

1.1.2 Percentage of programmes where syllabus revision was carried out during the last five years (20)

ICD	0%
UG	66%
PG	100%
Average	55%

1.2.2 Percentage of programs in which Choice Based Credit System (CBCS)/elective course system has been implemented (Data for the latest completed academic year)

Programme Code	Programme name	Year of Introduction	Status of implementation of CBCS / elective course system (Yes/No)	Year of implementation of CBCS / elective course system	Year of revision (if any)	If revision has been carried out in the syllabus during last 5 years, Percentage of content added or replaced	Link to the relevant document
ICD	Diploma in Mechanical	2014	Yes	2014			http://mech.sliet.ac.in/files/2022/10/syllabus- ICD_ME.pdf http://mech.sliet.ac.in/files/2012/02/ICD-SCHEME-MECHANICAL2.pdf
UG-GME	B.Tech. in Manufacturing Engineering	2014	Yes	2014	2016 and 2018; Dropped in 2019 and merged in Mechanical Engineering	9%	http://mech.sliet.ac.in/files/2021/02/UG-Scheme-GME-2016-onward.pdf http://mech.sliet.ac.in/files/2021/04/Syllabus-UG-2016-Manufacturing-batch-as-on-29.03.2021.pdf http://mech.sliet.ac.in/files/2022/10/UG-2018-Scheme-Manufacturing-.pdf http://mech.sliet.ac.in/files/2022/10/UG-2018-syllabus-Manufacturing-Engineering.pdf
UG-GWT	B.Tech. in Welding Technology	2014	Yes	2014	2017 and 2018; Dropped in 2019 and merged in Mechanical Engineering	9%	http://mech.sliet.ac.in/files/2012/02/UG-Scheme-GWT2.pdf http://mech.sliet.ac.in/files/2021/04/Syllabus-UG-2016-Welding-batch-as-on-29.03.2021.pdf http://mech.sliet.ac.in/files/2022/10/UG-2018-syllabus-Welding-Technology-.pdf http://mech.sliet.ac.in/files/2022/10/UG-2018-Scheme-Welding-Technology-.pdf
UG	B.Tech. in Mechanical Engineering	2019	Yes	2019			http://mech.sliet.ac.in/files/2020/01/UG-Scheme-2018-onwards.pdf http://mech.sliet.ac.in/files/2021/04/Updated-UG-2019-onward-syllabus-Mechanical-as-on-29.03.2021.pdf
PGMSE	Manufacturing Systems Engineering	2002	Yes	2002	2018	26%	http://mech.sliet.ac.in/files/2021/02/PGMSE-before-2018-batches.pdf http://mech.sliet.ac.in/files/2021/02/PGMSE-Study-Scheme-as-on-23_7_2018-.pdf
PGWLF	M.E. in Welding and Fabrication	2010	Yes	2010	2018	26%	http://mech.sliet.ac.in/files/2021/02/PGWLF-before-2018-batches.pdf http://mech.sliet.ac.in/files/2021/02/PGWLF-Study-scheme-as-on-23_7_2018.pdf



Sant Longowal Institute of Engg. & Technology
(Deemed to be University u/s 3 of the UGC Act, 1956)
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(Established by : MHRD, Govt. of India)
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OFFICE OF DEAN (ACADEMICS)

Ref. No. SLIET/Dean (A) / 2019 / 877

12 July, 2019

To

All Members of the Senate,
SLIET, Longowal.

Subject : Minutes of the 25th meeting of the Senate of SLIET, Longowal – regarding –

Sir/Madam,

Kindly refer to the subject cited above.

Enclosed please find herewith a copy of the minutes of the 25th meeting of the Senate of Sant Longowal Institute of Engineering and Technology (SLIET), Longowal, held on 08.07.2019, at 11.30 AM, in the Senate Hall, administrative block of the Institute.

The minutes have been approved by the Chairman, Senate (Director, SLIET).

It is requested to send your comments, if any, within fifteen days from the date of issuance of this letter.

Regards,

Yours sincerely,

(Dr. Harish Kumar Chopra)
Registrar (Ofg) – cum –
Member Secretary, Senate.

