

क्रम संख्या
Serial No.

32430



अनुक्रमांक 2K12/MC/35.
Roll No.



दिल्ली प्रौद्योगिकी विश्वविद्यालय DELHI TECHNOLOGICAL UNIVERSITY



बैचलर ऑफ़ टेक्नोलॉजी

विश्वविद्यालय की शैक्षणिक परिषद की अनुशंसा पर

मनभर

को मैथमेटिक्स एंड कंप्यूटिंग में बैचलर ऑफ़ टेक्नोलॉजी

की उपाधि द्वितीय श्रेणी में प्रदान की जाती है, जिन्होंने इस उपाधि को प्रदान किए जाने हेतु विश्वविद्यालय के अध्यादेशों के तहत निर्धारित अपेक्षाओं को वर्ष 2016 में सफलतापूर्वक पूर्ण कर लिया है। इन्हें उक्त उपाधि से तृतीय दीक्षान्त समारोह में 8 दिसंबर 2016 को विभूषित किया गया।

BACHELOR OF TECHNOLOGY

Upon the recommendation of the Academic Council of the University

MANBHAR

is awarded the degree of

Bachelor of Technology in Mathematics & Computing

who has successfully completed the requirements prescribed under the ordinances of the University for the award of this degree in Second Class in the year 2016. He/She is admitted to the said degree at the 3rd Convocation held on December 8, 2016.

NAJARI

कुलसचिव
Registrar,

दिल्ली, (भारत) दिनांक
Delhi, (India) dated the

December 8, 2016

Geeta M

कुलपति
Vice-Chancellor



दिल्ली प्रौद्योगिकी विश्वविद्यालय
DELHI TECHNOLOGICAL UNIVERSITY
(Formerly Delhi College of Engineering)

DTU
Delhi Technological
UNIVERSITY

F.No. 101/B.Tech./Acad/CGPA/2017 /3228

Dated: - 05.09.2017

TO WHOM SO EVER IT MAY CONCERN

This is to certify that Mr./Ms. Manbhar, (Roll No.2K12/MC/035) was a bonafide student of B.Tech (Mathematics & Communication Engineering) in Delhi Technological University.

DTU declares result in terms of SPI and CPI for semester and consolidated results respectively. SPI/CPI are weighted percentage in terms of Credits earned. DTU does not announce result in SGPA/CGPA terms. However, SPI/CPI can be converted as follows.

$$\text{CGPA/SGPA} = \left\{ \frac{\text{CPI/SPI}}{10} + 0.75 \right\}$$

S.No.	Consolidated	CPI	CGPA
1.	(1 st to 8 th Semester)	53.65	6.11

Amour
5/9/17
Prepared & Checked By

R. Pandey
(Prof. Rajeshwari Pandey)
Associate Dean Academic (UG)



S. No.

182307

DELHI TECHNOLOGICAL UNIVERSITY

(Formerly Delhi College of Engineering)

STATEMENT OF MARKS

Consolidated Report Bachelor of Technology Mathematics & Computing

Name: MANBHAR

Roll no: 2K12/MC/35

Paper Code	Subject Title	C	M	Paper Code	Subject Title	C	M
Semester : I SPI 42.03				Semester : II SPI 53.07			
AM-101	MATHEMATICS-I	0	17	AM-111	MATHEMATICS-II	4	51
HU-102	COMMUNICATION SKILLS	3	42	EN-112	ENVIRONMENTAL SCIENCE	2	53
AP-103	APPLIED PHYSICS-I	4	52	AP-113	APPLIED PHYSICS-II	4	51
AC-104	APPLIED CHEMISTRY	4	46	AP-AC 114	ENGINEERING MATERIALS	4	40
EE-105	ELECTRICAL SCIENCE	4	40	ME-115	BASIC MECHANICAL ENGINEERING	4	40
IT-106	FUNDAMENTALS OF INFORMATION TECHNOLOGY	3	45	CO-116	PROGRAMMING FUNDAMENTALS	2	48
AP-107	APPLIED PHYSICS-I LAB	2	48	AP-117	APPLIED PHYSICS LAB-II	2	82
AC-108	APPLIED CHEMISTRY LAB	2	48	CO-118	PROGRAMMING LAB	2	66
EE-109	ELECTRICAL SCIENCE LAB	2	62	ME-119	ENGINEERING GRAPHICS	3	54
IT-110	FUNDAMENTALS OF INFORMATION TECHNOLOGY LAB	2	66	PIE-120	MECHANICAL WORKSHOP	3	68
Semester : III SPI 44.77				Semester : IV SPI 49.03			
MC-201	MATHEMATICS-III	4	40	MC-211	REAL ANALYSIS	4	40
MC-202	DIFFERENTIAL EQUATIONS	4	40	MC-212	LINEAR ALGEBRA	4	40
MC-203	DISCRETE MATHEMATICS	4	46	MC-213	DIGITAL LOGIC DESIGN	4	40
MC-204	DATA STRUCTURE	4	50	MC-214	OBJECT ORIENTED PROGRAMMING	4	45
MC-205	PROBABILITY & STATISTICS	0	30	MC-215	SCIENTIFIC COMPUTING	4	40
MC-206	ENGINEERING ECONOMICS	3	40	MC-216	COMPUTER ORGANISATION & ARCHITECTURE	3	41
MC-207	MATHEMATICAL APPLICATIONS LAB	2	87	MC-217	SCIENTIFIC COMPUTING LAB	2	72
MC-208	PROBABILITY & STATISTICS LAB	2	61	MC-218	DIGITAL LOGIC DESIGN LAB	2	78
MC-209	DATA STRUCTURE LAB	2	75	MC-219	OBJECT ORIENTED PROGRAMMING LAB	2	76
MC-210	SELF STUDY / SEMINAR	1	73	MC-220	SELF STUDY / SEMINAR	1	76
Semester : V SPI 54.33				Semester : VI SPI 46.13			
MC-301	MODERN ALGEBRA	4	40	MC-311	ALGORITHM DESIGN & ANALYSIS	4	46
MC-302	OPERATIONS RESEARCH	4	43	MC-312	STOCHASTIC PROCESSES	4	40
MC-303	FINANCIAL ENGINEERING	4	40	MC-313	MATRIX COMPUTATION	4	40
MC-304	INFORMATION & NETWORK SECURITY	4	53	MC-314	THEORY OF COMPUTATION	0	27
MC-305	DATABASE MANAGEMENT SYSTEM	4	48	MC-315	OPERATING SYSTEM	4	40
MC-306	DATABASE MANAGEMENT SYSTEM LAB	2	74	MC-316	OPERATING SYSTEM LAB	2	63
MC-307	OPERATIONS RESEARCH LAB	2	80	MC-317	STOCHASTIC PROCESSES & MATRIX COMPUTATION LAB	2	83
MC-308	INFORMATION & NETWORK SECURITY LAB	2	61	MC-318	MINOR PROJECT-II	4	140
MC-309	MINOR PROJECT-I	4	152	MC-319	INDUSTRIAL TRAINING - I	2	74
Semester : VII SPI 59.53				Semester : VIII SPI 58.87			
MC-401	COMPUTER GRAPHICS	4	61	MC-411	MATHEMATICAL MODELING & SIMULATION	4	41
MC-402	APPLIED GRAPH THEORY	4	41	MC-412	OPTIMIZATION TECHNIQUES	4	40
MC-403	FUZZY SET & FUZZY LOGIC	4	40	HU-413	ECONOMETRICS	4	61
HU-404	ECONOMETRICS	4	53	MC-414	MATHEMATICAL MODELING & SIMULATION LAB	3	78
MC-405	APPLIED GRAPH THEORY LAB	2	72	MC-415	OPTIMIZATION TECHNIQUES LAB	3	50
MC-406	COMPUTER GRAPHICS LAB	2	72	MC-416	MAJOR PROJECT-II	10	260
MC-407	MAJOR PROJECT-I	6	205	MC-417	SEMINAR /REPORT	2	82
MC-408	INDUSTRIAL TRAINING-II (VIVA-VOCE)	4	77				

