

# For kind approval: Minutes of 3rd Meeting (on-line) of BoS Electrical Engineering (Main Campus and Constituent Campuses) held on 18/01/2021.

10 messages

#### Deepika Bhalla <deepika.bhalla89@gmail.com>

Mon, Jan 18, 2021 at 3:29 PM

To: "Dr. Yadwinder Singh" <ysbrar@ptu.ac.in>, jagdishkumar@pec.ac.in, YOG RAJ <yrsood@nith.ac.in>, jsdhillion@sliet.ac.in, "J.S. Dhillon" <jsdhillion@gyahoo.com>, Gagandeep Kaur <gaganee@ptu.ac.in>, Chakradhar Reddy Chandupatla <reddy@iitrpr.ac.in>, kds@gndec.ac.in, KD Singh <kds97dee@gmail.com>, dr.rakeshbhanga@ptu.ac.in, Navneet Singh <navneetbhangu@gmail.com>, nsbhangu@gndec.ac.in, Akhil Gupta <akhilgupta1977@gmail.com>, "ashwani.k.sharma." <ashwani.k.sharma@nitkkr.ac.in>, Dilbag Singh <drdilbag@gmail.com>, Naveen Sharma <naveen31.sharma@gmail.com>, "deepika.bhalla89" <deepika.bhalla89@gmail.com>

Respected All,

Please find appended the Minutes of the meeting held earlier today. The relevent documents are attached with. Your approval is requested for.

Thanks and Regards

Dr Deepika Bhalla Coordinator, BoS(EE) Main and Constituent Colleges + 9465884854

### Minutes of Meeting held on January 18, 2020

The 3<sup>rd</sup> meeting of BoS Electrical Engineering (Main Campus and Constituent Campuses) was held online (<u>Google Meet Link:</u> https://meet.google.com/jvk-yndm-iro) under the Chairmanship of Prof. (Dr) Y S Brar, on January 18, 2021, (Monday) at 11:00 am.

- 1. Dr Y S Brar, Chairman
- 2. Dr Jagdish Kumar
- Dr Yog Raj Sood
- 4. Dr J S Dhillon
- 5. Dr Gagandeep Kaur
- Dr Chakardhar Reddy
- 7. Dr Kanwardeep Singh
- 8. Dr Navneet Singh Bhangu
- 9. Dr Akhil Gupta
- Dr Ashwani Kumar
- 11. Dr Dilbagh Singh
- 12. Dr Naveen Kumar Sharma (special Invitee)

A. On 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, the member of BoS were conveyed that Minutes are approved by Chairman of Academic Council, since the necessary action has been taken on them; they be closed.

Review of the Minutes of Meeting of the 2nd meeting (on-line) of Board of Studies (Electrical Engineering), Main and

Constituent Campuses (2019-21) held on 21/05/2020.

Unalituent (	Campuses (2019-21) held on 21/05/2020	
Item	Agenda	Discussions and Decision
No.		Action Taken
NO.		
	To adopt the changes communicated	The marks distribution of Mandatory Non-Credit Courses of B.
2.1	for the uniformity of marks distribution	Tech Electrical Engineering is adopted.
	of Mandatory Non-Credit Courses of	9 11 3 1 1 1 j
	B. Tech programmes on 2018	
	teaching scheme. (IKG-PTU/DA/2243	
	and IKG-PTU/DA/IO-1320, dated	Action Taken:
	09/12/2019 followed by IKG-	Information available on website.
	PTU/DA/2316, dated 31/01/2020.	
	To adopt the Syllabus of Mandatory	The Syllabus of Mandatory Non-Credit Course EVS-101-18
2.2	Non-Credit Course EVS-101-	Environmental Studies (IKG-PTU/DA/1475, dated 08/02/2019
	18Environmental Studies (IKG-	followed by IKG-PTU/DA/2316, dated 31/01/2020) is adopted.
	PTU/DA/1475, dated 08/02/2019	Action Taken:
	followed by IKG-PTU/DA/2316, dated	Information available on website.
	31/01/2020)	
	Item 52.04.12 of the 52 <sup>nd</sup> Academic	Item 52.04.12 of the 52nd Academic Council meeting held on
2.3	Council meeting held on 16/01/2020.	16/01/2020. "Distribution of marks for evaluation of M. Tech.
	"Distribution of marks for evaluation	Dissertation", is adopted.
	of M. Tech. Dissertation"	Action Taken:
		Information available on website.
0.4	Bridge courses/additional subjects for	The BoS recommended and approved Bridge
2.4	change of branch/upgradation in 3 <sup>rd</sup>	courses/additional subjects for change of
	Semester to B. Tech. Electrical	branch/upgradation in 3 <sup>rd</sup> Semester to B. Tech. Electrical
	Engineering program.	Engineering program
		Student who opts for B. Tech. Electrical Engineering
		programme in 3 <sup>rd</sup> Semester will need to study the
		following Bridge /Additional courses:
		Student opting Bridge /
		for B. Tech EE Additional courses
		from B. Tech.
		Computer (Bridge BTPH102-18 Science Course-I) (Theory)
		Science Course-I) (Theory) Engineering BTAMBC1- BTPH112-18
		Computer 18 (Laboratory)
		Fngineering Not
		Civil
		Engineering
		Mechanical
		Engineering
		Electronics and BTEE-101-

	Agenda		Dis	scussions a	nd Decision	
Item No.				Action	Taken	
NO.						
			Communication			18 (Theory)
			Engineering			BTEE-102- 18
						(Laboratory)
			i)	The Bri	dae /Addition	al course is
			,		•	tra credit is
			awarded to	the student	qualifying the	course
			,	•		I be evaluated
			•			ne said course
			thought	internal	evalua	
			•	-	stituent campu	course should
			,		er week for tea	
			•	•		f branch must
			•			of change of
			branch.			
			•	-	-	tuent campus
						nt has passed
			•	Additional co		udit/qualifying
			, ,			ification/s and
						l be cancelled
			and the Ex	amination D	epartment of	IKGPTU shall
						OMCs as per
					th same numb	
			The BoS recom		•	
			Bridge courses branch/upgradat		•	_
			Engineering prog		incolor to D. 1	CON. Electrical
		Ac	tion taken:	<del>)</del>		
			proval from Cha	irman of Ac	ademic coun	cil available.
		Dis	scussion and De	<u>cision in 3<sup>rd</sup></u>	d meeting of E	<u>BoS</u>
			aft to be made a			
0.5	To invite representative of TCS-ion to		e BOS did not			•
2.5	present detailed presentation of the		nmunication is	not address	sed for B.Tec	ch. in Electrical
	subjects proposed for B.Tech. in Electrical Engineering. The	En	gineering.			
	presentation to include:					
	a) The proposed subjects for					
	B.Tech. in Electrical					
	Engineering, outcomes and					
	infrastructure.					
	b) If any training for B.Tech.	Α -	tion tolern-			
	in Electrical Engineering is being undertaken by TCS-ion in	_	tion taken: proval from Cha	irman of Ac	adomio ooun	cil available
	any college or University, should	Aþ	piovai liulli Ulla	minan or AC	autillic COUII	un avallable.
	be elaborated with viability.					

	Agenda	Discussions and Decision
Item	7.901144	Action Taken
No.		
2.6	Item 52.08 of the 52 <sup>nd</sup> Academic Council meeting held on 16/01/2020: "Starting of one semester training for B. Tech programs in 7 <sup>th</sup> /8 <sup>th</sup> semester (Not available in model curriculum of AICTE)	Item 52.08 of the 52nd Academic Council meeting held on 16/01/2020: "Starting of one semester training for B. Tech programs in 7th/8th 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 7th or 8th Semester (Subject to approval from Competent Authority).  Action taken:  Approval from Chairman of Academic council available
		Draft available on website.
2.7	Changes in draft of syllabus of 3 <sup>rd</sup> and 4 <sup>th</sup> 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 3rd year B.Tech. in Electrical Engineering programme.  (b) The syllabus of 5th Semester B.Tech. in Electrical Engineering programme.  (c) The draft of teaching scheme of 4th year B.Tech. in Electrical Engineering programme.  Action taken:  Approval from Chairman of Academic council available
		Draft available on website.
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.	<ul> <li>(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.</li> <li>Action Taken: Information available on website. (b) The BoS proposed to adopted the syllabus of respective courses given in the "AICTE model curriculum for UG Courses Volume-II , January 2018". It was observed that Course Outcomes need to be included. The concerned BoS to provide the syllabus and COs. </li> </ul>
		Pending

Item No.	Agenda	Discussions and Decision Action Taken
	A. To finalise the on-line SWAYAM/	A. From the available relevant on-line SWAYAM/ MOOCS
2.9	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 06/032020.	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.  Action taken:  Approval from Chairman of Academic council available.  Conveyed to upload information on website.  Discussion and Decision in 3 <sup>rd</sup> meeting of BoS  All were informed that no student was permitted for Minor degree in Electrical Engineering in Academic session 2019-20 and 2020-21.  BoS(EE) decided that Minor Degree to be as per AICTE nomenclature
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.	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. Action on letter regarding MOOCs courses Reference no. IKGPTU/DA/2355, dated 06/032020.	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. Action taken:  Approval from Chairman of Academic council available.
		Discussion and Decision in 3 <sup>rd</sup> meeting of BoS The BoS(EE) post-facto approved the list of SWAYAM/ MOOCS for Honors Degree in Electrical Engineering for the session January-May 2020. All were informed that no student opted for Honors degree in Electrical Engineering in Academic session 2020-21.

Item No.	Agenda	Discussions and Decision Action Taken
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 Process Handbook 2021, Chapter 7, Point 7.3.2, circulated vide Reference no IKG-PTU/DAA/2347, dated 28/02/20202)	<ul> <li>(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 Minor Degree in Electrical and Computer Engineering.</li> <li>(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.</li> <li>Action taken:</li> <li>Approval from Chairman of Academic council available.</li> <li>Discussion and Decision in 3<sup>rd</sup> meeting of BoS</li> <li>Request to be sent to BoS(CSE)</li> </ul>

	Agenda	Discussions and Decision
Item		Action Taken
No.		
	Procedure for (a) Minor Degree (b)	The BoS recommended for approval:
2.12	Honors Degree	(a) Student to opt for Minor degree in relevant programme in
	Tionora Degree	3rd semester and for Honors Degree in 5th Semester.
		(b) Students having no backlog of 1st semester and 2nd
		semester can opt for Minor Degree in Electrical and Computer
		Engineering in the 3rd semester. Students having no backlog of
		3rd semester and 4th semester can opt for Honors Degree in B.
		Tech. Electrical Engineering in the 5th 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.
		v) On obtaining the minimum credits the student will be eligible
		for (a) Minor Degree (b) Honors Degree in relevant
		programme.
		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 as per the list
		provided by BoS for this purpose. (b) Honors degree from
		Professional Elective Courses other than those taken up for
		the concerned B.Tech Programme.
		(c)The list of (i) Professional Core Courses (ii) Professional
		Elective Courses, clearly indicating odd and even semester is available in the Teaching Scheme.
		Action taken: Approval from Chairman of Academic council available.

	Agenda	Discussions and Decision
Item No.		Action Taken
2.13	Recommendation for e-books	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.  a) Dr Gagandeep Kaur, Chairperson, b) Dr Kanwardeep Singh, Member (external) c) Dr Akhil Gupta, Member (internal)
		d) Dr Deepika Bhalla (Coordinator)  Action taken:
		Approval from Chairman of Academic council available.
2.14	Notification "Regarding New Programme", Ref. No. IKGPTU/REG/NF/36, dated 04/03/2020 for B. Voc. Solar System	Not to be considered for the Main/Constituent campuses.  Action taken:
	Technology of 03 Years duration	Approval from Chairman of Academic council available.
2.15	On account of the lockdown since March 2020 due to COVID-19 pandemic, discussion on:  (A) The change of pattern of	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 <b>Semester Ending Examination May 2020</b> may be conducted, if needed.
	Question paper and evaluation	On account of which there would be change in the pattern of question paper and the way to attempt it. The BoS
	(B) Propose the Names of Paper Setters for each subject.	recommends:
	(Ref. No. e-file I-15/534/2020-COE, received through email on 11 <sup>th</sup> , May 2020).	<ul> <li>(a) 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.</li> <li>(b) On clicking the SAVE AND NEXT button, the next question will appear. Provision of invigilation of online examination to be made.</li> <li>(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.</li> <li>(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.</li> <li>(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.</li> <li>(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</li> </ul>

Item No.	Agenda	Discussions and Decision Action Taken
		Cisco Webex or any other online/virtual platform. The record of the evaluation to be maintained.
		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.
		(B) The BoS (EE) approved the list of the paper setters for online/conventional semester ending Examination for May 2020 to be:  a) Names of 03-04 Question Paper Setters for each subject is proposed to the Examination Department 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). c) Each Question Paper to have two sets. d) The maximum number of Question papers/sets to be assigned to one paper setter to be 03. 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.  Action taken: Approval from Chairman of Academic council available.

Item No.	Agenda	Discussions and Decision Action Taken
2.16	To allow credit transfer to students to the extent of 20% in every semester for online courses provided through SWAYAM platform.	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.  (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.  (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.  (c) The steps are already proposed for credits earned through SWAYAM/MOOCS courses in Item no 2.12.  (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."  **Action taken:** Approval from Chairman of Academic council available.**

# C. Discussion and decision on agenda Items

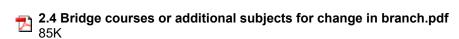
Item	Agenda	Discussion and Decision
No.		
3.1	The syllabus of 6th Semester B.Tech. Programme in Electrical Engineering	The BoS discussed, revised and approved the syllabus of 6th Semester B.Tech. Programme in Electrical Engineering.
3.2	The syllabus of Open Electives (odd/even) of B.Tech. Programme in Electrical Engineering	The BoS discussed, revised and approved the syllabus Open Electives (odd/even) of B.Tech. Programme in Electrical Engineering.
3.3	To finalize the on-line SWAYAM/MOOCS courses for Honors Degree in Electrical Engineering and Minor Degree offered by Department of Electrical Engineering for the session (b) August-December 2020 (b) January-May 2021.	(b) The BoS post-facto approved the on-line SWAYAM/MOOCS courses for Honors Degree in Electrical Engineering and Minor Degree offered by Department of Electrical Engineering for the session August-December 2020 (b) The BoS discussed and finalized the courses for Honors Degree in Electrical Engineering and Minor Degree offered by Department of Electrical Engineering for the session January-May 2021.

Item No.	Agenda	Discussion and Decision
3.4	Proposal of starting B. Tech. Minor Degree of in Electrical Vehicles for students pursuing Major Degree in Mechanical Engineering / Electrical Engineering as per IKGPTU/Reg/NF/2056, dated 17/05/2019, "Guidelines for Major and Minor Degree in B. Technology". IKGPTU/DAA/2347, dated 28/02/2020, "Regarding AICTE approval process handbook 20-21, Chapter VII point 7.3.2.	The BoS agreed to start a B. Tech. Minor Degree in Electrical Vehicles for students pursuing Major Degree in Mechanical Engineering / Electrical Engineering.  The students of B.Tech. ME/B.Tech. ME (LEET) are eligible to undertake the B. Tech. Minor Degree of in Electrical Vehicles programme in 3rd semester. The programme will be offered by Department of Electrical Engineering.  The draft of the Teaching Scheme was discussed and approved and the same to be shared with BoS(ME) Main and Constituent campuses.  Request to be sent to BoS (ME) for Teaching scheme and syllabus for students pursuing Major Degree in Electrical Engineering B. Tech. who desire to opt for Minor Degree of in Electrical Vehicles programme in 3rd semester.
3.5	To make available on website the procedure for (a) Minor Degree (b) Honors Degree draft.	The BoS recommended the posting of the procedure for (a) Minor Degree (b) Honors Degree draft on website.
3.6	To approve the list of e-books for Under Graduate programme of Electrical	Deferred.

The Members of BoS (EE) authorize Chairman BoS, HoD (EE) Main Campus, Coordinator and one member of BoS to sign relevant document.

There being no further points the meeting ended with a thanks to the Chair.

#### 7 attachments



3.2 Syllabus of open electives Electrical Engineering.pdf

3.3 (a) August-December 2020 MOOCS courses for Minor or Honors Degree in EE .pdf

3.3 (b) January -May 2021MOOCS courses for Minor or Honors Degree in EE .pdf

3.1 Syllabus of 6th Semester B. Tech. Electrical Engineering.pdf 237K

3.4 Draft Teaching Scheme of Minor degree in EV.pdf 123K

3.5 Draft Procedure for honors and Minor degree.pdf

Naveen Sharma <naveen31.sharma@gmail.com>
To: Deepika Bhalla <deepika.bhalla89@gmail.com>

Mon, Jan 18, 2021 at 3:36 PM

Respected All,

Please find appended the Minutes of the meeting held earlier today. The relevent documents are attached with. Your approval is requested for.

Thanks and Regards

Dr Deepika Bhalla Coordinator, BoS(EE) Main and Constituent Colleges + 9465884854

#### Minutes of Meeting held on January 18, 2020

The 3<sup>rd</sup> meeting of BoS Electrical Engineering (Main Campus and Constituent Campuses) was held online (<u>Google Meet Link:</u> https://meet.google.com/jvk-yndm-iro) under the Chairmanship of Prof. (Dr) Y S Brar, on January 18, 2021, (Monday) at 11:00 am.

- 1. Dr Y S Brar, Chairman
- 2. Dr Jagdish Kumar
- 3. Dr Yog Raj Sood
- 4. Dr J S Dhillon
- 5. Dr Gagandeep Kaur
- 6. Dr Chakardhar Reddy
- 7. Dr Kanwardeep Singh
- 8. Dr Navneet Singh Bhangu
- 9. Dr Akhil Gupta
- 10. Dr Ashwani Kumar
- 11. Dr Dilbagh Singh
- 12. Dr Naveen Kumar Sharma (special Invitee)
- 13. Dr Deepika Bhalla, Convener
- A. On 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, the member of BoS were conveyed that Minutes are approved by Chairman of Academic Council, since the necessary action has been taken on them; they be closed.
- B. Review of the Minutes of Meeting of the 2nd meeting (on-line) of Board of Studies (Electrical Engineering), Main and Constituent Campuses (2019-21) held on 21/05/2020.

	Agenda	Discussions and Decision
Item	-	Action Taken
No.		

Item	Agenda	Discussions and Decision Action Taken				
No.						
2.1	To adopt the changes communicated for the uniformity of marks distribution of Mandatory Non-Credit Courses of B. Tech programmes on 2018	The marks distribution of Mandatory Non-Credit Courses of Tech Electrical Engineering is adopted.				
	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.	Action Taken: Information available on website.  The Syllabus of Mandatory Non-Credit Course EVS-102				
2.2	To adopt the Syllabus of Mandatory Non-Credit Course EVS-101- 18Environmental 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. <i>Action Taken: Information available on website.</i>				
2.3	Item 52.04.12 of the 52 <sup>nd</sup> Academic Council meeting held on 16/01/2020. "Distribution of marks for evaluation of M. Tech. Dissertation"	Item 52.04.12 of the 52nd Academic Council meeting held of 16/01/2020. "Distribution of marks for evaluation of M. Tec Dissertation", is adopted.  Action Taken: Information available on website.				
2.4	Bridge courses/additional subjects for change of branch/upgradation in 3 <sup>rd</sup> Semester to B. Tech. Electrical Engineering program.	The BoS recommended and approved Bridge courses/additional subjects for change or branch/upgradation in 3 <sup>rd</sup> Semester to B. Tech. Electrical Engineering program  Student who opts for B. Tech. Electrical Engineering programme in 3 <sup>rd</sup> Semester will need to study the following Bridge /Additional courses:  Student opting for B. Tech EE from B. Tech.  Bridge / Additional courses				
		Computer Science Engineering Computer Engineering Civil (Bridge BTPH102-18 Engineering Course-I) (Theory) Mechanical BTAMBC1- Engineering 18 (Laboratory)  Electronics and Communication Engineering  i) The Bridge /Additional course is awarded to the student qualifying the course ii) The Bridge /Additional course will be evaluated by the concerned teacher allocated the said course				

Item	Agenda	Discussions and Decision Action Taken
No.		ACTION TAKEN
		thought internal evaluation at department/college/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/college/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.  The BoS recommended the procedure and approved Bridge courses/additional subjects for change of branch/upgradation in 3rd Semester to B. Tech. Electrical Engineering program.  Action taken:  Approval from Chairman of Academic council available.
		<u>Discussion and Decision in 3<sup>rd</sup> meeting of BoS</u>
2.5	To invite representative of TCS-ion to present detailed presentation of the subjects proposed for B.Tech. in Electrical Engineering. The	Draft to be made available on website.  The BOS did not find the item to be in its scope as the communication is not addressed for B.Tech. in Electrical Engineering.
	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.	Action taken: Approval from Chairman of Academic council available.
2.6	Item 52.08 of the 52 <sup>nd</sup> Academic Council meeting held on 16/01/2020: "Starting of one semester training for B. Tech programs in 7 <sup>th</sup> /8 <sup>th</sup> semester (Not available in model curriculum of AICTE)	Item 52.08 of the 52nd Academic Council meeting held on 16/01/2020: "Starting of one semester training for B. Tech programs in 7th/8th 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 7th or 8th Semester (Subject to approval from Competent Authority).  Action taken:  Approval from Chairman of Academic council available Draft available on website.

