Dated: 28/06/2019

I.K. Gujral Punjab Technical University (Minutes of Meeting)

A meeting of the Board of Studies (Mechanical Engineering/Production Engineering/Industrial Engineering/Automobile Engineering) was held on 28th June 2019 at 10:30 in the conference hall, Department of Academics, G+3 Building, main campus, IK Gujral Punjab Technical University Jalandhar, Jalandhar-Kapurthala highway, Punjab.

Following members of BoS and special invitees were present:

1. Dr. Om Pal Singh, BCET Gurdaspur

- 2. Dr. Vikas Chawla, Professor, IKGPTU Campus Hoshiarpur
- 3. Dr. Paramjit Singh Bilga, GNDEC, Ludhiana
- 4. Dr. Lakhvir Singh, Professor, BBSBEC, Fatehgarh Sahib
- 5. Dr. R.P.S. Sukerchakia, Principal (Rt) GNDEC, Ludhiana
- 6. Dr. Rachin Goyal, CGC, Landran
- 7. Dr. Devinder Priyadarshi, DAVIET, Jalandhar
- 8. Dr. Subhash Chander, NIT Jalandhar
- 9. Dr. Neel Kanth Grover, Department of ME, IKGPTU Main Campus
- 10. Mr Rajan, Student, Department of ME, IKGPTU Main Campus
- 11. Mr Sharan, Student, Department of ME, IKGPTU Main Campus

Following members of BoS could not attend the meeting:

- 1. Mr. Sarbjit Singh, GM-Manufacturing Honda Motorcycle and Scooter India Pvt. Ltd, IMT Manesar
- 2. Dr. Vijay Kumar Jadon, Chitkara University, Rajpura
- 3. Dr. Suresh Kumar Verma, DCRUST Murthal (Sonipat) Haryana
- 4. Dr. Balkar Singh, Director Academics, IKGPTU
- 5. Dr. Jujhar Singh, IKGPTU Main Campus
- 6. Dy. Director / Assistant Director CR&A, Department of CR&A, IKGPTU, Alumni of IKGPTU
- The Board has made the following recommendations:
 - 1) The detailed syllabus for B. Tech. 1st year (Batch 2019 onwards) course of Engineering Graphics and Design (BTME-101-18) has been discussed. The credit of the course is recommended to be increased from 3 to 4 and contact hour increased from 4 to 6 hrs. Further, the theory paper can be included in the first year from 1st to 5th units with revised syllabus. There will be a theory examination of 60 Marks. The internal marks will be 40. The syllabus of internal practical exam will be having a unit 6 apart from unit 1 to 5 as mentioned above. The revised subject code will be BTME-101-19. The revised scheme is mentioned below:



IK Gujral Punjab Technical University Bachelor of Technology (B. Tech. 1st Year)

Course code	Course code BTME101-18					
Category	Engineering Science Courses					
Course title	Engineering Graphics & Design (Theory & Lab.)					
Scheme and Credits	L	Т	P	Credits	Semester-	
	1	0	6	4	I	
Pre-requisites (if any)	Nil					
Common to all branches						

Engineering Graphics & Design [A total of 01 lecture hours & 6 hours of lab.] [[L : 1; T:0; P : 6 (4 credits)]

- 2) The basic Thermodynamics course is introduced in the third semester. Further the practical hours have been recommended to increase from 4 to 6 hrs in the third semester and the different code is given to different lab such as SOM Lab (BTME-306-18), TOM lab (BTME-307-18) and Fluid Mechanics lab (BTME-308-18), in the third semester. The revised list of practical is given in scheme of syllabus.
- 3) The Applied thermodynamics course is introduced in semester-IV. Further the practical hours have been revised to increase from 4 to 6 hrs in the fourth semester and the different code is given to different lab such as Thermal Lab (BTME-406-18), Fluid Machines lab (BTME-407-18), and Material Engineering Lab (BTME-408-18). The revised list of practical is given in scheme of syllabus.
- 4) The list of subjects for minor degree has been recommended as per Annexure-A. in the list of Electives in place of Applied Thermodynamics (I) and (II).
- 5) The list of MOOCs has been provided as Annexure -B. The students have to study only those courses from the list which the student has not studied earlier.
- 6) The two faculty members Dr Amit Bansal (IKGPTU main campus) and Dr. Devinder Priyadarshi, DAVIET, Jalandhar have been nominated as members of BoS for migration cases.
- 7) The revised syllabus of Basic Thermodynamics (Semester-III) and Applied Thermodynamics (Semester-IV) will be prepared by Dr R P Singh, Principal (Rtd.), GNDEC, Ludhiana and the syllabus of Engineering Graphics and Design will be prepared by Dr Neel Kanth Grover, Associate Professor, ME by 04-07-2019.