Encl : As above.

	placed at <u>Annexure - "E" (page 39 to 45)</u> . The matter is placed before the Senate, for consideration and decision, please.
	<u>Decision</u> <i>The Senate resolved to continue with the existing provisions / rules.</i>
Item 25.8	TO CONSIDER REQUEST OF MR. SHIVAM AYUSH FOR RE-ADMISSION IN THE INSTITUTE A studently, namely,, Mr. Shivam Ayush was studying at SLIET in ICD program (DME/CWG/1810577 – Mech. Engg). Consequent upon request made by the student, on medical grounds, for withdrawal of admission, his name was struck off from the Institute rolls vide letter No. SLIET/AS/2858 dated 26.04.2019. Later on, he submitted a fresh application in the academic section on 30.05.2019, that he wants to continue his studies at SLIET. The request of the student / his father along with recommendations of HOD (ME) is placed at <u>Annexure - "F" (page 46 to 51)</u> . The rule related to withdrawal of studentship Rule D1.3.7 is re-produced below :- <i>"A student may withdraw his studentship/candidature from the Institute at any time on his request on the prescribed proforma. The Institute leaving certificate will be issued and caution money will be refunded to the student on submission of duly completed and prescribed 'No Due Certificate Form'. A student once withdrawing his admission from the Institute and wants to get admission again, he may do so by appearing as a fresh candidate".</i> The matter is placed before the Senate for deliberations and decision, please.
	<u>Decision</u> <i>The Senate discussed various aspects of the case and decided to follow the existing rules in this regard.</i>
Item 25.9	TO CONSIDER AND APPROVE SECOND YEAR SCHEME AND SYLLABUS OF UG PROGRAMS BASED ON AICTE MODEL CURRICULUM 2018 The skelton of UG Study Scheme (Group-A and Group-B) was circulated to all the HODs through email dated 25.06.2019. They were informed that according to skelton, the scheme may be adjusted and the same shall be approved by the Senate in its 25 th meeting to be held on 08.07.2019. Further, as decided in the 24 th meeting of the Senate held on 31.05.2019, vide Item No. 24.5, the minor degree concept is to be reviewed. Accordingly, all HODs may suggest minor degree program similar to the Hons degree program. The second year scheme and syllabus of the UG programs as per AICTE Model Curriculum 2018, as prepared by HODs, shall be placed before the Senate on the day of the meeting, i.e. 08.07.2019, for approval, please.
	<u>Decision</u> <i>The second year study scheme along with syllabus is approved for adoption. The Senate has also approved the study scheme of PG programs, in principle, as are being offered by the academic departments.</i> <i>Further, HODs are requested to put up the complete study scheme along with full syllabus of UG & PG programs with BOS recommendations, in the next meeting of the Senate.</i>

sub.: Approval for external members for proposed BOS meeting of Mechanical Engineering department

The competent authority on 25/04/2018, had approved Board of Studies (BOS) for Mechanical Engineering department. The meeting has to be conducted soon to finalize scheme of UG and PG programmes.

Sh. Pratush Bhaskar, DM, Swaraj Tractor, M & M, Mohali was approved as external member from industry. As he is pre-occupied, he shall not be available for the meeting. In view of this following external members from industry are proposed for the BOS of Mechanical Engineering Department.

- ✓ 1. Mr. Sunil Gupta, Senior Manager, International Tractor Limited, Hoshiarpur.
- ✓ 2. Sh. Gagan Geet Gulati, Mechanical Engineer, Ghantod Group (Oil and Gas Division), Abu Dhabi, UAE.

It is further submitted that Dr. Pardeep Kumar, Prof. (MIE), IIT, Roorkee has already been approved as external member from academics. Three ^{one} Alumni are also participating in the BOS meeting as per approval.

It is requested that TA/DA and seating fee for above experts from industry and academics may be approved. It is also requested that TA/DA may be approved for three alumni.

- ~~Dean (Acad)~~ Amul
12/6/18

Send
12/06/18
HOD (ME)

Director 12/6/18

Dean (Acad)/HOD (M.E)

Sh. Gautam Malik shall attend BOS meeting as an alumni.

2
12/06/18

Subject: Approval of the proposed board of studies, for Mech. Engg. Department (ICD, UG & PG):

As directed by Dean(A), following BOS for Mechanical Engg. Department is being constituted. The proposed BOS is being submitted for approval, please.

1. HOD(Mech.)Ex-Officio	Chairman
2. Dr. V. Sahni, Professor ✓	Member
3. Dr. Pardeep Gupta, Professor	Member
4. Dr. P.K.Singh, Professor ✓	Member
5. Dr. Rajesh Kumar, Professor	Member
6. Dr. A.S.Shahi, Professor ✓	Member
7. Dr. Shankar Singh, Professor	Member
8. Dr. R.K.Saxena, Professor ✓	Member
9. Dr. Jagtar Singh, Professor	Member
10. Sh. Amrik Singh, ASP ✓	Member
11. Sh. Anil Singla, ASP ✓	Member
12. Sh. Sunil Kumar, AP	Member
13. Sh. Mohd. Majid, AP	Member