Item	Agenda	Discussions and Decision Action Taken
No.		7.5
2.7	Changes in draft of syllabus of 3 <sup>rd</sup> and 4 <sup>th</sup> 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 3rd year B.Tech. in Electrical Engineering programme.  (b) The syllabus of 5th Semester B.Tech. in Electrical Engineering programme.  (c) The draft of teaching scheme of 4th year B.Tech. in Electrical Engineering programme.  Action taken:  Approval from Chairman of Academic council available  Draft available on website.
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.	<ul> <li>(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.</li> <li>Action Taken: Information available on website. (b) The BoS proposed to adopted the syllabus of respective courses given in the "AICTE model curriculum for UG Courses Volume-II , January 2018". It was observed that Course Outcomes need to be included. The concerned BoS to provide the syllabus and COs. Pending</li> </ul>
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 06/032020.	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.  Action taken:  Approval from Chairman of Academic council available.  Conveyed to upload information on website.  Discussion and Decision in 3 <sup>rd</sup> meeting of BoS  All were informed that no student was permitted for Minor degree in Electrical Engineering in Academic session 2019-20 and 2020-21.  BoS(EE) decided that Minor Degree to be as per AICTE nomenclature

-	Action Taken
	Action Taken
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	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
courses Reference no. IKGPTU/DA/2355, dated 06/032020.	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.  Action taken:  Approval from Chairman of Academic council available.  Discussion and Decision in 3 <sup>rd</sup> meeting of BoS  The BoS(EE) post-facto approved the list of SWAYAM/MOOCS for Honors Degree in Electrical Engineering for the session January-May 2020.  All were informed that no student opted for Honors degree in Electrical Engineering in Academic session 2020-21.
Students pursuing Major Degree in Electrical Engineering (Batch 2018 onwards) can only do Minor degree in Electrical and Computer Engineering (Reference AICTE Approval Process Handbook 2021, Chapter 7, Point 7.3.2, circulated vide Reference no IKG-PTU/DAA/2347, dated 28/02/20202)	(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 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.  Action taken:  Approval from Chairman of Academic council available.  Discussion and Decision in 3 <sup>rd</sup> meeting of BoS  Request to be sent to BoS(CSE)
	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 06/032020.  Students pursuing Major Degree in Electrical Engineering (Batch 2018 onwards) can only do Minor degree in Electrical and Computer Engineering (Reference AICTE Approval Process Handbook 2021, Chapter 7, Point 7.3.2, circulated vide Reference no IKG-PTU/DAA/2347,

	Agenda	Discussions and Decision
Item No.		Action Taken
NO.		
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
		3rd semester and for Honors Degree in 5th Semester.  (b) Students having no backlog of 1st semester and 2nd
		semester can opt for Minor Degree in Electrical and Computer
		Engineering in the 3rd semester. Students having no backlog of
		3rd semester and 4th semester can opt for Honors Degree in B.
		Tech. Electrical Engineering in the 5th 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.
		<ul> <li>The number of credits for SWAYAM/MOOCS courses for Minor degree in relevant programme to be as per the credits</li> </ul>
		mentioned on the certificate of the respective SWAYAM/
		MOOCS course.
		<ul> <li>The following steps are proposed for credits earned through SWAYAM/MOOCS courses:</li> </ul>
		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.
		v) On obtaining the minimum credits the student will be eligible
		for (a) Minor Degree (b) Honors Degree in relevant
		programme.
		<ul> <li>In case of non-availability of SWAYAM/MOOCS courses the student can earn the minimum credits for (a) Minor Degree</li> </ul>
		from Professional Core / Elective Courses as per the list
		provided by BoS for this purpose. (b) Honors degree from
		Professional Elective Courses other than those taken up for
		the concerned B.Tech Programme. (c)The list of (i) Professional Core Courses (ii) Professional
		Elective Courses, clearly indicating odd and even semester is
		available in the Teaching Scheme.
		Action taken:
		Approval from Chairman of Academic council available.

	Agenda	Discussions and Decision
Item		Action Taken
No.		
2.13	Recommendation for e-books	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.  a) Dr Gagandeep Kaur, Chairperson, b) Dr Kanwardeep Singh, Member (external) c) Dr Akhil Gupta, Member (internal) d) Dr Deepika Bhalla (Coordinator)  Action taken: Approval from Chairman of Academic council available.
	Notification "Regarding New	Not to be considered for the Main/Constituent campuses.
2.14	Programme", Ref. No. IKGPTU/REG/NF/36, dated 04/03/2020 for B. Voc. Solar System	Action taken:
	Technology of 03 Years duration	Approval from Chairman of Academic council available.
2.15	On account of the lockdown since March 2020 due to COVID-19 pandemic, discussion on:  (A) The change of pattern of Question paper and evaluation  (B) Propose the Names of Paper Setters for each subject.	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 <b>Semester Ending Examination May 2020</b> 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:
	(Ref. No. e-file I-15/534/2020-COE, received through email on 11 <sup>th</sup> , May 2020).	<ul> <li>(a) 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.</li> <li>(b) On clicking the SAVE AND NEXT button, the next question will appear. Provision of invigilation of online examination to be made.</li> <li>(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.</li> <li>(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.</li> <li>(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.</li> <li>(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</li> </ul>

Item No.	Agenda	Discussions and Decision Action Taken
		Cisco Webex or any other online/virtual platform. The record of the evaluation to be maintained.
		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.
		(B) The BoS (EE) approved the list of the paper setters for online/conventional semester ending Examination for May 2020 to be:  a) Names of 03-04 Question Paper Setters for each subject is proposed to the Examination Department 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). c) Each Question Paper to have two sets. d) The maximum number of Question papers/sets to be assigned to one paper setter to be 03. 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.  **Action taken:**
		Approval from Chairman of Academic council available.

Item No.	Agenda	Discussions and Decision Action Taken
2.16	To allow credit transfer to students to the extent of 20% in every semester for online courses provided through SWAYAM platform.	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.  (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.  (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.  (c) The steps are already proposed for credits earned through SWAYAM/MOOCS courses in Item no 2.12.  (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."  **Action taken:* Approval from Chairman of Academic council available.**

#### C. Discussion and decision on agenda Items

Item No.	Agenda	Discussion and Decision
3.1		

Mon, Jan 18, 2021 at 4:12 PM

#### Dilbag Singh <drdilbag@gmail.com>

To: Deepika Bhalla <deepika.bhalla89@gmail.com>

Cc: "Dr. Yadwinder Singh" <ysbrar@ptu.ac.in>, Jagdish Kumar <jagdishkumar@pec.ac.in>, YOG RAJ <yrsood@nith.ac.in>, jsdhillion@sliet.ac.in, "J.S. Dhillon" <jsdhillion@yahoo.com>, Gagandeep Kaur <gaganee@ptu.ac.in>, Chakradhar Reddy Chandupatla <reddy@iitrpr.ac.in>, kds@gndec.ac.in, KD Singh <kds97dee@gmail.com>, dr.rakeshbhanga@ptu.ac.in, Navneet Singh <navneetbhangu@gmail.com>, nsbhangu@gndec.ac.in, Akhil Gupta <akhilgupta1977@gmail.com>, "ashwani.k.sharma." <ashwani.k.sharma@nitkkr.ac.in>, Naveen Sharma <naveen31.sharma@gmail.com>

#### Approved.

On Mon, 18 Jan 2021, 3:29 pm Deepika Bhalla, <deepika.bhalla89@gmail.com> wrote:

Respected All,

Please find appended the Minutes of the meeting held earlier today. The relevent documents are attached with. Your approval is requested for.

Thanks and Regards

Dr Deepika Bhalla Coordinator, BoS(EE) Main and Constituent Colleges + 9465884854

## Minutes of Meeting held on January 18, 2020

The 3<sup>rd</sup> meeting of BoS Electrical Engineering (Main Campus and Constituent Campuses) was held online (<u>Google Meet Link:</u> https://meet.google.com/jvk-yndm-iro) under the Chairmanship of Prof. (Dr) Y S Brar, on January 18, 2021, (Monday) at 11:00 am.

- 1. Dr Y S Brar, Chairman
- 2. Dr Jagdish Kumar
- 3. Dr Yog Raj Sood
- 4. Dr J S Dhillon
- 5. Dr Gagandeep Kaur
- 6. Dr Chakardhar Reddy
- 7. Dr Kanwardeep Singh
- 8. Dr Navneet Singh Bhangu
- 9. Dr Akhil Gupta
- 10. Dr Ashwani Kumar
- 11. Dr Dilbagh Singh
- 12. Dr Naveen Kumar Sharma (special Invitee)
- 13. Dr Deepika Bhalla, Convener
- A. On 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, the member of BoS were conveyed that Minutes are approved by Chairman of Academic Council, since the necessary action has been taken on them; they be closed.
- B. Review of the Minutes of Meeting of the 2nd meeting (on-line) of Board of Studies (Electrical Engineering), Main and Constituent Campuses (2019-21) held on 21/05/2020.

Action Taken
mmunicated s distribution of Mandatory Non-Credit Courses of B Tech Electrical Engineering is adopted.  Courses of on 2018 TU/DA/2243
320, dated Action Taken:
by IKG- <i>Information available on website.</i> 01/2020.
it

	Agenda			Dis	scussions a	nd Decision		
Item No.			Action Taken					
2.2	To adopt the Syllabus of Mandatory Non-Credit Course EVS-101- 18Environmental Studies (IKG- PTU/DA/1475, dated 08/02/2019 followed by IKG-PTU/DA/2316, dated 31/01/2020)	fo A	The Syllabus of Mandatory Non-Credit Course EVS-101-1 Environmental Studies (IKG-PTU/DA/1475, dated 08/02/201 followed by IKG-PTU/DA/2316, dated 31/01/2020) is adopted <i>Action Taken: Information available on website.</i>				ated 08/02/2019	
2.3	Item 52.04.12 of the 52 <sup>nd</sup> Academic Council meeting held on 16/01/2020. "Distribution of marks for evaluation of M. Tech. Dissertation"	16 Di <b>A</b>	Item 52.04.12 of the 52nd Academic Council meeting held 16/01/2020. "Distribution of marks for evaluation of M. Teo Dissertation", is adopted.  Action Taken: Information available on website.				•	
2.4	Bridge courses/additional subjects for change of branch/upgradation in 3 <sup>rd</sup> Semester to B. Tech. Electrical Engineering program.		b E S	courses/additional branch/upgradati Engineering prog Student who opts programme in 3 <sup>rd</sup> ollowing Bridge	ion in 3 <sup>rd</sup> Ser gram s for B. Tech.	ets for mester to B. T . Electrical Enq vill need to stu	gineering	
				Student opting for B. Tech EE from B. Tech.	,	Bridge / Additional cours	ees	
					Computer Science Engineering Computer Engineering Civil Engineering Mechanical Engineering Electronics and Communication Engineering	(Bridge Course-I) BTAMBC1- 18	BTPH102-18 (Theory) BTPH112-18 (Laboratory)	Not applicable  BTEE-101- 18 (Theory) BTEE-102- 18 (Laboratory)
				awarded to ii) The Br by the cond thought department iii) The tea be given 2 t iv) The st qualify the branch. v) The	ying course the student idge /Additio cerned teach internal c/college/cons acher allocat hours load po tudent opting course with	and no exqualifying the example of allocated the evaluation of the example of the	al course is ctra credit is course I be evaluated ne said course ation at us level.	

Item	Agenda	Discussions and Decision Action Taken
No.		
		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. The BoS recommended the procedure and approved Bridge courses/additional subjects for change of branch/upgradation in 3rd Semester to B. Tech. Electrical Engineering program.  Action taken: Approval from Chairman of Academic council available. Discussion and Decision in 3rd meeting of BoS
		Draft to be made available on website.
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.  Action taken: Approval from Chairman of Academic council available.
2.6	Item 52.08 of the 52 <sup>nd</sup> Academic Council meeting held on 16/01/2020: "Starting of one semester training for B. Tech programs in 7 <sup>th</sup> /8 <sup>th</sup> semester (Not available in model curriculum of AICTE)	Item 52.08 of the 52nd Academic Council meeting held on 16/01/2020: "Starting of one semester training for B. Tech programs in 7th/8th 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 7th or 8th Semester (Subject to approval from Competent Authority).  Action taken:  Approval from Chairman of Academic council available Draft available on website.

Item	Agenda	Discussions and Decision Action Taken
No.		7.5
2.7	Changes in draft of syllabus of 3 <sup>rd</sup> and 4 <sup>th</sup> 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 3rd year B.Tech. in Electrical Engineering programme.  (b) The syllabus of 5th Semester B.Tech. in Electrical Engineering programme.  (c) The draft of teaching scheme of 4th year B.Tech. in Electrical Engineering programme.  Action taken:  Approval from Chairman of Academic council available  Draft available on website.
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.	<ul> <li>(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.</li> <li>Action Taken: Information available on website. (b) The BoS proposed to adopted the syllabus of respective courses given in the "AICTE model curriculum for UG Courses Volume-II , January 2018". It was observed that Course Outcomes need to be included. The concerned BoS to provide the syllabus and COs. Pending</li> </ul>
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 06/032020.	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.  Action taken:  Approval from Chairman of Academic council available.  Conveyed to upload information on website.  Discussion and Decision in 3 <sup>rd</sup> meeting of BoS  All were informed that no student was permitted for Minor degree in Electrical Engineering in Academic session 2019-20 and 2020-21.  BoS(EE) decided that Minor Degree to be as per AICTE nomenclature

-	Action Taken
	Action Taken
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	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
courses Reference no. IKGPTU/DA/2355, dated 06/032020.	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.  Action taken:  Approval from Chairman of Academic council available.  Discussion and Decision in 3 <sup>rd</sup> meeting of BoS  The BoS(EE) post-facto approved the list of SWAYAM/MOOCS for Honors Degree in Electrical Engineering for the session January-May 2020.  All were informed that no student opted for Honors degree in Electrical Engineering in Academic session 2020-21.
Students pursuing Major Degree in Electrical Engineering (Batch 2018 onwards) can only do Minor degree in Electrical and Computer Engineering (Reference AICTE Approval Process Handbook 2021, Chapter 7, Point 7.3.2, circulated vide Reference no IKG-PTU/DAA/2347, dated 28/02/20202)	(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 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.  Action taken:  Approval from Chairman of Academic council available.  Discussion and Decision in 3 <sup>rd</sup> meeting of BoS  Request to be sent to BoS(CSE)
	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 06/032020.  Students pursuing Major Degree in Electrical Engineering (Batch 2018 onwards) can only do Minor degree in Electrical and Computer Engineering (Reference AICTE Approval Process Handbook 2021, Chapter 7, Point 7.3.2, circulated vide Reference no IKG-PTU/DAA/2347,

	Agenda	Discussions and Decision
Item No.		Action Taken
NO.		
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
		3rd semester and for Honors Degree in 5th Semester.  (b) Students having no backlog of 1st semester and 2nd
		semester can opt for Minor Degree in Electrical and Computer
		Engineering in the 3rd semester. Students having no backlog of
		3rd semester and 4th semester can opt for Honors Degree in B.
		Tech. Electrical Engineering in the 5th 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.
		<ul> <li>The number of credits for SWAYAM/MOOCS courses for Minor degree in relevant programme to be as per the credits</li> </ul>
		mentioned on the certificate of the respective SWAYAM/
		MOOCS course.
		<ul> <li>The following steps are proposed for credits earned through SWAYAM/MOOCS courses:</li> </ul>
		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.
		v) On obtaining the minimum credits the student will be eligible
		for (a) Minor Degree (b) Honors Degree in relevant
		programme.
		<ul> <li>In case of non-availability of SWAYAM/MOOCS courses the student can earn the minimum credits for (a) Minor Degree</li> </ul>
		from Professional Core / Elective Courses as per the list
		provided by BoS for this purpose. (b) Honors degree from
		Professional Elective Courses other than those taken up for
		the concerned B.Tech Programme. (c)The list of (i) Professional Core Courses (ii) Professional
		Elective Courses, clearly indicating odd and even semester is
		available in the Teaching Scheme.
		Action taken:
		Approval from Chairman of Academic council available.

	Agenda	Discussions and Decision
Item		Action Taken
No.		
2.13	Recommendation for e-books	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.  a) Dr Gagandeep Kaur, Chairperson, b) Dr Kanwardeep Singh, Member (external) c) Dr Akhil Gupta, Member (internal) d) Dr Deepika Bhalla (Coordinator)  Action taken: Approval from Chairman of Academic council available.
	Notification "Regarding New	Not to be considered for the Main/Constituent campuses.
2.14	Programme", Ref. No. IKGPTU/REG/NF/36, dated 04/03/2020 for B. Voc. Solar System	Action taken:
	Technology of 03 Years duration	Approval from Chairman of Academic council available.
2.15	On account of the lockdown since March 2020 due to COVID-19 pandemic, discussion on:  (A) The change of pattern of Question paper and evaluation  (B) Propose the Names of Paper Setters for each subject.	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 <b>Semester Ending Examination May 2020</b> 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:
	(Ref. No. e-file I-15/534/2020-COE, received through email on 11 <sup>th</sup> , May 2020).	<ul> <li>(a) 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.</li> <li>(b) On clicking the SAVE AND NEXT button, the next question will appear. Provision of invigilation of online examination to be made.</li> <li>(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.</li> <li>(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.</li> <li>(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.</li> <li>(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</li> </ul>

Item No.	Agenda	Discussions and Decision Action Taken
		Cisco Webex or any other online/virtual platform. The record of the evaluation to be maintained.
		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.
		(B) The BoS (EE) approved the list of the paper setters for online/conventional semester ending Examination for May 2020 to be:  a) Names of 03-04 Question Paper Setters for each subject is proposed to the Examination Department 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). c) Each Question Paper to have two sets. d) The maximum number of Question papers/sets to be assigned to one paper setter to be 03. 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.  **Action taken:**
		Approval from Chairman of Academic council available.

Item No.	Agenda	Discussions and Decision Action Taken
2.16	To allow credit transfer to students to the extent of 20% in every semester for online courses provided through SWAYAM platform.	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.  (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.  (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.  (c) The steps are already proposed for credits earned through SWAYAM/MOOCS courses in Item no 2.12.  (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."  **Action taken:** Approval from Chairman of Academic council available.**

#### C. Discussion and decision on agenda Items

Item	Agenda	Discussion and Decision
No.		
3.1		

Mon, Jan 18, 2021 at 4:28 PM

#### Chakradhar Reddy. Chandupatla <reddy@iitrpr.ac.in>

To: Dilbag Singh <drdilbag@gmail.com>

Cc: Deepika Bhalla <deepika.bhalla89@gmail.com>, "Dr. Yadwinder Singh" <ysbrar@ptu.ac.in>, Jagdish Kumar <jagdishkumar@pec.ac.in>, YOG RAJ <yrsood@nith.ac.in>, jsdhillion@sliet.ac.in, "J.S. Dhillon" <jsdhillonp@yahoo.com>, Gagandeep Kaur <gaganee@ptu.ac.in>, kds@gndec.ac.in, KD Singh <kds97dee@gmail.com>, dr.rakeshbhanga@ptu.ac.in, Navneet Singh <navneetbhangu@gmail.com>, nsbhangu@gndec.ac.in, Akhil Gupta <akhilgupta1977@gmail.com>, "ashwani.k.sharma ." <ashwani.k.sharma@nitkkr.ac.in>, Naveen Sharma <naveen31.sharma@gmail.com>

Approved!

# C C Reddy

General Chair, 15th IEEE ICIIS 2020 Associate Editor (IEEE Trans. DEIS), SM of IEEE, Associate Dean (Student Affairs), Associate Professor (EE)

High Voltage Laboratory, Department of Electrical Engineering, Room No: 111, J C Bose Building,



Indian Institute of Technology Ropar, RUPNAGAR (Near CHANDIGARH), Punjab, INDIA - 140001

Mob: +91-9417034192

Website: http://www.iitrpr.ac.in/electrical/reddy

On Mon, 18 Jan 2021 at 16:12, Dilbag Singh <a href="mailto:com">drdilbag@gmail.com</a> wrote: Approved.

On Mon, 18 Jan 2021, 3:29 pm Deepika Bhalla, <deepika.bhalla89@gmail.com> wrote:

Respected All,

Please find appended the Minutes of the meeting held earlier today. The relevent documents are attached with.

Your approval is requested for.

