

Roll No.14ME31009



# INDIAN INSTITUTE OF TECHNOLOGY KHARAGPUR

upon the recommendation of the Senate hereby confers the degree of

**Master of Technology**  
under the Dual Degree Programme

in

**Manufacturing Science and Engineering**  
Offered by the Department of Mechanical Engineering

on

**Praveen Kumar**

Given under the seal of the Institute at Kharagpur on the Twenty Seventh day of August, Two Thousand and Nineteen

  
Registrar



  
Director

Roll No.14ME31009



# INDIAN INSTITUTE OF TECHNOLOGY KHARAGPUR

upon the recommendation of the Senate hereby confers the degree of

**Bachelor of Technology (Honours)**  
under the Dual Degree Programme

in

**Mechanical Engineering**

on

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**INDIAN INSTITUTE OF TECHNOLOGY KHARAGPUR**  
**STATEMENT OF GRADES OBTAINED FOR THE 10 SEMESTER DUAL DEGREE IN ENGINEERING/TECHNOLOGY LEADING TO THE AWARD OF**  
**BACHELOR OF TECHNOLOGY (HONOURS) AND MASTER OF TECHNOLOGY**



Roll No: 14ME31009

Name: PRAVEEN KUMAR

Year of Admission : 2014-2015

Course: B.Tech.(Hons.) in MECHANICAL ENGINEERING and M.Tech. In MANUFACTURING SCIENCE AND ENGINEERING

Year of Graduation : 2018-2019

**For Semester 1**      **SGPA: 6.87**      **CGPA: 6.87**

Subno	Name	L-T-P	CRD	GRD
CE1001	ENGINEERING DRAWING AND COMPUTER GRAPHICS	1-0-3	3	D
CS11001	PROGRAMMING AND DATA STRUCTURE	3-1-0	4	P
CS19001	PROGRAMMING AND DATA STRUCTURE LAB	0-0-3	2	C
EA10001	EXTRA ACADEMIC ACTIVITY-I	0-0-3	0	C
MA10001	MATHEMATICS-I	3-1-0	4	D
ME10001	MECHANICS	3-1-0	4	B
PH11001	PHYSICS	3-1-0	4	B
PH19001	PHYSICS LAB	0-0-3	2	A

**For Semester 2**      **SGPA: 6.18**      **CGPA: 6.53**

Subno	Name	L-T-P	CRD	GRD
CY11001	CHEMISTRY	3-1-0	4	D
CY19001	CHEMISTRY LAB	0-0-3	2	A
EA10002	EXTRA ACADEMIC ACTIVITY-II	0-0-3	0	D
EE11001	ELECTRICAL TECHNOLOGY	3-1-0	4	P
EE19001	ELECTRICAL TECHNOLOGY LAB	0-0-3	2	C
HS13001	ENGLISH FOR COMMUNICATION	3-0-2	4	D
MA10002	MATHEMATICS-II	3-1-0	4	P
ME19001	INTRODUCTION TO MANUFACTURING PROCESSES	0-0-3	2	B

**For Semester 3**      **SGPA: 5.70**      **CGPA: 6.28**

Subno	Name	L-T-P	CRD	GRD
BS20001	SCIENCE OF LIVING SYSTEM	2-0-0	2	P
EA10003	EXTRA ACADEMIC ACTIVITY-III	0-0-3	0	C
EV20001	ENVIRONMENTAL SCIENCE	2-0-0	2	D
MA20101	TRANSFORM CALCULUS	3-0-0	3	P
MA20103	PARTIAL DIFFERENTIAL EQUATIONS	3-0-0	3	P
ME20001	DYNAMICS	3-1-0	4	D
ME21101	FLUID MECHANICS	3-1-0	4	P
ME29701	WORKSHOP PROCESS-II	0-0-3	2	A

**For Semester 4**      **SGPA: 5.36**      **CGPA: 6.05**

Subno	Name	L-T-P	CRD	GRD
CR30008	CRYOGENIC ASPECTS OF HYDROGEN ENERGY	3-0-0	3	P
EA10004	EXTRA ACADEMIC ACTIVITY-IV	0-0-3	0	B
EC21101	BASIC ELECTRONICS	3-1-0	4	P
EC29001	BASIC ELECTRONICS LAB	0-0-3	2	C
HS20001	ECONOMICS	3-1-0	4	P
ME21008	KINEMATICS OF MACHINES	3-0-0	3	P
ME22002	THERMODYNAMICS	3-1-0	4	P
ME29002	MECHANISM SESSIONAL	0-0-3	2	C