External Member from Academic

14. Dr. Pankaj Chandna, Prof. (ME), NIT Kurukshetra	Member
15. Dr. Pardeep Kumar, Prof. (ME), IIT, Roorkee	Member
16. N.M.Suri, Professor, PEC University, Chandigarh	Member

External Member from Industry

17. Sh. Amit Kumar Jindal, Sr. GM, Hawkin Cooker Ltd. Hoshiarpur	Member
18. Sh. Gurdeep Singh Grewal, Fedrel Moughal, Patiala	Member
19. Sh. Pratush Bhaskar, DM, Swaraj Tractor, M&M, Mohali	Member

20. Topper Student (will be invited as and when date of BOS meeting is fixed)
21. Parent of concurrent student (will be invited as and when date of BOS meeting is fixed)
22. 03 Alumni (will be invited as and when date of BOS meeting is fixed)

Submitted for approval, please.

K
13/4/18
HOD(ME)

DEAN(ACADEMICS)

Director

21/4/18

16/4/18

Dean(A)

23/4/18

HOD Mech/Engg

Minutes of BOS meeting regarding teaching scheme of UG and PG Programmes of Mechanical Engineering department

A meeting of BOS of Mechanical Engineering Department was held on 14-06-2018 in the office of HOD (ME). The teaching schemes of PG and UG programs modified as per the provisions of AICTE were discussed. Following are the recommendations:

- The Nomenclature of PG program will be as given below:
 - I. Manufacturing System Engineering
 - II. Welding Engineering
- The existing nomenclature of UG program are as follows:
 - I. Mechanical Engineering (Manufacturing Engineering)
 - II. Mechanical Engineering (Welding Technology)

The problems faced by the students related to existing nomenclature of the UG programmes were discussed at length. Many members shared the information related to it. In view of the complications arising out of nomenclature and in the interest of the students, the UG programme should be offered in "**Mechanical Engineering**". It will provide wide/diversified options to the Engineering graduates of Mechanical Engineering when they apply for PG programme through CCMT or apply for a job in the industry.

B.E. (Mechanical Engineering) will have 160 credits as per new AICTE norms. Since the department has strengths in the area of manufacturing engineering and welding technology, it will offer subjects in these areas so that students may opt B.E. (Honors) with specialization in (a) Manufacturing Engineering or (b) Welding Technology after completion of 2nd year by earning 20 additional credits and eligibility criteria for honor degree may be decided at the institute level. It may be implemented from the academic session 2018-19.

- The teaching scheme along with syllabi for the modified UG and PG programs have been discussed at length and finalized.

The final teaching schemes of PG and UG programs as per above recommendations are enclosed for approval.

Dr. Sunil Kumar

Anil Kr. Singla

Amrik Singh

Dr. Jagtar Singh

Dr. R.K. Saxena

Dr. Kulwant Singh

Dr. P.K. Singh

Dr. Pardeep Gupta

Dr. V Sahni

Student

Gautam Malik (Alumni)

Devendra Singh (Parent)

Sunil Gupta (International Tractor Ltd.)

Dr. Pradeep Kumar (IIT Roorkee)

14.6.18

HOD (Mechanical Engg.)

Study Scheme for PG in Manufacturing Systems Engineering

Semester I

S.No	Sub. Code	Subject Name	L	T	P	Hrs	CREDITS
1.	PCME-811	Advance Manufacturing Processing	3	0	0	3	3
2.	PCME-812	Industrial Automation	3	0	0	3	3
3.	PEME-811	Core Elective -1	3	0	0	3	3
4.	PEME-812	Core Elective-2	3	0	0	3	3
	OE**-811	Open Elective	3	0	0	3	3
5.	RM-811	Research Methodology and IPR	2	0	0	2	2
6.	MC-811	Audit Course-1	2	0	0	2	0
7	PCME-813	Advance Manufacturing Processing lab.	0	0	2	2	1
8.	PCME-814	Industrial Automation lab	0	0	2	2	1
9	PEME-813	Core Elective Lab -1	0	0	2	2	1
10	PEME-814	Core Elective Lab -2	0	0	2	2	1
			19		8	27	21

Semester II

S.No	Sub. Code	Subject Name	L	T	P	Hrs	CREDITS
1.	PCME-821	Modeling and Simulation	3	1	0	4	4
2.	PCME-822	Computer Integrated Manufacturing	3	0	0	3	3
3.	PEME-821	Core Elective -3	3	0	0	3	3
4.	PEME-822	Core Elective -4	3	0	0	3	3
	PEME-823	Core Elective -5	3	0	0	3	3
5.	MC-821	Audit Course	2	0	0	2	0
6.	PCME-823	Modeling and Simulation lab	0	0	2	2	1
7	PCME-824	Computer Integrated Manufacturing Systems lab	0	0	2	2	1
8	PEME-824	Core Elective Lab -1	0	0	2	2	1
	PEME-825	Core Elective lab -2	0	0	2	2	1
9	PCME-825	Seminar	0	0	2	2	1
			17		10	28	21