Thanks and Regards

Dr Deepika Bhalla Coordinator, BoS(EE) Main and Constituent Colleges + 9465884854

## Minutes of Meeting held on January 18, 2020

The 3<sup>rd</sup> meeting of BoS Electrical Engineering (Main Campus and Constituent Campuses) was held online (<u>Google Meet Link:</u> https://meet.google.com/jvk-yndm-iro) under the Chairmanship of Prof. (Dr) Y S Brar, on January 18, 2021, (Monday) at 11:00 am.

- 1. Dr Y S Brar, Chairman
- 2. Dr Jagdish Kumar
- Dr Yog Raj Sood
- 4. Dr J S Dhillon
- 5. Dr Gagandeep Kaur
- 6. Dr Chakardhar Reddy
- 7. Dr Kanwardeep Singh
- 8. Dr Navneet Singh Bhangu
- 9. Dr Akhil Gupta
- 10. Dr Ashwani Kumar

- 11. Dr Dilbagh Singh
- 12. Dr Naveen Kumar Sharma (special Invitee)
- 13. Dr Deepika Bhalla, Convener
- A. On 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, the member of BoS were conveyed that Minutes are approved by Chairman of Academic Council, since the necessary action has been taken on them; they be closed.

B. Review of the Minutes of Meeting of the 2nd meeting (on-line) of Board of Studies (Electrical Engineering), Main and Constituent Campuses (2019-21) held on 21/05/2020.

onstituent	nt Campuses (2019-21) held on 21/05/2020.				
Item No.	Agenda	Discussions and Decision Action Taken			
2.1	To adopt the changes communicated for the uniformity of marks distribution of Mandatory Non-Credit Courses of B. Tech programmes on 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.	The marks distribution of Mandatory Non-Credit Courses of B. Tech Electrical Engineering is adopted.  Action Taken: Information available on website.			
2.2	To adopt the Syllabus of Mandatory Non-Credit Course EVS-101- 18Environmental 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. <i>Action Taken: Information available on website.</i>			
2.3	Item 52.04.12 of the 52 <sup>nd</sup> Academic Council meeting held on 16/01/2020. "Distribution of marks for evaluation of M. Tech. Dissertation"	Item 52.04.12 of the 52nd Academic Council meeting held on 16/01/2020. "Distribution of marks for evaluation of M. Tech. Dissertation", is adopted.  Action Taken: Information available on website.			
2.4	Bridge courses/additional subjects for change of branch/upgradation in 3 <sup>rd</sup> Semester to B. Tech. Electrical Engineering program.	The BoS recommended and approved Bridge courses/additional subjects for change of branch/upgradation in 3 <sup>rd</sup> Semester to B. Tech. Electrical Engineering program  Student who opts for B. Tech. Electrical Engineering programme in 3 <sup>rd</sup> Semester will need to study the following Bridge /Additional courses:  Student opting for B. Tech EE from B. Tech.  Computer (Bridge BTPH102-18 Not Science Course-I) (Theory) applicable  Engineering BTAMBC1- BTPH112-18 (Laboratory)  Engineering Civil			

	Agenda		Dis	cussions a	nd Decision	
Item				Action 7		
No.						
			Engineering			
			Mechanical			
			Engineering			
			Electronics and			BTEE-101-
			Communication			18 (Theory)
			Engineering			BTEE-102-
						(1.a.h.a.estam)
			i)	The Drie	dae /Addition	(Laboratory) al course is
			,		•	tra credit is
				•	qualifying the	
					. , ,	l be evaluated
			•	-		ne said course
			thought	internal	evalua	
			department	/college/cons	stituent campu	ıs level.
			iii) The tea	acher allocat	ed the bridge	course should
			•	•	er week for tea	•
			,			f branch must
				course with	nin one year	of change of
			branch.		/ II / C	
			,	•	•	tuent campus
				a certificate 'Additional co		nt has passed
			•			udit/qualifying
			, , , , , , , , , , , , , , , , , , , ,			fication/s and
						be cancelled
						IKGPTU shall
					•	DMCs as per
			upgraded c	urriculum wit	h same numb	er of credits.
			The BoS recom		•	
			Bridge courses		-	-
			branch/upgradati		mester to B. T	ech. Electrical
		Ĺ	Engineering prog	gram.		
			tion taken:			
		-	proval from Cha		_	
			scussion and De			<u>BoS</u>
		Dr	aft to be made a	vailable on v	vebsite.	

	Anondo	Discussions and Desirion
Item No.	Agenda	Discussions and Decision Action Taken
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	The BOS did not find the item to be in its scope as the communication is not addressed for B.Tech. in Electrical Engineering.  Action taken: Approval from Chairman of Academic council available.
2.6	be elaborated with viability.  Item 52.08 of the 52 <sup>nd</sup> Academic Council meeting held on 16/01/2020: "Starting of one semester training for B. Tech programs in 7 <sup>th</sup> /8 <sup>th</sup> semester (Not available in model curriculum of AICTE)	Item 52.08 of the 52nd Academic Council meeting held on 16/01/2020: "Starting of one semester training for B. Tech programs in 7th/8th 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 7th or 8th Semester (Subject to approval from Competent Authority).  Action taken:  Approval from Chairman of Academic council available Draft available on website.
2.7	Changes in draft of syllabus of 3 <sup>rd</sup> and 4 <sup>th</sup> 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 3rd year B.Tech. in Electrical Engineering programme.  (b) The syllabus of 5th Semester B.Tech. in Electrical Engineering programme.  (c) The draft of teaching scheme of 4th year B.Tech. in Electrical Engineering programme.  Action taken:  Approval from Chairman of Academic council available
		Draft available on website.

	Agenda	Discussions and Decision
Item No.		Action Taken
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.	<ul> <li>(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.</li> <li>Action Taken: Information available on website. (b) The BoS proposed to adopted the syllabus of respective courses given in the "AICTE model curriculum for UG Courses Volume-II , January 2018". It was observed that Course Outcomes need to be included. The concerned BoS to provide the syllabus and COs. Pending</li> </ul>
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 06/032020.	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.  Action taken:  Approval from Chairman of Academic council available.  Conveyed to upload information on website.  Discussion and Decision in 3 <sup>rd</sup> meeting of BoS  All were informed that no student was permitted for Minor degree in Electrical Engineering in Academic session 2019-20 and 2020-21.  BoS(EE) decided that Minor Degree to be as per AICTE nomenclature

	Agenda	Discussions and Decision
Item No.		Action Taken
NO.		
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.	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
	B. Action on letter regarding MOOCs courses Reference no. IKGPTU/DA/2355, dated 06/032020.	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. <i>Action taken:</i>
		Approval from Chairman of Academic council available.
		Discussion and Decision in 3 <sup>rd</sup> meeting of BoS
		The BoS(EE) post-facto approved the list of SWAYAM/ MOOCS for Honors Degree in Electrical Engineering for
		the session January-May 2020.
		All were informed that no student opted for Honors degree
		in Electrical Engineering in Academic session 2020-21.
2.11	Students pursuing Major Degree in Electrical Engineering (Batch 2018 onwards) can only do Minor degree in Electrical and Computer Engineering (Reference AlCTE Approval Process Handbook 2021, Chapter 7, Point 7.3.2, circulated vide Reference no IKG-PTU/DAA/2347, dated 28/02/20202)	<ul> <li>(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 Minor Degree in Electrical and Computer Engineering.</li> <li>(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.</li> <li>Action taken:</li> </ul>
		Approval from Chairman of Academic council available.
		<u>Discussion and Decision in 3<sup>rd</sup> meeting of BoS</u>
		Request to be sent to BoS(CSE)

	Agenda	Discussions and Decision
Item No.		Action Taken
NO.		
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 3rd semester and for Honors Degree in 5th Semester.  (b) Students having no backlog of 1st semester and 2nd semester can opt for Minor Degree in Electrical and Computer Engineering in the 3rd semester. Students having no backlog of 3rd semester and 4th semester can opt for Honors Degree in B. Tech. Electrical Engineering in the 5th 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
		<ul> <li>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.</li> <li>The following steps are proposed for credits earned through SWAYAM/MOOCS courses: <ol> <li>For each semester the student to take up online SWAYAM/MOOCS courses approved by the BoS.</li> <li>Student to take permission (written) from Department/Constituent Campus for registration.</li> <li>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.</li> <li>On obtaining the minimum credits the student will be eligible for (a) Minor Degree (b) Honors Degree in relevant programme.</li> <li>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 as per the list provided by BoS for this purpose. (b) Honors degree from Professional Elective Courses other than those taken up for the concerned B.Tech Programme.</li> <li>(c)The list of (i) Professional Core Courses (ii) Professional Elective Courses, clearly indicating odd and even semester is available in the Teaching Scheme.</li> </ol> </li> <li>Action taken:</li> </ul>
		Approval from Chairman of Academic council available.

	Agenda	Discussions and Decision
Item No.		Action Taken
2.13	Recommendation for e-books	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.  a) Dr Gagandeep Kaur, Chairperson, b) Dr Kanwardeep Singh, Member (external) c) Dr Akhil Gupta, Member (internal) d) Dr Deepika Bhalla (Coordinator)  Action taken: Approval from Chairman of Academic council available.
2.14	Notification "Regarding New Programme", Ref. No. IKGPTU/REG/NF/36, dated 04/03/2020 for B. Voc. Solar System	Not to be considered for the Main/Constituent campuses.  Action taken:
2.15	Technology of 03 Years duration  On account of the lockdown since March 2020 due to COVID-19 pandemic, discussion on:  (A) The change of pattern of Question paper and evaluation  (B) Propose the Names of Paper Setters for each subject.  (Ref. No. e-file I-15/534/2020-COE, received through email on 11 <sup>th</sup> , May 2020).	Approval from Chairman of Academic council available.  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:  (a) 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.  (b) On clicking the SAVE AND NEXT button, the next question will appear. Provision of invigilation of online examination to be made.  (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.  (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.  (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.  (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

Item No.	Agenda	Discussions and Decision Action Taken
		Cisco Webex or any other online/virtual platform. The record of the evaluation to be maintained.
		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.
		(B) The BoS (EE) approved the list of the paper setters for online/conventional semester ending Examination for May 2020 to be:  a) Names of 03-04 Question Paper Setters for each subject is proposed to the Examination Department 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). c) Each Question Paper to have two sets. d) The maximum number of Question papers/sets to be assigned to one paper setter to be 03. 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.  **Action taken:**
		Approval from Chairman of Academic council available.

Item	Agenda	Discussions and Decision
No.		Action Taken
2.16	To allow credit transfer to students to the extent of 20% in every semester for online courses provided through SWAYAM platform.	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.  (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.  (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.  (c) The steps are already proposed for credits earned through SWAYAM/MOOCS courses in Item no 2.12.  (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."  **Action taken:* Approval from Chairman of Academic council available.**

Item No.	Agenda	Discussion and Decision
3.1		

#### YOG RAJ yrsood@nith.ac.in>

To: Deepika Bhalla <deepika.bhalla89@gmail.com>

Approved

On Mon, Jan 18, 2021 at 3:29 PM Deepika Bhalla <a href="mailto:seepika.bhalla89@gmail.com">deepika.bhalla89@gmail.com</a> wrote:

Respected All,

Please find appended the Minutes of the meeting held earlier today. The relevent documents are attached with.

Your approval is requested for.

Thanks and Regards

Dr Deepika Bhalla Coordinator, BoS(EE) Main and Constituent Colleges + 9465884854

## Minutes of Meeting held on January 18, 2020

The 3<sup>rd</sup> meeting of BoS Electrical Engineering (Main Campus and Constituent Campuses) was held online (<u>Google Meet Link:</u> https://meet.google.com/jvk-yndm-iro) under the Chairmanship of Prof. (Dr) Y S Brar, on January 18, 2021, (Monday) at 11:00 am.

Mon, Jan 18, 2021 at 4:54 PM

The meeting started with the welcome address to all the members of the BoS by the Prof. (Dr) Y S Brar, Chairman BoS(EE). The following Members were present:

- 1. Dr Y S Brar, Chairman
- 2. Dr Jagdish Kumar
- Dr Yog Raj Sood
- 4. Dr J S Dhillon
- 5. Dr Gagandeep Kaur
- 6. Dr Chakardhar Reddy
- 7. Dr Kanwardeep Singh
- 8. Dr Navneet Singh Bhangu
- 9. Dr Akhil Gupta
- 10. Dr Ashwani Kumar
- 11. Dr Dilbagh Singh
- 12. Dr Naveen Kumar Sharma (special Invitee)
- 13. Dr Deepika Bhalla, Convener
- A. On 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, the member of BoS were conveyed that Minutes are approved by Chairman of Academic Council, since the necessary action has been taken on them; they be closed.
- B. Review of the Minutes of Meeting of the 2nd meeting (on-line) of Board of Studies (Electrical Engineering), Main and Constituent Campuses (2019-21) held on 21/05/2020.

Item No.	Agenda	Discussions and Decision Action Taken
2.1	To adopt the changes communicated for the uniformity of marks distribution of Mandatory Non-Credit Courses of B. Tech programmes on 2018 teaching scheme. (IKG-PTU/DA/2243	The marks distribution of Mandatory Non-Credit Courses of B. Tech Electrical Engineering is adopted.
	and IKG-PTU/DA/IO-1320, dated 09/12/2019 followed by IKG-	Action Taken: Information available on website.
2.2	PTU/DA/2316, dated 31/01/2020.  To adopt the Syllabus of Mandatory Non-Credit Course EVS-101-18Environmental 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. <i>Action Taken: Information available on website.</i>

Item No.	Agenda	Discussions and Decision Action Taken
2.3	Item 52.04.12 of the 52 <sup>nd</sup> Academic Council meeting held on 16/01/2020. "Distribution of marks for evaluation of M. Tech. Dissertation"	Item 52.04.12 of the 52nd Academic Council meeting held on 16/01/2020. "Distribution of marks for evaluation of M. Tech. Dissertation", is adopted.  Action Taken: Information available on website.
2.4	Bridge courses/additional subjects for change of branch/upgradation in 3 <sup>rd</sup> Semester to B. Tech. Electrical Engineering program.	The BoS recommended and approved Bridge

	Agenda	Discussions and Decision
Item No.		Action Taken
NO.		
		issue new result notification and DMCs as per
		upgraded curriculum with same number of credits.
		The BoS recommended the procedure and approved
		Bridge courses/additional subjects for change of
		branch/upgradation in 3rd Semester to B. Tech. Electrical
		Engineering program.
		Action taken:
		Approval from Chairman of Academic council available.
		<u>Discussion and Decision in 3<sup>rd</sup> meeting of BoS</u> Draft to be made available on website.
	To invite representative of TCS-ion to	The BOS did not find the item to be in its scope as the
2.5	present detailed presentation of the	communication is not addressed for B.Tech. in Electrical
	subjects proposed for B.Tech. in	Engineering.
	Electrical Engineering. The	Enginosinig.
	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	Action taken:
	being undertaken by TCS-ion in	Approval from Chairman of Academic council available.
	any college or University, should be elaborated with viability.	
	Item 52.08 of the 52 <sup>nd</sup> Academic	Item 52.08 of the 52nd Academic Council meeting held on
2.6	Council meeting held on 16/01/2020:	16/01/2020: "Starting of one semester training for B. Tech
	"Starting of one semester training for	programs in 7th/8th semester (Not available in model
	B. Tech programs in 7 <sup>th</sup> /8 <sup>th</sup> semester	curriculum of AICTE) was adopted by the BoS.
	(Not available in model curriculum of	However, the BoS (EE) leaves the option for the
	AICTE)	Department/Campus/Student to either opt for One Semester
		Training or do Industry oriented courses in lieu of One
		Semester Training in 7th or 8th Semester (Subject to approval from Competent Authority).
		Action taken:
		Approval from Chairman of Academic council available
		Draft available on website.
	Changes in draft of syllabus of 3 <sup>rd</sup>	On account of item 2.6, the BoS discussed, revised and
2.7	and 4 <sup>th</sup> year on account of above	approved:
	Item 2.5 & 2.6	(a) The teaching scheme of 3rd year B.Tech. in Electrical
		Engineering programme.
		(b) The syllabus of 5th Semester B.Tech. in Electrical
		Engineering programme.
		(c) The draft of teaching scheme of 4th year B.Tech. in
		Electrical Engineering programme.  Action taken:
		Approval from Chairman of Academic council available
		Draft available on website.

Item No.	Agenda	Discussions and Decision Action Taken
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.	<ul> <li>(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.</li> <li>Action Taken: Information available on website. (b) The BoS proposed to adopted the syllabus of respective courses given in the "AICTE model curriculum for UG Courses Volume-II , January 2018". It was observed that Course Outcomes need to be included. The concerned BoS to provide the syllabus and COs. Pending</li> </ul>
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 06/032020.	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.  Action taken:  Approval from Chairman of Academic council available.  Conveyed to upload information on website.  Discussion and Decision in 3 <sup>rd</sup> meeting of BoS  All were informed that no student was permitted for Minor degree in Electrical Engineering in Academic session 2019-20 and 2020-21.  BoS(EE) decided that Minor Degree to be as per AICTE nomenclature

-	Action Taken
	Action Taken
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	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
courses Reference no. IKGPTU/DA/2355, dated 06/032020.	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.  Action taken:  Approval from Chairman of Academic council available.  Discussion and Decision in 3 <sup>rd</sup> meeting of BoS  The BoS(EE) post-facto approved the list of SWAYAM/MOOCS for Honors Degree in Electrical Engineering for the session January-May 2020.  All were informed that no student opted for Honors degree in Electrical Engineering in Academic session 2020-21.
Students pursuing Major Degree in Electrical Engineering (Batch 2018 onwards) can only do Minor degree in Electrical and Computer Engineering (Reference AICTE Approval Process Handbook 2021, Chapter 7, Point 7.3.2, circulated vide Reference no IKG-PTU/DAA/2347, dated 28/02/20202)	(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 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.  Action taken:  Approval from Chairman of Academic council available.  Discussion and Decision in 3 <sup>rd</sup> meeting of BoS  Request to be sent to BoS(CSE)
	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 06/032020.  Students pursuing Major Degree in Electrical Engineering (Batch 2018 onwards) can only do Minor degree in Electrical and Computer Engineering (Reference AICTE Approval Process Handbook 2021, Chapter 7, Point 7.3.2, circulated vide Reference no IKG-PTU/DAA/2347,

lto	Agenda	Discussions and Decision
		Action Taken
Item No.  2.12	Agenda  Procedure for (a) Minor Degree (b) Honors Degree	The BoS recommended for approval:  (a) Student to opt for Minor degree in relevant programme in 3rd semester and for Honors Degree in 5th Semester.  (b) Students having no backlog of 1st semester and 2nd semester can opt for Minor Degree in Electrical and Computer Engineering in the 3rd semester. Students having no backlog of 3rd semester and 4th semester can opt for Honors Degree in B. Tech. Electrical Engineering in the 5th 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.  v) On obtaining the minimum credits the student will be eligible
		for (a) Minor Degree (b) Honors Degree in relevant programme.  • 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 as per the list provided by BoS for this purpose. (b) Honors degree from Professional Elective Courses other than those taken up for the concerned B.Tech Programme.
		(c)The list of (i) Professional Core Courses (ii) Professional Elective Courses, clearly indicating odd and even semester is available in the Teaching Scheme.  Action taken:
		Approval from Chairman of Academic council available.

	Agenda	Discussions and Decision
Item		Action Taken
No.		
2.13	Recommendation for e-books	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.  a) Dr Gagandeep Kaur, Chairperson, b) Dr Kanwardeep Singh, Member (external) c) Dr Akhil Gupta, Member (internal) d) Dr Deepika Bhalla (Coordinator)  Action taken: Approval from Chairman of Academic council available.
	Notification "Regarding New	Not to be considered for the Main/Constituent campuses.
2.14	Programme", Ref. No. IKGPTU/REG/NF/36, dated 04/03/2020 for B. Voc. Solar System	Action taken:
	Technology of 03 Years duration	Approval from Chairman of Academic council available.
2.15	On account of the lockdown since March 2020 due to COVID-19 pandemic, discussion on:  (A) The change of pattern of Question paper and evaluation  (B) Propose the Names of Paper Setters for each subject.	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 <b>Semester Ending Examination May 2020</b> 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:
	(Ref. No. e-file I-15/534/2020-COE, received through email on 11 <sup>th</sup> , May 2020).	<ul> <li>(a) 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.</li> <li>(b) On clicking the SAVE AND NEXT button, the next question will appear. Provision of invigilation of online examination to be made.</li> <li>(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.</li> <li>(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.</li> <li>(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.</li> <li>(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</li> </ul>

Item No.	Agenda	Discussions and Decision Action Taken
		Cisco Webex or any other online/virtual platform. The record of the evaluation to be maintained.
		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.
		(B) The BoS (EE) approved the list of the paper setters for online/conventional semester ending Examination for May 2020 to be:  a) Names of 03-04 Question Paper Setters for each subject is proposed to the Examination Department 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). c) Each Question Paper to have two sets. d) The maximum number of Question papers/sets to be assigned to one paper setter to be 03. 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.  **Action taken:**
		Approval from Chairman of Academic council available.

