Minutes of meeting of 6th Board of Studies Meeting of Production Engineering on 03-06-2019

A meeting of BOS (Production Engg.) was held on 03-06-2016 at 12.15PM in Production Engineering Dept.. The following members were present.

- Dr. J.S.Grewal, Prof. & Head P.E (Co-ordinator)
- Dr. Rupinder Singh, Prof. P.E (Internal member)
- Dr. Harpuneet Singh Asst. Prof. P.E (Internal member)
- Dr. Jagdeep Singh, Asst. Prof. P.E (Internal member)
- Dr. Harwinder Singh Prof. M.E (Internal member)
- Dr. O.P.Singh, Prof. M.E BCET Gurdaspur (External member academic)
- Dr. Dixit Garg, Prof. M.E NIT KKR (External member academic)
- Sh. Jagjeet Singh, Alumni cum Parents representative
- Dr. Sanjeev Kumar, Prof. M.E PEC Chandigarh (External member academic) via Skype
- Dr. Sandeep Grover Prof. M.E YMCA Univ. of Sc. & Tech. Fbd. (PTU nominee) via Skype
- Mr. Aman Bhartee (Final Yr. B.Tech. student)
- Mr. Gurchetan Singh (Final Yr. M.Tech student)
- Apprising the Board of Studies about 3rd and 4th semester syllabus and complete scheme of U.G. and P.G Production Engineering programme.

Approved

2. Finalising the content and scheme of summer training.

Approved

Chairman (BOS), P.E

List of BOS members

S.No.	Name	Designation	Signature
1.	Dr. J.S.Grewal, Prof. & Head P.E	Chairman	J3 Green 3 16/18
2.	Dr. Rupinder Singh, Prof. P.E	Member	K
3.	Dr. Harpuneet Singh, Asst. Prof. P.E	Member	Jm2 316/19
4.	Dr. Jagdeep Singh, Asst. Prof.P.E	Member	Perm
5.	Dr. Harwinder Singh Prof. M.E	Member	His
6.	Dr. Jatinder Kapoor Prof. M.E	Member	
7.	Dr. O.P.Singh, Prof. M.E	External Member (Academician)	0110
8.	Dr. Senjeev Kumar, Prof. M.E	External Member (Academician) (via Skype)	~
9.	Dr. Dixit Garg Prof. M.E	External Member (Academician)	83/11
10.	Sh. Jagjeet Singh	Industrialist, Alumni cum Parents representative (Special invitee)	7.000
11.	Dr. Sandeep Grover	IKGPTU Nominee (via Skype)	~
12.	COE/ Nominee Girdhan	Member	Russ
13.	Dean Academics Nominee	Member	Ku. 1
14.	TPO/Nominee	Member.	Ohyle
15.	Mr. Aman Bhartee	Final Yr. B.Tech P.E student	Arran Kumar Sh
16.	Mr. Gurchetan Singh	Final Yr. M.Tech P.E student	Gurcheton

Department of Production Engineering GURU NANAK DEV ENGINEERING COLLEGE, LUDHIANA BACHELOR OF TECHNOLOGY (PRODUCTION ENGINEERING) 2018

Sr.	Code		3RD SEMESTER								
No		Type of Course			act l	Hours	Credit			Mark	5
	PCPE-101	Professional Core Course		L	P	Total		Subject	Int.	Ext	Total
	PCPE-102	Professional Core Course	Strength of Materials	3	0	3	3	Theory	40	60	100
	PCPE-103	Professional Core Co.	Machine Drawing	2	4	6	4	Theory	40	60	100
4	HSMPE-101	Humanities Course	Thermal Engineering	3	0	3	. 3	Theory	40	60	100
5	BSPE-101	Basic Science Course	Operations Management	3	0	3	3	Theory	.40	60	100
6	ESPE-101	Engineering Science Course	Material Science	3	0	3	3.	Theory	40	60	100
7	LPCPE-101	Professional Core Course	Industrial Engineering	3	0	3	3	Theory	40	60	100
8	LPCPE-102	Professional Core Course	Strength of Material Laboratory	0	2	2	1	Practical	30	20	50
9	TR-101	Training Core Course	Thermal Engineering Laboratory	0	2	2	1	Practical	30	20	50
10	PRPE-101	Project/Seminar	Training 1*	-			1:	Practical	60	40	100
11	MPD-102	Mandatory Course	Seminar and Technical Report Writing	0	2	2	1	Practical	50	-	50
	102	mandatory Course	Mentoring and Professional Development	0	1	1	. #	Practical		(#)	
*1-	etitution-1ff-	handari a taran a managari a mana		17	-11	28	23		410	440	850

