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: 16CS30042   **Name: ADITYA RASTOGI**   **Year of Admission : 2016-2017**

Course: B.Tech.(Hons.) in COMPUTER SCIENCE AND ENGINEERING and M.Tech. in COMPUTER SCIENCE AND ENGINEERING   **Year of Graduation : 2020-2021**

For Semester 1   SGPA: 10.00   CGPA: 10.00

Subno	Name	L-T-P	CRD	GRD
CE13001	ENGINEERING DRAWING AND COMPUTER GRAPHICS	1-0-3	3	EX
CS10001	PROGRAMMING AND DATA STRUCTURES	3-0-0	3	EX
CS19101	PROGRAMMING AND DATA STRUCTURES TUTORIAL AND LABORATORY	0-1-3	3	EX
EA10001	EXTRA ACADEMIC ACTIVITY-I	0-0-3	0	EX
MA10001	MATHEMATICS-I	3-1-0	4	EX
ME10001	MECHANICS	3-1-0	4	EX
PH11001	PHYSICS	3-1-0	4	EX
PH19001	PHYSICS LAB.	0-0-3	2	EX

For Semester 2   SGPA: 9.64   CGPA: 9.82

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

For Semester 3   SGPA: 9.40   CGPA: 9.67

Subno	Name	L-T-P	CRD	GRD
CS21001	DISCRETE STRUCTURES	3-1-0	4	EX
CS21003	ALGORITHMS - I	3-1-0	4	A
CS29003	ALGORITHMS LABORATORY	0-0-3	2	EX
EA10003	EXTRA ACADEMIC ACTIVITY-III	0-0-3	0	Y
EC21103	INTRODUCTION TO ELECTRONICS	3-1-0	4	EX
EC29003	INTRODUCTION TO ELECTRONICS LAB.	0-0-3	2	A
EE21101	SIGNALS & NETWORKS	3-1-0	4	A
EE29001	SIGNALS & NETWORKS LAB.	0-0-3	2	A
HS30068	SYMBOLIC LOGIC	3-0-0	3	A

For Semester 4   SGPA: 9.48   CGPA: 9.63

Subno	Name	L-T-P	CRD	GRD
CS20006	SOFTWARE ENGINEERING	3-0-0	3	A
CS21002	SWITCHING CIRCUITS AND LOGIC DESIGN	3-1-0	4	EX
CS21004	FORMAL LANGUAGE AND AUTOMATA THEORY	3-1-0	4	EX
CS29002	SWITCHING CIRCUITS LABORATORY	0-0-3	2	EX
CS29006	SOFTWARE ENGINEERING LABORATORY	0-0-3	2	A
EA10004	EXTRA ACADEMIC ACTIVITY-IV	0-0-3	0	Y
HS30047	FRENCH	3-0-0	3	B
MA20104	PROBABILITY & STATISTICS	3-0-0	3	EX

For Semester 5   SGPA: 8.96   CGPA: 9.49

Subno	Name	L-T-P	CRD	GRD
CS31003	COMPILERS	3-0-0	3	A
CS31005	ALGORITHMS -II	3-1-0	4	B
CS31007	COMPUTER ORGANIZATION & ARCHITECTURE	3-1-0	4	B
CS39001	COMPUTER ORGANIZATION LABORATORY	0-0-6	4	EX
CS39003	COMPILERS LABORATORY	0-0-3	2	A
CS40003	DATA ANALYTICS	3-0-0	3	EX
MA61027	CRYPTOGRAPHY AND NETWORK SECURITY	3-1-0	4	A

For Semester 6   SGPA: 9.13   CGPA: 9.42

Subno	Name	L-T-P	CRD	GRD
BS20001	SCIENCE OF LIVING SYSTEM	2-0-0	2	EX
CS30002	OPERATING SYSTEMS	3-0-0	3	EX
CS31006	COMPUTER NETWORKS	3-0-0	3	A
CS39002	OPERATING SYSTEMS LABORATORY	0-0-3	2	A
CS39006	NETWORKS LAB.	0-0-3	2	A
CS39008	PROJECT SEMINAR	0-0-3	2	EX
CS60069	COMPUTATIONAL COMPLEXITY	3-1-0	4	EX
CS61062	COMBINATORICS AND COMPUTING	3-1-0	4	B
EV20001	ENVIRONMENTAL SCIENCE	2-0-0	2	A

For Semester 7   SGPA: 9.47   CGPA: 9.43

Subno	Name	L-T-P	CRD	GRD
CS40019	IMAGE PROCESSING	3-0-0	3	EX
CS41001	THEORY OF COMPUTATION	3-1-0	4	A
CS47007	PROJECT-I	0-0-0	3	EX
CS60045	ARTIFICIAL INTELLIGENCE	3-0-0	3	EX
CS60059	OBJECT ORIENTED SYSTEMS	3-0-0	3	B
CS60077	REINFORCEMENT LEARNING	3-0-0	3	EX

For Semester 8   SGPA: 9.68   CGPA: 9.46

Subno	Name	L-T-P	CRD	GRD
CS47006	PROJECT- PART 2	0-0-9	6	EX
CS60003	HIGH PERFORMANCE IN COMPUTER ARCHITECTURE	4-0-0	4	EX
CS60010	DEEP LEARNING	3-0-0	3	A
CS60092	INFORMATION RETRIEVAL	3-0-0	3	EX
IM41082	OPERATIONS RESEARCH	3-0-0	3	A

For Semester 9   SGPA: 10.00   CGPA: 9.53

Subno	Name	L-T-P	CRD	GRD
AI61003	LINEAR ALGEBRA FOR AI AND ML	3-1-0	4	EX
CS48003	SUMMER TRAINING	0-0-0	2	EX
CS57003	PROJECT- PART 1	0-0-18	12	EX
CS58003	B.TECH. COMPREHENSIVE VIVA	0-0-0	2	EX
CS59001	DESIGN LABORATORY	0-0-3	2	EX
CS60075	NATURAL LANGUAGE PROCESSING	3-0-0	3	EX
ET60023	INTRODUCTION TO COGNITIVE INFORMATION PROCESSING	3-0-0	3	EX

For Semester 10   SGPA: 9.68   CGPA: 9.55

Subno	Name	L-T-P	CRD	GRD
CS57004	PROJECT- PART 2	0-0-20	13	EX
CS58004	COMPREHENSIVE VIVA	0-0-0	2	EX
EC60004	NEURONAL CODING OF SENSORY INFORMATION	3-0-0	3	A
EE61008	MEDICAL IMAGE ANALYSIS	3-1-0	4	A

Details of additional subjects

Subno	Name	L-T-P	CRD	Semno	GRD
CS60050	MACHINE LEARNING	3-0-0	3	4	B
CS66006	COMPUTATIONAL INTELLIGENCE IN CYBER SECURITY	0-0-0	1	5	A
CD66001	ACCELERATED DATA SCIENCE	0-0-0	1	10	EX

Total Additional Credits Taken: 5   **Total Additional Credits Cleared: 5**
GPA in Additional Subjects: 8.60

Total Credits Taken in Major Curriculum: 227   Total Credits Cleared: 227   CGPA: 9.55

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

ADITYA RASTOGI

Five Year Programme in

BACHELOR OF TECHNOLOGY (HONOURS) AND MASTER OF TECHNOLOGY