Item No.	Agenda	Discussions and Decision Action Taken
2.16	To allow credit transfer to students to the extent of 20% in every semester for online courses provided through SWAYAM platform.	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.  (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.  (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.  (c) The steps are already proposed for credits earned through SWAYAM/MOOCS courses in Item no 2.12.  (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."  **Action taken:** Approval from Chairman of Academic council available.**

Item	Agenda	Discussion and Decision
No.		
3.1	The syllabus of 6th Semester B.Tech. Programme in Electrical Engineering	The BoS discussed, revised and approved the syllabus of 6th Semester B.Tech. Programme in Electrical Engineering.
3.2	The syllabus of Open Electives (odd/even) of B.Tech. Programme in Electrical Engineering	The BoS discussed, revised and approved the syllabus Open Electives (odd/even) of B.Tech. Programme in Electrical Engineering.
3.3	To finalize the on-line SWAYAM/MOOCS courses for Honors Degree in Electrical Engineering and Minor Degree offered by Department of Electrical Engineering for the session (b) August-December 2020 (b) January-May 2021.	(b) The BoS post-facto approved the on-line SWAYAM/MOOCS courses for Honors Degree in Electrical Engineering and Minor Degree offered by Department of Electrical Engineering for the session August-December 2020 (b) The BoS discussed and finalized the courses for Honors Degree in Electrical Engineering and Minor Degree offered by Department of Electrical Engineering for the session January-May 2021.

Item	Agenda	Discussion and Decision
No. 3.4	Proposal of starting B. Tech. Minor Degree of in Electrical Vehicles for students pursuing Major Degree in Mechanical Engineering / Electrical Engineering as per IKGPTU/Reg/NF/2056, dated 17/05/2019, "Guidelines for Major and Minor Degree in B. Technology". IKGPTU/DAA/2347, dated 28/02/2020, "Regarding AICTE approval process handbook 20-21, Chapter VII point 7.3.2.	The BoS agreed to start a B. Tech. Minor Degree in Electrical Vehicles for students pursuing Major Degree in Mechanical Engineering / Electrical Engineering.  The students of B.Tech. ME/B.Tech. ME (LEET) are eligible to undertake the B. Tech. Minor Degree of in Electrical Vehicles programme in 3rd semester. The programme will be offered by Department of Electrical Engineering.  The draft of the Teaching Scheme was discussed and approved and the same to be shared with BoS(ME) Main and Constituent campuses.  Request to be sent to BoS (ME) for Teaching scheme and syllabus for students pursuing Major Degree in Electrical Engineering B. Tech. who desire to opt for Minor Degree of in Electrical Vehicles programme in 3rd semester.
3.5	To make available on website the procedure for (a) Minor Degree (b) Honors Degree draft.	The BoS recommended the posting of the procedure for (a) Minor Degree (b) Honors Degree draft on website.
3.6	To approve the list of e-books for Under Graduate programme of Electrical	Deferred.

The Members of BoS (EE) authorize Chairman BoS, HoD (EE) Main Campus, Coordinator and one member of BoS to sign relevant document.

There being no further points the meeting ended with a thanks to the Chair.

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With warm regards,
Prof. (Dr.) Yog Raj Sood
Professor (HAG) & Former HOD
Department of Electrical Engineering
Former Dean (FW), Dean (P & D), Dean(R & D)
National Institute of Technology,
Hamirpur (Himachal Pardesh)
PIN- 177005, INDIA
Former Director NIT Puducherry (India)

#### Dr Akhil Gupta <akhilgupta1977@gmail.com>

Mon, Jan 18, 2021 at 5:18 PM

To: Deepika Bhalla <deepika.bhalla89@gmail.com>

Cc: "Dr. Yadwinder Singh" <ysbrar@ptu.ac.in>, jagdishkumar@pec.ac.in, YOG RAJ <yrsood@nith.ac.in>, jsdhillion@sliet.ac.in, "J.S. Dhillon" <jsdhillion@yahoo.com>, Gagandeep Kaur <gaganee@ptu.ac.in>, Chakradhar Reddy Chandupatla <reddy@iitrpr.ac.in>, kds@gndec.ac.in, KD Singh <kds97dee@gmail.com>, dr.rakeshbhanga@ptu.ac.in, Navneet Singh <navneetbhangu@gmail.com>, nsbhangu@gndec.ac.in, "ashwani.k.sharma ."

<ashwani.k.sharma@nitkkr.ac.in>, Dilbag Singh <drdilbag@gmail.com>, Naveen Sharma <naveen31.sharma@gmail.com>

#### Approved

On Mon, Jan 18, 2021 at 3:29 PM Deepika Bhalla <a href="mailto:deepika.bhalla89@gmail.com">deepika.bhalla89@gmail.com</a> wrote: Respected All,

Please find appended the Minutes of the meeting held earlier today. The relevent documents are attached with.

Your approval is requested for. Thanks and Regards

Dr Deepika Bhalla Coordinator, BoS(EE) Main and Constituent Colleges + 9465884854

## Minutes of Meeting held on January 18, 2020

The 3<sup>rd</sup> meeting of BoS Electrical Engineering (Main Campus and Constituent Campuses) was held online (<u>Google Meet Link:</u> https://meet.google.com/jvk-yndm-iro) under the Chairmanship of Prof. (Dr) Y S Brar, on January 18, 2021, (Monday) at 11:00 am.

The meeting started with the welcome address to all the members of the BoS by the Prof. (Dr) Y S Brar, Chairman BoS(EE). The following Members were present:

- 1. Dr Y S Brar, Chairman
- 2. Dr Jagdish Kumar
- Dr Yog Raj Sood
- 4. Dr J S Dhillon
- 5. Dr Gagandeep Kaur
- 6. Dr Chakardhar Reddy
- 7. Dr Kanwardeep Singh
- 8. Dr Navneet Singh Bhangu
- 9. Dr Akhil Gupta
- 10. Dr Ashwani Kumar
- 11. Dr Dilbagh Singh
- 12. Dr Naveen Kumar Sharma (special Invitee)
- 13. Dr Deepika Bhalla, Convener
- A. On 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, the member of BoS were conveyed that Minutes are approved by Chairman of Academic Council, since the necessary action has been taken on them; they be closed.
- B. Review of the Minutes of Meeting of the 2nd meeting (on-line) of Board of Studies (Electrical Engineering), Main and Constituent Campuses (2019-21) held on 21/05/2020.

	Agenda	Discussions and Decision
Item		Action Taken
No.		

Item	Agenda	Discussions and Decision Action Taken
No.		7.51.51.
2.1	To adopt the changes communicated for the uniformity of marks distribution of Mandatory Non-Credit Courses of B. Tech programmes on 2018	The marks distribution of Mandatory Non-Credit Courses of B. Tech Electrical Engineering is adopted.
	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.	Action Taken: Information available on website.
2.2	To adopt the Syllabus of Mandatory Non-Credit Course EVS-101-18Environmental Studies (IKG-PTU/DA/1475, dated 08/02/2019 followed by IKG-PTU/DA/2316, dated	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. Action Taken:  Information available on website.
2.3	31/01/2020)  Item 52.04.12 of the 52 <sup>nd</sup> Academic Council meeting held on 16/01/2020.  "Distribution of marks for evaluation of M. Tech. Dissertation"	Item 52.04.12 of the 52nd Academic Council meeting held on 16/01/2020. "Distribution of marks for evaluation of M. Tech. Dissertation", is adopted.  Action Taken: Information available on website.
2.4	Bridge courses/additional subjects for change of branch/upgradation in 3 <sup>rd</sup> Semester to B. Tech. Electrical Engineering program.	The BoS recommended and approved Bridge courses/additional subjects for change of branch/upgradation in 3 <sup>rd</sup> Semester to B. Tech. Electrical Engineering program  Student who opts for B. Tech. Electrical Engineering programme in 3 <sup>rd</sup> Semester will need to study the following Bridge /Additional courses:  Student opting for B. Tech EE from B. Tech.
		Computer Science Engineering Civil (Bridge BTPH102-18 Engineering Course-I) (Theory) Mechanical BTAMBC1- Engineering 18 (Laboratory)  Electronics and Communication Engineering  i) The Bridge /Additional course is audit/qualifying course and no extra credit is awarded to the student qualifying the course ii) The Bridge /Additional course will be evaluated by the concerned teacher allocated the said course

Item	Agenda	Discussions and Decision Action Taken
No.		ACTION TAKEN
		thought internal evaluation at department/college/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/college/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.  The BoS recommended the procedure and approved Bridge courses/additional subjects for change of branch/upgradation in 3rd Semester to B. Tech. Electrical Engineering program.  Action taken:  Approval from Chairman of Academic council available.
		<u>Discussion and Decision in 3<sup>rd</sup> meeting of BoS</u>
2.5	To invite representative of TCS-ion to present detailed presentation of the subjects proposed for B.Tech. in Electrical Engineering. The	Draft to be made available on website.  The BOS did not find the item to be in its scope as the communication is not addressed for B.Tech. in Electrical Engineering.
	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.	Action taken: Approval from Chairman of Academic council available.
2.6	Item 52.08 of the 52 <sup>nd</sup> Academic Council meeting held on 16/01/2020: "Starting of one semester training for B. Tech programs in 7 <sup>th</sup> /8 <sup>th</sup> semester (Not available in model curriculum of AICTE)	Item 52.08 of the 52nd Academic Council meeting held on 16/01/2020: "Starting of one semester training for B. Tech programs in 7th/8th 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 7th or 8th Semester (Subject to approval from Competent Authority).  Action taken:  Approval from Chairman of Academic council available Draft available on website.

Item No.	Agenda	Discussions and Decision Action Taken
2.7	Changes in draft of syllabus of 3 <sup>rd</sup> and 4 <sup>th</sup> 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 3rd year B.Tech. in Electrical Engineering programme.  (b) The syllabus of 5th Semester B.Tech. in Electrical Engineering programme.  (c) The draft of teaching scheme of 4th year B.Tech. in Electrical Engineering programme.  Action taken:  Approval from Chairman of Academic council available  Draft available on website.
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.	<ul> <li>(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.</li> <li>Action Taken: Information available on website. (b) The BoS proposed to adopted the syllabus of respective courses given in the "AICTE model curriculum for UG Courses Volume-II , January 2018". It was observed that Course Outcomes need to be included. The concerned BoS to provide the syllabus and COs. Pending</li> </ul>
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 06/032020.	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.  Action taken:  Approval from Chairman of Academic council available.  Conveyed to upload information on website.  Discussion and Decision in 3 <sup>rd</sup> meeting of BoS  All were informed that no student was permitted for Minor degree in Electrical Engineering in Academic session 2019-20 and 2020-21.  BoS(EE) decided that Minor Degree to be as per AICTE nomenclature

-	Action Taken
	Action Taken
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	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
courses Reference no. IKGPTU/DA/2355, dated 06/032020.	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.  Action taken:  Approval from Chairman of Academic council available.  Discussion and Decision in 3 <sup>rd</sup> meeting of BoS  The BoS(EE) post-facto approved the list of SWAYAM/MOOCS for Honors Degree in Electrical Engineering for the session January-May 2020.  All were informed that no student opted for Honors degree in Electrical Engineering in Academic session 2020-21.
Students pursuing Major Degree in Electrical Engineering (Batch 2018 onwards) can only do Minor degree in Electrical and Computer Engineering (Reference AICTE Approval Process Handbook 2021, Chapter 7, Point 7.3.2, circulated vide Reference no IKG-PTU/DAA/2347, dated 28/02/20202)	(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 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.  Action taken:  Approval from Chairman of Academic council available.  Discussion and Decision in 3 <sup>rd</sup> meeting of BoS  Request to be sent to BoS(CSE)
	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 06/032020.  Students pursuing Major Degree in Electrical Engineering (Batch 2018 onwards) can only do Minor degree in Electrical and Computer Engineering (Reference AICTE Approval Process Handbook 2021, Chapter 7, Point 7.3.2, circulated vide Reference no IKG-PTU/DAA/2347,

lto	Agenda	Discussions and Decision
		Action Taken
Item No.  2.12	Agenda  Procedure for (a) Minor Degree (b) Honors Degree	The BoS recommended for approval:  (a) Student to opt for Minor degree in relevant programme in 3rd semester and for Honors Degree in 5th Semester.  (b) Students having no backlog of 1st semester and 2nd semester can opt for Minor Degree in Electrical and Computer Engineering in the 3rd semester. Students having no backlog of 3rd semester and 4th semester can opt for Honors Degree in B. Tech. Electrical Engineering in the 5th 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.  v) On obtaining the minimum credits the student will be eligible
		for (a) Minor Degree (b) Honors Degree in relevant programme.  • 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 as per the list provided by BoS for this purpose. (b) Honors degree from Professional Elective Courses other than those taken up for the concerned B.Tech Programme.
		(c)The list of (i) Professional Core Courses (ii) Professional Elective Courses, clearly indicating odd and even semester is available in the Teaching Scheme.  Action taken:
		Approval from Chairman of Academic council available.

	Agenda	Discussions and Decision
Item		Action Taken
No.		
2.13	Recommendation for e-books	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.  a) Dr Gagandeep Kaur, Chairperson, b) Dr Kanwardeep Singh, Member (external) c) Dr Akhil Gupta, Member (internal) d) Dr Deepika Bhalla (Coordinator)  Action taken: Approval from Chairman of Academic council available.
	Notification "Regarding New	Not to be considered for the Main/Constituent campuses.
2.14	Programme", Ref. No. IKGPTU/REG/NF/36, dated 04/03/2020 for B. Voc. Solar System	Action taken:
	Technology of 03 Years duration	Approval from Chairman of Academic council available.
2.15	On account of the lockdown since March 2020 due to COVID-19 pandemic, discussion on:  (A) The change of pattern of Question paper and evaluation  (B) Propose the Names of Paper Setters for each subject.	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 <b>Semester Ending Examination May 2020</b> 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:
	(Ref. No. e-file I-15/534/2020-COE, received through email on 11 <sup>th</sup> , May 2020).	<ul> <li>(a) 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.</li> <li>(b) On clicking the SAVE AND NEXT button, the next question will appear. Provision of invigilation of online examination to be made.</li> <li>(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.</li> <li>(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.</li> <li>(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.</li> <li>(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</li> </ul>

Item No.	Agenda	Discussions and Decision Action Taken
		Cisco Webex or any other online/virtual platform. The record of the evaluation to be maintained.
		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.
		<ul> <li>(B) The BoS (EE) approved the list of the paper setters for online/conventional semester ending Examination for May 2020 to be:</li> <li>a) Names of 03-04 Question Paper Setters for each subject is proposed to the Examination Department</li> <li>b) Preferably 50% of the Question Paper Setters to be from IKGPTU system (Affiliated Colleges and Main &amp; Constituent Campuses) and the remaining 50% Question Paper Setters to be from outside IKGPTU system (Punjab, other states and Union Territories).</li> <li>c) Each Question Paper to have two sets.</li> <li>d) The maximum number of Question papers/sets to be assigned to one paper setter to be 03.</li> <li>e) For conventional examination Honorarium to Question Paper Setters be paid as per University norms.</li> </ul>
		Information regarding Paper Setters to be uploaded by Convener on the relevant online portal.  Action taken:  Approval from Chairman of Academic council available.

Item No.	Agenda	Discussions and Decision Action Taken
2.16	To allow credit transfer to students to the extent of 20% in every semester for online courses provided through SWAYAM platform.	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.  (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.  (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.  (c) The steps are already proposed for credits earned through SWAYAM/MOOCS courses in Item no 2.12.  (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."  **Action taken:** Approval from Chairman of Academic council available.**

Item	Agenda	Discussion and Decision
No.		
3.1	The syllabus of 6th Semester B.Tech. Programme in Electrical Engineering	The BoS discussed, revised and approved the syllabus of 6th Semester B.Tech. Programme in Electrical Engineering.
3.2	The syllabus of Open Electives (odd/even) of B.Tech. Programme in Electrical Engineering	The BoS discussed, revised and approved the syllabus Open Electives (odd/even) of B.Tech. Programme in Electrical Engineering.
3.3	To finalize the on-line SWAYAM/MOOCS courses for Honors Degree in Electrical Engineering and Minor Degree offered by Department of Electrical Engineering for the session (b) August-December 2020 (b) January-May 2021.	(b) The BoS post-facto approved the on-line SWAYAM/MOOCS courses for Honors Degree in Electrical Engineering and Minor Degree offered by Department of Electrical Engineering for the session August-December 2020 (b) The BoS discussed and finalized the courses for Honors Degree in Electrical Engineering and Minor Degree offered by Department of Electrical Engineering for the session January-May 2021.

Item	Agenda	Discussion and Decision
No.		
3.4	Proposal of starting B. Tech. Minor Degree of in Electrical Vehicles for students pursuing Major Degree in Mechanical Engineering / Electrical Engineering as per IKGPTU/Reg/NF/2056, dated 17/05/2019, "Guidelines for Major and Minor Degree in B. Technology". IKGPTU/DAA/2347, dated 28/02/2020, "Regarding AICTE approval process handbook 20-21, Chapter VII point 7.3.2.	The BoS agreed to start a B. Tech. Minor Degree in Electrical Vehicles for students pursuing Major Degree in Mechanical Engineering / Electrical Engineering.  The students of B.Tech. ME/B.Tech. ME (LEET) are eligible to undertake the B. Tech. Minor Degree of in Electrical Vehicles programme in 3rd semester. The programme will be offered by Department of Electrical Engineering.  The draft of the Teaching Scheme was discussed and approved and the same to be shared with BoS(ME) Main and Constituent campuses.  Request to be sent to BoS (ME) for Teaching scheme and syllabus for students pursuing Major Degree in Electrical Engineering B. Tech. who desire to opt for Minor Degree of in Electrical Vehicles programme in 3rd semester.
3.5	To make available on website the procedure for (a) Minor Degree (b) Honors Degree draft.	The BoS recommended the posting of the procedure for (a) Minor Degree (b) Honors Degree draft on website.
3.6	To approve the list of e-books for Under Graduate programme of Electrical	Deferred.

The Members of BoS (EE) authorize Chairman BoS, HoD (EE) Main Campus, Coordinator and one member of BoS to sign relevant document.

There being no further points the meeting ended with a thanks to the Chair.

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Thanking you with regards,

#### Akhil Gupta

Assistant Professor & Head -Electrical Engineering Department
I.K. Gujral Punjab Technical University, Batala Campus, Kahnuwaan Road,
Batala-143506, District Gurdaspur, Punjab-India
(A constituent campus of I.K. Gujral Punjab Technical University Jalandhar, Kapurthala)
Mobile No.: 9465884873, 9855041124

#### Gagandeep Kaur <gaganee@ptu.ac.in>

Mon, Jan 18, 2021 at 7:17 PM

To: Deepika Bhalla <deepika.bhalla89@gmail.com>, "Dr. Yadwinder Singh" <ysbrar@ptu.ac.in>, "jagdishkumar@pec.ac.in" <jagdishkumar@pec.ac.in>, YOG RAJ <yrsood@nith.ac.in>, "jsdhillion@sliet.ac.in" <jsdhillion@sliet.ac.in>, "J.S. Dhillon" <jsdhillionp@yahoo.com>, Chakradhar Reddy Chandupatla <reddy@iitrpr.ac.in>, "kds@gndec.ac.in" <kds@gndec.ac.in" <kds@gndec.ac.in" <kds@gndec.ac.in" <kds@gndec.ac.in" <kds@gndec.ac.in" <kds@gndec.ac.in>, Navneet Singh <navneetbhangu@gmail.com>, "nsbhangu@gndec.ac.in" <nsbhangu@gndec.ac.in>, Akhil Gupta <akhilgupta1977@gmail.com>, "ashwani.k.sharma ." <ashwani.k.sharma@nitkkr.ac.in>, Dilbag Singh <draitlbag@gmail.com>, Naveen Sharma <naveen31.sharma@gmail.com>

I agree with these MoM.

From: Deepika Bhalla <deepika.bhalla89@gmail.com>

Sent: Monday, January 18, 2021 04:59 AM

To: Dr. Yadwinder Singh <ysbrar@ptu.ac.in>; jagdishkumar@pec.ac.in <jagdishkumar@pec.ac.in>; YOG RAJ <yrsood@nith.ac.in>; jsdhillion@sliet.ac.in <jsdhillion@sliet.ac.in>; J.S. Dhillon <jsdhillonp@yahoo.com>; Gagandeep Kaur <gaganee@ptu.ac.in>; Chakradhar Reddy Chandupatla <reddy@iitrpr.ac.in>; kds@gndec.ac.in <kds@gndec.ac.in>; KD Singh <kds97dee@gmail.com>; dr.rakeshbhanga@ptu.ac.in <dr.rakeshbhanga@ptu.ac.in>; Navneet Singh <navneetbhangu@gmail.com>; nsbhangu@gndec.ac.in <nsbhangu@gndec.ac.in>; Akhil Gupta <akhilgupta1977@gmail.com>; ashwani.k.sharma . <ashwani.k.sharma@nitkkr.ac.in>; Dilbag Singh <drdilbag@gmail.com>; Naveen Sharma <naveen31.sharma@gmail.com>; deepika.bhalla89 <deepika.bhalla89@gmail.com>

**Subject:** For kind approval: Minutes of 3rd Meeting (on-line) of BoS Electrical Engineering (Main Campus and Constituent Campuses) held on 18/01/2021.

