No. Exam/219800/2017-18/1520   Dated: 18.01.2018
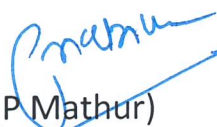
OFFICIAL TRANSCRIPT

TO WHOM IT MAY CONCERN

This is to certify that **Mr/Ms Praveen, Adm.No. 2012JE0658** was a student of this Institute. **She/He** passed **4-years B. Tech (Computer Science & Engineering)** Course in the year 2016 with an OGPA/CGPA 7.6. The medium of instruction at this Institute is English.

His/ Her duly verified Consolidated Transcript (I to VIII Semesters) and Provisional Certificate is attached.

It may be noted that as per Government of India Notification vide S.O.2870(E) of No. 2173, Part- II, Section 3-Sub section (ii) of the Gazette of India, dated 06/09/2016, the Indian School of Mines be called as Indian Institute of Technology (Indian School of Mines) Dhanbad with effect from 6th September, 2016.

(P Mathur)
Joint Registrar (Exam & Acad)
(exam@iitism.ac.in)

CC: **Mr/ Ms Praveen,**
    Adm No 2012JE0658,
    4-years B. Tech (Computer Science & Engineering) for information.

| 1926 से राष्ट्र की सेवा मे | In service of the Nation since 1926 |

INDIAN INSTITUTE OF TECHNOLOGY (INDIAN SCHOOL OF MINES) DHANBAD
Phone: (0326) 2296-559 to562 (4 Lines); Fax: (0326) 2296563
Email: exam@iitism.ac.in Website: www.iitism.ac.in

भारतीय खनि विद्यापीठ
INDIAN SCHOOL OF MINES
धनबाद/ DHANBAD - 826004

(Deemed-to-be University U/S 3 of the UGC Act. 1956
Vide No. F.11-4/67-U3 dated 18.9.1967 of Govt. of India)

अस्थायी प्रमाण-पत्र
PROVISIONAL CERTIFICATE

क्रमांक/No. 2016/ **3031**

दिनांक/Dated 06-06-2016

प्रमाणित किया जाता है कि श्री/श्रीमती/कु0 This is to certify that Mr./Mrs./Ms.

PRAVEEN

प्रवेश संख्या /Admission No. ....2012JE0658.........ने इस संस्थान की अंतिम/ has passed the final

BACHELOR OF TECHNOLOGY - COMPUTER SCIENCE AND ENGINEERING

परीक्षा मे उत्तीर्णता प्राप्त की जो/Examination of this Institute held in .... **APRIL 2016**

में संचालित की गई। उन्होनें/He/She has obtained ....7.6............ओ.जी.पी.ए.प्राप्त किया जो अधिकतम 10.00 था

एवं इन्होंने/OGPA out of a maximum of 10.00 and was placed in.............................. **FIRST CLASS**

श्रेणी प्राप्त की/Class .

VERIFIED

जाँचकर्त्ता /Checked by

Joint Registrar (Exam & Academic)
Indian Institute of Technology
(Indian School of Mines), Dhanbad

उप कुलसचिव(परीक्षा)/Dy.Registrar(Examination)
Dy. Registrar (Exam & Academic)
Indian School ... Mines, Dhanbad
PIN-826004

डिग्री प्राप्त करने के लिए सभी आर्हताओं को पूरा कर चुका है, यह प्रमाण पत्र अस्थायी रूप से जारी किया जाता है। इसकी मान्यता स्थायी डिग्री प्राप्त करने तक की है।
He/She has fulfilled all the requirements for award of degree and this certificate is issued in lieu of degree certificate and valid till the issue of degree certificate.

CONSOLIDATED TRANSCRIPT

Name: **PRAVEEN**

Admission No: 2012JE0658

Course: **BACHELOR OF TECHNOLOGY**

Branch: **COMPUTER SCIENCE AND ENGINEERING**

1 SEMESTER EXAMINATION	2012-13	MONSOON	REGULAR
SUBJECT	CR. HRS.	CR. PTS.	GRADE
PHYSICS	6	48	B+
MATHEMATICS -I	7	42	C+
ENGINEERING GRAPHICS	6	42	B
ENGINEERING MECHANICS	7	49	B
ELECTRICAL TECHNOLOGY	7	49	B
EARTH SYSTEM SCIENCE	6	48	B+
VALUE EDUCATION, HUMAN RIGHTS AND LEGISLATIVE PROCEDURE	6	48	B+
PHYSICS (P)	1.5	12	B+
ELECTRICAL TECHNOLOGY (P)	1.5	10.5	B
Result: PASS	48	348.5	GPA: 7.26

