



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: 17MT30004

Name: ARZA AKHIL

Year of Admission : 2017-2018

Course: B.Tech.(Hons.) in METALLURGICAL AND MATERIALS ENGINEERING and M.Tech. in METALLURGICAL AND MATERIALS ENGINEERING

Year of Graduation : 2021-2022

For Semester 1 SGPA: 7.48 CGPA: 7.48				
Subno	Name	L-T-P	CRD	GRD
CE13001	ENGINEERING DRAWING AND COMPUTER GRAPHICS	1-0-3	3	D
CS10001	PROGRAMMING AND DATA STRUCTURES	3-0-0	3	B
CS19101	PROGRAMMING AND DATA STRUCTURES TUTORIAL AND LABORATORY	0-1-3	3	B
EA10001	EXTRA ACADEMIC ACTIVITY-I	0-0-3	0	Y
EA10005	INDUCTION PROGRAM	0-0-0	0	Y
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: 7.64 CGPA: 7.56				
Subno	Name	L-T-P	CRD	GRD
CY11001	CHEMISTRY	3-1-0	4	C
CY19001	CHEMISTRY LAB.	0-0-3	2	A
EA10002	EXTRA ACADEMIC ACTIVITY-II	0-0-3	0	Y
EE11001	ELECTRICAL TECHNOLOGY	3-1-0	4	D
EE19001	ELECTRICAL TECHNOLOGY LAB.	0-0-3	2	B
HS13001	ENGLISH FOR COMMUNICATION	3-0-2	4	B
MA10002	MATHEMATICS-II	3-1-0	4	B
ME19001	INTRODUCTION TO MANUFACTURING PROCESSES	0-0-3	2	A

For Semester 3 SGPA: 8.26 CGPA: 7.79				
Subno	Name	L-T-P	CRD	GRD
BS20001	SCIENCE OF LIVING SYSTEM	2-0-0	2	C
EA10003	EXTRA ACADEMIC ACTIVITY-III	0-0-3	0	A
EV20001	ENVIRONMENTAL SCIENCE	2-0-0	2	B
HS20001	ECONOMICS	3-1-0	4	B
MA20103	PARTIAL DIFFERENTIAL EQUATIONS	3-0-0	3	B
MT21105	METALLURGICAL THERMODYNAMICS AND KINETICS	3-1-0	4	B
MT21107	INTRODUCTION TO ENGINEERING MATERIALS	3-1-0	4	A
MT29005	METALLURGICAL THERMODYNAMICS AND KINETICS LAB.	0-0-3	2	A
MT29007	INTRODUCTION TO ENGINEERING MATERIALS LAB.	0-0-3	2	A

For Semester 4 SGPA: 8.68 CGPA: 8.01				
Subno	Name	L-T-P	CRD	GRD
EA10004	EXTRA ACADEMIC ACTIVITY-IV	0-0-3	0	B
EC21101	BASIC ELECTRONICS	3-1-0	4	A
EC29001	BASIC ELECTRONICS LAB.	0-0-3	2	C
MA20106	PROBABILITY & STOCHASTIC PROCESSES	3-0-0	3	B
MT20006	MATERIALS PROCESSING	3-0-0	3	A
MT21008	DEFORMATION BEHAVIOUR OF MATERIALS	3-1-0	4	EX
MT21010	TRANSPORT PHENOMENA IN METALLURGICAL PROCESSES	3-1-0	4	B
MT29006	MATERIALS PROCESSING LAB.	0-0-3	2	A

For Semester 5 SGPA: 8.29 CGPA: 8.06				
Subno	Name	L-T-P	CRD	GRD
HS30073	ENVIRONMENTAL SOCIOLOGY	3-0-0	3	B
MT31007	CREEP, FATIGUE AND FRACTURE	3-0-0	3	EX
MT31009	MECHANICAL WORKING OF MATERIALS	3-0-0	3	B
MT31015	PRINCIPLES OF EXTRACTIVE METALLURGY	3-1-0	4	B
MT31017	PHASE TRANSFORMATION AND HEAT TREATMENT OF MATERIALS	3-1-0	4	C
MT39005	HEAT TREATMENT OF MATERIALS LAB.	0-0-3	2	A
MT39009	MECHANICAL TESTING AND WORKING LAB.	0-0-3	2	A