*Institutional/Industrial Training after 2ND semester of 4 weeks duration will be conducted during summer vacations and marks will be added in 3rd Semester

4TH SEMESTER

Sr.	Code	Code Type of Course	Subject	Cont	act	Hours	Credit	Type of	Marks		
No				L	P	Total		Subject	Int	Ext	Total
1	PCPE-104	Professional Core Course	Design of Machine Elements	4	0	4	4	Theory	40	60	100
2	PCPE-105	Professional Core Course	Fluid Mechanics and Machinery	4	0	4.	4	Theory	40	60	100
3	PCPE-106	Professional Core Course	Manufacturing Processes	-3	0	3	3	Theory	40	60	100
4	PCPE-107	Professional Core Course	Kinematics and Dynamics of Machines	3	0	3	3	Theory	40	60	100
5	PCPE-108	Professional Core Course	Physical Metallurgy and Heat Treatment	3	0	3	3	Theory	40	60	100
6	LPCPE-103	Professional Core Course	Fluid Mechanics and Machinery Laboratory	0	2	2	1	Practical	20	30	50
7	LPCPE-104	Professional Core Course	Kinematics and Dynamics of Machines Laboratory	0	2	2	1	Practical	20	30	50
8	LPCPE-105	Professional Core Course	Manufacturing Processes and Physical Metallurgy & Heat Treatment Laboratory	0	4	4	2	Practical	20	30	50
9	MCPE-101	Mandatory Non Credit Course	Environmental Science	2	0	2	-	Theory	50	S/NS	
10	MPD-102	Mandatory Course	Mentoring and Professional Development	0	1	1	1	Practical		4	100
10/	HI D-108	Total	a)	19	9	28	21		410	440	850

5th SEMESTER

Sr. No	Code	de Type of Course	Subject		act l	Hours	Credit	t Type of Subject	Marics		
				L	P	Total		Subject	Int.	Ext	Total
1	PCPE-109	Professional Core Course	Industrial Automation and Robotics	3	0	3	3	Theory	40	60	100
2	PCPE-110	Professional Core Course	Inspection and Quality Control	3	0	3	3	Theory	40	60	100
3	PCPE-111	Professional Core Course	Metal Forming	3	0	3	3	Theory	40	60	100
4	PCPE-112	Professional Core Course	Engineering Metrology	3	0	3	3	Theory	40	60	100
5	PCPE-113	Professional Core Course	Machining Science	3	0	3	3	Theory	40	60	100
6	PEPE-XXX	Professional Elective Course	Elective 1	4	0	4	4	Theory	40	60	100
7	LPCPE-106	Professional Core Course	Industrial Automation and Robotics Laboratory	0	2	2	1	Practical	30	20	50
s	LPCPE-107	Professional Core Course	Metal Forming and Machining Science Laboratory	0	2	2	1	Practical	30	20	50
9	LPCPE-108	Professional Core Course	Engineering Metrology Laboratory	0	2	2	1	Practical	30	20	50
10	TR-102	Training	Training 2*	-	-		1	Practical	60	40	100
11	MPD-103	Mandatory Course	Mentoring and Professional Development	0	1	1	-	Practical		-	
			- A	19	7	26	23		390	460	850

^{&#}x27;Industry / Institutional Training after 4TH semester of 4 weeks duration will be conducted during summer vacations and marks will be added in Sth Semester