**For Semester 5**      **SGPA: 6.59**      **CGPA: 6.16**

Subno	Name	L-T-P	CRD	GRD
HS30074	SCIENCE AND HUMANISM	3-0-0	3	B
ME30005	HEAT TRANSFER	3-1-0	4	P
ME31007	CASTING, FORMING AND WELDING	3-1-0	4	P
ME31013	MECHANICS OF SOLIDS	3-1-0	4	C
ME39007	CASTING, FORMING AND WELDING LAB	0-0-3	2	B
ME39013	MECHANICS OF SOLIDS LABORATORY	0-0-3	2	B
MT30001	MATERIALS ENGINEERING	3-0-0	3	C

**For Semester 6**      **SGPA: 5.64**      **CGPA: 6.07**

Subno	Name	L-T-P	CRD	GRD
ME22004	DYNAMICS OF MACHINES	3-1-0	4	P
ME30602	DESIGN OF MACHINE ELEMENTS	3-1-0	4	P
ME30604	MACHINES TOOLS AND MACHINING	3-1-0	4	P
ME39602	MACHINE DESIGN PRACTICE	0-0-3	2	B
ME39604	MACHINES TOOLS AND MACHINING LAB	0-0-3	2	D
ME39606	THERMO FLUIDS LAB - I	0-0-3	2	B
ME41001	APPLIED THERMO-FLUIDS I	3-1-0	4	P

**For Semester 7**      **SGPA: 8.10**      **CGPA: 6.35**

Subno	Name	L-T-P	CRD	GRD
ME40111	MODERN METHODS OF MANUFACTURING	3-1-0	4	D
MF40601	SYSTEMS & CONTROL	3-1-0	4	B
ME47601	PROJECT-I	0-0-6	4	A
MF40603	COMPUTER INTEGRATED MANUFACTURING	3-1-0	4	A
MF41601	SOFT COMPUTING	3-0-0	3	B
MF49601	NON TRADITIONAL MANUFACTURING & CIM LAB	0-0-3	2	A

**For Semester 8**      **SGPA: 7.87**      **CGPA: 6.55**

Subno	Name	L-T-P	CRD	GRD
EP60042	ENGINEERING DESIGN PROCESS	3-0-0	3	B
ME47602	PROJECT-II	0-0-9	6	A
ME60306	PRECISION AND MICRO MANUFACTURING	3-0-0	3	C
ME60430	MECHANICS OF HUMAN BODY	3-1-0	4	B
MF30602	ROBOTS & COMPUTER CONTROLLED MACHINES	4-0-0	4	B
MF40604	LASER APPLICATIONS IN MANUFACTURING	3-0-0	3	D

**For Semester 9**      **SGPA: 8.15**      **CGPA: 6.76**

Subno	Name	L-T-P	CRD	GRD
ME40701	SUMMER TRAINING	0-0-0	2	A
ME57003	DUAL DEGREE PROJECT - PART I	0-0-18	12	A
ME58003	COMPREHENSIVE VIVA (UG)	0-0-0	2	D
ME60033	INTELLIGENT MACHINES AND SYSTEMS	3-1-0	4	A
ME60103	MACHINERY FAULT DIAGNOSTICS AND SIGNAL PROCESSING	3-1-0	4	C
ME60215	THEORY OF ABRASIVE MACHINING	3-0-0	3	D

**For Semester 10**      **SGPA: 8.45**      **CGPA: 6.93**

Subno	Name	L-T-P	CRD	GRD
ME57004	DUAL DEGREE PROJECT - PART II	0-0-20	13	EX
ME58004	COMPREHENSIVE VIVA (DD)	0-0-0	2	D
ME60006	FUNDAMENTALS OF ELECTRONIC PACKAGING	3-0-0	3	B
ME60416	MECHANISMS AND ROBOT KINEMATICS	3-1-0	4	P

Total Credit Taken in Major Curriculum: 224    Total Credit Cleared: 224    CGPA: 6.93

Checked by \_\_\_\_\_

*(Signature)*  
 Deputy Registrar(Academic)  
 Deputy Registrar (Academic)  
 IIT Kharagpur

Date of Issue : 30 May 2019