Students are to be encouraged to go to industrial training / Internship during summer break

Semester III

S.No	Sub. Code	Subject Name	L	T	P	CREDITS
1.	-----	Dissertation (Part-1)	0	0	32	16
						16

Semester IV


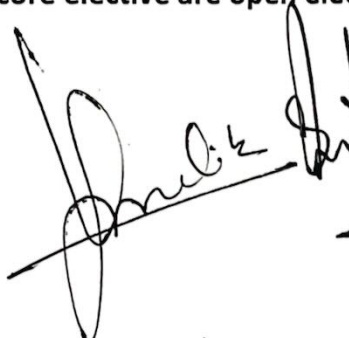
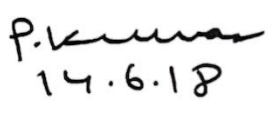

S.No	Sub. Code	Subject Name	L	T	P	CREDITS
1.	-----	Dissertation (Part-2)	0	0	32	16
						16


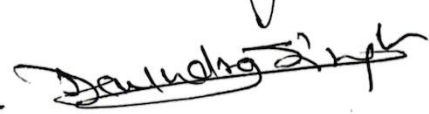



The bottom section of the page contains several handwritten signatures and initials. On the left, there is a signature that appears to be 'M. Singh'. In the center, there is a large, stylized signature that looks like 'Ran Singh'. To the right of this, there is a signature that says 'P. Kumar'. Further right, there is a signature that says 'Anurag'. On the far right, there is a signature that says 'K. S. Singh'. There are also some other smaller initials and marks scattered around.



Core Elective 1		
PEME-811 (A) Computer Aided Design (CAD)	PEME-811(B) Robotics	PEME-811(C) Supply Chain Management
Core Elective 2		
PEME-812 (A) Design of Experiments	PEME-812(B) Machine Tool Design	PEME-812(C) Maintenance Engineering
Core Elective 3		
PEME-821 (A) Advanced Optimization Techniques	PEME-821 (B) Product Design and Development	PEME-821 (C) Industrial Engineering
Core Elective 4		
PEME-822 (A) Quality Management	PEME-822 (B) Non-conventional Machining Processes	PEME-822 (C) Flexible Manufacturing System (FMS)
Core Elective 5		
PEME-823 (A) Additive Manufacturing	PEME-823 (B) Measurement and instrumentation	PEME-823 (C) Processing of Composites

Open Elective

All core subjects and core elective are open elective for other Programs.

Study Scheme for PG in **Welding Technology** *Engineering*

Semester I

S.No	Sub. Code	Subject Name	L	T	P	Hrs	CREDITS
1.	PCME-815	Conventional Welding Processes	3	0	0	3	3
2.	PCME-816	Inspection and Testing of Welds	3	0	0	3	3
3	PCME-817	Welding Metallurgy	3	0	0	3	3
4	PEME-815	Core Elective -1	3	0	0	3	3
5	OE**-811	Open Elective	3	0	0	3	3
6	RM-811	Research Methodology and IPR	2	0	0	2	2
7	MC-811	Audit Course-1	2	0	0	2	0
8	PCME-818	Conventional Welding Processes Lab	0	0	4	4	2
9	PCME-819	Welding Metallurgy Lab	0	0	2	2	1
10	PEME-816	Core Elective –I Lab	0	0	2	2	1
			19		8	27	21

Semester II

S.No	Sub. Code	Subject Name	L	T	P	Hrs	CREDITS
1.	PCME-821	Modeling and Simulation	3	1	0	4	4
2.	PCME-826	Design of Welded Structures	3	0	0	3	3
4.	PCME-827	Advance Welding Process	3	0	0	3	3
5	PEME-826	Core Elective-2	3	0	0	3	3
6	PEME-827	Core Elective -3	3	0	0	3	3
5.	MC-821	Audit Course	2	0	0	2	0
6.	PCME-828	Modeling and Simulation lab	0	0	2	2	1
8	PEME-828	Core Elective Lab	0	0	2	2	1
	PCME-829	Advance Welding Process	0	0	4	4	2
9	PCME-829	Seminar	0	0	2	2	1
			17	1	10	27	21

Students are to be encouraged to go to industrial training / Internship during summer break

Semester III

S.No	Sub. Code	Subject Name	L	T	P	CREDITS
1.	-----	Dissertation (Part-1)	0	0	32	16
						16