6TH SEMESTER

Sr. No	Code	Code Type of Course Subject Co	Contact Hours			Credit		1	Marks		
140				L.	p	Total		Subject	Int.	Ext.	Total
1	PCPE-114	Professional Core Course	Industrial Tribology	3	0	3	3	Theory	40	60	100
2	PCPE-115	Professional Core Course	Machine Tool Design	3	0	3	3	Theory	40	60	100
3	PCPE-116	Professional Core Course	Operation Research	3	0	3	3	Theory	40	60	100
4	PCPE-117	Professional Core Course	Non-Traditional Machining	3	0	3	3	Theory	40	60	100
5	PEPE-XXX	Professional Elective Course	Dept. Elective-II	4	0	4	4	Theory	40	60	100
6	OEZZ-XXX	Professional Open Course	Open Elective- I	3	0	3	3	Theory	40	60	100
7	LPCPE-109	Professional Core Course	Industrial Tribology and Machine Tool Design Laboratory	0	2	2	1	Practical	20	30	50
8	LPCPE-110	Professional Core Course	Non-Traditional Machining Laboratory	0	2	2	1	Practical	20	30	50
9	PRPE-102	Project	Minor Project	0	4	4	2	Practical	60	40	100
10	MPD-103	Mandatory Course	Mentoring and Professional Development	0	1	1	1	Practical	100		100
		To	tal	19	9	28	23		440	460	900

7th SEMESTER

Sr.	Code	Type of Course	Subject		Contact Hours			Type of	Marks		
No				1.	P	_		Subject	Int.	Ext.	Total
1	PEPE-XXX	Professional Elective Course	Dept. Elective-III	4	0	4	4	Theory	40	60	100
2	PEPE-XXX	Professional Elective Course	Dept. Elective-IV	4	0	4	4	Theory	40	60	100
3	OEZZ-XXX	Professional Open Course	Open Elective- II	3	0	3	3	Theory	40	60	100
4	MCI-102	Mandatory Non Credit Course		2	0	2	-	Theory	50	S/NS	50
5	PRPE-102	Project	Project1	0	6	6	3	Practical	120	80	200
5	TR-102	Training	Training 3*			-	2	Practical	100	50	150
7	MPD-104	Mandatory Course	Mentoring and Professional Development	0	1	1	-	Practical	-	-	
	1			13	7	20	16		390	310	700

*Industry/Institutional Training after 6TH semester of 6 weeks duration will be conducted during summer vacations and marks will be added in 7th Semester

8TH SEMESTER

Sr.			Subject	Contact Hours			Credit	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Marks		
No				L	P	Total		Subject	Int.	Ext.	Total
1	PEPE-XXX	Professional Elective Course	Dept. Elective-V	4	0	4	4	Theory	40	60	100
2	PEPE-XXX	Professional Elective Course	Dept. Elective-VI	4	0	4	4	Theory	40	60	100
3	OEZZ-XXX	Professional Open Course	Open Elective- III	3	0	3	3	Theory	40	60	100
4	MCI-103	Mandatory Non Credit Course	Organizational Behaviour	2	0	2	-	Theory	.50	S/NS	50
5	PRPE-103	Project	Project2	0	6	6	3	Practical	120	80	200
6	MPD-104	Mandatory Course	Mentoring and Professional Development	0	1	1	1	Practical	100	-	100
		Tota	l	13	7	20	14		390	260	450

List of Departmental Elective Subjects

Once an elective group is selected in the 5th semester then same group will be used in 6th semester. In 7th and 8th semester any elective group can be selected irrespective of group selected in 5th & 6th semester. Minimum strength requirement for running an elective subject is 10 students

