

**Department of Mechanical Engineering  
School of Engineering & Technology  
Sharda University, Greater Noida**

**Minutes of BOS Meeting**

Date: 01<sup>st</sup> June, 2018

1. External members of BOS suggested that the following courses should be included as departmental electives:
  - a. Elevator Engineering (3-0-0)3
  - b. Six-sigma practices (3-0-0)3
  - c. Internet of Things (IoT) (3-0-0)3
2. The course of Material Science and Metrology (3-0-0)3 may be split into two separate courses, Material Science (2-0-0)2 and Metrology (0-0-2)1.
3. The external experts were of the opinion that the students after completion of 1<sup>st</sup> and 2<sup>nd</sup> year studies may not be ready to go for proper industry internship since they may not be able to derive the intended benefits. Also, the industries may not be willing to accommodate students for internship at their premature stage. It was suggested that instead of industry internship alone, we could have a bucket containing industry internship, training in industry relevant skills, etc., of at least 4 weeks duration.
4. Some suggestion for Project based learning were also given. These included:
  - a. Design and Fabrication of Experiments for teaching lab.
  - b. Small industry related projects.
5. It was recommended that instead of 2D CAD lab in the 1<sup>st</sup> term, a 3D software should be included so that training should not be on Auto-CAD 2D but on software such as Solid Works. However some experience in reading 2D drawing and imagining their 3D shapes is highly desirable.

Meeting ended with vote of thanks to the chair.

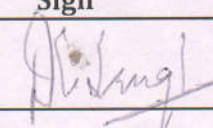
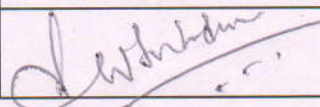
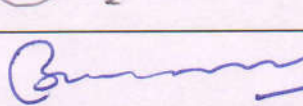
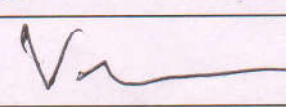
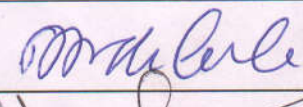
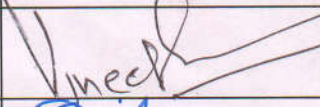
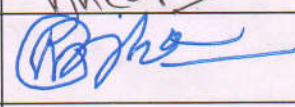
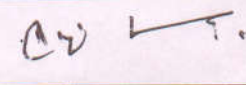
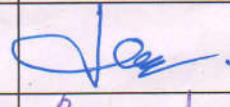
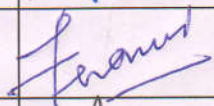
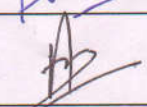
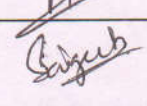
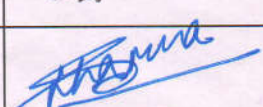
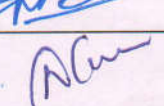


### **Programs wise changes in BOS 2018:**

1. The total credits of programs B.Tech Mechanical Engineering, B.Tech Mechanical Engineering + M.Tech, B.Tech Mechanical Engineering + MBA, B.Tech Mechanical Engineering with specialization in Automobile Engineering and B.Tech Mechanical Engineering with specialization in Automobile Engineering + M.Tech are reduced to 160 credits for the 2018-2022 curriculum as presented in the Annexure.
2. The new program B.Tech Mechanical Engineering with specialization in Mechatronics has been introduced in 2018-2019 academic year as presented in the Annexure.
3. No changes in the curriculum of programs B.Tech Mechanical Engineering with specialization in Production and Industrial Engineering and B.Tech Mechanical Engineering with specialization in Aerospace Engineering as presented in the Annexure.
4. No much changes in the curriculum of programs M.Tech Mechanical Engineering with specialization in Production and Industrial Engineering, M.Tech Mechanical Engineering with specialization in Machine Design and B.Tech Mechanical Engineering with specialization in Fluid and Thermal Engineering as presented in the Annexure.

**Proposed list of Member of BOS**  
**Department of Mechanical Engineering**  
**School of Engineering and Technology**  
**SHARDA UNIVERSITY**

Date: 01/June/2018

1 External Members		Sign
I.	<b>Dr. D.V. Singh</b> Ex-Director, IIT-Roorkee	
II.	<b>Dr. Sudipto Mukherjee</b> Department of Mechanical Engineering, IIT-Delhi	
III.	<b>Mr. A.N. Seshadri</b> Vice President, Perkins, Gurugrame	
2 Internal Members		
I.	<b>Prof. Bhim Singh</b> HoD, Department of ME, Sharda University	
II.	<b>Prof. Vijay Gupta</b> Distinguished Professor, Department of ME, Sharda University	
III.	<b>Dr. Ananda Babu</b> Associate Professor, Department of ME, Sharda University	
IV.	<b>Dr. Vineet Kumar</b> Assistant Professor, Department of ME, Sharda University	
V.	<b>Mr. R.S.Ojha</b> Assistant Professor, Department of ME, Sharda University	
VI.	<b>Mr. A.K. Sehgal</b> Assistant Professor, Department of ME, Sharda University	
VII.	<b>Mr. Shibamay Mitra</b> Assistant Professor, Department of ME, Sharda University	
VIII.	<b>Mr. Francis John</b> Assistant Professor, Department of ME, Sharda University	
IX.	<b>Ms. Akanksha Mishra</b> Assistant Professor, Department of ME, Sharda University	
X.	<b>Ms. Saigeeta Priyadarshini</b> Assistant Professor, Department of ME, Sharda University	
XI.	<b>Mr. Gomish Sharma</b> Assistant Professor, Department of ME, Sharda University	
XII.	<b>Mr. Nitesh Kumar</b> Assistant Professor, Department of ME, Sharda University	

