

भारतीय प्रौद्योगिकी संस्थान (भारतीय खनि विद्यापीठ) धनबाद INDIAN INSTITUTE OF TECHNOLOGY (INDIAN SCHOOL OF MINES) DHANBAD धनबाद—826004, झारखण्ड, भारत DHANBAD-826004, JHARKHAND, INDIA

No. Exam/219800/2024-25/4458

Dated: 14.08.2024

OFFICIAL TRANSCRIPT

TO WHOM IT MAY CONCERN

This is to certify that Mr/Ms Akshay Ravindra Kargaonkar, Adm.No. 18JE0074, was a student of this Institute. He/She passed 4-years B.Tech (Mechanical Engineering) Course in the year 2022 with an OGPA/CGPA 8.01. The medium of instruction at this Institute is English.

His/Her duly verified Grade Sheet and Degree Certificate are attached.

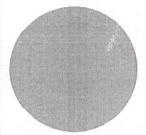
(Ranti Dev Sharma)

Dy. Registrar (Academic)

(certificates@iitism.ac.in)

CC: Mr/Ms Akshay Ravindra Kargaonkar,
Adm No 18JE0074,
4-years B.Tech (Mechanical Engineering) for Information.

भारतीय प्रौद्योगिकी संस्थान (भारतीय खनि विद्यापीठ), धनबाद



अभिषद् की अनुशंसा पर अक्षय रविंद्र कारगांवकर को

2018-088 17



यांत्रिक अभियांत्रिकी में बैचलर ऑफ टेक्नोलॉजी की उपाधि

दिनांक 30 मई 2022 को आवश्यक अर्हताओं को सफलतापूर्वक पूर्ण करने एवं अधिकतम 10.00 सी.जी.पी.ए. में से 8.01 सी.जी.पी.ए. अर्जित करने के उपरांत प्रदान करता है ।

भारतीय गणराज्य के अंतर्गत धनबाद में आज, दिनांक 28 जून 2022 को संस्थान की यह मुद्रांकित उपाधि दी गई ।

Indian Institute of Technology (Indian School of Mines), Dhanbad

On the recommendation of the Senate, hereby confers the Degree of

Bachelor of Technology

in

Mechanical Engineering

on

उप कुलसोचेव (शिक्षाणिक) भारतीय प्रौद्योगिकी संस्थान (भारतीय खनि विद्यापीठ), धनव Deputy Registrar (Academic)

INDIAN INSTITUTE OF TECHNOLOGY (INDIAN SCHOOL OF BLAKES), THANS

Akshay Ravindra Kargaonkar

who has successfully completed the requirements for the award of this degree on 30 May 2022, obtaining 8.01 C.G.P.A. out of maximum 10.00 C.G.P.A.

Given this day, the 28th day of June, 2022 under the seal of the Institute at Dhanbad in the Republic of India.

कुलसचिव Registrar निदेशक एवं अध्यक्ष, अभिषद् Director & Chairman,

Rys 8h

Senate

अध्यक्ष, शासक मंडल Chairman,

Board of Governors



भारतीय प्रौद्योगिकी संस्थान (भारतीय खनि विद्यापीठ), धनबाद

INDIAN INSTITUTE OF TECHNOLOGY (INDIAN SCHOOL OF MINES), DHANBAD धनबाद / DHANBAD-826004, भारत / INDIA

No. 2022/281061

GRADE SHEET

Name:

Akshay Ravindra Kargaonkar

Programme: Bachelor of Technology

Admission No: 18JE0074

Branch:

Mechanical Engineering

SESSION YEAR	COURSE CODE	COURSE NAME	CREDIT	GRADE	SGPA	CGP
2018-2019 MONSOON	EEC11101 MCC11102 MCC11101 AMC11101 APC11101 ESD11301/GLD11301 HSC11302 EEC11201 APC11201	ELECTRICAL TECHNOLOGY ENGINEERING GRAPHICS ENGINEERING MECHANICS MATHEMATICS - I PHYSICS EARTH SYSTEM SCIENCE INTRODUCTION TO ETHICS AND VALUES ELECTRICAL TECHNOLOGY PRACTICAL PHYSICS PRACTICAL	7 5 7 7 6 6 6 6 2 2	A+ A+ C+ A B+ A+ A+ A	8.77	8.77
2018-2019 Winter	ACC12101 CSC12101 ECC12101 HSE12101 AMC12101 MSD12301/APD12301 ACC12201 CSC12201 ECC12201 MCC12202 SWC12701	CHEMISTRY COMPUTER PROGRAMMING ELECTRONICS ENGINEERING ENGLISH FOR SCIENCE & TECHNOLOGY MATHEMATICS – II DISASTER MANAGEMENT & ENERGY RESOURCES CHEMISTRY PRACTICAL COMPUTER PROGRAMMING PRACTICAL ELECTRONICS ENGINEERING PRACTICAL MANUFACTURING PROCESS CO-CURRICULAR ACTIVITIES	6 6 6 7 6 2 2 2 2 5 3	B+ B C+ A+ B+ B+ A B+ A	7.88	8.31
2019-2020 MONSOON	MCC13102 MCC13103 MCC13104 AMR13101 MCC13301 MCC13101 MCC13202 MCC13203 MCC13201	ENGINEERING THERMODYNAMICS KINEMATICS OF MACHINES MATERIAL SCIENCE AND ENGINEERING METHODS OF APPLIED MATHEMATICS – I MACHINE DRAWING SOLID MECHANICS ENGINEERING THERMODYNAMICS LAB KINEMATICS OF MACHINES LAB SOLID MECHANICS LAB	7 7 6 7 7 7 1 1	B+ B+ B+ B+ B+ B+ A	7.86	8.17
2019-2020 WINTER	EER16101 MCC14101 MCC14103 AMR14101 MCC14102 SWC14701 MCC14202 MCC14201 MCC14203 MCC14204 MCC14501	APPLIED ELECTRICAL ENGINEERING FLUID MECHANICS MECHANICAL ENGINEERING DESIGN NUMERICAL AND STATISTICAL METHODS PRODUCTION TECHNOLOGY - I CO-CURRICULAR ACTIVITY-II AUTOCAD AND SOLID MODELING LAB FLUID MECHANICS LAB MECHANICAL ENGINEERING DESIGN LAB SOFT COMPUTING LAB-I COMPOSITE VIVA-VOCE	6 7 6 7 7 0 1 1 3 3 2	B A A+ A A S A+ A+ A+ A+ A+ B+	8.93	8.27
2020-2021 MONSOON	MCC15103 MCC15201 MCC15202 MCC15204 MCC15203	DYNAMICS OF MACHINERY HEAT AND MASS TRANSFER INDUSTRIAL ENGINEERING AND MANAGEMENT MACHINE DESIGN PRODUCTION TECHNOLOGY II DYNAMICS OF MACHINERY LAB HEAT AND MASS TRANSFER LAB MACHINE DESIGN LAB PRODUCTION TECHNOLOGY LAB SOFT COMPUTING LAB-II	7 7 6 6 6 7 1 1 3 3 1 2 2	B+ B+ B+ C+ B+ A+ A+ A+ B+ A	7.56	8.19

DATE: 30-05-2022

उप कुलसांचेव (शैक्षणिक) भारतीय प्रौद्योगिकी संस्थान (भारतीय ख़िन विद्यापीट), धनबाद Deputy Registrar (Academic) OOL OF MILES, UNMARKE STRAR (ACADEMIC) VERIFIE INDIAN INSTITUTE OF TEGHEOLOGY (MONAY SCH

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भारतीय प्रौद्योगिकी संस्थान (भारतीय खनि विद्यापीठ), धनबाद

INDIAN INSTITUTE OF TECHNOLOGY (INDIAN SCHOOL OF MINES), DHANBAD धनबाद / DHANBAD-826004, भारत / INDIA

No. 2022/281061

GRADE SHEET

Name:

Akshay Ravindra Kargaonkar

Programme:

Bachelor of Technology

Admission No: 18JE0074

Branch:

Mechanical Engineering

SESSION YEAR	COURSE CODE	COURSE NAME	CREDIT	GRADE	SGPA	CGPA
2020-2021 WINTER	MCC16105 MCC16102 MCC16101 MMC16104 MCC16103 MCC16202 MCC16201 MMC16204 MCC16203 MCC16501	ADVANCED SOLID MECHANICS CAD & GEOMETRIC MODELING FLUID MACHINES FLUID POWER AND CONTROL I C ENGINES CAD & GEOMETRIC MODELING LAB FLUID MACHINES LAB FLUID POWER AND CONTROL LAB I C ENGINES LAB COMPOSITE VIVA-VOCE	7 7 7 7 7 1 1 1 1 1 2	B B+ B+ B+ B+ A A	7.73	8.15
2021-2022 MONSOON	MCE17102 MCC17102 MSR17153 MCE17107 MCC17101 MCC17202 MCC17201 MCC17801	FINITE ELEMENT ANALYSIS MEASUREMENT AND CONTROL OPERATIONS RESEARCH RAPID PROTOTYPING REFRIGERATION AND AIR CONDITIONING MEASUREMENT AND CONTROL LAB REFRIGERATION AND AIR CONDITIONING LAB PROJECT AND SEMINAR	6 7 6 6 7 1 1	B+ B B A B+ B+ A	8.15	8.15
2021-2022 WINTER	MMC18103 MED529 MEC306 MCC18102 MED528 MCC18201 MCC18202 MCC18202 MCC18501 MCC18801	AUTOMOBILE ENGINEERING COMPOSITE MATERIALS COMPUTER AIDED MANUFACTURING ENERGY CONVERSION EQUIPMENT ROBOTICS COMPUTER AIDED MANUFACTURING LAB ENERGY CONVERSION EQUIPMENT LAB COMPREHENSIVE VIVA-VOCE PROJECT AND SEMINAR	7 6 9 7 6 1 1 4 6	B+ B+ A C+ C+ B A C+ B	7.34	8.01