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ANNEXURE A

Sl. No.	Category	Semester	Course Title	Hours per week			Total contact hours	Credits
				Lecture	Tutorial	Practical		
1	Professional Core courses	5 th	Manufacturing Processes-I	3	0	0	3	3
2	Professional Core courses	6 th	Manufacturing Processes-II	3	0	0	3	3

Core subjects for Minor degree in B.Tech. Mech. Engineering:

Elective subjects (odd semester) for Minor degree in B.Tech. Mech. Engineering:

SI. No.	Category	Semester	Course Title	Hours per week		Total contact hours	Credits	
				Lecture	Tutorial	Practical		
1	Professional Core courses	Odd	Fluid Mechanics	3	1	0	4	4
2	Professional Core courses	Odd	Theory of Machines -I	3	1	0	4	4
3	Professional Core courses	Odd	Strength of Materials-I	3	1	0	4	4
4	Professional Core courses	Odd	A pplied X T hermody na n ies-1	3	1	0	4	4
5	Professional Core courses	Odd	Heat Transfer	3	1	0	4	4

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Elective subjects (even semester) for Minor degree in B.Tech. Mech. Engineering:

Sl. No.	Category	Semester	Course Title	Hours per week		veek	Total contact hours	Credits
				Lecture	Tutorial	Practical		
1	Professional Core courses	Even	Automobile Engg.	3	1	0	4	4
2	Professional Core courses	Even	Theory of Machines -II	3	1	0	4	4
3	Professional Core courses	Even	Strength of Materials-II	3	1	0	4	4
4	Professional Core courses	Even	Applied Thermodyna mics-II	3	1	0	4	4
5	Professional Core courses	Even	Refrigeration and Air Conditioning	3	1	0	4	4

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List of MOOC Courses for

B.Tech. Mechanical Engineering Batch 2018 onwards

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Course Id	Course Name	Duration
noc19-me40	Industrial Safety Engineering	12 Weeks
noc19-me41	Engineering Mechanics	12 weeks
noc19-me42	Engineering Fracture Mechanics	12 weeks
noc19-me43	Solid Mechanics	12 weeks
noc19-me44	Fundamentals of manufacturing processes	12 Weeks
noc19-me45	Manufacturing Systems Technology Part I & II	12 weeks
noc19-me47	Mathematical Modelling Of Manufacturing Processes	12 Weeks
noc19-me50	Work System Design	12 Weeks
noc19-me53	Advanced Concepts in Fluid Mechanics	12 Weeks
noc19-me56	Concepts of Thermodynamics	12 Weeks
noc19-me57	Applied Thermodynamics For Engineers	12 Weeks
noc19-me59	Fundamentals of Conduction and Radiation	12 Weeks
noc19-me60	Energy Conservation and Waste Heat Recovery	12 Weeks
noc19-me61	Fundamentals of Gas Dynamics	12 Weeks
noc19-me62	Heat Exchangers: Fundamentals and Design Analysis	12 Weeks
noc19-me64	Turbulent Combustion: Theory and Modelling	12 weeks
noc19-me65	Dynamic Behaviour Of Materials	12 Weeks
noc19-me66	Plastic Working Of Metallic Materials	12 Weeks
noc19-me69	Fundamentals of Surface Engineering: Mechanisms, Processes and Characterizations	12 Weeks
noc19-me71	Fundamentals Of Artificial Intelligence	12 Weeks
noc19-me70	Engineering Metrology	12 weeks
noc19-me72	Noise Management and Control	12 weeks
noc19-me76	Aircraft Propulsion	12 weeks
noc19-me77	Convective Heat Transfer	12 weeks

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