Head of the Department  
Mechanical & Automobile Engineering  
School of Engineering & Technology  
Sharda University  
Greater Noida

**Prof. Bhim Singh**  
**HOD-ME**

**School of Engineering and Technology**  
**B.Tech- Mechanical Engineering**  
**Batch: 2018-2022**  
**TERM: I**

S.No	No. Subject Code	Subjects	Teaching Load			Credits	Pre-Requisite/Co Requisite
			L	T	P		
<b>THEORY SUBJECTS</b>							
1.	CSE113	Programming for Problem Solving	3	0	0	3	
2.	HMM111	Human Values and Ethics	2	0	0	2	
3.	MTH141	Calculus, Analysis and Linear Algebra	3	1	0	4	
4.	PHY120	Engineering Physics	2	1	0	3	
5.	EEE112	Principles of Electrical and Electronics Engineering	2	1	0	3	
<b>Practical/Viva-Voce/Jury</b>							
6.	MEP107	Introduction to Mechanical Engineering	0	0	2	1	
7.	CSP113	Programming for Problem Solving Lab	0	0	2	1	
8.	PHY151	Engineering Physics Lab	0	0	2	1	
9.	MEP106	Computer Aided Design & Drafting Lab	0	0	3	1.5	
10.	EEP112	Principles of Electrical and Electronics Engineering Lab	0	0	2	1	
11.	FEP101 / FEP103	Functional English-Beginners 1 Lab/ Intermediate	0	0	4	2	
<b>TOTAL CREDITS</b>						<b>22.5</b>	-

**School of Engineering and Technology**  
**B.Tech- Mechanical Engineering**  
**Batch: 2018-2022**  
**TERM: II**

S. No.	Course Code	Course	Teaching Load			Credits	Pre-Requisite/Co Requisite
			L	T	P		
<b>THEORY SUBJECTS</b>							
1.	CSE114	Application based Programming in Python	3	0	0	3	
2.	MTH144	Differential Equations, Special Transforms And Statistic	3	1	0	4	
3.	PHY119	Advanced Physics (Bucket Based)	2	1	0	3	
4.	CHY111	Engineering Chemistry	3	0	0	3	
5.	EVS103	Environmental Science	2	0	0	2	
<b>Practical/Viva-Voce/Jury</b>							
6.	CEP114	Application based Programming in Python Lab	0	0	2	1	
7.	XXX	Advanced Physics (Bucket Based) Lab	0	0	2	1	
8.	CHP111	Engineering Chemistry Lab	0	0	2	1	
9.	MEP105	Mechanical Workshop	0	0	3	1.5	
10.	FEP102 / FEP104	Functional English Beginners 2 Lab / Intermediate	0	0	4	2	
<b>Summer Internship (0-0-2)1 for II term to be evaluated in III term</b>							
<b>TOTAL CREDITS</b>						<b>21.5</b>	

**School of Engineering and Technology**  
**B.Tech- Mechanical Engineering**  
**Batch: 2018-2022**  
**TERM: III**

S. No.	Course Code	Course	Teaching Load			Credits	Pre-Requisite/Co Requisite
			L	T	P		
<b>THEORY SUBJECTS</b>							
1.	HMM305	Management for Engineers	3	0	0	3	
2.	MEC 215	Fluid Mechanics	3	0	0	3	
3.	MEC 218	Basic Thermodynamics	3	0	0	3	
4.	MEC 224	Material Science	2	0	0	2	
5.	MEC 212	Engineering Mechanics	3	0	0	3	
<b>Practical/Viva-Voce/Jury</b>							
6.	ARP203	Aptitude Reasoning and Business Communication Skills- Basic	0	0	4	2	
7.	MEP215	Fluid Mechanics Lab	0	0	2	1	
8.	MEP 212	Engineering Mechanics Lab	0	0	2	1	
9.	MEP288	Project Based Learning I	0	0	2	1	
10.	MEP295	Industrial Internship I	0	0	2	1	
11.	MEP224	Metrology	0	0	2	1	
<b>TOTAL CREDITS</b>						<b>21</b>	