Abbreviations: Extra Paper (E), Minor (M), Second Major (S), Dual Degree (D), Alternate Paper (*), Honor Paper [H]

SUMMARY -

CUMM HR: 272.5

CUMM POINTS: 2182.5

OGPA: 8.01

STUDENT COMPLETED THE PROGRAMME ON 30 May 2022

Due to COVID-19 pandemic, the weightage of examination from Winter(2019-2020) to Monsoon(2021-2022) is reduced to 50% for final CGPA/OGPA calculation.

DATE: 30-05-2022



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उप कुलसचिव (शैक्षणिक) भारतीय प्रौद्योगिकी संस्थान (भारतीय खनि विद्यापीठ), धनवाद Deputy Registrar (Academic) AVOIAN INSTITUTE OF TECHNOLOGY (INDIAN SCHOOL OF MINES), GHANBAD

DEPUTY REGISTRAR (ACADEMIC)

(कृपया पिछला पृष्ठ देखें / PLEASE SEE OVERLEAF)

EXPLANATION AND CALCULATION

Award of Grades

The students are awarded a letter grade in each course by the concerned course coordinator/instructor taking into consideration their performance in various examinations, quizzes, assignments, laboratory work (if any), etc., and their regularity of attendance in classes (if applicable). The grades will be assigned on the basis of total marks obtained in a course.

There are ten letter grades. The letter grades, their descriptions, and the numerical equivalents on a 10-point scale (called Grade Points) are as follows:

CREDIT BASED SYSTEM (CBS)

Grade	Grade Point (Numerical Value)	Performance	
A+	10	Outstanding	
Α	9 .	Excellent	
B+	8	Very Good	
В	7	. Good	
C+	6	Above Average	
С	5	Average	
D	4	Pass	
F	0	Fail	
S	NA	Satisfactory	
Χ	NA	Unsatisfactory	

In general, the following formulae may be employed to calculate the credits of a course where C is the number of credits, L is the number of lectures hours, T is the number of tutorial hours and P is the number of laboratory/practical hours per week* in a course:

- For courses with a course code of eight characters:
 Credits (C) = 2L + T + P
- For courses with a course code of six characters:
 Credits (C) = 3L + 2T + P

*No. of hours may also change on a course to course basis.

Semester Grade Point Average (SGPA)

The following formula is used for calculating the Semester Grade Point Average (SGPA):

$$SGPA = \frac{TCP}{TC} = \frac{G_1C_1 + G_2C_2 + G_3C_3 + \dots}{C_1 + C_2 + C_3 + \dots}$$

Where, G_1 , G_2 etc. are the Grade Points obtained in the specified courses and C_1 , C_2 , etc. are the Credits of the respective courses. TCP stands for the Total Credit Points earned in a semester and TC stands for the Total Credits earned in a semester. Semester Grade Point Average (SGPA) will be calculated up to 2 places of decimal. Credits of the S and X graded courses are not counted in the calculation of the SGPA

Cumulative Grade Point Average (CGPA)

The Cumulative Grade Point Average (CGPA) indicates the cumulative academic performance of a student. It is calculated in the same manner as the SGPA, except that all the courses registered up to and including the latest completed semester are considered in the calculation of CGPA.

The CGPA at the end of the second semester and thereafter until the program is completed shall be calculated as indicated below:

$$CGPA = \frac{TCP_1 + TCP_2 + TCP_3 + \dots}{TC_1 + TC_2 + TC_3 + \dots} = \frac{\sum_{i=1}^{n} TCPi}{\sum_{i=1}^{n} TCi}$$

Where, TCP_1 , TCP_2 etc. are the Total Credit Points for the specified semester and TC_1 , TC_2 etc. are the Total Credits of the respective semester. 'I' is the number of the respective semester.

Whenever a student is allowed to repeat or substitute a course and a new letter grade is awarded for that course, the new letter grade will be substituted for the old letter grade in the calculation of the CGPA. However, both the Grades shall be mentioned in the Grade Sheet. If the credits of a substituted or a repeated course are more or changed, only the new credits will be used in the calculation of the CGPA. Even in the case where there is no change in credits, they will be counted only once in the calculation of CGPA.

An abbreviation R is used with a course if it is repeated by the student and S is used if the course has been substituted for another course.

The CGPA awarded upon completion of the program is called OGPA (Overall Grade Point Average).

Distinction is awarded to candidates with OGPA e" 8.5 for Undergraduate Programs and OGPA e" 9 for Postgraduate Programs.

Conversion of OGPA to Percentage

The graduating OGPA multiplied by 10 will give the graduation marks in percentage.

Medium of Instruction

The Medium of Instruction at the Institute is ENGLISH.