371	Open Elective-I	Open Elective-I need to be shifted from Sem V since the students are overburdened.	incorporated in curriculum as Open Elective-I in Sem VI.
7.	B.Tech. (EE) & B.Tech. (EE) LEET /UG020	EE371	Instrumentation in Power System	Electrical Energy Conservation and Auditing need to be replaced with Instrumentation in Power System.	Incorporated in curriculum as open elective in semester 5.
8.	B.Tech. (EE)& B.Tech. (EE) LEET /UG020	ECE372	Analog and Digital Communication	Signal And System need to be replaced with Analog and Digital Communication.	Incorporated in the curriculum as open elective -II in 6 <sup>th</sup> semester.
9.	B.Tech. (EE)& B.Tech. (EE) LEET /UG020	EE372	Electric Generation & Economics	Industrial Electrical System need to be replaced with Electric Generation & Economics since the syllabus contents are similar to Power System-II and Utilization of Electrical Energy.	Incorporated in the curriculum as open elective -II in 6 <sup>th</sup> semester .
10.	B.Tech. (EE)& B.Tech. (EE) LEET /UG020	ME472	Operation Management	The subject name Production & Operations Management need to be revised since the	Incorporated in curriculum as Operations Management as open elective - IV in 7 <sup>th</sup> Sem.



				name of the subject is Operations Mangement in the scheme of Host Deptt (Mechanical Engg)	
11.	B.Tech. (EE)& B.Tech. (EE) LEET /UG020	EE476	Utilization of Electrical Energy	Electrical Measurements need to be replaced with Utilization of Electrical Energy	Incorporated in curriculum as Open elective-V in 5 <sup>th</sup> sem.
12.	B.Tech. (EE)& B.Tech. (EE) LEET /UG020	EE204	Linear Control System	The Course L:T need to be revised	Incorporated in the curriculum with 5 contact hours and 5 credits.
13.	B.Tech. (EE)& B.Tech. (EE) LEET /UG020	EE208	Microprocessor & Interfacing Applications	The course need to be incorporated since it is a pre requisite for microcontroller and interfacing	Incorporated in the curriculum as professional core in 4 <sup>th</sup> semester.
14.	B.Tech. (EE)& B.Tech. (EE) LEET /UG020	EE214	Microprocessor & Interfacing Applications Lab	The course need to be incorporated since it is a pre requisite for microcontroller and interfacing lab.	Incorporated in the curriculum as professional core in 4 <sup>th</sup> semester.
15.	B.Tech. (EE)& B.Tech. (EE) LEET /UG020	EE318	Microcontroller & Interfacing Applications	The course needs to be shifted in 6 <sup>th</sup> semester.	Incorporated in the curriculum as .professional core theory subject in 6 <sup>th</sup>



					semester
16.	B.Tech. (EE)& B.Tech. (EE) LEET /UG020	EE328	Microcontroller & Interfacing Applications Lab	The course needs to be shifted in 6 <sup>th</sup> semester.	Incorporated in the curriculum as .professional core lab subject in 6 <sup>th</sup> semester
17.	B.Tech. (EE) & B.Tech. (EE) LEET /UG020	ECE373	Speech Signal & Image Processing	The course need to be introduced	Incorporated in the curriculum as open elective-I in 6 <sup>th</sup> semester..
18.	B.Tech. (EE)& B.Tech. (EE) LEET /UG020	ECE371	Mobile Communication.	The course need to be introduced	Incorporated in the curriculum as open elective-I in 6 <sup>th</sup> semester..

Meeting ended with vote of Thanks by Dean Academics.

Thank you in Anticipation.