For Semester 6 SGPA: 8.83 CGPA: 8.20				
Subno	Name	L-T-P	CRD	GRD
MA60002	DATA STRUCTURE AND ALGORITHM	3-1-0	4	A
MT31012	MATERIAL CHARACTERIZATION	3-0-0	3	EX
MT31022	X-RAY DIFFRACTION & TRANSMISSION ELECTRON MICROSCOPY	3-1-0	4	B
MT32008	IRON MAKING & STEELMAKING	3-1-0	4	C
MT39004	MATERIALS CHARACTERISATION LAB.	0-0-3	2	A
MT39022	X-RAY DIFFRACTION & TRANSMISSION ELECTRON MICROSCOPY LABORATORY	0-0-3	2	A
MT41009	COMPUTER APPLICATIONS IN METALLURGICAL PROCESSES	3-0-0	3	EX
MT49009	COMPUTER APPLICATIONS IN METALLURGICAL PROCESSES LABORATORY	0-0-3	2	EX

For Semester 7 SGPA: 8.67 CGPA: 8.26				
Subno	Name	L-T-P	CRD	GRD
AI42001(#1)	MACHINE LEARNING FOUNDATIONS AND APPLICATIONS	3-0-3	5	EX
CS60021	SCALABLE DATA MINING	3-0-0	3	C
MT41013	CORROSION & ENVIRONMENTAL DEGRADATION OF MATERIALS	3-0-0	3	A
MT41023	COMPOSITE MATERIALS	3-0-0	3	B
MT41037	POWDER METALLURGY	3-0-0	3	B
MT61151	DISLOCATION THEORY	3-1-0	4	A

For Semester 8 SGPA: 8.43 CGPA: 8.28				
Subno	Name	L-T-P	CRD	GRD
AI60002	MACHINE LEARNING FOR EARTH SYSTEM SCIENCES	3-0-0	3	A
CS60075	NATURAL LANGUAGE PROCESSING	3-0-0	3	B
CS60078	COMPLEX NETWORK THEORY	3-0-0	3	A
EP60020	FOUNDATIONS OF ENTREPRENEURSHIP	3-0-0	3	D
MT41034	METALLURGICAL FAILURE ANALYSIS	3-0-0	3	A
MT60006	GRAIN BOUNDARIES AND INTERFACES	3-0-0	3	A
MT60148	MAGNETISM & MAGNETIC MATERIALS	3-0-0	3	A

For Semester 9 SGPA: 8.79 CGPA: 8.35				
Subno	Name	L-T-P	CRD	GRD
AI61005(#1)	ARTIFICIAL INTELLIGENCE: FOUNDATIONS AND APPLICATIONS	3-1-0	4	C
MA41031	STOCHASTIC PROCESSES IN FINANCE	3-1-0	4	EX
MT48001	INDUSTRIAL TRAINING	0-0-0	2	EX
MT57003	PROJECT III	0-0-15	12	A
MT58001	COMPREHENSIVE VIVA VOCE	0-0-0	2	C
MT61141	SOLIDIFICATION PROCESSING	3-1-0	4	A

For Semester 10 SGPA: 9.32 CGPA: 8.44				
Subno	Name	L-T-P	CRD	GRD
AI60004(#1)	BIG DATA PROCESSING	3-0-0	3	A
MT57004	PROJECT IV	0-0-22	13	EX
MT58002	COMPREHENSIVE VIVA VOCE	0-0-0	2	B
MT60002	METALLURGICAL KINETICS	3-1-0	4	B