Semester IV

S.No	Sub. Code	Subject Name	L	T	P	CREDITS
1.	-----	Dissertation (Part-2)	0	0	32	16
						16

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 M. Dauro Singh KVS Arudi ditto
 Singh gk gk gk gk
 P. Kumar.
 14.6.18 gk gk gk gk

Core Elective 1 -- (Semester I)		
PEME-811(D) Physical Metallurgy	PEME-811(B) Robotics	PEME-811(E) Weldability of Engineering Materials
Core Elective 2 (Semester II)		
PEME-821 (A) Advanced Optimization Techniques	PEME-821 (D) Surface Engineering	PEME-821 (C) Industrial Engineering
Core Elective 3 (Semester II)		
PEME-822 (A) Quality Management	PEME-822 (D) Welding Codes and Standards	PEME-822 (C) Flexible Manufacturing System (FMS)

PEME-811(E) Weldability of Engineering Materials

PEME-821 (C) Industrial Engineering

PEME-822 (C) Flexible Manufacturing System (FMS)

All core subjects and core elective are open elective for other Programs.

All core subjects and core elective are open elective for other Programs.

Study Scheme of UG Programme in "Mechanical Engineering"

Semester-I Group-B (***)

S No	Sub Code	Subject Name	L	T	P	Hrs.	Credits
1	BSMA-401	Engineering Mathematics I	3	1	0	4	4
2	BSCH-401	Applied Chemistry	3	1	0	4	4
3	ESME-401	Elements of Mechanical Engineering	2	1	0	3	3
4	ESME-402	Workshop Technology and Practice	1	0	0	1	1
5	HSMC-401	English Communication and Soft Skills	1	0	0	1	1
6	BSCH-402	Applied Chemistry Lab	0	0	2	2	1
7	ESME-403	Elements of Mechanical Engineering Lab	0	0	2	2	1
8	ESME-404	Engineering Drawing	0	0	4	4	2
9	ESME-405	Workshop Technology and Practice Lab	0	0	4	4	2
10	HSMC-402	English Communication and Soft Skills Lab	0	0	2	2	1
11	MC-401	Mandatory Course-1	3	0	0	3	0
Total			13	3	14	30	20

Semester-II Group-B (***)

S No	Sub Code	Subject Name	L	T	P	Hrs.	Credits
1	BSMA-402	Engineering Mathematics II	3	1	0	4	4
2	BSPH-401	Applied Physics	3	1	0	4	4
3	ESEE-401	Elements of Electrical Engineering	2	1	0	3	3
4	ESCS-401	Elements of Computer Engineering	2	0	0	2	2
5	ESEC-401	Elements of Electronics Engineering	2	0	0	2	2
6	BSPH-402	Applied Physics Lab	0	0	2	2	1
7	ESEE-402	Elements of Electrical Engineering Lab	0	0	2	2	1
8	ESCS-402	Elements of Computer Engineering Lab	0	0	4	4	2
9	ESEC-402	Elements of Electronics Engineering Lab	0	0	2	2	1
Total			12	3	10	25	20

Semester-III-A Group-B (***)

	TPIN-511	Practical Training During Summer Vacations (In-house) 02 weeks				80	2 (S/US)
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Semester-III-B Group-B (***)

S No	Sub Code	Subject Name	L	T	P	Hrs.	Credits
1	ESME-501	Engineering Mechanics	3	1	0	4	4
2	PCME-511	Applied Thermodynamics	3	1	0	4	4
3	PCME-512	Manufacturing Processes	3	0	0	3	3
4	PCME-513	Fluid Mechanics and Machinery	3	1	0	4	4
5	HSMC-501	Principles of Management	3	0	0	3	3
6	PCME-514	Applied Thermodynamics Lab	0	0	2	2	1
7	PCME-515	Fluid Mechanics and Machinery Lab	0	0	2	2	1
8	MC-501	Mandatory Course-2	3	0	0	3	0
Total			18	3	4	25	20

P. Kumar 14/6/18

Semester-IV Group-B (***)

S No	Sub Code	Subject Name	L	T	P	Hrs.	Credits
1	BSMA-501	Numerical and Statistical Methods	3	0	0	3	3
2	PCME-521	Physical Metallurgy	2	0	0	2	2
3	PCME-522	Kinematics of Machines	3	0	0	3	3
4	PCME-523	Strength of Material	3	1	0	4	4
5	BSBL-501	Biology for Engineers	2	0	0	2	2
6	BSMA-501	Numerical and Statistical Methods Lab	0	0	2	2	1
7	PCME-524	Kinematics of Machines Lab	0	0	2	2	1
8	PCME-525	Strength of Material Lab	0	0	2	2	1
9	PCME-526	Machine Drawing	0	0	4	4	2
10	PCME-527	Physical Metallurgy & Heat Treatment Lab	0	0	2	2	1
		Total	13	2	10	25	20
10*	B						4