2 SEMESTER EXAMINATION	2012-13	WINTER	REGULAR
SUBJECT	CR. HRS.	CR PTS.	GRADE
MATHEMATICS II	7	63	A
CHEMISTRY	6	48	B+
MANUFACTURING PROCESS	6	48	B+
ELECTRONICS ENGINEERING	6	54	A
COMPUTER PROGRAMMING (S)	6	42	B
DISASTER MANAGEMENT & ENERGY RESOURCES (S)	6	42	B
ENGLISH FOR SCIENCE & TECHNOLOGY	6	42	B
CO-CURRICULAR ACTIVITIES	3	21	B
CHEMISTRY (P)	1.5	10.5	B
ELECTRONICS ENGINEERING (P)	1.5	13.5	A
COMPUTER PROGRAMMING (P)	2	20	A+
Result: PASS	51	404	GPA: 7.92

3 SEMESTER EXAMINATION	2013-14	MONSOON	REGULAR
SUBJECT	CR. HRS.	CR. PTS.	GRADE
PROGRAMMING LANGUAGE CONCEPT	7	49	B
DATA STRUCTURES	7	35	C
DISCRETE MATHEMATICS	7	42	C+
DIGITAL ELECTRONICS	6	36	C+
METHODS OF APPLIED MATHEMATICS - 1	7	49	B
PROGRAMMING LANGUAGE CONCEPTS PRACTICAL	3	21	B
DATA STRUCTURE PRACTICAL	3	27	A
PROJECT	2	20	A+
Result: PASS	42	279	GPA: 6.64

4 SEMESTER EXAMINATION	2013-14	WINTER	REGULAR
SUBJECT	CR. HRS.	CR PTS.	GRADE
COMPUTER ORGANISATION & ARCHITECTURE	7	56	B+
ALGORITHM DESIGN AND ANALYSIS	7	35	C
MICROPROCESSOR AND APPLICATION	6	48	B+
NUMERICAL AND STATISTICAL METHODS	7	56	B+
ENGLISH FOR PROFESSIONAL COMMUNICATION	6	48	B+
COMPUTER ORGANIZATION & ARCHITECTURE LAB	3	27	A
ALGORITHM DESIGN AND ANALYSIS LAB	3	30	A+
COMPOSITE VIVA VOCE	4	28	B
CO-CURRICULAR ACTIVITY	3	24	B+
PROJECT	2	20	A+
Result: PASS	48	372	GPA: 7.75

5 SEMESTER EXAMINATION	2014-15	MONSOON	REGULAR
SUBJECT	CR. HRS.	CR. PTS.	GRADE
COMBINATORICS AND GRAPH THEORY	6	36	C+
OPERATING SYSTEMS	7	56	B+
THEORY OF COMPUTATION	7	42	C+
SOFTWARE ENGINEERING	6	42	B
DATABASE MANAGEMENT SYSTEMS	7	49	B
OPERATING SYSTEMS LAB	3	30	A+
SOFTWARE ENGINEERING LAB	2	16	B+
DATABASE MANAGEMENT SYSTEMS LAB	3	30	A+
PROJECT	4	40	A+
Result: PASS	45	341	GPA: 7.58

6 SEMESTER EXAMINATION	2014-15	WINTER	REGULAR
SUBJECT	CR. HRS.	CR PTS.	GRADE
ARTIFICIAL INTELLIGENCE	6	36	C+
COMPUTER NETWORKS	7	56	B+
COMPUTER GRAPHICS	6	36	C+
LANGUAGE PROCESSOR	7	56	B+
MANAGERIAL ECONOMICS	6	48	B+
COMPUTER NETWORKS LAB	3	27	A
COMPUTER GRAPHICS LAB	3	30	A+
LANGUAGE PROCESSOR LAB	3	24	B+
COMPOSITE VIVA VOCE	4	36	A
PROJECT	4	40	A+
Result: PASS	49	389	GPA: 7.94

7 SEMESTER EXAMINATION	2015-16	MONSOON	REGULAR
SUBJECT	CR. HRS.	CR. PTS.	GRADE
VACATIONAL TRAINING	5	40	B+
CRYPTOGRAPHY AND NETWORK SECURITY	7	42	C+
PARALLEL & DISTRIBUTED COMPUTING	7	49	B
CRYPTOGRAPHY & NETWORK SECURITY LAB	3	27	A
PARALLEL & DISTRIBUTED COMPUTING LAB	3	27	A
PROJECT	6	36	C+
DATA MINING	6	36	C+
EVOLUTIONARY COMPUTATION	6	48	B+
Result: PASS	43	305	GPA: 7.09

8 SEMESTER EXAMINATION	2015-16	WINTER	REGULAR
SUBJECT	CR. HRS.	CR PTS.	GRADE
VLSI DESIGN	7	56	B+
INFORMATION RETRIEVAL	7	63	A
VLSI DESIGN LAB	3	30	A+
INFORMATION RETRIEVAL LAB	3	27	A
COMPOSITE VIVA VOCE	4	32	B+
PROJECT	6	54	A
SOFT COMPUTING	6	42	B
DISTRIBUTED OPERATING SYSTEMS	6	54	A
Result: PASS	42	358	GPA: 8.52

RESULT: PASS   CUMM_HRS: 368   CUMM_POINTS: 2796.5   OGPA: 7.60

DATE:20 MAY 2016

VERIFIED

CHECKED

JT.REGISTRAR(EXAM & ACAD)