Additional subjects taken into account for earning a Micro-Specialisation

Subno	Name	L-T-P	CRD	Semno	GRD
AI61002	DEEP LEARNING FOUNDATIONS AND APPLICATIONS	3-1-0	4	6	C
Micro-Specialisation in : ARTIFICIAL INTELLIGENCE AND APPLICATIONS					GPA: 8.31

#1 sign against a major curricular subject indicates that it has been taken into account for Micro-Specialisation

Details of other additional subjects

Subno	Name	L-T-P	CRD	Semno	GRD
CS40003	DATA ANALYTICS	3-0-0	3	5	A
CS31702	COMPUTER ARCHITECTURE AND OPERATING SYSTEM	4-0-0	4	8	A
MA61010	COMPUTER NETWORKS	3-1-0	4	10	C
CS40032	PRINCIPLES OF PROGRAMMING LANGUAGES	3-0-0	3	10	B

Total Additional Credits Taken: 18
GPA in Additional Subjects: 7.94

Total Additional Credits Cleared: 18

Total Credits Taken in Major Curriculum: 227 Total Credits Cleared: 227 CGPA: 8.44

Date of Issue: 16 June 2022

Checked by Superintendent (Academic):

Deputy Registrar (Academic):

GENERAL INFORMATION

1. Abbreviations used in the grade card stands for:

- LTP** = Lecture, Tutorial, Practical; figures shown under this column indicate weekly contact hours prescribed for the Subject
- CRD** = Credit carried by the Subject
- GRD** = Grade obtained by student in the Subject
- CGPA** = Cumulative Grade Point Average
- SGPA** = Semester Grade Point Average
- GPA** = Grade Point Average

2. English is the medium of instruction at all levels.

3. Extra Academic Activity (EAA) subjects include NCC, NSS and NSO, NCA.

4. The seven-point letter grade system followed by the institute in assessing student's performance in a subject is as follows:

Performance	Letter Grade	Grade Point Value Per Credit
Excellent	EX	10
Very Good	A	9
Good	B	8
Fair	C	7
Average	D	6
Pass	P	5

5. Highest possible CGPA in the system is 10.00. No rank or class or division is awarded. The CGPA may be multiplied by a factor of 10 to obtain the numerical percentage for those students who have graduated in 2020-2021 or earlier.

The Conversion formula to be effective for all students from the graduation year 2021-2022 is as follows:

Percentage of Marks = $(20/7) * \{(4 * x) - 5\}$, [where, x is CGPA]

6. (I) A student is awarded a B.Tech. (Hons.); B.Arch. (Hons.); Dual Degree for B.Tech. (Hons.) & M.Tech.; Integrated B.Sc. (Hons.) and M.Sc.; Integrated B.Sc. (Hons.) and M.Sc. & M. Tech.; 4 Yrs. B.S.; 2 Yrs. or 3 Yrs. M.Sc. on completion of the curricular requirement with a minimum CGPA of 6.00.

(II) The credits and grades obtained in additional subjects optionally taken by a student on satisfying the prescribed conditions do not contribute towards the CGPA.

(III) The CGPA obtained by a student in additional subjects is computed separately. For the award of MINOR degree in a particular discipline, the credits and grades of the additional and other subjects that are taken into account are separately indicated along with the computed GPA.

(IV) Minimum GPA for a Minor in any discipline is 6.00.

7. Duration of Course

Minimum duration of the B.Tech. (Hons.); B.Arch. (Hons.); Dual Degree for B.Tech. (Hons.) & M.Tech. (or MBA); Integrated B.Sc. (Hons.) and M.Sc.; Integrated B.Sc. (Hons.) and M.Sc. & M. Tech.; B.S. and M.Sc. degree is given on the front cover page.

However, with the approval of the Senate a slow paced student may take more semesters to complete the degree requirements.

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Statement of Academic Performance

of

ARZA AKHIL

Five Year Programme in

**BACHELOR OF TECHNOLOGY (HONOURS)
AND
MASTER OF TECHNOLOGY**