CREDITS EARNED/TOTAL CREDITS : 228/240

DIVISION : SECOND CLASS

CPI : 53.65

CPI has been calculated on the basis of best 228 earned credits. The marks (*) have not been taken into account for calculating CPI. "C" indicates subject credit earned. "M" indicates marks secured.

RESULT : PASSED

Dated : Nov 23, 2016



(Prof. Vipin)

CONTROLLER OF EXAMINATIONS

Date of Declaration of Result 16/11/2016

Classification of Results for B.Tech. programs :

- (i) The Semester Performance Index (SPI) shall be calculated on the basis of the credits and percentage of marks secured in the subjects of the semester passed by the student as follows:
- $$SPI = \frac{\sum (\text{Subject Credits} \times \% \text{ Marks Secured})}{(\sum \text{Credits for the semester})}$$
- (ii) Cumulative Performance Index (CPI) for the degree course :- A student having secured the minimum credits as needed for the degree course will be eligible for the award of degree. The final result will be evaluated as follows :
- $$CPI = \frac{\sum (\text{Subject Credits} \times \% \text{ Marks Secured})}{(\sum \text{Credits for the course})}$$
- (iii) The final result will be classified on the basis of CPI as follows:
- CPI of seventy five percent or more ; First Class with distinction
 - CPI of sixty percent or more but less than seventy five percent ; First Class
 - CPI of fifty percent or more but less than sixty percent ; Second Class
 - CPI of forty percent or more but less than fifty percent ; Pass Class
- (iv) A student has to secure 40% marks or more to pass a subject and to earn the credits assigned to the subject.

The B.Tech Degree shall be awarded to a student if he/she has earned a minimum of two hundred twenty eight (228) credits as specified in each degree program subject to break up into compulsory and other credits as mentioned therein.

Classification of Results for M.Tech. and MBA programs :

- (i) The Semester Grade Point Average (SGPA) shall be calculated on the basis of the credits and grades awarded for the subjects passed by the student in the semester as given below:

$$SGPA = \frac{\sum_i (C_i \times GP)}{\sum_i C_i}$$

where C_i - credit for the course, GP - the grade point obtained for the course and $\sum_i C_i$ - the sum of credits of all the courses taken in that semester.

- (ii) Subject Wise Grading System for M.Tech./MBA programs :

Each student shall be awarded a final letter grade at the end of the semester in each subject based on the total marks obtained in mid - semester examination/sessional and end semester examination.

Grades	Marks Scored	Grade Points
A+	90% and above	10
A	<90% - 80%	9
B+	<80% - 70%	8
B	<70% - 60%	7
C+	<60% - 50%	6
C	<50% - 40%	5
F(Fail)	<40%	2

- (iii) Cumulative Grade Point Average (CGPA) for the program :- A candidate who has earned $\geq 40\%$ marks in aggregate and has passed all the courses in all the semesters will be declared to have passed the program and shall be eligible for the award of the degree of Master of Technology/ Master of Business Administration. Further, the successful candidate shall be awarded Grades for the award of the Degree of Master of Technology/ Master of Business Administration with the cumulative grade point average as given below :

$$CGPA = \frac{\sum_i (C_i \times GP)}{\sum_i C_i}$$

where C_i - credit for the course, GP - the grade point obtained for the course and $\sum_i C_i$ - the sum of credits of all the courses taken in the program.

Prepared By :

Checked By :

Manish