**School of Engineering and Technology**  
**B.Tech - Mechanical Engineering**  
**Batch: 2018-2022**  
**TERM: IV**

S. No.	Course Code	Course	Teaching Load			Credits	Pre-Requisite/Co Requisite
			L	T	P		
<b>THEORY SUBJECTS</b>							
1.	BTY316	Introduction to Biology for Engineers	2	0	0	2	-
2.	MEC 211	Strength of Materials	3	1	0	4	MEC 212
3.	MEC 213	Kinematics of Machines	3	1	0	4	MEC 212
4.	MEC321	Heat Transfer	3	0	0	3	-
5.	MEC 219	Manufacturing Technology-I	3	0	0	3	-
<b>Practical/Viva-Voce/Jury</b>							
6.	MEP 211	Strength of Materials Lab	0	0	2	1	MEP 212
7.	MEP321	Heat Transfer Lab	0	0	2	1	-
8.	MEP 219	Manufacturing Technology-I Lab	0	0	2	1	-
9.	ARP204	Aptitude Reasoning and Business Communication Skills- Intermediate	0	0	4	2	-
10.	MEP289	Project Based Learning-2	0	0	2	1	-
11.	MEP201	Idea Generation and Creativity Lab	0	0	2	1	-
<b>Summer Internship (0-0-2)1 for IV term to be evaluated in V term</b>							
<b>TOTAL CREDITS</b>						<b>23</b>	

**School of Engineering and Technology**  
**B.Tech- Mechanical Engineering**  
**Batch: 2018-2022**  
**TERM: V**

S. No.	Course Code	Course	Teaching Load			Credits	Pre-Requisite/Co Requisite
			L	T	P		
<b>THEORY SUBJECTS</b>							
1.	MEC320	Dynamics of Machines	3	0	0	3	
2.	MEC324	Operation Research (Maths III-from Basket)	3	0	0	3	
3.	XXX	Program Elective I	3	0	0	3	
4.	MEC322	Machine Design	3	0	0	3	
5.	XXX	Open Elective I	3	0	0	3	
<b>Practical/Viva-Voce/Jury</b>							
7.	ARP301	Quantitative Aptitude Behavioural and Interpersonal Skills	0	0	4	2	
8.	MEP320	Dynamics of Machines Lab	0	0	2	1	
9.	MEP324	Operation Research Lab (Maths III-from Basket)	0	0	2	1	
10.	XXX	Program Elective I Lab	0	0	2	1	
11.	MEP396	Technical Enhancement Course I	0	0	2	1	
12.	MEP388	Project Based Learning 3	0	0	2	1	
13.	MEP395	Industrial Internship II	0	0	2	1	
<b>TOTAL CREDITS</b>						<b>23</b>	



**School of Engineering and Technology**  
**B.Tech- Mechanical Engineering**  
**Batch: 2018-2022**  
**TERM: VI**

S. No.	Course Code	Course	Teaching Load			Credits	Pre-Requisite/Co Requisite
			L	T	P		
<b>THEORY SUBJECTS</b>							
1.	MEC327	Turbo Machinery	3	0	0	3	
2.	MEC324	IC Engines	3	0	0	3	
3.	XXX	Program Elective II	3	0	0	3	
4.	XXX	Program Elective III	3	0	0	3	
5.	XXX	Open Elective II	3	0	0	3	
<b>Practical/Viva-Voce/Jury</b>							
6.	MEP324	IC Engine Lab	0	0	2	1	
7.	MEP327	Turbo Machinery Lab	0	0	2	1	
8.	ARP302	Higher Order Mathematics and Advance People Skills	0	0	4	2	
9.	MEP397	Technical Skills Enhancement Course 2	0	0	2	1	
10.	MEP389	Project Based Learning 4	0	0	2	1	
<b>Summer Internship (0-0-2)1 for VI term to be evaluated in VII term</b>							
<b>TOTAL CREDITS</b>						<b>21</b>	

**School of Engineering and Technology**  
**B.Tech- Mechanical Engineering**  
**Batch: 2018-2022**  
**TERM: VII**

S. No.	Course Code	Course	Teaching Load			Credits	Pre-Requisite/Co Requisite
			L	T	P		
<b>THEORY SUBJECTS</b>							
1.	XXX	Program Elective IV	3	0	0	3	
2.	XXX	Program Elective V	3	0	0	3	
3.	XXX	Open Elective III	2	0	0	2	
4.	XXX	Comprehensive Examination (Audit Course)	0	0	0	0	
5.	XXX	Professional Ethics and Values(Audit Course)	0	0	0	0	
<b>Practical/Viva-Voce/Jury</b>							
6.	MEP463	Major Project-I	0	0	6	3	
7.	MEP495	Industrial Internship III	0	0	2	1	
8.	ARC401	Problem Solving Creative Thinking and Leadership Skills	0	0	2	1	
<b>TOTAL CREDITS</b>						<b>13</b>	

**School of Engineering and Technology**  
**B.Tech-Mechanical Engineering**  
**Batch: 2018-2022**  
**TERM: VIII**

S. No.	Course Code	Course	Teaching Load			Credits	Pre-Requisite/Co Requisite
			L	T	P		
<b>THEORY SUBJECTS</b>							
1.	XXX	Program Elective - 6	3	0	0	3	
2.	XXX	Open Elective - 4	3	0	0	3	
<b>Practical/Viva-Voce/Jury</b>							
3.	MEP464	Major Project-II	0	0	18	9	
<b>TOTAL CREDITS</b>						<b>15</b>	