## Respected All,

Please find appended the Minutes of the meeting held earlier today. The relevent documents are attached with. Your approval is requested for.

Thanks and Regards

Dr Deepika Bhalla Coordinator, BoS(EE) Main and Constituent Colleges + 9465884854

## Minutes of Meeting held on January 18, 2020

The 3<sup>rd</sup> meeting of BoS Electrical Engineering (Main Campus and Constituent Campuses) was held online (<u>Google Meet Link: https://meet.google.com/jvk-yndm-iro</u>) under the Chairmanship of Prof. (Dr) Y S Brar, on January 18, 2021, (Monday) at 11:00 am.

The meeting started with the welcome address to all the members of the BoS by the Prof. (Dr) Y S Brar, Chairman BoS(EE). The following Members were present:

- 1. Dr Y S Brar, Chairman
- 2. Dr Jagdish Kumar
- Dr Yog Raj Sood
- 4. Dr J S Dhillon
- 5. Dr Gagandeep Kaur
- 6. Dr Chakardhar Reddy
- 7. Dr Kanwardeep Singh
- 8. Dr Navneet Singh Bhangu
- 9. Dr Akhil Gupta
- 10. Dr Ashwani Kumar
- 11. Dr Dilbagh Singh
- 12. Dr Naveen Kumar Sharma (special Invitee)
- 13. Dr Deepika Bhalla, Convener

A. On 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, the member of BoS were conveyed that Minutes are approved by Chairman of Academic Council, since the necessary action has been taken on them; they be closed.

B. Review of the Minutes of Meeting of the 2nd meeting (on-line) of Board of Studies (Electrical Engineering), Main and

Constituent Campuses (2019-21) held on 21/05/2020.

Item No.	Agenda	Discussions and Decision Action Taken
2.1	To adopt the changes communicated for the uniformity of marks distribution of Mandatory Non-Credit Courses of B. Tech programmes on 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.	The marks distribution of Mandatory Non-Credit Courses of B. Tech Electrical Engineering is adopted.  Action Taken: Information available on website.
2.2	To adopt the Syllabus of Mandatory Non-Credit Course EVS-101- 18Environmental 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. <i>Action Taken: Information available on website.</i>
2.3	Item 52.04.12 of the 52 <sup>nd</sup> Academic Council meeting held on 16/01/2020. "Distribution of marks for evaluation of M. Tech. Dissertation"	Item 52.04.12 of the 52nd Academic Council meeting held on 16/01/2020. "Distribution of marks for evaluation of M. Tech. Dissertation", is adopted.  **Action Taken: Information available on website.
2.4	Bridge courses/additional subjects for change of branch/upgradation in 3 <sup>rd</sup> Semester to B. Tech. Electrical Engineering program.	The BoS recommended and approved Bridge courses/additional subjects for change of branch/upgradation in 3 <sup>rd</sup> Semester to B. Tech. Electrical Engineering program  Student who opts for B. Tech. Electrical Engineering programme in 3 <sup>rd</sup> Semester will need to study the following Bridge /Additional courses:  Student opting for B. Tech EE from B. Tech.  Computer (Bridge BTPH102-18 (Theory) Engineering BTAMBC1- BTPH112-18 (Laboratory)  Engineering Civil Engineering  Mechanical
		Engineering  Electronics and Communication Engineering  BTEE-101- 18 (Theory)

Item	Agenda	Discussions and Decision Action Taken
No.		ACTION Taken
		BTEE-102- 18 (Laboratory)
		i) The Bridge /Additional course is audit/qualifying course and no extra credit is awarded to the student qualifying the course ii) The Bridge /Additional course will be evaluated by the concerned teacher allocated the said course thought internal evaluation at department/college/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/college/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.  The BoS recommended the procedure and approved Bridge courses/additional subjects for change of
		branch/upgradation in 3rd Semester to B. Tech. Electrical Engineering program.
		Action taken: Approval from Chairman of Academic council available.
		<u>Discussion and Decision in 3<sup>rd</sup> meeting of BoS</u>
		Draft to be made available on website.
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.	The BOS did not find the item to be in its scope as the communication is not addressed for B.Tech. in Electrical Engineering.
	in Electrical Engineering is being undertaken by TCS-ion in any college or University, should be elaborated with viability.	Action taken: Approval from Chairman of Academic council available.

Item	Agenda	Discussions and Decision
No.		Action Taken
2.6	Item 52.08 of the 52 <sup>nd</sup> Academic Council meeting held on 16/01/2020: "Starting of one semester training for B. Tech programs in 7 <sup>th</sup> /8 <sup>th</sup> semester (Not available in model curriculum of AICTE)	Item 52.08 of the 52nd Academic Council meeting held on 16/01/2020: "Starting of one semester training for B. Tech programs in 7th/8th 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 7th or 8th Semester (Subject to approval from Competent Authority).  Action taken:  Approval from Chairman of Academic council available Draft available on website.
2.7	Changes in draft of syllabus of 3 <sup>rd</sup> and 4 <sup>th</sup> 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 3rd year B.Tech. in Electrical Engineering programme.  (b) The syllabus of 5th Semester B.Tech. in Electrical Engineering programme.  (c) The draft of teaching scheme of 4th year B.Tech. in Electrical Engineering programme.  Action taken:  Approval from Chairman of Academic council available  Draft available on website.
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.	<ul> <li>(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.</li> <li>Action Taken: Information available on website. (b) The BoS proposed to adopted the syllabus of respective courses given in the "AICTE model curriculum for UG Courses Volume-II , January 2018". It was observed that Course Outcomes need to be included. The concerned BoS to provide the syllabus and COs. Pending</li> </ul>
		Pending

Item No.	Agenda	Discussions and Decision Action Taken
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 06/032020.	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.  Action taken:  Approval from Chairman of Academic council available.  Conveyed to upload information on website.  Discussion and Decision in 3 <sup>rd</sup> meeting of BoS  All were informed that no student was permitted for Minor degree in Electrical Engineering in Academic session 2019-20 and 2020-21.  BoS(EE) decided that Minor Degree to be as per AICTE nomenclature
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 06/032020.	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.  Action taken:  Approval from Chairman of Academic council available.  Discussion and Decision in 3 <sup>rd</sup> meeting of BoS  The BoS(EE) post-facto approved the list of SWAYAM/ MOOCS for Honors Degree in Electrical Engineering for the session January-May 2020.  All were informed that no student opted for Honors degree in Electrical Engineering in Academic session 2020-21.

Item No.	Agenda	Discussions and Decision Action Taken
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 Process Handbook 2021, Chapter 7, Point 7.3.2, circulated vide Reference no IKG-PTU/DAA/2347, dated 28/02/20202)	<ul> <li>(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 Minor Degree in Electrical and Computer Engineering.</li> <li>(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.</li> <li>Action taken:</li> <li>Approval from Chairman of Academic council available.</li> <li>Discussion and Decision in 3<sup>rd</sup> meeting of BoS</li> <li>Request to be sent to BoS(CSE)</li> </ul>

No.  Procedure for (a) Minor Degree (b) Honors Degree  The BoS recommended for approval: (a) Student to opt for Minor degree in relevant programme in 3d semester and for Honors Degree in 5d Semester and 2nd semester and for Honors Degree in Electrical and Computer Engineering in the 3d semester. Students having no backlog of 3d semester and 4d semester can opt for Honors Degree in B. Tech. Electrical Engineering in the 3d semester can opt for Honors Degree in B. Tech. Electrical Engineering in the 5d 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:  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 to convey to the Examination Branch through the office of Dean Academics.  v) On obtaining the minimum credits the student will be eligible for (a) Minor Degree (b) Honors Degree in relevant programme.  • 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 as per the list provided by BoS for this purpose. (b) Honors degree from Professional Core for I sective Courses (ii) Professional Elective Courses other than those taken up for the concerned B.Tech Programme.	Itom	Agenda	Discussions and Decision
(a) Student to opt for Minor degree in relevant programme in 3 <sup>rd</sup> semester and for Honors Degree in 5 <sup>rd</sup> Semester.  (b) Students having no backlog of 1 <sup>rd</sup> semester and 2 <sup>rd</sup> semester can opt for Minor Degree in Electrical and Computer Engineering in the 3 <sup>rd</sup> semester. Students having no backlog of 3 <sup>rd</sup> semester and 4 <sup>rd</sup> semester can opt for Honors Degree in B. Tech. Electrical Engineering in the 5 <sup>rd</sup> 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 to convey to the Examination Branch through the office of Dean Academics.  v) On obtaining the minimum credits the student will be eligible for (a) Minor Degree from Professional Enective Courses as per the list provided by BoS for this purpose. (b) Honors degree from Professional Elective Courses other than those taken up for the concerned B.Tech Programme.  (c)The list of (i) Professional Core Courses (ii) Professional Elective Courses, clearly indicating odd and even semester is	Item No.		Action Taken
(a) Student to opt for Minor degree in relevant programme in 3 <sup>rd</sup> semester and for Honors Degree in 5 <sup>rd</sup> Semester.  (b) Students having no backlog of 1 <sup>rd</sup> semester and 2 <sup>rd</sup> semester can opt for Minor Degree in Electrical and Computer Engineering in the 3 <sup>rd</sup> semester. Students having no backlog of 3 <sup>rd</sup> semester and 4 <sup>rd</sup> semester can opt for Honors Degree in B. Tech. Electrical Engineering in the 5 <sup>rd</sup> 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 to convey to the Examination Branch through the office of Dean Academics.  v) On obtaining the minimum credits the student will be eligible for (a) Minor Degree from Professional Enective Courses as per the list provided by BoS for this purpose. (b) Honors degree from Professional Elective Courses other than those taken up for the concerned B.Tech Programme.  (c)The list of (i) Professional Core Courses (ii) Professional Elective Courses, clearly indicating odd and even semester is			
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.  v) On obtaining the minimum credits the student will be eligible for (a) Minor Degree (b) Honors Degree in relevant programme.  • 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 as per the list provided by BoS for this purpose. (b) Honors degree from Professional Elective Courses other than those taken up for the concerned B.Tech Programme.  (c)The list of (i) Professional Core Courses (ii) Professional Elective Courses, clearly indicating odd and even semester is	2.12	. ,	<ul> <li>(a) Student to opt for Minor degree in relevant programme in 3rd semester and for Honors Degree in 5th Semester.</li> <li>(b) Students having no backlog of 1st semester and 2nd semester can opt for Minor Degree in Electrical and Computer Engineering in the 3rd semester. Students having no backlog of 3rd semester and 4th semester can opt for Honors Degree in B. Tech. Electrical Engineering in the 5th Semester.</li> <li>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.</li> <li>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.</li> <li>The following steps are proposed for credits earned through SWAYAM/MOOCS courses:</li> </ul>
I al/aliania in the leaching Scheme			<ul> <li>i) For each semester the student to take up online SWAYAM/MOOCS courses approved by the BoS.</li> <li>ii) Student to take permission (written) from Department/Constituent Campus for registration.</li> <li>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.</li> <li>v) On obtaining the minimum credits the student will be eligible for (a) Minor Degree (b) Honors Degree in relevant programme.</li> <li>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 as per the list provided by BoS for this purpose. (b) Honors degree from Professional Elective Courses other than those taken up for the concerned B.Tech Programme.</li> <li>(c)The list of (i) Professional Core Courses (ii) Professional</li> </ul>
Action taken:  Approval from Chairman of Academic council available.			Action taken:

	Agenda	Discussions and Decision
Item No.		Action Taken
2.13	Recommendation for e-books	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.  a) Dr Gagandeep Kaur, Chairperson, b) Dr Kanwardeep Singh, Member (external) c) Dr Akhil Gupta, Member (internal)
		d) Dr Deepika Bhalla (Coordinator)  Action taken:
		Approval from Chairman of Academic council available.
2.14	Notification "Regarding New Programme", Ref. No. IKGPTU/REG/NF/36, dated 04/03/2020 for B. Voc. Solar System	Not to be considered for the Main/Constituent campuses.  Action taken:
	Technology of 03 Years duration	Approval from Chairman of Academic council available.
2.15	On account of the lockdown since March 2020 due to COVID-19 pandemic, discussion on:  (A) The change of pattern of	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 <b>Semester Ending Examination May 2020</b> may be conducted, if needed.
	Question paper and evaluation	On account of which there would be change in the pattern of question paper and the way to attempt it. The BoS
	(B) Propose the Names of Paper Setters for each subject.	recommends:
	(Ref. No. e-file I-15/534/2020-COE, received through email on 11 <sup>th</sup> , May 2020).	<ul> <li>(a) 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.</li> <li>(b) On clicking the SAVE AND NEXT button, the next question will appear. Provision of invigilation of online examination to be made.</li> <li>(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.</li> <li>(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.</li> <li>(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.</li> <li>(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</li> </ul>

Item No.	Agenda	Discussions and Decision Action Taken
		Cisco Webex or any other online/virtual platform. The record of the evaluation to be maintained.
		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.
		(B) The BoS (EE) approved the list of the paper setters for online/conventional semester ending Examination for May 2020 to be:  a) Names of 03-04 Question Paper Setters for each subject is proposed to the Examination Department 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). c) Each Question Paper to have two sets. d) The maximum number of Question papers/sets to be assigned to one paper setter to be 03. 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.  Action taken: Approval from Chairman of Academic council available.

Item No.	Agenda	Discussions and Decision Action Taken
2.16	To allow credit transfer to students to the extent of 20% in every semester for online courses provided through SWAYAM platform.	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.  (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.  (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.  (c) The steps are already proposed for credits earned through SWAYAM/MOOCS courses in Item no 2.12.  (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."  **Action taken:** Approval from Chairman of Academic council available.**

Item	Agenda	Discussion and Decision
No.		
3.1	The syllabus of 6th Semester B.Tech. Programme in Electrical Engineering	The BoS discussed, revised and approved the syllabus of 6th Semester B.Tech. Programme in Electrical Engineering.
3.2	The syllabus of Open Electives (odd/even) of B.Tech. Programme in Electrical Engineering	The BoS discussed, revised and approved the syllabus Open Electives (odd/even) of B.Tech. Programme in Electrical Engineering.
3.3	To finalize the on-line SWAYAM/MOOCS courses for Honors Degree in Electrical Engineering and Minor Degree offered by Department of Electrical Engineering for the session (b) August-December 2020 (b) January-May 2021.	(b) The BoS post-facto approved the on-line SWAYAM/MOOCS courses for Honors Degree in Electrical Engineering and Minor Degree offered by Department of Electrical Engineering for the session August-December 2020 (b) The BoS discussed and finalized the courses for Honors Degree in Electrical Engineering and Minor Degree offered by Department of Electrical Engineering for the session January-May 2021.

Item No.	Agenda	Discussion and Decision
3.4	Proposal of starting B. Tech. Minor Degree of in Electrical Vehicles for students pursuing Major Degree in Mechanical Engineering / Electrical Engineering as per IKGPTU/Reg/NF/2056, dated 17/05/2019, "Guidelines for Major and Minor Degree in B. Technology". IKGPTU/DAA/2347, dated 28/02/2020, "Regarding AICTE approval process handbook 20-21, Chapter VII point 7.3.2.	The BoS agreed to start a B. Tech. Minor Degree in Electrical Vehicles for students pursuing Major Degree in Mechanical Engineering / Electrical Engineering.  The students of B.Tech. ME/B.Tech. ME (LEET) are eligible to undertake the B. Tech. Minor Degree of in Electrical Vehicles programme in 3rd semester. The programme will be offered by Department of Electrical Engineering.  The draft of the Teaching Scheme was discussed and approved and the same to be shared with BoS(ME) Main and Constituent campuses.  Request to be sent to BoS (ME) for Teaching scheme and syllabus for students pursuing Major Degree in Electrical Engineering B. Tech. who desire to opt for Minor Degree of in Electrical Vehicles programme in 3rd semester.
3.5	To make available on website the procedure for (a) Minor Degree (b) Honors Degree draft.	The BoS recommended the posting of the procedure for (a) Minor Degree (b) Honors Degree draft on website.
3.6	To approve the list of e-books for Under Graduate programme of Electrical	Deferred.

The Members of BoS (EE) authorize Chairman BoS, HoD (EE) Main Campus, Coordinator and one member of BoS to sign relevant document.

There being no further points the meeting ended with a thanks to the Chair.

### Navneet Singh Bhangu <navneetbhangu@gmail.com>

To: Deepika Bhalla <deepika.bhalla89@gmail.com>

Cc: "Dr. Yadwinder Singh" <ysbrar@ptu.ac.in>, jagdishkumar@pec.ac.in, YOG RAJ <yrsood@nith.ac.in>, jsdhillion@sliet.ac.in, "J.S. Dhillon" <jsdhillion@yahoo.com>, Gagandeep Kaur <gaganee@ptu.ac.in>, Chakradhar Reddy Chandupatla <reddy@iitrpr.ac.in>, kds@gndec.ac.in, KD Singh <kds97dee@gmail.com>, dr.rakeshbhanga@ptu.ac.in, nsbhangu@gndec.ac.in, Akhil Gupta <akhilgupta1977@gmail.com>, "ashwani.k.sharma ." <ashwani.k.sharma@nitkkr.ac.in>, Dilbaq Singh <drdilbaq@gmail.com>, Naveen Sharma <naveen31.sharma@gmail.com>

Mon, Jan 18, 2021 at 7:38 PM

Approved...

On Mon, 18 Jan 2021, 3:29 pm Deepika Bhalla, <a href="mailto:deepika.bhalla89@gmail.com">deepika.bhalla89@gmail.com</a> wrote:

Respected All,

Please find appended the Minutes of the meeting held earlier today. The relevent documents are attached with. Your approval is requested for.

Thanks and Regards

Dr Deepika Bhalla Coordinator, BoS(EE) Main and Constituent Colleges + 9465884854

#### Minutes of Meeting held on January 18, 2020

The 3<sup>rd</sup> meeting of BoS Electrical Engineering (Main Campus and Constituent Campuses) was held online (<u>Google Meet Link:</u> https://meet.google.com/jvk-yndm-iro) under the Chairmanship of Prof. (Dr) Y S Brar, on January 18, 2021, (Monday) at 11:00 am.

The meeting started with the welcome address to all the members of the BoS by the Prof. (Dr) Y S Brar, Chairman BoS(EE). The following Members were present:

- 1. Dr Y S Brar, Chairman
- 2. Dr Jagdish Kumar
- 3. Dr Yog Raj Sood
- 4. Dr J S Dhillon
- 5. Dr Gagandeep Kaur
- 6. Dr Chakardhar Reddy
- 7. Dr Kanwardeep Singh
- 8. Dr Navneet Singh Bhangu
- 9. Dr Akhil Gupta
- 10. Dr Ashwani Kumar
- 11. Dr Dilbagh Singh
- 12. Dr Naveen Kumar Sharma (special Invitee)
- 13. Dr Deepika Bhalla, Convener
- A. On 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, the member of BoS were conveyed that Minutes are approved by Chairman of Academic Council, since the necessary action has been taken on them; they be closed.

B. Review of the Minutes of Meeting of the 2nd meeting (on-line) of Board of Studies (Electrical Engineering), Main and Constituent Campuses (2019-21) held on 21/05/2020.

Item No.	Agenda	Discussions and Decision Action Taken
2.1	To adopt the changes communicated for the uniformity of marks distribution of Mandatory Non-Credit Courses of B. Tech programmes on 2018 teaching scheme. (IKG-PTU/DA/2243	The marks distribution of Mandatory Non-Credit Courses of B. Tech Electrical Engineering is adopted.
	and IKG-PTU/DA/IO-1320, dated 09/12/2019 followed by IKG-PTU/DA/2316, dated 31/01/2020.	Action Taken: Information available on website.
2.2	To adopt the Syllabus of Mandatory Non-Credit Course EVS-101- 18Environmental 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. Action Taken:  Information available on website.