CoD/HoD (EE)

By. Dean/ Dean UIET



# Sant Baba Rhag Singh UNIVERSITY

Village: Khiala: PO: Padhiana, Distt: Jalandhar 144030

Website: [www.sbbsuniversity.ac.in](http://www.sbbsuniversity.ac.in) Phone: 0181-2711163 Fax: 0181-2711555

Ref. No.:SBBSU/EE/BoS-MC/March-2022

Date: 02/03/2022

## UNIVERSITY INSTITUTE OF ENGINEERING & TECHNOLOGY DEPARTMENT OF ELECTRICAL ENGINEERING

### Meeting Circular

It is my pleasure to inform you that you have been appointed as the Chairperson/External Expert/Member for the Electrical Engineering Department's Board of Studies (BoS) meeting. The following are the specific details:

S. No.	Name	Subject	Designation	Institute	Position
1.	Dr. Aneet Kumar	Education	Dean Academics & Dean UIE	SBBSU, Jalandhar	Chairperson
2.	Dr. Balwant Raj	Electronics & Communication Engineering	Assistant Professor	Punjab University, Swami Servanand Giri Regional Centre (PUSSGRC), Hoshiarpur	External Expert
3.	Dr. Vijay Dhir	Computer Science & Engineering	Dean UIET/ Director R &D/ Director IQAC	SBBSU, Jalandhar	Member
4.	Dr. Jagdeep Kaur	Computer Science & Engineering	Associate Professor, Dy. Dean UIET & HOD CSE	SBBSU, Jalandhar	Member
5.	Dr. Harpreet Kaur	Computer Science & Engineering	Associate Professor, CSE	SBBSU, Jalandhar	Member
6.	Dr. Gurmanik Kaur	Electrical Engineering	Associate Professor and Officiating Co-Ordinator, EE	UIET	Member
7.	Dr. Vijender Kumar Jain	Electrical Engineering	Professor, EE	UIET	Member
8.	Dr. Amandeep Singh	Electrical Engineering	Professor, EE	UIET	Member
9.	Er. Mandip Singh	Electrical Engineering	Assistant Professor, EE	UIET	Member Secretary
10.	Er. Arshdeep Singh	Electrical Engineering	Assistant Professor, EE	UIET	Member
11.	Er. Neha Kapila	Electrical Engineering	Assistant Professor, EE	UIET	Member
12.	Er. Jagjeet Singh	Electronics & Communication Engineering	Assistant Professor, ECE	UIET	Member
13.	Som Kumar	Electrical Engineering	Bio-Medical Engineer	Agva Health Care, Noida	Alumni



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3.	Dr. Vikas (Dean UISH)/ His representative	Member
4.	Dr. Sandeep Randhawa (Director, T&P Department)/ )/ Her representative	Member

You are requested to attend the meeting online through google meet link (<https://meet.google.com/jth-gedw-xmr>) on 03/03/2022 (Thursday) at 2:00 PM. The detailed agenda of the meeting is as follows:

Proposed amendments in the 2019 schemes are:

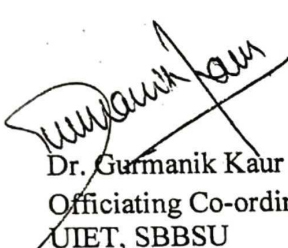
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8. The Lab course Microprocessor & Interfacing Applications Lab (EE 214) need to be incorporated in the curriculum as professional core Lab in 4<sup>th</sup> semester, since it is a pre-requisite for the Microcontroller & Interfacing Applications Lab course.
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12. The theory course Mobile Communication (ECE 371) needs to be incorporated in the curriculum as open elective -I in 6<sup>th</sup> semester.

  
Dr. Gurmanik Kaur  
Officiating Co-ordinator, EE  
UIET, SBBSU

To

- Chairperson/External Expert/Members of BoS Committee  
(Through email)





# Sant Baba Bhag Singh UNIVERSITY

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Website: [www.sbbsuniversity.ac.in](http://www.sbbsuniversity.ac.in) Phone: 0181-2711163 Fax: 0181-2711555

Ref. No.: SBBSU/EE/BoS/February-2022

Date: 25/02/2022

To

Dr. Balwant Raj,  
Assistant Professor (ECE-UIET),  
Punjab University, Swami Servanand Giri Regional Centre (PUSSGRC),  
Hoshiarpur  
Email-[erbalwantraj@gmail.com](mailto:erbalwantraj@gmail.com),  
-[balwant@pu.ac.in](mailto:balwant@pu.ac.in)  
Contact No.: 9855205439