Semester-V-A Group-B (***)

TPID-611	Industrial Training 02 weeks				80	2 (S/US)
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Semester-V-B Group-B (***)

S No	Sub Code	Subject Name	L	T	P	Hrs.	Credits
1	PCME-611	Machine Design-I	3	1	0	4	4
2	PCME-612	Measurement and Instrumentation	3	0	0	3	3
3	OE**-611	Open Elective-1	3	0	0	3	3
4	OE**-612	Open Elective-2	3	0	0	3	3
5	PEME-611	Professional Elective-1	3	0	0	3	3
6	HSMC-603	Engineering Economics and Entrepreneurship	3	0	0	3	3
7	PCME-613	Measurement and Instrumentation Lab	0	0	2	2	1
		Total	18	1	2	21	20

Semester-VI Group-B (***)

S No	Sub Code	Subject Name	L	T	P	Hrs.	Credits
1	PCME-621	Heat & Mass Transfer	3	0	0	3	3
2	PCME-622	Principle of Industrial Engineering	4	0	0	4	4
3	OE**-621	Open Elective-3	3	0	0	3	3
4	OE**-622	Open Elective-4	3	0	0	3	3
5	PEME-621	Professional Elective-2	3	0	0	3	3
6	HSMC-601	Technical Communication	2	0	0	2	2
7	PCME-623	Heat & Mass Transfer	0	0	2	2	1
8	HSMC-602	Technical Communication Lab	0	0	2	2	1
		Total	17	0	6	23	20

Semester-VIIA Group-B (***)

TPID-711	Industrial Training 04 weeks				160	4 (S/US)
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Semester-VIIB Group-B (***)

P. Kumar

 14/6/19

S No	Sub Code	Subject Name	L	T	P	Hrs.	Credits
1	PCME-711	CAD/CAM	3	0	0	3	3
2	PCME-712	Machine Design-II	3	1	0	4	4
3	OE**-711	Open Elective-5	3	0	0	3	3
4	PEME-711	Professional Elective-3	3	1	0	4	4
5	PEME-712	Professional Elective-4	3	0	0	3	3
6	PCME-713	CAD/CAM Lab	0	0	2	2	1
7	PROJME-711	Project Stage I and Seminar	0	0	4	4	2
Total			15	2	6	23	20