Joint Registrar (Exam & Academic)
Indian Institute of Technology
(Indian School of Mines), Dhanbad

EXPLANATION AND CALCULATION

Award of Grades

IIT (ISM) follows relative grading system for the students admitted from 2013-14 session. The relative grading is determined as follows:

The score of the topper in class (T) would be subtracted by 35 (i.e. minimum mark to pass) to find the range of marks (R). The range R would be divided by the number of grade admissible for the range to find the range of each grade (Q). If Q is a fractional number, the next higher integer will be considered, else the integral part is considered. If T be the top score, the range for the highest grade is limited by T to (T-Q+1) (inclusively). The range for the immediately lower grade is determined similarly by progressively subtracting Q from the next lower number, i.e. (T-Q) to (T-2Q+1).

For other students, grades are based on range of marks (absolute grade). The performance level, grade points and the grade symbols used are given below:

Grade	Performance Level	Grade Point	Range of marks (For absolute grading)
A+	Outstanding	10	91-100
A	Excellent	9	81-90
B+	Very Good	8	71-80
B	Good	7	61-70
C+	Above Average	6	51-60
C	Average	5	41-50
D	Pass	4	35-40
F	Fail	0	Below 35

Credit Hours

Credit for each subject is calculated giving double weightage to lecture hours, and single weightage to the sessional and practical (For example if a subject has a L.T.P. 3-1-0, its credit hours will be $3 \times 2 + 1 \times 1 + 0 = 7$, or if the subject has L.T.P. of 0-0-2, its credit hours will be $0 \times 1 + 0 \times 1 + 2 \times 1 = 2$).

Weightage

Grade in each subject is awarded based on performance in sessional as well as the end-semester examination. For calculation of combined grade in a particular subject, 40% weightage is given to sessional and 60% weightage is given to the end-semester. For purely sessional subject, 100% weightage is given to the sessional. For practical subjects, 100% weightage is given to the practical.

GPA

The following formula shall be used for calculating the Grade Point Average (GPA) for a semester :

$$GPA = \frac{TCP}{TCH} = \frac{G_1C_1 + G_2C_2 + G_3C_3 + \ldots}{C_1 + C_2 + C_3 + \ldots}$$

Where G_1, G_2 etc stand for the grade point in a specified Subject and C_1, C_2 etc. stand for credit hours of the respective subjects.

TCP stands for Total Credit obtained by the student.
TCH stands for Total Credit for the Semester.

GPA stand for Grade Point Average and will be calculated up to 2nd place of decimal.

CGPA/OGPA

The CGPA/OGPA (Cumulative/Overall Grade Point Average) for the whole programme is calculated on the basis of the Credit obtained and Credit allotted to each semester as indicated below:

$$CGPA/OGPA = \frac{TCP1 + TCP2 + TCP3 + \ldots}{TCH1 + TCH2 + TCH3 \ldots}$$

Where TCP_1, TCP_2, etc. stand for Total Credit for the specified Semester and TCH_1, TCH_2, etc. stand for Total Credit for the respective semester. Along with GPA of a semester, Cumulative/Overall Grade Point Average (CGPA/OGPA) is also shown in the Grade Card issued to students for Final Semester.

Requirement for Passing etc.

In order to clear a subject, a student must obtain pass marks in the End Semester Examination. For Practical and Purely Sessional Subjects, pass marks shall be 35 out of 100. For passing a semester, a student must pass in all the subjects and secure a GPA of at least 5.00. For passing a course an OGPA of at least 5.00 is required.

The OGPA 5 < 7 OGPA, will be equivalent to pass in Second class. The OGPA 7 < 9 OGPA will be equivalent to pass in First Class. The OGPA 9 ≥ will be equivalent to pass in First Class with Distinction.

Equivalence of GPA / OGPA to percentage

For relative grading, the equivalent percentage of marks will be calculated as: (CGPA/OGPA - 0.5) × 10 and the minimum required equivalent percentage for the first class is 65% which is equivalent to OGPA of 7.

For absolute grading system based on range of marks, the GPA/OGPA × 10 will be equal to percentage of marks scored.

Medium of Instruction

The medium of instruction at the institute is ENGLISH.

Honours

Honours is an additional credential, a student may earn in the respective discipline. Honours is not indicative of class. On successful accumulation of credits at the end of the programme this will be mentioned in the Degree Certificate.

Minor

Minor is an additional credential a student may earn worth of additional learning in a discipline other than his/her discipline of B.Tech degree. The requirements for a particular minor are met within the prescribed minimum time limit for the course. The grade card for minor subject is issued separately.

Other Abbreviations used

H	Honour Subject
F	Failed in Subject
FT	Failed in Theory
FS	Failed in Sessional
FP	Failed in Practical
AB	Absent in Examination
SP	Special Examination
R	Repeat Examination
NC	Semester Examination Not Cleared
ES	Early Special Examination
UM	Unfairmeans
INC	Incomplete