**Subject: Invitation to attend the Department of Electrical Engineering's online Board of Studies (BoS) Meeting as an External Expert, on 3<sup>rd</sup> March, 2022.**

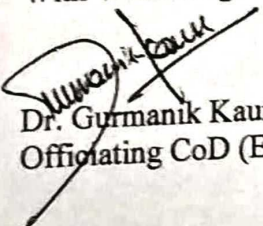
Respected Sir,

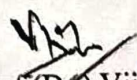
It is for your kind information that the meeting of Board of Studies (BoS) of Electrical Engineering Department, SBBSU, Khiala, Jalandhar, is scheduled on 3<sup>rd</sup> March, 2022.

We feel honour to invite you as an **External Expert** for your valuable suggestions in revising the course scheme and syllabus of B. Tech Electrical Engineering 2019 and 2020 year, based on the industrial requirements and latest technology prevailing in Electrical Engineering field which can help the students to shape themselves for their bright future.

Hence, kindly accept our invitation and confirm your presence for attending the online BoS meeting on 3<sup>rd</sup> March, 2022 (Thursday) at 2:00 pm, through the google meet link <https://meet.google.com/jth-gedw-xmr>

With Warm Regards,

  
Dr. Gurmanik Kaur  
Officiating CoD (EE)

  
Prof. (Dr.) Vijay Dhir  
Dean UIET





# Sant Baba Bhag Singh UNIVERSITY

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Ref. No.: EE/SBBSU/BoS-2022/Approval

Date: 14/02/2022

Subject: Approval of the external expert for BoS 2022

Respected Sir,

You are kindly requested to approve an external expert for BoS 2022 which is going to be held on 15<sup>th</sup> February 2022.

S.No	Name	Designation	Email id	Contact no.
1	Dr. Ajat Shatru Arora	Professor, Department of Electrical and Instrumentation Engineering, SLIET Longowal, Sangrur	ajatsliet@yahoo.com	9463217074
2	Dr. Arvind Dhingra	Assistant Professor (EE) and Executive Director, STEP-GNDEC, Ludhiana	arvinddhingra@gndec.ac.in	9814163429
3	Dr. Balwant Raj	Assistant Professor (ECE), UIET, Punjab University, Hoshiarpur	erbalwantraj@gmail.com	9855205439

*W. Singh*  
(EE&ECE)

*Forwarded to*  
*Dean*  
Dean UIET, SBBSU

To: Worthy Vice-Chancellor, SBBSU (through Dean Academics)

An external expert (preferably of a rank of Associate Professor or Professor) may kindly be considered for the approval forwarded to Hon'ble VC Sirs for kind consideration please. *14.02.2022 (429)*

Received on 14/02/22 1:00 PM

No. 3  
24/2/22





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Ref. No.: SBBSU/EE/BOS/FEB-2022

Date: 08/02/2022

Subject: Regarding BoS in Electrical Engineering department (UIET).

Respected Sir,

It is kindly requested for permit us for online/offline BoS in UIET, in the upcoming week i.e. 14<sup>th</sup> Feb, 2022 to 18<sup>th</sup> Feb, 2022.

  
Thanking you,

Yours Sincerely

Officiating CoD, Deptt of Electrical Engineering

To

The Worthy Vice-Chancellor,  
SBBSU, Jalandhar

*forwarded to VC sir*

*VC  
8.2.22*

*7-  
08/02/22*

*Through Registrar / Deary  
Academics  
14/2/22*





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Ref. No: EE&ECE/SBBSU/DAC-MoM/December-2021

Date: 03/01/2021

**Subject: Minutes of meeting of Departmental Advisory Committee.**

Dear Sir/ Ma'am,

A meeting was held in the undersigned's office on December 14<sup>th</sup>, 2021. The members present were:

Name	Designation
Dr. Gurmanik Kaur Associate Professor and Officiating CoD, Deptt. of EE & ECE	Convenor
Dr. Vijender Kumar Jain (Professor, Deptt of EE & ECE)	Co-Convenor
Dr. Amandeep Singh (Professor, Deptt of EE & ECE)	Co-Convenor
Er. Mandip Singh (Assistant Professor, Deptt of EE & ECE)	Member
Er. Jagjeet Singh (Assistant Professor, Deptt of EE & ECE)	Member
Er. Neha Kapila (Assistant Professor, Deptt of EE & ECE)	Member
Er. Arshdeep Singh (Assistant Professor, Deptt of EE & ECE)	Member

Annexure-I and Annexure-II contains a point-wise description of the proposed amendments in the existing schemes i.e. 2019 and 2020. You are requested to organize a BoS meeting before the start of the next semester, i.e. even semester January-June 2022, so that students can benefit from the revised schemes.

Thanks & Regards,

Dr. Gurmanik Kaur

Officiating CoD,

EE & ECE, SBBSU



# ANNEXURE-I

Point-wise description of the proposed amendments in the 2019 scheme

S. No.	Programme Name/ Programme Code	Course Code	Course Name	Remarks by Committee	Action To Be Taken
1.	B.Tech. (EE)& B.Tech. (EE) LEET /UG020	EE306	Power System – II lab	Contents need to be revised	Incorporate in the curriculum by modifying the contents. Since the contents were same as that of Power System-I.
2.	B.Tech. (EE)& B.Tech. (EE) LEET /UG020	EE407	High Voltage DC Transmission system	Course name need to be revised	Already incorporated in the curriculum, however, the name <del>to be</del> changed, since the abbreviation was given in the previous scheme
3.	B.Tech. (EE)& B.Tech. (EE) LEET /UG020	EE324	Biomedical Instrumentation	Professional Elective-III course need to be included.	Incorporate in curriculum as professional Elective-III, in semester 6
4.	B.Tech. (EE)& B.Tech. (EE) LEET /UG020	ME472	Operations Management	The subject name Production & Operations Management need to be revised since the name of the subject is Operations Mangement in the scheme of Host Deptt (Mechanical Engg)	Incorporate in curriculum as Operations Management as open elective –IV in 7 <sup>th</sup> Sem.
5.	B.Tech. (EE)& B.Tech. (EE) LEET /UG020	ME474	Industrial Safety	Industrial Safety need to be introduced as required by the stake holders	Incorporate in curriculum as Industrial Safety ( <i>open Elective IV</i> )



6.	B.Tech. (EE)& B.Tech. (EE) LEET /UG020	EE476	Utilization of Electrical Energy	Electrical Measurements need to be replaced with Utilization of Electrical Energy	Incorporate in curriculum as Open elective-V in 8 <sup>th</sup> sem.
7.	B.Tech. (EE)& B.Tech. (EE) LEET /UG020	EE31 8	Line Commutated and active PWM rectifiers	Course Code need to be revised due to incorporation of other subjects.	Incorporate in curriculum as professional elective-III in 6 <sup>th</sup> sem.

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# ANNEXURE-II

Point-wise description of the proposed amendments in the 2020 scheme

S.No.	Programme Name/ Programme Code	Course Code	Course Name	Remarks by Experts	Action To Be Taken
1.	B.Tech. (EE)& B.Tech. (EE) LEET /UG020	EE306	Power System – II lab	Contents need to be revised	Incorporate in the curriculum by modifying the contents. Since the contents were same as that of Power System-I.
2	B.Tech. (EE)& B.Tech. (EE) LEET /UG020	EE407	High Voltage DC Transmission system	Course name need to be revised	Already incorporated in the curriculum, however, the name <del>to be</del> changed, since the abbreviation was given in the previous scheme
3.	B.Tech. (EE)& B.Tech. (EE) LEET /UG020	EE305	Measurement & Instrumentation	The Course L:T:P and Contact hours need to be revised.	Incorporate in the curriculum with 4 contact hours and 4 credits.
4.	B.Tech. (EE)& B.Tech. (EE) LEET /UG020	EE326	Line Commutated and active PWM rectifiers	Course Code need to be revised due to revisions in the scheme	Incorporate in the curriculum by modifying Course code.
5.	B.Tech. (EE) & B.Tech. (EE) LEET /UG020	EE324	Biomedical Instrumentation	Professional Elective-III course list need to be revised	Incorporate in curriculum as professional Elective-III, in semester 6
6.	B.Tech. (EE) & B.Tech. (EE)	EE371	Open Elective-1	Open Elective-1 need to be shifted	incorporate in curriculum as



