



**INDIAN INSTITUTE OF TECHNOLOGY KHARAGPUR**  
**STATEMENT OF GRADES OBTAINED FOR THE 8 SEMESTER COURSE IN ENGINEERING/TECHNOLOGY LEADING TO THE AWARD OF**  
**BACHELOR OF TECHNOLOGY (HONOURS)**



Roll No: 17EC10045

Name: RAVI HARESHBHAI GHADIA

Year of Admission : 2017-2018

Course: B.Tech.(Hons.) in ELECTRONICS AND ELECTRICAL COMMUNICATION ENGINEERING

Year of Graduation : 2020-2021

For Semester 1		SGPA: 8.82	CGPA: 8.82		
Subno	Name	L-T-P	CRD	GRD	
CY11001	CHEMISTRY	3-1-0	4	A	
CY19001	CHEMISTRY LAB.	0-0-3	2	A	
EA10001	EXTRA ACADEMIC ACTIVITY-I	0-0-3	0	Y	
EA10005	INDUCTION PROGRAM	0-0-0	0	Y	
EE11001	ELECTRICAL TECHNOLOGY	3-1-0	4	B	
EE19001	ELECTRICAL TECHNOLOGY LAB.	0-0-3	2	A	
HS13001	ENGLISH FOR COMMUNICATION	3-0-2	4	A	
MA10001	MATHEMATICS-I	3-1-0	4	A	
ME19001	INTRODUCTION TO MANUFACTURING PROCESSES	0-0-3	2	A	

For Semester 2		SGPA: 8.87	CGPA: 8.84		
Subno	Name	L-T-P	CRD	GRD	
CE13001	ENGINEERING DRAWING AND COMPUTER GRAPHICS	1-0-3	3	A	
CS10001	PROGRAMMING AND DATA STRUCTURES	3-0-0	3	B	
CS19101	PROGRAMMING AND DATA STRUCTURES TUTORIAL AND LABORATORY	0-1-3	3	A	
EA10002	EXTRA ACADEMIC ACTIVITY-II	0-0-3	0	Y	
MA10002	MATHEMATICS-II	3-1-0	4	B	
ME10001	MECHANICS	3-1-0	4	EX	
PH11001	PHYSICS	3-1-0	4	A	
PH19001	PHYSICS LAB.	0-0-3	2	A	

For Semester 3		SGPA: 9.50	CGPA: 9.06		
Subno	Name	L-T-P	CRD	GRD	
EA10003	EXTRA ACADEMIC ACTIVITY-III	0-0-3	0	C	
EC21005	NETWORK THEORY	3-1-0	4	EX	
EC21103	INTRODUCTION TO ELECTRONICS	3-1-0	4	A	
EC21107	SEMICONDUCTOR DEVICES	3-1-0	4	A	
EC29003	INTRODUCTION TO ELECTRONICS LAB.	0-0-3	2	EX	
EC29005	NETWORK THEORY LAB.	0-0-3	2	EX	
IT30037	INTRODUCTION TO INTERNET	3-0-0	3	EX	
MA20107	MATRIX ALGEBRA	3-0-0	3	A	

For Semester 4		SGPA: 9.52	CGPA: 9.18		
Subno	Name	L-T-P	CRD	GRD	
BS20001	SCIENCE OF LIVING SYSTEM	2-0-0	2	A	
EA10004	EXTRA ACADEMIC ACTIVITY-IV	0-0-3	0	D	
EC21004	SIGNALS AND SYSTEMS	3-1-0	4	A	
EC21006	ELECTROMAGNETIC ENGINEERING	3-1-0	4	EX	
EC21008	ANALOG ELECTRONIC CIRCUITS	3-1-0	4	EX	
EC29004	DEVICES LABORATORY	0-0-3	2	EX	
EC29008	ANALOG CIRCUITS LAB.	0-0-3	2	A	
EV20001	ENVIRONMENTAL SCIENCE	2-0-0	2	EX	
MA20106	PROBABILITY & STOCHASTIC PROCESSES	3-0-0	3	A	

For Semester 5		SGPA: 8.92	CGPA: 9.12		
Subno	Name	L-T-P	CRD	GRD	
EC31001	ANALOG COMMUNICATION	3-1-0	4	EX	
EC31003(*1)	DIGITAL ELECTRONIC CIRCUITS	3-1-0	4	A	
EC31005	RF & MICROWAVE ENGINEERING	3-1-0	4	A	
EC39001	ANALOG COMMUNICATIONS LAB.	0-0-3	2	EX	
EC39003(*1)	DIGITAL ELECTRONIC CIRCUITS LAB.	0-0-3	2	B	
EC39005	MICROWAVE LABORATORY	0-0-3	2	B	
EE31009	CONTROL SYSTEM ENGINEERING	3-1-0	4	B	
TE30002	INTRODUCTION TO WIRELESS COMMUNICATIONS	2-0-0	2	A	