Item No.	Agenda	Discussions and Decision Action Taken
2.3	Item 52.04.12 of the 52 <sup>nd</sup> Academic Council meeting held on 16/01/2020. "Distribution of marks for evaluation of M. Tech. Dissertation"	Item 52.04.12 of the 52nd Academic Council meeting held on 16/01/2020. "Distribution of marks for evaluation of M. Tech. Dissertation", is adopted.  Action Taken: Information available on website.
2.4	Bridge courses/additional subjects for change of branch/upgradation in 3 <sup>rd</sup> Semester to B. Tech. Electrical Engineering program.	The BoS recommended and approved Bridge

	Agenda	Discussions and Decision
Item No.		Action Taken
NO.		
		issue new result notification and DMCs as per
		upgraded curriculum with same number of credits.
		The BoS recommended the procedure and approved
		Bridge courses/additional subjects for change of
		branch/upgradation in 3rd Semester to B. Tech. Electrical
		Engineering program.
		Action taken:
		Approval from Chairman of Academic council available.
		<u>Discussion and Decision in 3<sup>rd</sup> meeting of BoS</u> Draft to be made available on website.
	To invite representative of TCS-ion to	The BOS did not find the item to be in its scope as the
2.5	present detailed presentation of the	communication is not addressed for B.Tech. in Electrical
	subjects proposed for B.Tech. in	Engineering.
	Electrical Engineering. The	Enginosinig.
	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	Action taken:
	being undertaken by TCS-ion in	Approval from Chairman of Academic council available.
	any college or University, should be elaborated with viability.	
	Item 52.08 of the 52 <sup>nd</sup> Academic	Item 52.08 of the 52nd Academic Council meeting held on
2.6	Council meeting held on 16/01/2020:	16/01/2020: "Starting of one semester training for B. Tech
	"Starting of one semester training for	programs in 7th/8th semester (Not available in model
	B. Tech programs in 7 <sup>th</sup> /8 <sup>th</sup> semester	curriculum of AICTE) was adopted by the BoS.
	(Not available in model curriculum of	However, the BoS (EE) leaves the option for the
	AICTE)	Department/Campus/Student to either opt for One Semester
		Training or do Industry oriented courses in lieu of One
		Semester Training in 7th or 8th Semester (Subject to approval from Competent Authority).
		Action taken:
		Approval from Chairman of Academic council available
		Draft available on website.
	Changes in draft of syllabus of 3 <sup>rd</sup>	On account of item 2.6, the BoS discussed, revised and
2.7	and 4 <sup>th</sup> year on account of above	approved:
	Item 2.5 & 2.6	(a) The teaching scheme of 3rd year B.Tech. in Electrical
		Engineering programme.
		(b) The syllabus of 5th Semester B.Tech. in Electrical
		Engineering programme.
		(c) The draft of teaching scheme of 4th year B.Tech. in
		Electrical Engineering programme.  Action taken:
		Approval from Chairman of Academic council available
		Draft available on website.

Item No.	Agenda	Discussions and Decision Action Taken
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.	<ul> <li>(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.</li> <li>Action Taken: Information available on website. (b) The BoS proposed to adopted the syllabus of respective courses given in the "AICTE model curriculum for UG Courses Volume-II , January 2018". It was observed that Course Outcomes need to be included. The concerned BoS to provide the syllabus and COs. Pending</li> </ul>
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 06/032020.	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.  Action taken:  Approval from Chairman of Academic council available.  Conveyed to upload information on website.  Discussion and Decision in 3 <sup>rd</sup> meeting of BoS  All were informed that no student was permitted for Minor degree in Electrical Engineering in Academic session 2019-20 and 2020-21.  BoS(EE) decided that Minor Degree to be as per AICTE nomenclature

-	Action Taken
	Action Taken
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	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
courses Reference no. IKGPTU/DA/2355, dated 06/032020.	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.  Action taken:  Approval from Chairman of Academic council available.  Discussion and Decision in 3 <sup>rd</sup> meeting of BoS  The BoS(EE) post-facto approved the list of SWAYAM/MOOCS for Honors Degree in Electrical Engineering for the session January-May 2020.  All were informed that no student opted for Honors degree in Electrical Engineering in Academic session 2020-21.
Students pursuing Major Degree in Electrical Engineering (Batch 2018 onwards) can only do Minor degree in Electrical and Computer Engineering (Reference AICTE Approval Process Handbook 2021, Chapter 7, Point 7.3.2, circulated vide Reference no IKG-PTU/DAA/2347, dated 28/02/20202)	(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 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.  Action taken:  Approval from Chairman of Academic council available.  Discussion and Decision in 3 <sup>rd</sup> meeting of BoS  Request to be sent to BoS(CSE)
	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 06/032020.  Students pursuing Major Degree in Electrical Engineering (Batch 2018 onwards) can only do Minor degree in Electrical and Computer Engineering (Reference AICTE Approval Process Handbook 2021, Chapter 7, Point 7.3.2, circulated vide Reference no IKG-PTU/DAA/2347,

lto	Agenda	Discussions and Decision
		Action Taken
Item No.  2.12	Agenda  Procedure for (a) Minor Degree (b) Honors Degree	The BoS recommended for approval:  (a) Student to opt for Minor degree in relevant programme in 3rd semester and for Honors Degree in 5th Semester.  (b) Students having no backlog of 1st semester and 2nd semester can opt for Minor Degree in Electrical and Computer Engineering in the 3rd semester. Students having no backlog of 3rd semester and 4th semester can opt for Honors Degree in B. Tech. Electrical Engineering in the 5th 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.  v) On obtaining the minimum credits the student will be eligible
		for (a) Minor Degree (b) Honors Degree in relevant programme.  • 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 as per the list provided by BoS for this purpose. (b) Honors degree from Professional Elective Courses other than those taken up for the concerned B.Tech Programme.
		(c)The list of (i) Professional Core Courses (ii) Professional Elective Courses, clearly indicating odd and even semester is available in the Teaching Scheme.  Action taken:
		Approval from Chairman of Academic council available.

	Agenda	Discussions and Decision
Item		Action Taken
No.		
2.13	Recommendation for e-books	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.  a) Dr Gagandeep Kaur, Chairperson, b) Dr Kanwardeep Singh, Member (external) c) Dr Akhil Gupta, Member (internal) d) Dr Deepika Bhalla (Coordinator)  Action taken: Approval from Chairman of Academic council available.
	Notification "Regarding New	Not to be considered for the Main/Constituent campuses.
2.14	Programme", Ref. No. IKGPTU/REG/NF/36, dated 04/03/2020 for B. Voc. Solar System	Action taken:
	Technology of 03 Years duration	Approval from Chairman of Academic council available.
2.15	On account of the lockdown since March 2020 due to COVID-19 pandemic, discussion on:  (A) The change of pattern of Question paper and evaluation  (B) Propose the Names of Paper Setters for each subject.	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 <b>Semester Ending Examination May 2020</b> 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:
	(Ref. No. e-file I-15/534/2020-COE, received through email on 11 <sup>th</sup> , May 2020).	<ul> <li>(a) 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.</li> <li>(b) On clicking the SAVE AND NEXT button, the next question will appear. Provision of invigilation of online examination to be made.</li> <li>(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.</li> <li>(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.</li> <li>(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.</li> <li>(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</li> </ul>

Item No.	Agenda	Discussions and Decision Action Taken
		Cisco Webex or any other online/virtual platform. The record of the evaluation to be maintained.
		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.
		(B) The BoS (EE) approved the list of the paper setters for online/conventional semester ending Examination for May 2020 to be:  a) Names of 03-04 Question Paper Setters for each subject is proposed to the Examination Department 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). c) Each Question Paper to have two sets. d) The maximum number of Question papers/sets to be assigned to one paper setter to be 03. 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.  **Action taken:**
		Approval from Chairman of Academic council available.

Item No.	Agenda	Discussions and Decision Action Taken
2.16	To allow credit transfer to students to the extent of 20% in every semester for online courses provided through SWAYAM platform.	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.  (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.  (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.  (c) The steps are already proposed for credits earned through SWAYAM/MOOCS courses in Item no 2.12.  (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."  **Action taken:** Approval from Chairman of Academic council available.**

#### C. Discussion and decision on agenda Items

Item No.	Agenda	Discussion and Decision
3.1		

## **J.S. Dhillon** <jsdhillonp@yahoo.com> To: Deepika Bhalla <deepika.bhalla89@gmail.com>

Tue, Jan 19, 2021 at 11:44 AM

I agree with MOM. Thanks and regards

Dr. J.S. Dhillon

Professor

Electrical & Instrumentation Engineering Department Sant Longowal Institute of Engineering & Technology,

(Deemed-to-be-University)

Longowal-148 106, District Sangrur, Punjab, India Phone: +91-1672-253168(O), +91-1672-253169(R)

Mobile: +91-97798 28833

On Monday, 18 January, 2021, 03:29:41 pm IST, Deepika Bhalla <a href="mailto:seepika.bhalla89@gmail.com">deepika.bhalla89@gmail.com</a> wrote:

Respected All,

Please find appended the Minutes of the meeting held earlier today. The relevent documents are attached with. Your approval is requested for.

Thanks and Regards

Dr Deepika Bhalla Coordinator, BoS(EE) Main and Constituent Colleges + 9465884854

#### Minutes of Meeting held on January 18, 2020

The 3<sup>rd</sup> meeting of BoS Electrical Engineering (Main Campus and Constituent Campuses) was held online (<u>Google Meet Link:</u> https://meet.google.com/jvk-yndm-iro) under the Chairmanship of Prof. (Dr) Y S Brar, on January 18, 2021, (Monday) at 11:00 am.

The meeting started with the welcome address to all the members of the BoS by the Prof. (Dr) Y S Brar, Chairman BoS(EE).

The following Members were present:

- 1. Dr Y S Brar, Chairman
- 2. Dr Jagdish Kumar
- 3. Dr Yog Raj Sood
- 4. Dr J S Dhillon
- 5. Dr Gagandeep Kaur
- 6. Dr Chakardhar Reddy
- 7. Dr Kanwardeep Singh
- 8. Dr Navneet Singh Bhangu
- 9. Dr Akhil Gupta
- 10. Dr Ashwani Kumar
- 11. Dr Dilbagh Singh
- 12. Dr Naveen Kumar Sharma (special Invitee)
- 13. Dr Deepika Bhalla, Convener

A. On 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, the member of BoS were conveyed that Minutes are approved by Chairman of Academic Council, since the necessary action has been taken on them; they be closed.

B. Review of the Minutes of Meeting of the 2nd meeting (on-line) of Board of Studies (Electrical Engineering), Main and Constituent Campuses (2019-21) held on 21/05/2020.

	Agenda	Discussions and Decision
Item		Action Taken
No.		

	Agenda		Dis		nd Decision	
Item No.				Action 1	Taken	
140.						
2.1	To adopt the changes	l	he marks dist			
2.1	communicated for the uniformity of marks		ourses of B. Tec	n Electrical	Engineering	is adopted.
	distribution of Mandatory					
	Non-Credit Courses of B.	_	otion Tokon			
	Tech programmes on 2018 teaching scheme. (IKG-		ction Taken: nformation avail	lable on we	bsite.	
	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		he Syllabus of 01-18 Environr	•		
	Course EVS-101-		ated 08/02/2019		`	
	18Environmental Studies	3	1/01/2020) is add	•		,
	(IKG-PTU/DA/1475, dated 08/02/2019 followed by		ction Taken: nformation avail	lahlo on wo	hsita	
	IKG-PTU/DA/2316, dated	"		abic oil WC	worte.	
	31/01/2020) Item 52.04.12 of the 52 <sup>nd</sup>	lt/	em 52 04 12 of	the 52nd 4	Academic Co	nuncil meeting
2.3	Academic Council meeting	l	Item 52.04.12 of the 52nd Academic Council meeting held on 16/01/2020. "Distribution of marks for evaluation			
	held on 16/01/2020.		M. Tech. Disser	tation", is a	dopted.	
	"Distribution of marks for evaluation of M. Tech.	l	ction Taken: nformation avail	lable on we	bsite.	
	Dissertation"					
2.4	Bridge courses/additional subjects for change of		The BoS recourses/addition			oved Bridge change of
	branch/upgradation in 3 <sup>rd</sup>		branch/upgrada			•
	Semester to B. Tech.		Electrical Engir			10 2. 100
	Electrical Engineering program.		Student who or	ots for B. Te	ch Electrical	Engineering
	programm		programme in 3			•
			following Bridge	e /Additiona	l courses:	
			Student opting for B.		Bridge /	
			Tech EE from	Α	dditional cours	ses
			B. Tech. Computer		<u> </u>	
			Science			
			Engineering			
			Computer Engineering			Not
			Civil	(Bridge	BTPH102-	applicable
			Engineering	Course-I)	18 (Theory) BTPH112-	
			Mechanical Engineering	BTAMBC1- 18	18	
			Electronics and		(Laboratory)	BTEE-101-
			Communication			18 (Theory)
			Engineering			BTEE-102- 18
						(Laboratory)

Item	Agenda	Discussions and Decision Action Taken
No.		Action Taken
		i) The Bridge /Additional course is audit/qualifying course and no extra credit is awarded to the student qualifying the course ii) The Bridge /Additional course will be evaluated by the concerned teacher allocated the said course thought internal evaluation at department/college/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/college/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.  The BoS recommended the procedure and approved Bridge courses/additional subjects for change of branch/upgradation in 3rd Semester to B. Tech. Electrical Engineering program.  Action taken:  Approval from Chairman of Academic council available.  Discussion and Decision in 3rd meeting of BoS Draft to be made available on website.
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.  Action taken: Approval from Chairman of Academic council available.

	Agenda	Discussions and Decision	
Item	3	Action Taken	
No.			
2.6	Item 52.08 of the 52 <sup>nd</sup> Academic Council meeting held on 16/01/2020: "Starting of one semester training for B. Tech programs in 7 <sup>th</sup> /8 <sup>th</sup> semester (Not available in model curriculum of AICTE)	Item 52.08 of the 52nd Academic Council meeting held on 16/01/2020: "Starting of one semester training for B. Tech programs in 7th/8th 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 7th or 8th Semester (Subject to approval from Competent Authority). Action taken:  Approval from Chairman of Academic council available  Draft available on website.	
2.7	Changes in draft of syllabus of 3 <sup>rd</sup> and 4 <sup>th</sup> 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 3rd year B.Tech. in Electrical Engineering programme.  (b) The syllabus of 5th Semester B.Tech. in Electrical Engineering programme.  (c) The draft of teaching scheme of 4th year B.Tech. in Electrical Engineering programme.  Action taken:  Approval from Chairman of Academic council available  Draft available on website.	
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.	<ul> <li>(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.</li> <li>Action Taken: Information available on website. (b) The BoS proposed to adopted the syllabus of respective courses given in the "AICTE model curriculum for UG Courses Volume-II , January 2018". It was observed that Course Outcomes need to be included. The concerned BoS to provide the syllabus and COs. Pending</li> </ul>	

Item	Agenda	Discussions and Decision Action Taken
No.		
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 06/032020.	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.  Action taken:  Approval from Chairman of Academic council available.  Conveyed to upload information on website.  Discussion and Decision in 3 <sup>rd</sup> meeting of BoS  All were informed that no student was permitted for Minor degree in Electrical Engineering in Academic session 2019-20 and 2020-21.  BoS(EE) decided that Minor Degree to be as per
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 06/032020.	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.  Action taken:  Approval from Chairman of Academic council available.  Discussion and Decision in 3 <sup>rd</sup> meeting of BoS The BoS(EE) post-facto approved the list of SWAYAM/ MOOCS for Honors Degree in Electrical Engineering for the session January-May 2020.  All were informed that no student opted for Honors degree in Electrical Engineering in Academic session 2020-21.

Item No.	Agenda	Discussions and Decision Action Taken
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 Process Handbook 2021, Chapter 7, Point 7.3.2, circulated vide Reference no IKG-PTU/DAA/2347, dated 28/02/20202)	(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 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.  Action taken:  Approval from Chairman of Academic council available.  Discussion and Decision in 3 <sup>rd</sup> meeting of BoS Request to be sent to BoS(CSE)

Item	Agenda	Discussions and Decision Action Taken
No.		Action Taken
	Procedure for (a) Minor	The BoS recommended for approval:
	Procedure for (a) Minor Degree (b) Honors Degree	
		(c)The list of (i) Professional Core Courses (ii)

	Agenda	Discussions and Decision
Item No.		Action Taken
2.13	Recommendation for e-books	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.  a) Dr Gagandeep Kaur, Chairperson, b) Dr Kanwardeep Singh, Member (external) c) Dr Akhil Gupta, Member (internal) d) Dr Deepika Bhalla (Coordinator)  Action taken: Approval from Chairman of Academic council available.
2.14	Notification "Regarding New Programme", Ref. No. IKGPTU/REG/NF/36, dated 04/03/2020 for B. Voc. Solar System	Not to be considered for the Main/Constituent campuses.  Action taken:
	Technology of 03 Years duration	Action taken.  Approval from Chairman of Academic council available.
2.15	On account of the lockdown since March 2020 due to COVID-19 pandemic, discussion on:  (A) The change of pattern of Question paper and evaluation  (B) Propose the Names of Paper Setters for each subject.  (Ref. No. e-file I-15/534/2020-COE, received through email on 11 <sup>th</sup> , May 2020).	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:  (a) 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.  (b) On clicking the SAVE AND NEXT button, the next question will appear. Provision of invigilation of online examination to be made.  (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.  (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.  (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.

	Agenda Discussions and Decision	
Item No.		Action Taken
		(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.
		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.
		(B) The BoS (EE) approved the list of the paper setters for online/conventional semester ending Examination for May 2020 to be:  a) Names of 03-04 Question Paper Setters for each subject is proposed to the Examination Department 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). c) Each Question Paper to have two sets. d) The maximum number of Question papers/sets to be assigned to one paper setter to be 03.  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.  Action taken:  Approval from Chairman of Academic council available.

Item No.	Agenda	Discussions and Decision Action Taken
2.16	To allow credit transfer to students to the extent of 20% in every semester for online courses provided through SWAYAM platform.	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.  (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.  (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.  (c) The steps are already proposed for credits earned through SWAYAM/MOOCS courses in Item no 2.12.  (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."  **Action taken:* Approval from Chairman of Academic council available.**

## C. Discussion and decision on agenda Items

Item No.	Agenda	Discussion and Decision
3.1	The syllabus of 6th Semester B.Tech. Programme in Electrical Engineering	The BoS discussed, revised and approved the syllabus of 6th Semester B.Tech. Programme in Electrical Engineering.
3.2	The syllabus of Open Electives (odd/even) of B.Tech. Programme in Electrical Engineering	The BoS discussed, revised and approved the syllabus Open Electives (odd/even) of B.Tech. Programme in Electrical Engineering.

Item	Agenda	Discussion and Decision
No.		
3.3	To finalize the on-line SWAYAM/MOOCS courses for Honors Degree in Electrical Engineering and Minor Degree offered by Department of Electrical Engineering for the session (b) August-December 2020 (b) January-May 2021.	(b) The BoS post-facto approved the online SWAYAM/MOOCS courses for Honors Degree in Electrical Engineering and Minor Degree offered by Department of Electrical Engineering for the session August-December 2020 (b) The BoS discussed and finalized the courses for Honors Degree in Electrical Engineering and Minor Degree offered by Department of Electrical Engineering for the session January-May 2021.
3.4	Proposal of starting B. Tech. Minor Degree of in Electrical Vehicles for students pursuing Major Degree in Mechanical Engineering / Electrical Engineering as per IKGPTU/Reg/NF/2056, dated 17/05/2019, "Guidelines for Major and Minor Degree in B. Technology". IKGPTU/DAA/2347, dated 28/02/2020, "Regarding AICTE approval process handbook 20-21, Chapter VII point 7.3.2.	The BoS agreed to start a B. Tech. Minor Degree in Electrical Vehicles for students pursuing Major Degree in Mechanical Engineering / Electrical Engineering.  The students of B.Tech. ME/B.Tech. ME (LEET) are eligible to undertake the B. Tech. Minor Degree of in Electrical Vehicles programme in 3rd semester. The programme will be offered by Department of Electrical Engineering.  The draft of the Teaching Scheme was discussed and approved and the same to be shared with BoS(ME) Main and Constituent campuses.  Request to be sent to BoS (ME) for Teaching scheme and syllabus for students pursuing Major Degree in Electrical Engineering B. Tech. who desire to opt for Minor Degree of in Electrical Vehicles programme in 3rd semester.
3.5	To make available on website the procedure for (a) Minor Degree (b) Honors Degree draft.	The BoS recommended the posting of the procedure for (a) Minor Degree (b) Honors Degree draft on website.
3.6	To approve the list of e-books for Under Graduate programme of Electrical	Deferred.

The Members of BoS (EE) authorize Chairman BoS, HoD (EE) Main Campus, Coordinator and one member of BoS to sign relevant document.

There being no further points the meeting ended with a thanks to the Chair.

**Dr. Kanwardeep Singh** <kds97dee@gmail.com>
To: Deepika Bhalla <deepika.bhalla89@gmail.com>

Tue, Jan 19, 2021 at 12:55 PM

I agree with the decisions taken in the BoS meeting held on 18-01-2021 (online).