		Elective I (5 TH Semester)			Elective II (6 TH Semester)
	Desig	n & Manufacturing Engineering Group		Desig	n & Manufacturing Engineering Group
S. N	Code	Name of Elective Subject	S.N	Code	Name of Elective Subject
1	PEPE-101	Jig Fixture and Die Design	1	PEPE-105	Advance Casting and Welding Technology
2	PEPE-102	Tool and Cutter Design	2	PEPE-106	Maintenance and Reliability Engineering
3	PEPE-103	Introduction to Robotics	3	PEPE-107	Statistic and Numerical Analysis
4	PEPE-104	Micro Manufacturing	4	PEPE-108	Cryogenic Manufacturing
		Industrial Engineering Group			Industrial Engineering Group
S. N	Code	Name of Elective Subject	S.N	Code	Name of Elective Subject
1	PEPE-125	Human Engineering	1	PEPE-129	Plant Layout and Material Handling
2	PEPE-126	Agile Manufacturing	2	PEPE-130	Productivity Management
3	PEPE-127	Technology Management	3	PEPE-131	Project Management
4	PEPE-128	Marketing Management	4	PEPE-132	Estimating and Costing
		Materials Group			Materials Group
S. N	Code	Name of Elective Subject	S.N	Code	Name of Elective Subject
1	PEPE-149	Composite Materials	1	PEPE-153	Advance Engineering Material
2	PEPE-150		2	PEPE-154	Advance Ceramics
3	PEPE-151	Science and Engineering of Metals	- 3	PEPE-155	Material Processing
4	PEPE-152		4	PEPE-156	Aero Space Materials
		Elective III (7 TH Semester)			Elective IV (7TH Semester)
	Design	n & Manufacturing Engineering Group			n & Manufacturing Engineering Group
S. N	Code	Name of Elective Subject	S.N	Code	Name of Elective Subject
1	PEPE-109	Non Destructive Testing	1	PEPE-113	Plastic and Ceramics Technology
5	PEPE-110	Computer Aided Design & Manufacturing	2	PEPE-114	Finite Element Method
3	PEPE-111	Precision Engineering	3	PEPE-115	Automobile Engineering
1	PEPE-112	Theory of Plasticity	4	PEPE-116	Industrial Finishing
		Industrial Engineering Group			Industrial Engineering Group
S. N	Code	Name of Elective Subject	S.N	Code	Name of Elective Subject
1	PEPE-133	Supply Chain Management	1	PEPE-137	Industrial Safety and Environment
2	PEPE-134	Quality and Reliability Engineering	2	PEPE-138	Value Engineering
3	PEPE-135	Green Manufacturing	3	PEPE-139	Intellectual Property Rights
4	PEPE-136	Investment Planning	4	PEPE-140	Total Productive Maintenance
		Materials Group			Materials Group
S. N	Code	Name of Elective Subject	S.N	Code	Name of Elective Subject
1	PEPE-157	Texture in Materials	1		Nano Materials
2	PEPE-158	Environmental Degradation of Materials	2	PEPE-162	Explosive Materials used in Industries

3	PEPE-159	Fundamentals of Semi-Conductor Fabrication	3	PEPE-163	Wear Technology
4	PEPE-160	Nuclear Materials	4	PEPE-164	Thermodynamics of Materials
		Elective V (8 TH Semester)	-		Flective VI (8TH Semester)
	Design	n & Manufacturing Engineering Group		Design	- & Manufacturing Engineering Group
S. N	Code	Name of Elective Subject	S.N	Code	Name of Elective Subject
1	PEPE-117	Computer Integrated Manufacturing	1	PEPE-121	
2	PEPE-118	Design of Experiments	2	PEPE-122	Mechatronics
3	PEPE-119	Bio Mechanics	3	PEPE-123	Product Design and Development
4	PEPE-120		4	PEPE-124	Surface Engineering
-		Industrial Engineering Group			Industrial Engineering Group
S. N	Code	Name of Elective Subject	S.N	Code	Name of Elective Subject
1	PEPE-141	Research Methodology	1	PEPE-145	Production Planning and Control
2	PEPE-142	Materials Management	2	PEPE-146	Entrepreneurship
3	PEPE-143	Probability and Statistics	3	PEPE-147	Quality Assurance
4	PEPE-144	Total Quality Management	4	PEPE-148	The state of the s
		Materials Group			Materials Group
S. N	Code	Name of Elective Subject	S.N	Code	Name of Elective Subject
1	PEPE-165	Extreme Environmental Materials	1	PEPE-169	Medical Materials
2	PEPE-166	Cryogenic Materials	2	PEPE-170	Hazardous Materials
3	PEPE-167	Bio Materials	3	PEPE-171	Smart Materials
4	PEPE-168	Waste Material and Management	4	PEPE-172	Lather Technology

List of Open Elective Subjects Offered by the Department

Sr. No.	Semester	Open Elective No.	Code of Subject	Elective Subject Name
1	6th Semester	Open Elective No 1	OEPE-101	Industrial Engineering
			OEPE-102	Human Engineering
2	7th Semester	Open Elective No 2	OEPE-103	Advanced Engineering Materials
			OEPE-104	Materials Management
3	8th Semester	Open Elective No 3		Industrial Safety and Environment
		1 2 2	OEPE-106	Supply Chain Management