For Semester 6		SGPA: 9.65	CGPA: 9.21		
Subno	Name	L-T-P	CRD	GRD	
EC31002	DIGITAL COMMUNICATION	3-1-0	4	EX	
EC31004	VLSI ENGG.	3-0-0	3	EX	
EC31006	MICROCONTROLLER & EMBEDDED SYSTEMS	3-0-0	3	EX	
EC31008	DIGITAL SIGNAL PROCESSING	3-1-0	4	B	
EC39002	DIGITAL COMMUNICATION LABORATORY	0-0-3	2	EX	
EC39004	VLSI LABORATORY	0-0-3	2	EX	
EC39006	DSP LABORATORY	0-0-3	2	EX	
EP60042	ENGINEERING DESIGN PROCESS	3-0-0	3	EX	

For Semester 7		SGPA: 9.90	CGPA: 9.30		
Subno	Name	L-T-P	CRD	GRD	
A161003	LINEAR ALGEBRA FOR AI AND ML	3-1-0	4	EX	
CS60073	ADVANCED MACHINE LEARNING	3-0-0	3	EX	
CS60092(*1)	INFORMATION RETRIEVAL	3-0-0	3	EX	
EC47007	PROJECT-I	0-0-0	3	EX	
EC48001	INDUSTRIAL TRAINING	0-0-0	2	EX	
EC49001	MICROCONTROLLER SYSTEMS LABORATORY	0-0-3	2	A	
EC60091	MACHINE INTELLIGENCE & EXPERT SYSTEMS	3-0-0	3	EX	

For Semester 8		SGPA: 9.73	CGPA: 9.35		
Subno	Name	L-T-P	CRD	GRD	
CS31702(*1)	COMPUTER ARCHITECTURE AND OPERATING SYSTEM	4-0-0	4	EX	
CS60075	NATURAL LANGUAGE PROCESSING	3-0-0	3	EX	
EC47004	PROJECT-II	0-0-9	6	EX	
EC48002	COMPREHENSIVE VIVA-VOCE	0-0-0	2	A	
EC60204	DIGITAL VLSI CIRCUITS	3-1-0	4	A	
EP60020	FOUNDATIONS OF ENTREPRENEURSHIP	3-0-0	3	EX	

Additional subjects taken into account for earning a Minor

Subno	Name	L-T-P	CRD	Semno	GRD
CS29003	ALGORITHMS LABORATORY	0-0-3	2	4	B
CS21003	ALGORITHMS - I	3-1-0	4	4	A
CS60050	MACHINE LEARNING	3-0-0	3	5	EX
CS60094	COMPUTATIONAL NUMBER THEORY	3-0-0	3	6	B

GPA in Minor: 9.12

Minor in : COMPUTER SCIENCE & ENGINEERING

\*1 sign against a major curricular subject indicates that it has been taken into account for Minor

Details of other additional subjects

Subno	Name	L-T-P	CRD	Semno	GRD
EC61409	NEURAL NETWORKS AND APPLICATIONS	3-0-0	3	5	EX
CD66001	ACCELERATED DATA SCIENCE	0-0-0	1	8	EX

Total Additional Credits Taken: 16  
GPA in Additional Subjects: 9.13

Total Additional Credits Cleared: 16

Total Credits Taken in Major Curriculum: 179    Total Credits Cleared: 179    CGPA: 9.35

Date of Issue: 9 July 2021

Checked by Superintendent (Academic):

Joint Registrar (Academic):

## GENERAL INFORMATION

1. Abbreviations used in the grade card are as follows:

- 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.

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
Fail	F	0

5. Highest possible CGPA in the system is 10.00. No formula is specified for converting letter grades or CGPA into percentage of marks.

6. (I) A student is awarded a B.Tech. (Hons.) / B.Arch. (Hons.) / Dual Degree for B.Tech. (Hons.) and M.Tech. / Integrated B.Sc. (Hons.) and M.Sc. or M. Tech. / 2Yrs. 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.) and M.Tech. (or MBA) / B.Sc. (Hons.) 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.

## INDIAN INSTITUTE OF TECHNOLOGY KHARAGPUR



### Statement of Academic Performance

of

**RAVI HARESHBHAI GHADIA**

**Four Year Programme in**

**BACHELOR OF TECHNOLOGY (HONOURS)**

**with Minor in**

**COMPUTER SCIENCE AND ENGINEERING**