Kind regards,

Dr. Kanwardeep Singh

On Mon, Jan 18, 2021 at 3:29 PM Deepika Bhalla <a href="mailto:deepika.bhalla89@gmail.com">deepika.bhalla89@gmail.com</a> wrote: Respected All,

Please find appended the Minutes of the meeting held earlier today. The relevent documents are attached with. Your approval is requested for.

Thanks and Regards

Dr Deepika Bhalla Coordinator, BoS(EE) Main and Constituent Colleges + 9465884854

#### Minutes of Meeting held on January 18, 2020

The 3<sup>rd</sup> meeting of BoS Electrical Engineering (Main Campus and Constituent Campuses) was held online (<u>Google Meet Link:</u> https://meet.google.com/jvk-yndm-iro) under the Chairmanship of Prof. (Dr) Y S Brar, on January 18, 2021, (Monday) at 11:00 am.

The meeting started with the welcome address to all the members of the BoS by the Prof. (Dr) Y S Brar, Chairman BoS(EE). The following Members were present:

- 1. Dr Y S Brar, Chairman
- 2. Dr Jagdish Kumar
- 3. Dr Yog Raj Sood
- 4. Dr J S Dhillon
- 5. Dr Gagandeep Kaur
- Dr Chakardhar Reddy
- 7. Dr Kanwardeep Singh
- 8. Dr Navneet Singh Bhangu
- 9. Dr Akhil Gupta
- 10. Dr Ashwani Kumar
- 11. Dr Dilbagh Singh
- 12. Dr Naveen Kumar Sharma (special Invitee)
- 13. Dr Deepika Bhalla, Convener
- A. On 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, the member of BoS were conveyed that Minutes are approved by Chairman of Academic Council, since the necessary action has been taken on them; they be closed.
- B. Review of the Minutes of Meeting of the 2nd meeting (on-line) of Board of Studies (Electrical Engineering), Main and Constituent Campuses (2019-21) held on 21/05/2020.

	Agenda	Discussions and Decision
Item	- -	Action Taken
No.		

Item	Agenda	Discussions and Decision Action Taken
No.		7.51.51.
2.1	To adopt the changes communicated for the uniformity of marks distribution of Mandatory Non-Credit Courses of B. Tech programmes on 2018	The marks distribution of Mandatory Non-Credit Courses of B. Tech Electrical Engineering is adopted.
	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.	Action Taken: Information available on website.
2.2	To adopt the Syllabus of Mandatory Non-Credit Course EVS-101-18Environmental Studies (IKG-PTU/DA/1475, dated 08/02/2019 followed by IKG-PTU/DA/2316, dated	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. Action Taken:  Information available on website.
2.3	31/01/2020)  Item 52.04.12 of the 52 <sup>nd</sup> Academic Council meeting held on 16/01/2020.  "Distribution of marks for evaluation of M. Tech. Dissertation"	Item 52.04.12 of the 52nd Academic Council meeting held on 16/01/2020. "Distribution of marks for evaluation of M. Tech. Dissertation", is adopted.  Action Taken: Information available on website.
2.4	Bridge courses/additional subjects for change of branch/upgradation in 3 <sup>rd</sup> Semester to B. Tech. Electrical Engineering program.	The BoS recommended and approved Bridge courses/additional subjects for change of branch/upgradation in 3 <sup>rd</sup> Semester to B. Tech. Electrical Engineering program  Student who opts for B. Tech. Electrical Engineering programme in 3 <sup>rd</sup> Semester will need to study the following Bridge /Additional courses:  Student opting for B. Tech EE from B. Tech.
		Computer Science Engineering Civil (Bridge BTPH102-18 Engineering Course-I) (Theory) Mechanical BTAMBC1- Engineering 18 (Laboratory)  Electronics and Communication Engineering  i) The Bridge /Additional course is audit/qualifying course and no extra credit is awarded to the student qualifying the course ii) The Bridge /Additional course will be evaluated by the concerned teacher allocated the said course

Item	Agenda	Discussions and Decision Action Taken
No.		ACTION TAKEN
		thought internal evaluation at department/college/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/college/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.  The BoS recommended the procedure and approved Bridge courses/additional subjects for change of branch/upgradation in 3rd Semester to B. Tech. Electrical Engineering program.  Action taken:  Approval from Chairman of Academic council available.
		<u>Discussion and Decision in 3<sup>rd</sup> meeting of BoS</u>
2.5	To invite representative of TCS-ion to present detailed presentation of the subjects proposed for B.Tech. in Electrical Engineering. The	Draft to be made available on website.  The BOS did not find the item to be in its scope as the communication is not addressed for B.Tech. in Electrical Engineering.
	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.	Action taken: Approval from Chairman of Academic council available.
2.6	Item 52.08 of the 52 <sup>nd</sup> Academic Council meeting held on 16/01/2020: "Starting of one semester training for B. Tech programs in 7 <sup>th</sup> /8 <sup>th</sup> semester (Not available in model curriculum of AICTE)	Item 52.08 of the 52nd Academic Council meeting held on 16/01/2020: "Starting of one semester training for B. Tech programs in 7th/8th 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 7th or 8th Semester (Subject to approval from Competent Authority).  Action taken:  Approval from Chairman of Academic council available Draft available on website.

Item No.	Agenda	Discussions and Decision Action Taken
2.7	Changes in draft of syllabus of 3 <sup>rd</sup> and 4 <sup>th</sup> 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 3rd year B.Tech. in Electrical Engineering programme.  (b) The syllabus of 5th Semester B.Tech. in Electrical Engineering programme.  (c) The draft of teaching scheme of 4th year B.Tech. in Electrical Engineering programme.  Action taken:  Approval from Chairman of Academic council available  Draft available on website.
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.	<ul> <li>(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.</li> <li>Action Taken: Information available on website. (b) The BoS proposed to adopted the syllabus of respective courses given in the "AICTE model curriculum for UG Courses Volume-II , January 2018". It was observed that Course Outcomes need to be included. The concerned BoS to provide the syllabus and COs. Pending</li> </ul>
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 06/032020.	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.  Action taken:  Approval from Chairman of Academic council available.  Conveyed to upload information on website.  Discussion and Decision in 3 <sup>rd</sup> meeting of BoS  All were informed that no student was permitted for Minor degree in Electrical Engineering in Academic session 2019-20 and 2020-21.  BoS(EE) decided that Minor Degree to be as per AICTE nomenclature

-	Action Taken
	Action Taken
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	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
courses Reference no. IKGPTU/DA/2355, dated 06/032020.	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.  Action taken:  Approval from Chairman of Academic council available.  Discussion and Decision in 3 <sup>rd</sup> meeting of BoS  The BoS(EE) post-facto approved the list of SWAYAM/MOOCS for Honors Degree in Electrical Engineering for the session January-May 2020.  All were informed that no student opted for Honors degree in Electrical Engineering in Academic session 2020-21.
Students pursuing Major Degree in Electrical Engineering (Batch 2018 onwards) can only do Minor degree in Electrical and Computer Engineering (Reference AICTE Approval Process Handbook 2021, Chapter 7, Point 7.3.2, circulated vide Reference no IKG-PTU/DAA/2347, dated 28/02/20202)	(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 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.  Action taken:  Approval from Chairman of Academic council available.  Discussion and Decision in 3 <sup>rd</sup> meeting of BoS  Request to be sent to BoS(CSE)
	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 06/032020.  Students pursuing Major Degree in Electrical Engineering (Batch 2018 onwards) can only do Minor degree in Electrical and Computer Engineering (Reference AICTE Approval Process Handbook 2021, Chapter 7, Point 7.3.2, circulated vide Reference no IKG-PTU/DAA/2347,

	Agenda	Discussions and Decision
Item No.		Action Taken
NO.		
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
		3rd semester and for Honors Degree in 5th Semester.  (b) Students having no backlog of 1st semester and 2nd
		semester can opt for Minor Degree in Electrical and Computer
		Engineering in the 3rd semester. Students having no backlog of
		3rd semester and 4th semester can opt for Honors Degree in B.
		Tech. Electrical Engineering in the 5th 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.
		<ul> <li>The number of credits for SWAYAM/MOOCS courses for Minor degree in relevant programme to be as per the credits</li> </ul>
		mentioned on the certificate of the respective SWAYAM/
		MOOCS course.
		<ul> <li>The following steps are proposed for credits earned through SWAYAM/MOOCS courses:</li> </ul>
		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.
		v) On obtaining the minimum credits the student will be eligible
		for (a) Minor Degree (b) Honors Degree in relevant
		programme.
		<ul> <li>In case of non-availability of SWAYAM/MOOCS courses the student can earn the minimum credits for (a) Minor Degree</li> </ul>
		from Professional Core / Elective Courses as per the list
		provided by BoS for this purpose. (b) Honors degree from
		Professional Elective Courses other than those taken up for
		the concerned B.Tech Programme. (c)The list of (i) Professional Core Courses (ii) Professional
		Elective Courses, clearly indicating odd and even semester is
		available in the Teaching Scheme.
		Action taken:
		Approval from Chairman of Academic council available.

	Agenda	Discussions and Decision
Item		Action Taken
No.		
2.13	Recommendation for e-books	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.  a) Dr Gagandeep Kaur, Chairperson, b) Dr Kanwardeep Singh, Member (external) c) Dr Akhil Gupta, Member (internal) d) Dr Deepika Bhalla (Coordinator)  Action taken: Approval from Chairman of Academic council available.
	Notification "Regarding New	Not to be considered for the Main/Constituent campuses.
2.14	Programme", Ref. No. IKGPTU/REG/NF/36, dated 04/03/2020 for B. Voc. Solar System	Action taken:
	Technology of 03 Years duration	Approval from Chairman of Academic council available.
2.15	On account of the lockdown since March 2020 due to COVID-19 pandemic, discussion on:  (A) The change of pattern of Question paper and evaluation  (B) Propose the Names of Paper Setters for each subject.	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 <b>Semester Ending Examination May 2020</b> 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:
	(Ref. No. e-file I-15/534/2020-COE, received through email on 11 <sup>th</sup> , May 2020).	<ul> <li>(a) 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.</li> <li>(b) On clicking the SAVE AND NEXT button, the next question will appear. Provision of invigilation of online examination to be made.</li> <li>(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.</li> <li>(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.</li> <li>(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.</li> <li>(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</li> </ul>

Item No.	Agenda	Discussions and Decision Action Taken
		Cisco Webex or any other online/virtual platform. The record of the evaluation to be maintained.
		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.
		(B) The BoS (EE) approved the list of the paper setters for online/conventional semester ending Examination for May 2020 to be:  a) Names of 03-04 Question Paper Setters for each subject is proposed to the Examination Department 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). c) Each Question Paper to have two sets. d) The maximum number of Question papers/sets to be assigned to one paper setter to be 03. 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.  **Action taken:**
		Approval from Chairman of Academic council available.

Item No.	Agenda	Discussions and Decision Action Taken
2.16	To allow credit transfer to students to the extent of 20% in every semester for online courses provided through SWAYAM platform.	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.  (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.  (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.  (c) The steps are already proposed for credits earned through SWAYAM/MOOCS courses in Item no 2.12.  (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."  **Action taken:** Approval from Chairman of Academic council available.**

## C. Discussion and decision on agenda Items

Item	Agenda	Discussion and Decision
No.		
3.1	The syllabus of 6th Semester B.Tech. Programme in Electrical Engineering	The BoS discussed, revised and approved the syllabus of 6th Semester B.Tech. Programme in Electrical Engineering.
3.2	The syllabus of Open Electives (odd/even) of B.Tech. Programme in Electrical Engineering	The BoS discussed, revised and approved the syllabus Open Electives (odd/even) of B.Tech. Programme in Electrical Engineering.
3.3	To finalize the on-line SWAYAM/MOOCS courses for Honors Degree in Electrical Engineering and Minor Degree offered by Department of Electrical Engineering for the session (b) August-December 2020 (b) January-May 2021.	(b) The BoS post-facto approved the on-line SWAYAM/MOOCS courses for Honors Degree in Electrical Engineering and Minor Degree offered by Department of Electrical Engineering for the session August-December 2020 (b) The BoS discussed and finalized the courses for Honors Degree in Electrical Engineering and Minor Degree offered by Department of Electrical Engineering for the session January-May 2021.

Item No.	Agenda	Discussion and Decision
3.4	Proposal of starting B. Tech. Minor Degree of in Electrical Vehicles for students pursuing Major Degree in Mechanical Engineering / Electrical Engineering as per IKGPTU/Reg/NF/2056, dated 17/05/2019, "Guidelines for Major and Minor Degree in B. Technology". IKGPTU/DAA/2347, dated 28/02/2020, "Regarding AICTE approval process handbook 20-21, Chapter VII point 7.3.2.	The BoS agreed to start a B. Tech. Minor Degree in Electrical Vehicles for students pursuing Major Degree in Mechanical Engineering / Electrical Engineering.  The students of B.Tech. ME/B.Tech. ME (LEET) are eligible to undertake the B. Tech. Minor Degree of in Electrical Vehicles programme in 3rd semester. The programme will be offered by Department of Electrical Engineering.  The draft of the Teaching Scheme was discussed and approved and the same to be shared with BoS(ME) Main and Constituent campuses.  Request to be sent to BoS (ME) for Teaching scheme and syllabus for students pursuing Major Degree in Electrical Engineering B. Tech. who desire to opt for Minor Degree of in Electrical Vehicles programme in 3rd semester.
3.5	To make available on website the procedure for (a) Minor Degree (b) Honors Degree draft.	The BoS recommended the posting of the procedure for (a) Minor Degree (b) Honors Degree draft on website.
3.6	To approve the list of e-books for Under Graduate programme of Electrical	Deferred.

The Members of BoS (EE) authorize Chairman BoS, HoD (EE) Main Campus, Coordinator and one member of BoS to sign relevant document.

There being no further points the meeting ended with a thanks to the Chair.

Dr. Kanwardeep Singh Associate Professor and Head Electrical Engineering Department, Guru Nanak Dev Engineering College, Ludhiana (Punjab) (An Autonomous College u/s 2(f) and 12(B) of UGC Act 1956) Mobile:+91-950-141-1533



### Approval of the minutes

1 message

**ashwani.k.sharma** . <ashwani.k.sharma@nitkkr.ac.in> To: Deepika Bhalla <deepika.bhalla89@gmail.com>

Tue, Jan 19, 2021 at 1:19 PM

Dear Dr. Deepika,

The minutes are approved.

Regards. Ashwani

Dr. Ashwani Kumar, SMIEEE, FIE (I), LMISTE, LMSCIEI

Professor,

Department of Electrical Engineering NIT Kurukshetra Haryana, India PIN 136119

mobile: +919416366091 office No: +911744233389

email: ashwani.k.sharma@nitkkr.ac.in, ashwaks@gmail.com, ashwani.k.sharma@ieee.org



# Reply: For kind approval: Minutes of 3rd Meeting (on-line) of BoS Electrical Engineering (Main Campus and Constituent Campuses) held on 18/01/2021.

2 messages

Jagdish Kumar <jagdishkumar@pec.ac.in>
To: Deepika Bhalla <deepika.bhalla89@gmail.com>

Tue, Jan 19, 2021 at 12:14 PM

Approved.

Sent from vivo smartphone

Respected All,

Please find appended the Minutes of the meeting held earlier today. The relevent documents are attached with. Your approval is requested for.

Thanks and Regards

Dr Deepika Bhalla Coordinator, BoS(EE) Main and Constituent Colleges + 9465884854

#### Minutes of Meeting held on January 18, 2020

The 3<sup>rd</sup> meeting of BoS Electrical Engineering (Main Campus and Constituent Campuses) was held online (<u>Google Meet Link:</u> https://meet.google.com/jvk-yndm-iro) under the Chairmanship of Prof. (Dr) Y S Brar, on January 18, 2021, (Monday) at 11:00 am.

The meeting started with the welcome address to all the members of the BoS by the Prof. (Dr) Y S Brar, Chairman BoS(EE). The following Members were present:

- 1. Dr Y S Brar, Chairman
- 2. Dr Jagdish Kumar
- Dr Yog Raj Sood
- 4. Dr J S Dhillon
- 5. Dr Gagandeep Kaur
- 6. Dr Chakardhar Reddy
- 7. Dr Kanwardeep Singh
- 8. Dr Navneet Singh Bhangu
- 9. Dr Akhil Gupta
- 10. Dr Ashwani Kumar
- 11. Dr Dilbagh Singh

- 12. Dr Naveen Kumar Sharma (special Invitee)
- 13. Dr Deepika Bhalla, Convener
- A. On 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, the member of BoS were conveyed that Minutes are approved by Chairman of Academic Council, since the necessary action has been taken on them; they be closed.

B. Review of the Minutes of Meeting of the 2nd meeting (on-line) of Board of Studies (Electrical Engineering), Main and Constituent Campuses (2019-21) held on 21/05/2020.

onstituent Campuses (2019-21) held on 21/05/2020.							
Item No.	Agenda		Di	scussions a Action	nd Decision Taken		
2.1	To adopt the changes communicated for the uniformity of marks distribution of Mandatory Non-Credit Courses of B. Tech programmes on 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.	The marks distribution of Mandatory Non-Credit Courses of Tech Electrical Engineering is adopted.  Action Taken: Information available on website.			dit Courses of	B.	
2.2	To adopt the Syllabus of Mandatory Non-Credit Course EVS-101- 18Environmental Studies (IKG- PTU/DA/1475, dated 08/02/2019 followed by IKG-PTU/DA/2316, dated 31/01/2020)	fo A	ne Syllabus of M nvironmental Stud llowed by IKG-PTI ction Taken: formation availal	ies (IKG-PT J/DA/2316, d	U/DA/1475, dated 31/01/20	ated 08/02/201	19
2.3	Item 52.04.12 of the 52 <sup>nd</sup> Academic Council meeting held on 16/01/2020. "Distribution of marks for evaluation of M. Tech. Dissertation"	16 Di <b>A</b>	em 52.04.12 of the 5/01/2020. "Distribissertation", is adoction Taken:	ution of mai pted.	rks for evalua	•	
2.4	Bridge courses/additional subjects for change of branch/upgradation in 3 <sup>rd</sup> Semester to B. Tech. Electrical Engineering program.		The BoS recourses/addition branch/upgradat Engineering proof.  Student who opt programme in 3 <sup>r</sup> following Bridge  Student opting for B. Tech EE from B. Tech.  Computer Science Engineering Computer	ion in 3 <sup>rd</sup> Se gram s for B. Tech <sup>d</sup> Semester v /Additional c	ets for mester to B. To be a considered to B. To be a considered to study t	gineering udy the	:
			Engineering Civil Engineering Mechanical		(Edisordiory)		

	Agenda	Discussions and Decision	П
Item	<b>G</b>	Action Taken	
No.			
		Engineering	+
		Electronics and BTEE-101-	
		Communication 18 (Theory)	
		Engineering BTEE-102-	
		18	
		(Laboratory	)
		i) The Bridge /Additional course	is
		audit/qualifying course and no extra credit	is
		awarded to the student qualifying the course	
		ii) The Bridge /Additional course will be evaluate	
		by the concerned teacher allocated the said could	
		thought internal evaluation	at
		department/college/constituent campus level.	
		iii) The teacher allocated the bridge course sho	na
		be given 2 hours load per week for teaching it.  iv) The student opting for change of branch me	ıct
		iv) The student opting for change of branch me qualify the course within one year of change	
		branch.	UI
		v) The department/college/constituent camp	IIS
		shall issue a certificate that the student has pass	
		the Bridge /Additional course.	
		vi) Upon certification of passing audit/qualifyi	ng
		course the earlier issued result notification/s a	_
		DMCs of the concerned student shall be cancell	ed
		and the Examination Department of IKGPTU sh	all
		issue new result notification and DMCs as p	
		upgraded curriculum with same number of credits	
		The BoS recommended the procedure and approve	
		Bridge courses/additional subjects for change	
		branch/upgradation in 3rd Semester to B. Tech. Electri	cai
		Engineering program.  Action taken:	
		Action taken: Approval from Chairman of Academic council available	۵
		<u>Discussion and Decision in 3<sup>rd</sup> meeting of BoS</u>	u.
		Draft to be made available on website.	
	To invite representative of TCS-ion to	The BOS did not find the item to be in its scope as	the
2.5	present detailed presentation of the	communication is not addressed for B.Tech. in Elec	
	subjects proposed for B.Tech. in	Engineering.	
	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.	Author takens	
	in Electrical Engineering is	Action taken:	
	being undertaken by TCS-ion in	Approval from Chairman of Academic council available	9.
	any college or University, should		
	be elaborated with viability.		