	LEET /UG020			from Sem V since the students are overburdened.	Open Elective-1 in Sem VI.
7.	B.Tech. (EE) & B.Tech. (EE) LEET /UG020	EE371	Instrumentation in Power System	Electrical Energy Conservation and Auditing need to be replaced with Instrumentation in Power System.	Incorporate in curriculum as open elective in semester 5.
8.	B.Tech. (EE)& B.Tech. (EE) LEET /UG020	ECE372	Analog and Digital Communication	Signal And System need to be replaced with Analog and Digital Communication.	Incorporate in the curriculum as open elective -II in 6 <sup>th</sup> semester.
9.	B.Tech. (EE)& B.Tech. (EE) LEET /UG020	EE372	Electric Generation & Economics	Industrial Electrical System need to be replaced with Electric Generation & Economics since the syllabus contents are similar to Power System-II and Utilization of Electrical Energy.	Incorporate in the curriculum as open elective -II in 6 <sup>th</sup> semester .
10.	B.Tech. (EE)& B.Tech. (EE) LEET /UG020	ME472	Operation Management	The subject name Production & Operations Management need to be revised since the name of the subject is Operations Mangement in the scheme of	Incorporate in curriculum as Operations Management as open elective - IV in 7 <sup>th</sup> Sem.



				Host Deptt (Mechanical Engg)	
11.	B.Tech. (EE)& B.Tech. (EE) LEET /UG020	EE476	Utilization of Electrical Energy	Electrical Measurements need to be replaced with Utilization of Electrical Energy	Incorporate in curriculum as Open elective-V in 5 <sup>th</sup> sem.
12.	B.Tech. (EE)& B.Tech. (EE) LEET /UG020	EE204	Linear Control System	The Course L:T need to be revised	Incorporate in the curriculum with 5 contact hours and credits.
13.	B.Tech. (EE)& B.Tech. (EE) LEET /UG020	EE208	Microprocessor & Interfacing Applications	The course need to be incorporated since it is a pre requisite for microcontroller and interfacing	Incorporate in the curriculum as professional core in 4 <sup>th</sup> semester.
14.	B.Tech. (EE)& B.Tech. (EE) LEET /UG020	EE214	Microprocessor & Interfacing Applications Lab	The course need to be incorporated since it is a pre requisite for microcontroller and interfacing lab	Incorporate in the curriculum as professional core in 4 <sup>th</sup> semester.
15.	B.Tech. (EE)& B.Tech. (EE) LEET /UG020	EE318	Microcontroller & Interfacing Applications	The course needs to be shifted in 6 <sup>th</sup> semester.	Incorporate in the curriculum as professional core theory subject in 6 <sup>th</sup> semester
16.	B.Tech. (EE)& B.Tech. (EE) LEET /UG020	EE328	Microcontroller & Interfacing Applications Lab	The course needs to be shifted in 6 <sup>th</sup> semester.	Incorporate in the curriculum as professional core lab subject in 6 <sup>th</sup> semester



17.	B.Tech. (EE) & B.Tech. (EE) LEET /UG020	ECE373	Speech Signal & Image Processing	The course need to be introduced	Incorporate in the curriculum as open elective-I in 6 <sup>th</sup> semester..
18.	B.Tech. (EE)& B.Tech. (EE) LEET /UG020	ECE371	Mobile Communication.	The course need to be introduced	Incorporate in the curriculum as open elective-I in 6 <sup>th</sup> semester..

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