Name	Ajay Ramesh Ranganathan
Roll Number	IMT2017502
Daughter / Son of	Ramesh Ranganathan

Programme Name	Integrated Master of Technology
Branch	
Specialization	

Medium of Instruction	English
Admission Year	2017
Date of Birth	18/12/1998

Term I [2017-18]

Course Code	Course Name	Credit	Grade
ESS 101	Programming I	4	B
GEN 101	English	2	A-
GEN 102	Physical Education 1	0	P
HS 101	Economics	4	B-
SM 101	Chemistry	3	B-
SM 103	Mathematics - 1	4	B-
SGPA	**2.88**	**Total Credits**	**17**

Term II [2017-18]

Course Code	Course Name	Credit	Grade
EG 101	Computer Networks	4	B+
EG 102	Data Structures and Algorithms	4	B-
EG 102P	Data Structures Lab	2	B+
ESS 102	Digital Design	4	A
GEN 201	Technical Communication	2	B+
SM 101P	Computational Chemistry	1	A-
SM 102	Mathematics - 2	4	B+
SGPA	**3.39**	**Total Credits**	**21**

Term I [2020-21]

Course Code	Course Name	Credit	Grade
AI 901	Project Elective	4	A
CS 604	Artificial Intelligence	4	A
DT 313	Technology Ethics & Artificial Intelligence	4	A
EC 305	Control theory	3	A
VL 503	Digital CMOS VLSI Design	4	B+
SGPA	**3.87**	**Total Credits**	**19**

Term II [2020-21]

Course Code	Course Name	Credit	Grade
AI 901	Project Elective	4	A
DT 295	Reading Elective	4	A
NC 824	Cyber Security Fundamentals with Tools & Techniques for Defence	4	B
NC 863	Fundamentals of Radar Sensing - Lecture	4	A
VL 813	Real Time Operating Systems	4	A
SGPA	**3.8**	**Total Credits**	**20**

Term I [2018-19]

Course Code	Course Name	Credit	Grade
EC 201	Basic Electronics	2	A
EC 201P	Electronics Lab	2	A
EG 201	Computer Architecture	3	A-
EG 201P	Computer Architecture Lab	1	A-
ESS 201	Programming II	4	A-
SM 201	Mathematics - 3	4	C
SM 203	Physics - 1	3	B
SM 203P	Physics Lab - 1	1	A-
SGPA	**3.31**	**Total Credits**	**20**

Term II [2018-19]

Course Code	Course Name	Credit	Grade
EC 202	Electronic Devices and Circuits	3	A-
EC 202P	Electronic Devices and Circuits lab	1	A
ESS 103	Signals and Systems	4	B+
HSS 103	History of Ideas	4	A-
SM 202	Mathematics - 4	4	B
SM 204	Physics-2	3	B
SM 204P	Physics-2 Lab	1	A-
SGPA	**3.41**	**Total Credits**	**20**

Term I [2019-20]

Course Code	Course Name	Credit	Grade
EC 302	Microprocessors and Microcontrollers	3	A-
EC 302P	Microprocessors and Microcontrollers Lab	1	B+
EC 303	Principles of Communication Systems	3	A
EC 303P	Principles of Communication Systems Lab	1	A
EC 304	Signal Processing	3	A
GEN 511	Machine Learning	4	A-
GEN 512	Mathematics for Machine Learning	4	B+
SGPA	**3.73**	**Total Credits**	**19**

Term II [2019-20]

Course Code	Course Name	Credit	Grade
DS/SP 823	Automatic Speech Recognition	4	A-
EC 306	Digital Communication	3	A
EC 306P	Digital Communication Lab	1	A
EG 301	Operating Systems	3	A-
EG 301P	Operating Systems Lab	1	A-
HSS 106	Digital Sociology	4	A
NC 812/ESD 812	Internet of Things	4	A
SP 825	Visual Recognition	4	A-
SGPA	**3.85**	**Total Credits**	**24**

Cumulative Grade Point Average (CGPA): 3.54 / 4.00   **Total Credits: 160**

For Office Use
Date: 19-Jul-2021

SR Sridhar
Commodore (Retd)

Registrar

Please see reverse for additional information

Transcript Notes

1. IIITB follows a 4-point grading scheme. Students are awarded Letter grades in courses as shown in the table below. The grade point equivalent of the letter is also shown in the table.

Letter Grade	A	A-	B+	B	B-	C+	C	D	F	S	P
Grade Points	4.0	3.7	3.4	3.0	2.7	2.4	2.0	1.0	0.0	0.0	0.0
Description	Excellent		Good			Satisfactory		Poor	Failure	Satisfactory	Pass

S: Satisfactory X: Unsatisfactory I: Incomplete P: Pass

2. Cumulative Grade Point Average (CGPA) is the average of the grade points obtained by the student weighted by the credits associated in each of the courses taken by the student. If the grade points awarded to a student are G_1, G_2, etc. In the courses with corresponding credits U_1, U_2, etc, the CGPA is given by

$$CGPA = \frac{U_1{*}G_1 + U_2{*}G_2 + ...}{U_1 + U_2 + ...}$$

3. The minimum Cumulative Grade Point Average (CGPA) required for a student to graduate is 2.4.

4. If a student repeats a course, both the old grade and new grade are shown in the transcript with appropriate annotation indicating reasons like:

   * = Repeated, $ = Substitute, # = Grade Improvement

5. An academic Year is comprised of three terms: *Term I* (August - November), *Term II* (Jan - April), *Summer* (June - July). First year M.Tech. students have an additional *Preparatory Term* of 3 weeks duration in the month of July.

6. IIITB does not prescribe any formula for conversion of CGPA into equivalent percentage or any other scale.

Course Category Prefix Information

Course	Category
SM	Mathematics and Basic Science
CC	Information Technology Core
CS	Computer Science
DS	Data Science
DT	Digital Society
ESS	Basic Engineering Science / Skills
EG	Engineering Core
GEN	General Skills
BS	Basic Science

Course	Category
ESD	Electronics Systems Design
HSS	Humanities and Social
ITD	IT in Domains
NC	Networking & Communication
OT	Others
SE	Software Engineering
SP	Signal Processing and Pattern Recognition
ES	Engineering Science

Term Calendar Information

Term	Calendar
Term I	August - December
Term II	January - May
Term III	June - July