Item	Agenda	Discussions and Decision
No.		Action Taken
2.6	Item 52.08 of the 52 <sup>nd</sup> Academic Council meeting held on 16/01/2020: "Starting of one semester training for B. Tech programs in 7 <sup>th</sup> /8 <sup>th</sup> semester (Not available in model curriculum of AICTE)	Item 52.08 of the 52nd Academic Council meeting held on 16/01/2020: "Starting of one semester training for B. Tech programs in 7th/8th 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 7th or 8th Semester (Subject to approval from Competent Authority).  Action taken:  Approval from Chairman of Academic council available Draft available on website.
2.7	Changes in draft of syllabus of 3 <sup>rd</sup> and 4 <sup>th</sup> 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 3rd year B.Tech. in Electrical Engineering programme.  (b) The syllabus of 5th Semester B.Tech. in Electrical Engineering programme.  (c) The draft of teaching scheme of 4th year B.Tech. in Electrical Engineering programme.  Action taken:  Approval from Chairman of Academic council available  Draft available on website.
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.	<ul> <li>(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.</li> <li>Action Taken: Information available on website. (b) The BoS proposed to adopted the syllabus of respective courses given in the "AICTE model curriculum for UG Courses Volume-II , January 2018". It was observed that Course Outcomes need to be included. The concerned BoS to provide the syllabus and COs. Pending</li> </ul>
		Pending

Item No.	Agenda	Discussions and Decision Action Taken
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 06/032020.	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.  Action taken:  Approval from Chairman of Academic council available.  Conveyed to upload information on website.  Discussion and Decision in 3 <sup>rd</sup> meeting of BoS  All were informed that no student was permitted for Minor degree in Electrical Engineering in Academic session 2019-20 and 2020-21.  BoS(EE) decided that Minor Degree to be as per AICTE nomenclature
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 06/032020.	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.  Action taken:  Approval from Chairman of Academic council available.  Discussion and Decision in 3 <sup>rd</sup> meeting of BoS  The BoS(EE) post-facto approved the list of SWAYAM/ MOOCS for Honors Degree in Electrical Engineering for the session January-May 2020.  All were informed that no student opted for Honors degree in Electrical Engineering in Academic session 2020-21.

Item No.	Agenda	Discussions and Decision Action Taken
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 Process Handbook 2021, Chapter 7, Point 7.3.2, circulated vide Reference no IKG-PTU/DAA/2347, dated 28/02/20202)	<ul> <li>(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 Minor Degree in Electrical and Computer Engineering.</li> <li>(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.</li> <li>Action taken:</li> <li>Approval from Chairman of Academic council available.</li> <li>Discussion and Decision in 3<sup>rd</sup> meeting of BoS</li> <li>Request to be sent to BoS(CSE)</li> </ul>

Itom	Agenda	Discussions and Decision
Item No.		Action Taken
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 3rd semester and for Honors Degree in 5th Semester.  (b) Students having no backlog of 1st semester and 2nd semester can opt for Minor Degree in Electrical and Computer Engineering in the 3rd semester. Students having no backlog of 3rd semester and 4th semester can opt for Honors Degree in B. Tech. Electrical Engineering in the 5th 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. v) On obtaining the minimum credits the student will be eligible for (a) Minor Degree (b) Honors Degree in relevant programme. • 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 as per the list provided by BoS for this purpose. (b) Honors degree from Professional Elective Courses other than those taken up for the concerned B.Tech Programme.
		(c)The list of (i) Professional Core Courses (ii) Professional Elective Courses, clearly indicating odd and even semester is available in the Teaching Scheme.  Action taken:  Approval from Chairman of Academic council available.

	Agenda	Discussions and Decision
Item No.		Action Taken
2.13	Recommendation for e-books	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.  a) Dr Gagandeep Kaur, Chairperson, b) Dr Kanwardeep Singh, Member (external) c) Dr Akhil Gupta, Member (internal)
		d) Dr Deepika Bhalla (Coordinator)  Action taken:
		Approval from Chairman of Academic council available.
2.14	Notification "Regarding New Programme", Ref. No. IKGPTU/REG/NF/36, dated 04/03/2020 for B. Voc. Solar System	Not to be considered for the Main/Constituent campuses.  Action taken:
	Technology of 03 Years duration	Approval from Chairman of Academic council available.
2.15	On account of the lockdown since March 2020 due to COVID-19 pandemic, discussion on:  (A) The change of pattern of	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 <b>Semester Ending Examination May 2020</b> may be conducted, if needed.
	Question paper and evaluation	On account of which there would be change in the pattern of question paper and the way to attempt it. The BoS
	(B) Propose the Names of Paper Setters for each subject.	recommends:
	(Ref. No. e-file I-15/534/2020-COE, received through email on 11 <sup>th</sup> , May 2020).	<ul> <li>(a) 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.</li> <li>(b) On clicking the SAVE AND NEXT button, the next question will appear. Provision of invigilation of online examination to be made.</li> <li>(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.</li> <li>(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.</li> <li>(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.</li> <li>(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</li> </ul>

Item No.	Agenda	Discussions and Decision Action Taken
		Cisco Webex or any other online/virtual platform. The record of the evaluation to be maintained.
		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.
		(B) The BoS (EE) approved the list of the paper setters for online/conventional semester ending Examination for May 2020 to be:  a) Names of 03-04 Question Paper Setters for each subject is proposed to the Examination Department 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). c) Each Question Paper to have two sets. d) The maximum number of Question papers/sets to be assigned to one paper setter to be 03. 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.  Action taken: Approval from Chairman of Academic council available.

Item No.	Agenda	Discussions and Decision Action Taken
2.16	To allow credit transfer to students to the extent of 20% in every semester for online courses provided through SWAYAM platform.	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.  (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.  (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.  (c) The steps are already proposed for credits earned through SWAYAM/MOOCS courses in Item no 2.12.  (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."  **Action taken:** Approval from Chairman of Academic council available.**

## C. Discussion and decision on agenda Items

Item	Agenda	Discussion and Decision
No.		
3.1	The syllabus of 6th Semester B.Tech. Programme in Electrical Engineering	The BoS discussed, revised and approved the syllabus of 6th Semester B.Tech. Programme in Electrical Engineering.
3.2	The syllabus of Open Electives (odd/even) of B.Tech. Programme in Electrical Engineering	The BoS discussed, revised and approved the syllabus Open Electives (odd/even) of B.Tech. Programme in Electrical Engineering.
3.3	To finalize the on-line SWAYAM/MOOCS courses for Honors Degree in Electrical Engineering and Minor Degree offered by Department of Electrical Engineering for the session (b) August-December 2020 (b) January-May 2021.	(b) The BoS post-facto approved the on-line SWAYAM/MOOCS courses for Honors Degree in Electrical Engineering and Minor Degree offered by Department of Electrical Engineering for the session August-December 2020 (b) The BoS discussed and finalized the courses for Honors Degree in Electrical Engineering and Minor Degree offered by Department of Electrical Engineering for the session January-May 2021.

Item	Agenda	Discussion and Decision
No. 3.4	Proposal of starting B. Tech. Minor	The BoS agreed to start a B. Tech. Minor Degree in
	Degree of in Electrical Vehicles for students pursuing Major Degree in Mechanical Engineering / Electrical Engineering as per IKGPTU/Reg/NF/2056, dated 17/05/2019, "Guidelines for Major and Minor Degree in B. Technology". IKGPTU/DAA/2347, dated 28/02/2020, "Regarding AICTE approval process handbook 20-21, Chapter VII point 7.3.2.	Electrical Vehicles for students pursuing Major Degree in Mechanical Engineering / Electrical Engineering.  The students of B.Tech. ME/B.Tech. ME (LEET) are eligible to undertake the B. Tech. Minor Degree of in Electrical Vehicles programme in 3rd semester. The programme will be offered by Department of Electrical Engineering.  The draft of the Teaching Scheme was discussed and approved and the same to be shared with BoS(ME) Main and Constituent campuses.  Request to be sent to BoS (ME) for Teaching scheme and syllabus for students pursuing Major Degree in Electrical Engineering B. Tech. who desire to opt for Minor Degree of in Electrical Vehicles programme in 3rd semester.
3.5	To make available on website the procedure for (a) Minor Degree (b) Honors Degree draft.	The BoS recommended the posting of the procedure for (a) Minor Degree (b) Honors Degree draft on website.
3.6	To approve the list of e-books for Under Graduate programme of Electrical	Deferred.

The Members of BoS (EE) authorize Chairman BoS, HoD (EE) Main Campus, Coordinator and one member of BoS to sign relevant document.

There being no further points the meeting ended with a thanks to the Chair.

## Jagdish Kumar < jagdishkumar@pec.ac.in>

To: Deepika Bhalla <deepika.bhalla89@gmail.com>

Tue, Jan 19, 2021 at 12:14 PM

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Approved

Sent from vivo smartphone

Respected All,

Please find appended the Minutes of the meeting held earlier today. The relevent documents are attached with. Your approval is requested for.

Thanks and Regards

Dr Deepika Bhalla Coordinator, BoS(EE) Main and Constituent Colleges + 9465884854 The 3<sup>rd</sup> meeting of BoS Electrical Engineering (Main Campus and Constituent Campuses) was held online (<u>Google Meet Link: https://meet.google.com/jvk-yndm-iro</u>) under the Chairmanship of Prof. (Dr) Y S Brar, on January 18, 2021, (Monday) at 11:00 am.

The meeting started with the welcome address to all the members of the BoS by the Prof. (Dr) Y S Brar, Chairman BoS(EE). The following Members were present:

- 1. Dr Y S Brar, Chairman
- 2. Dr Jagdish Kumar
- 3. Dr Yog Raj Sood
- 4. Dr J S Dhillon
- 5. Dr Gagandeep Kaur
- 6. Dr Chakardhar Reddy
- 7. Dr Kanwardeep Singh
- 8. Dr Navneet Singh Bhangu
- 9. Dr Akhil Gupta
- 10. Dr Ashwani Kumar
- 11. Dr Dilbagh Singh
- 12. Dr Naveen Kumar Sharma (special Invitee)
- 13. Dr Deepika Bhalla, Convener

A. On 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, the member of BoS were conveyed that Minutes are approved by Chairman of Academic Council, since the necessary action has been taken on them; they be closed.

B. Review of the Minutes of Meeting of the 2nd meeting (on-line) of Board of Studies (Electrical Engineering), Main and Constituent Campuses (2019-21) held on 21/05/2020.

Item No.	Agenda	Discussions and Decision Action Taken
2.1	To adopt the changes communicated for the uniformity of marks distribution of Mandatory Non-Credit Courses of B. Tech programmes on 2018 teaching scheme. (IKG-PTU/DA/2243	The marks distribution of Mandatory Non-Credit Courses of B. Tech Electrical Engineering is adopted.
	and IKG-PTU/DA/IO-1320, dated 09/12/2019 followed by IKG-PTU/DA/2316, dated 31/01/2020.	Action Taken: Information available on website.

Item	Agenda		Di		and Decision	
No.				Action	iaken	
2.2	To adopt the Syllabus of Mandatory Non-Credit Course EVS-101- 18Environmental Studies (IKG- PTU/DA/1475, dated 08/02/2019 followed by IKG-PTU/DA/2316, dated 31/01/2020)	fo A	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. Action Taken: Information available on website.			ated 08/02/2019
2.3	Item 52.04.12 of the 52 <sup>nd</sup> Academic Council meeting held on 16/01/2020. "Distribution of marks for evaluation of M. Tech. Dissertation"	10 D <b>A</b>	em 52.04.12 of the 6/01/2020. "Distribution of the contraction", is adduction Taken:  Information availation of the contraction	oution of man	rks for evalua	•
2.4	Bridge courses/additional subjects for change of branch/upgradation in 3 <sup>rd</sup> Semester to B. Tech. Electrical Engineering program.		The BoS re courses/addition branch/upgradat Engineering programme in 3 <sup>rd</sup> following Bridge	commended al subjection in 3 <sup>rd</sup> Se gram s for B. Tech	and approts for mester to B. 7	gineering
			Student opting for B. Tech EE		Bridge /	
			from B. Tech.	,	Additional cours	ses
			Computer Science Engineering Computer Engineering Civil Engineering Mechanical Engineering Electronics and Communication Engineering	(Bridge Course-I) BTAMBC1- 18	BTPH102-18 (Theory) BTPH112-18 (Laboratory)	Not applicable  BTEE-101- 18 (Theory) BTEE-102- 18 (Laboratory)
			awarded to ii) The B by the con- thought departmen iii) The te be given 2 iv) The s qualify the branch. v) The	ying course the student ridge /Addition cerned teach internal t/college/con eacher allocat hours load p student opting course with	e and no exqualifying the conal course winer allocated the evaluated the bridge er week for tear one year college/const	Il be evaluated ne said course ation at us level. course should

Item No.	Agenda	Discussions and Decision Action Taken
		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. The BoS recommended the procedure and approved Bridge courses/additional subjects for change of branch/upgradation in 3rd Semester to B. Tech. Electrical Engineering program.  Action taken: Approval from Chairman of Academic council available. Discussion and Decision in 3rd meeting of BoS Draft to be made available on website.
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.  Action taken: Approval from Chairman of Academic council available.
2.6	Item 52.08 of the 52 <sup>nd</sup> Academic Council meeting held on 16/01/2020: "Starting of one semester training for B. Tech programs in 7 <sup>th</sup> /8 <sup>th</sup> semester (Not available in model curriculum of AICTE)	Item 52.08 of the 52nd Academic Council meeting held on 16/01/2020: "Starting of one semester training for B. Tech programs in 7th/8th 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 7th or 8th Semester (Subject to approval from Competent Authority).  Action taken:  Approval from Chairman of Academic council available Draft available on website.

14	Agenda	Discussions and Decision
Item No.		Action Taken
140.		
2.7	Changes in draft of syllabus of 3 <sup>rd</sup> and 4 <sup>th</sup> 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 3rd year B.Tech. in Electrical Engineering programme.  (b) The syllabus of 5th Semester B.Tech. in Electrical Engineering programme.  (c) The draft of teaching scheme of 4th year B.Tech. in Electrical Engineering programme.  Action taken:  Approval from Chairman of Academic council available  Draft available on website.
	Course Title Course and mulliphys	(a) The DeC consisted the Course Title Course and a fi
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.	<ul> <li>(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.</li> <li>Action Taken: Information available on website. (b) The BoS proposed to adopted the syllabus of respective courses given in the "AICTE model curriculum for UG Courses Volume-II , January 2018". It was observed that Course Outcomes need to be included. The concerned BoS to provide the syllabus and COs. </li> </ul>
		Pending
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 06/032020.	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.  Action taken:  Approval from Chairman of Academic council available.  Conveyed to upload information on website.  Discussion and Decision in 3 <sup>rd</sup> meeting of BoS  All were informed that no student was permitted for Minor degree in Electrical Engineering in Academic session 2019-20 and 2020-21.  BoS(EE) decided that Minor Degree to be as per AICTE nomenclature

Item No.	Agenda	Discussions and Decision Action Taken
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 06/032020.	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.  Action taken:  Approval from Chairman of Academic council available.  Discussion and Decision in 3 <sup>rd</sup> meeting of BoS  The BoS(EE) post-facto approved the list of SWAYAM/ MOOCS for Honors Degree in Electrical Engineering for the session January-May 2020.  All were informed that no student opted for Honors degree in Electrical Engineering in Academic session 2020-21.
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 Process Handbook 2021, Chapter 7, Point 7.3.2, circulated vide Reference no IKG-PTU/DAA/2347, dated 28/02/20202)	<ul> <li>(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 Minor Degree in Electrical and Computer Engineering.</li> <li>(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.</li> <li>Action taken: <ul> <li>Approval from Chairman of Academic council available.</li> <li>Discussion and Decision in 3<sup>rd</sup> meeting of BoS</li> <li>Request to be sent to BoS(CSE)</li> </ul> </li> </ul>

	Agenda	Discussions and Decision
Item		Action Taken
No.		
	Procedure for (a) Minor Degree (b)	The BoS recommended for approval:
2.12	Honors Degree	(a) Student to opt for Minor degree in relevant programme in
	Tionors begree	3rd semester and for Honors Degree in 5th Semester.
		(b) Students having no backlog of 1st semester and 2nd
		semester can opt for Minor Degree in Electrical and Computer
		Engineering in the 3rd semester. Students having no backlog of
		3rd semester and 4th semester can opt for Honors Degree in B.
		Tech. Electrical Engineering in the 5th 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.
		v) On obtaining the minimum credits the student will be eligible
		for (a) Minor Degree (b) Honors Degree in relevant
		programme.
		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 as per the list
		provided by BoS for this purpose. (b) Honors degree from
		Professional Elective Courses other than those taken up for
		the concerned B.Tech Programme.
		(c)The list of (i) Professional Core Courses (ii) Professional
		Elective Courses, clearly indicating odd and even semester is
		available in the Teaching Scheme.  Action taken:
		Approval from Chairman of Academic council available.
	<u>l</u>	Approver from official of Academic council available.

	Agenda	Discussions and Decision
Item No.		Action Taken
2.13	Recommendation for e-books	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.  a) Dr Gagandeep Kaur, Chairperson, b) Dr Kanwardeep Singh, Member (external) c) Dr Akhil Gupta, Member (internal)
		d) Dr Deepika Bhalla (Coordinator)  Action taken:
		Approval from Chairman of Academic council available.
2.14	Notification "Regarding New Programme", Ref. No. IKGPTU/REG/NF/36, dated 04/03/2020 for B. Voc. Solar System	Not to be considered for the Main/Constituent campuses.  Action taken:
	Technology of 03 Years duration	Approval from Chairman of Academic council available.
2.15	On account of the lockdown since March 2020 due to COVID-19 pandemic, discussion on:  (A) The change of pattern of	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 <b>Semester Ending Examination May 2020</b> may be conducted, if needed.
	Question paper and evaluation	On account of which there would be change in the pattern of question paper and the way to attempt it. The BoS
	(B) Propose the Names of Paper Setters for each subject.	recommends:
	(Ref. No. e-file I-15/534/2020-COE, received through email on 11 <sup>th</sup> , May 2020).	<ul> <li>(a) 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.</li> <li>(b) On clicking the SAVE AND NEXT button, the next question will appear. Provision of invigilation of online examination to be made.</li> <li>(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.</li> <li>(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.</li> <li>(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.</li> <li>(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</li> </ul>

Item No.	Agenda	Discussions and Decision Action Taken
		Cisco Webex or any other online/virtual platform. The record of the evaluation to be maintained.
		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.
		(B) The BoS (EE) approved the list of the paper setters for online/conventional semester ending Examination for May 2020 to be:  a) Names of 03-04 Question Paper Setters for each subject is proposed to the Examination Department 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). c) Each Question Paper to have two sets. d) The maximum number of Question papers/sets to be assigned to one paper setter to be 03. 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.  Action taken: Approval from Chairman of Academic council available.

Item No.	Agenda	Discussions and Decision Action Taken
2.16	To allow credit transfer to students to the extent of 20% in every semester for online courses provided through SWAYAM platform.	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.  (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.  (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.  (c) The steps are already proposed for credits earned through SWAYAM/MOOCS courses in Item no 2.12.  (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."  **Action taken:** Approval from Chairman of Academic council available.**

## C. Discussion and decision on agenda Items

Item	Agenda	Discussion and Decision
No.		
3.1	The syllabus of 6th Semester B.Tech. Programme in Electrical Engineering	The BoS discussed, revised and approved the syllabus of 6th Semester B.Tech. Programme in Electrical Engineering.
3.2	The syllabus of Open Electives (odd/even) of B.Tech. Programme in Electrical Engineering	The BoS discussed, revised and approved the syllabus Open Electives (odd/even) of B.Tech. Programme in Electrical Engineering.
3.3	To finalize the on-line SWAYAM/MOOCS courses for Honors Degree in Electrical Engineering and Minor Degree offered by Department of Electrical Engineering for the session (b) August-December 2020 (b) January-May 2021.	(b) The BoS post-facto approved the on-line SWAYAM/MOOCS courses for Honors Degree in Electrical Engineering and Minor Degree offered by Department of Electrical Engineering for the session August-December 2020 (b) The BoS discussed and finalized the courses for Honors Degree in Electrical Engineering and Minor Degree offered by Department of Electrical Engineering for the session January-May 2021.

Item No.	Agenda	Discussion and Decision
3.4	Proposal of starting B. Tech. Minor Degree of in Electrical Vehicles for students pursuing Major Degree in Mechanical Engineering / Electrical Engineering as per IKGPTU/Reg/NF/2056, dated 17/05/2019, "Guidelines for Major and Minor Degree in B. Technology". IKGPTU/DAA/2347, dated 28/02/2020, "Regarding AICTE approval process handbook 20-21, Chapter VII point 7.3.2.	programme will be offered by Department of Electrical
3.5	To make available on website the procedure for (a) Minor Degree (b) Honors Degree draft.	The BoS recommended the posting of the procedure for (a) Minor Degree (b) Honors Degree draft on website.
3.6	To approve the list of e-books for Under Graduate programme of Electrical	Deferred.

The Members of BoS (EE) authorize Chairman BoS, HoD (EE) Main Campus, Coordinator and one member of BoS to sign relevant document.

There being no further points the meeting ended with a thanks to the Chair.