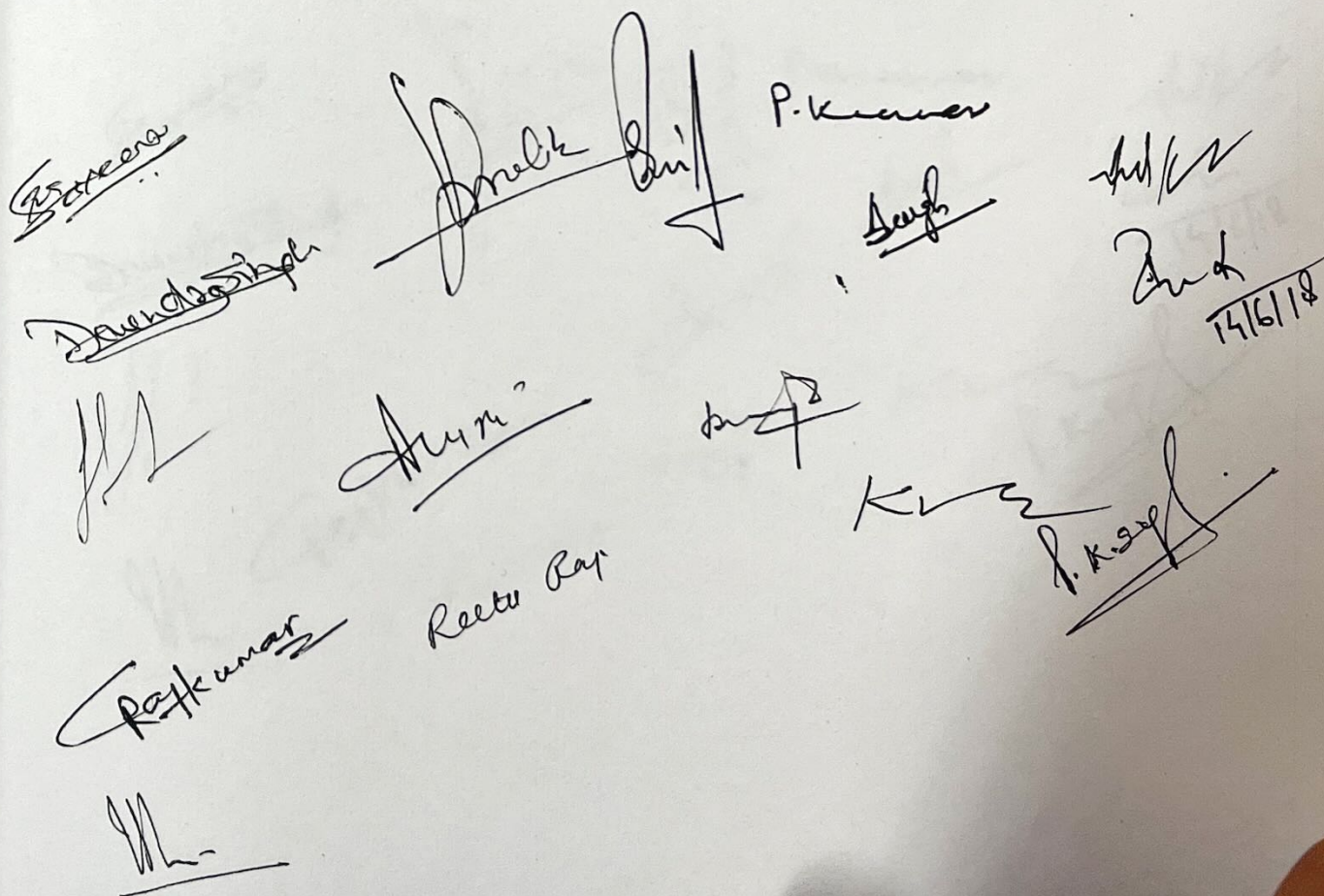
Semester-VIII Group-B (***)							
S No	Sub Code	Subject Name	L	T	P	Hrs.	Credits
1	PEME-721	Professional Elective-5	3	0	0	3	3
2	PEME-722	Professional Elective-6	3	0	0	3	3
3	PROJME-721	Project Stage II	0	0	12	12	6
Total			6	0	12	18	12

OR

S No	Sub Code	Subject Name	L	T	P	Hrs.	Credits
1	INID-721	Internship in Industry					
2	PROJME-721	Project Stage II	0	0	12	12	
Total			6	0	12	18	

Open Elective:

All core subjects and core electives are open elective for other Programs.



 P. Kumar

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 Reetu Ray

 P. Kumar

PEME-611	Professional Elective- 1
A	Power Plant Engineering
B	Advanced Strength of Material
C	Theory of Metal Cutting

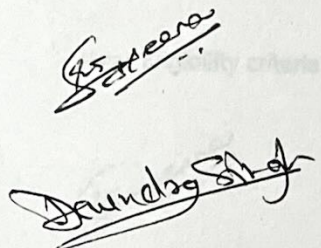
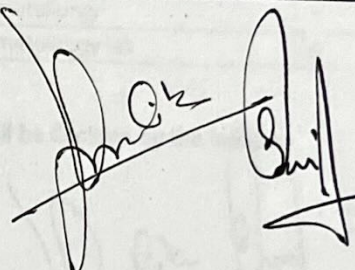
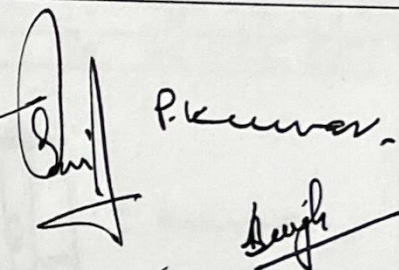
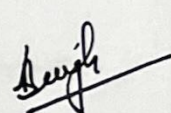
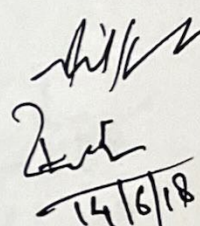
PEME-621	Professional Elective- 2
A	Automobile Engineering
B	Dynamics of Machines
C	Conventional Welding Processes

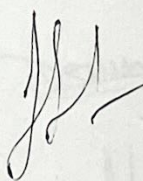
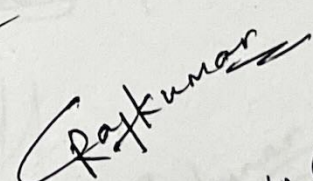
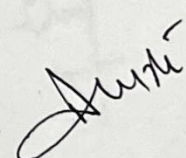
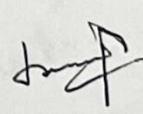
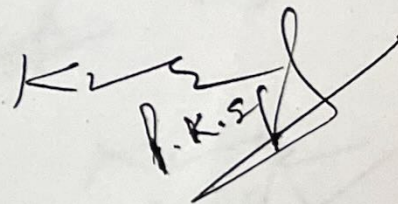
PEME-711	Professional Elective- 3
A	Refrigeration & Air Conditioning
B	Optimization Technique
C	Finite Element Method (FEM)

