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: 17EC34003 **Name: MANIDEEP MAMINDLAPALLY** **Year of Admission : 2017-2018**

Course: B.Tech.(Hons.) in ELECTRONICS AND ELECTRICAL COMMUNICATION ENGINEERING and M.Tech. in TELECOMMUNICATION SYSTEM ENGINEERING **Year of Graduation : 2021-2022**

For Semester 1 SGPA: 9.27 CGPA: 9.27

Subno	Name	L-T-P	CRD	GRD
CY11001	CHEMISTRY	3-1-0	4	EX
CY19001	CHEMISTRY LAB.	0-0-3	2	EX
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	A
EE19001	ELECTRICAL TECHNOLOGY LAB.	0-0-3	2	EX
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	B

For Semester 2 SGPA: 9.43 CGPA: 9.36

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	EX
CS19101	PROGRAMMING AND DATA STRUCTURES TUTORIAL AND LABORATORY	0-1-3	3	EX
EA10002	EXTRA ACADEMIC ACTIVITY-II	0-0-3	0	Y
MA10002	MATHEMATICS-II	3-1-0	4	A
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: 9.23 CGPA: 9.31

Subno	Name	L-T-P	CRD	GRD
EA10003	EXTRA ACADEMIC ACTIVITY-III	0-0-3	0	A
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	B
MA20107	MATRIX ALGEBRA	3-0-0	3	A

For Semester 4 SGPA: 8.43 CGPA: 9.09

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

For Semester 5 SGPA: 8.68 CGPA: 9.00

Subno	Name	L-T-P	CRD	GRD
EC31001	ANALOG COMMUNICATION	3-1-0	4	EX
EC31003(*1)	DIGITAL ELECTRONIC CIRCUITS	3-1-0	4	B
EC31005	RF & MICROWAVE ENGINEERING	3-1-0	4	B
EC39001	ANALOG COMMUNICATIONS LAB.	0-0-3	2	A
EC39003(*1)	DIGITAL ELECTRONIC CIRCUITS LAB.	0-0-3	2	A
EC39005	MICROWAVE LABORATORY	0-0-3	2	A
EE31009	CONTROL SYSTEM ENGINEERING	3-1-0	4	B
HS60005	INTRODUCTION TO INDIAN PSYCHOLOGY	3-0-0	3	A

For Semester 6 SGPA: 8.83 CGPA: 8.97

Subno	Name	L-T-P	CRD	GRD
EC31002	DIGITAL COMMUNICATION	3-1-0	4	B
EC31004	VLSI ENGG.	3-0-0	3	B
EC31006	MICROCONTROLLER & EMBEDDED SYSTEMS	3-0-0	3	A
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	A
IM41082	OPERATIONS RESEARCH	3-0-0	3	EX

For Semester 7 SGPA: 9.67 CGPA: 9.05

Subno	Name	L-T-P	CRD	GRD
EC47007	PROJECT-I	0-0-0	3	EX
EC49001	MICROCONTROLLER SYSTEMS LABORATORY	0-0-3	2	A
EC60083	INFORMATION THEORY & CODING TECHNIQUES	3-0-0	3	EX
EC60601	DIGITAL VOICE AND PICTURE COMMUNICATION	3-1-0	4	EX
EC60603	MODERN DIGITAL COMMUNICATION TECHNIQUES	3-1-0	4	A
EC69023	TELECOMMUNICATION SYSTEMS ENGG. LAB	0-0-3	2	EX

For Semester 8 SGPA: 9.83 CGPA: 9.16

Subno	Name	L-T-P	CRD	GRD
CS60094(*1)	COMPUTATIONAL NUMBER THEORY	3-0-0	3	EX
EC47004	PROJECT-II	0-0-9	6	EX
EC48002	COMPREHENSIVE VIVA-VOCE	0-0-0	2	A
EC60052	TELECOMMUNICATION SWITCHING & NETWORKS	3-1-0	4	EX
EC60054	MOBILE COMMUNICATIONS AND FADING	3-1-0	4	EX
EC69402	DESIGN AND SIMULATION LAB-I	0-0-3	2	A
HS30048	GERMAN	3-0-0	3	EX

For Semester 9 SGPA: 9.76 CGPA: 9.23

Subno	Name	L-T-P	CRD	GRD
CS41103	COMPUTATIONAL COMPLEXITY	3-1-0	4	EX
CS60005	FOUNDATIONS OF COMPUTING SCIENCE	3-1-0	4	EX
EC48001	INDUSTRIAL TRAINING	0-0-0	2	EX
EC57003	PROJECT	0-0-15	12	EX
EC60091	MACHINE INTELLIGENCE & EXPERT SYSTEMS	3-0-0	3	B

For Semester 10 SGPA: 9.32 CGPA: 9.24

Subno	Name	L-T-P	CRD	GRD
CS31702(*1)	COMPUTER ARCHITECTURE AND OPERATING SYSTEM	4-0-0	4	B
CS60023	APPROXIMATION AND ONLINE ALGORITHMS	3-0-0	3	A
EC57004	PROJECT	0-0-22	13	EX
EC58002	COMPREHENSIVEVIVA VOCE	0-0-0	2	B

Additional subjects taken into account for earning a Minor

Subno	Name	L-T-P	CRD	Semno	GRD
CS21003	ALGORITHMS - I	3-1-0	4	4	EX
CS29003	ALGORITHMS LABORATORY	0-0-3	2	4	EX
CS60050	MACHINE LEARNING	3-0-0	3	5	EX
CS60025	ALGORITHMIC GAME THEORY	3-0-0	3	7	A

GPA in Minor: 9.16 **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	B
EC60128	LINEAR ALGEBRA AND ERROR CONTROL TECHNIQUES	3-0-0	3	6	A
MA66005	ALGEBRAIC ANALYSIS OF DYNAMICAL SYSTEMS	0-0-0	1	6	P
TS70006	QUANTUM MECHANICS & QUANTUM COMPUTING	3-1-0	4	8	A

Total Additional Credits Taken: 23 **Total Additional Credits Cleared: 23**
GPA in Additional Subjects: 9.09

Total Credits Taken in Major Curriculum: 227 **Total Credits Cleared: 227** **CGPA: 9.24**

Date of Issue: 16 June 2022 Checked by Superintendent (Academic): Deputy Registrar (Academic):

Digitally signed by Gopal Sinha
Date: 2022.06.16 12:14:46 +05:30

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.

INDIAN INSTITUTE OF TECHNOLOGY KHARAGPUR

Statement of Academic Performance

of

MANIDEEP MAMINDLAPALLY

Five Year Programme in

BACHELOR OF TECHNOLOGY (HONOURS)
AND
MASTER OF TECHNOLOGY

with Minor in

COMPUTER SCIENCE AND ENGINEERING