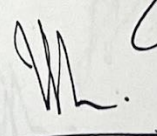
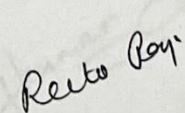
PEME-712	Professional Elective- 4
A	Non Conventional Energy Resources
B	Flexible manufacturing System(FMS)
C	Supply Chain Management

PEME-721	Professional Elective- 5
A	Cryogenic Engineering
B	Industrial Automation
C	Safety Engineering

PEME-722	Professional Elective- 6
A	Robotics
B	Quality Engineering
C	Energy Auditing

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Note: * For Honor degree in Mechanical Engineering

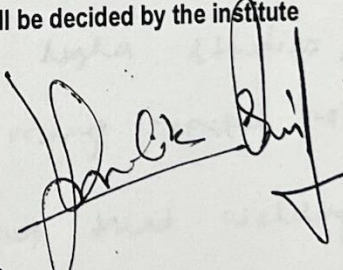
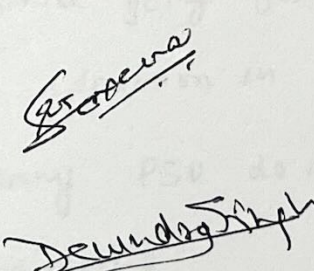
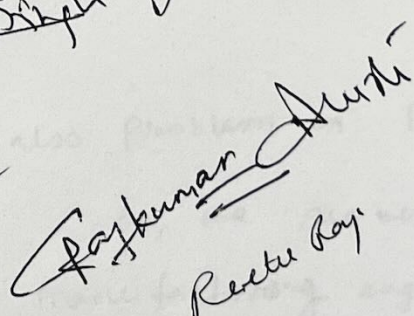
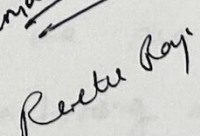
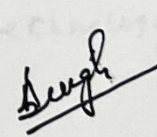
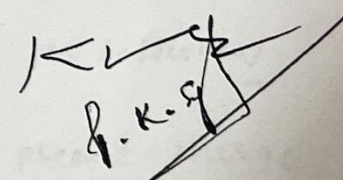
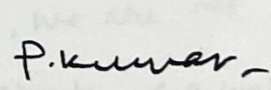
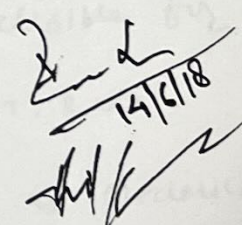
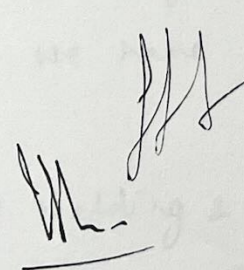
*Manufacturing Engineering (List of subjects to be offered for honor degree)

Subject Code:	List of Professional Elective	L	T	P	Hrs.	Cr
V sem	Advance Manufacturing Processes	3	0	0	3	3
V sem	Advance Manufacturing Processes Lab	0	0	2	2	1
V sem	Modeling and Simulation	3	0	0	3	3
V sem	Modeling and Simulation lab	0	0	2	2	1
VI sem	Advanced Metal Cutting & Forming	3	0	0	3	3
VI sem	Advanced Metal Cutting & Forming lab	0	0	2	2	1
VI sem	Tool Design	3	1	0	4	4
VII sem	Non-Conventional Machining	3	0	0	3	3
VII sem	Non-Conventional Machining lab	0	0	2	2	1

*Welding Technology (List of subjects to be offered for Honor Degree)

Subject Code:	List of Professional Elective	L	T	P	Hrs.	Cr
V sem	Advance Welding Processes	3	0	0	3	3
V sem	Advance Welding Processes lab	0	0	4	4	2
V sem	Welding codes and standards	3	0	0	3	3
VI sem	Inspection and testing of welds	3	0	0	3	3
VI sem	Inspection and testing of welds lab	0	0	2	2	1
VI sem	Design of Welds	3	1	0	4	4
VII sem	Welding metallurgy	3	0	0	3	3
VII sem	Welding metallurgy lab	0	0	2	2	1

Note: Eligibility criteria will be decided by the institute

 P. Kumar
 Devidas Singh
 Rajkumar
 Renu Ray
 Singh
 P. K. S.
 P. Kumar
 P. Kumar
 P. Kumar