

भारतीय प्रौद्योगिकी संस्थान मुंबई INDIAN INSTITUTE OF TECHNOLOGY BOMBAY

पवई / Powai, मुंबई / Mumbai 400 076



Roll Number: Name of the Student:

Programme:

150100027

KARTHIK KALIDAS

Bachelor of Technology (B.Tech.)

Academic Unit: Joining Month & Year; Mechanical Engineering July 2015

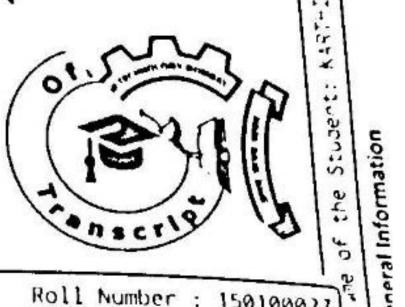
ode Name C	redits	Tag	Grade	Code Name C	redits	Tag	Grade
Acade	emic Yea	r: 20	15 -	2016, Term: Semester Autumn			
1 105 Organic & Inorganic Chemistry	4.0	MA	вв	ME 102 Data Analysis and Interpretation	6.0	MA	BC
1 107 Physical Chemistry	4.0	MA	вс	ME 119 Engineering Graphics & Drawing	5.0	MA	68
H 117 Chemistry Lab	3.0	MA	AA	NOCSØ1 NCC/NSS/NSO	0.0	MA	PP
S 101 Computer Programming and Utilization	6.0	MA	вв	PH 107 Quantum Physics and application	6.0	MA	BC
A 105 Calculus	8.8	MA	BC				
PI=7.57/10				CPI=7.57/10			
Acad	emic Yea	r: 20	915 -	2016, Term: Semester Spring			
BB 101 Biology	6.0	MA	88	ME 113 Workshop Practice	4.0	MA	BB
CE 102 Engineering Mechanics	6.0		ВВ	NOCSØ2 NCC/NSS/NSO	0.0	MA	ьь
MA 106 Linear Algebra	4.0	MA	BB	PH 108 Basics of Electricity & Magnetism	6.0	MA	ßB
MA 108 Differential Equations	4.0	MA	BB	PH 117 Physics Lab	3.0	MA	AA
SPI=8.18/10				CPI=7.84/10			
Acad	demic Yea	ar: 2	016 -	2017, Term: Semester Autumn	2.4		
EE 101 Introduction to Electrical and Electroni	ics 8.0	MA	AB	ME 209 Thermodynamics	6.0	MA	AA
Circuits				ME 219 Fluid Mechanics	8.0	MA	
HS 101 Economics	6.0	MA	AB	MM 207 Engineering Metallurgy	6.0	MA	AB
ME 201 Solid Mechanics	6.0	MA	BC				
SPI = 8.85/10				CPI = 8.19/10			
Aca	demic Ye	ar: 2	016 -	2017, Term: Semester Spring			
MA 214 Introduction to Numerical Analysis	8.0	MA	AB	ME 218 Solid Mechanics Lab	3.0	MA	AB
ME 202 Strength of Materials	6.0	MA	83	ME 224 Fluid Mechanics Lab	3.0	MA	AA
ME 206 Manufacturing Processes I	6.0		AA	ME 226 Mechanical Measurements	6.0	MA	AA
ME 213 Manufacturing Practice Lab	5.0	MA	AA				
SPI=9.38/10				CPI = 8.48/10			
Aca	demic Ye	ar: 2		2018, Term: Semester Autumn			
HS 307 Sociology	22		AB		6.0	MA	BB
ME 307 Mechanical Measurements Lab	3.0		AA	ME 374 Manufacturing Processes Lab	3.0	MA .	AA
ME 311 Microprocessors and Automatic Control ME 338 Manufacturing Processes II	6.0 6.0		BB BB	ME 645 MEMS - Design, Fabrication, and Characterisation	6.0	MA .	AB
SPI=8.67/10	0.0	1.0	, DD	CPI = 8.52/10			
Aca	ademic Ye	ar: i	2017 -	2018, Term: Semester Spring	((max =)	39	4
EE 321 Power Electronics	6.0		AB	ME 310 Micropropagation and the second	3.0	MA I	an a
ES 200 Environmental Studies: Science and	3.0	MA	BB	ME 316 Kinematics and Dynamics of Machines	6.0	MA I	- N. C. S. C.
Engineering	<u> 184</u> 000000	ejasa:	e u <u>r</u>	ME 370 Kinematics and Dynamics of Machines Lab	3.0	MA	
HS 200 Environmental Studies	3.0		BB	ME 372 Heat Transfer and Metrology Lab	3.0	MA /	
ME 306 Applied Thermodynamics	6.0		BB				
ME 308 Industrial Engineering and Operations Research I	6.0	m/	v cc				
SPI = 8.08/10				CPI=8.44/10			

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Name of the Student: KARTHIK KALIDAS

7111	- 1554 Billion		-		· v
	Roll	Number	:	15010002	7/2

Code	Name	Credits	Tag	Grade	Code Name	Credits	Tag	Grade
	A	cademic Yea	r: 2	018 - 2	019, Term: Semester Autumn			
	Electric Drives	6.0	AL	BC	ME 441 Applied Thermodynamics Lab	3.0	MA	AB
	Nonconventional Energy Sources Machine Design	6.0 8.0		CC BB	ME 669 Design for Manufacturing	6.0	MA	BB
SPI=8.	18/10	0.0	130	00	CPI=8.42/10			
	, , , , , , , , , , , , , , , , , , ,	Cademic Yea	ar: 2	018 - 2	019, Term: Semester Spring	TWO IS NOT YOUR	e w	
AE 310 ME 604	Engineering Design Optimization Robotics	6.0		BB	ME 766 High Performance Scientific Computing	6.0		AB
	Textile Machines Design & Automation	6.0 6.0		B3 BB	ME 772 Processing of Aerospace Materials-I	6.0	MA	BB
.8 = 192	20/10				CPI=8.40/10			
Mandatory Course Credits (MA) Overall Credits Completed Overall Grade Points			= 274		Overall CPI	= 8	3.40/	10
			= 286 = 237	2000 2000 1004				

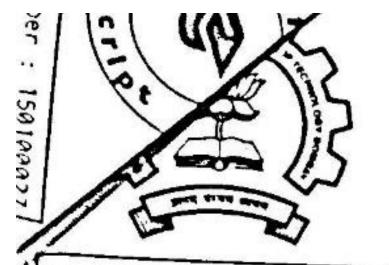
Final Result

The student has completed the academic requirements of the programme in the month of June 2019 for the award of Bachelor of Technology in Mechanical Engineering Signature & Seal of Transcript Issuing Authority:

Joint/Assistant Registrar (Academic), III Bombay
Date: 31-July 2019 सिन्द कुन्याचित् (जीवित्र) (जीवित्र) (जीवित्र) (जीवित्र) (जीवित्र) (जीवित्र) (जीवित्र) (जीवित्र) (जिल्लाहर्क स्वाधित्र) प्रतिक्षिण प्रतिक्षण प्रतिक

स्थित हो हो। वित्र में स्थाप Mun. St. Fechnologi.

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भारतीय प्रौद्योगिकी संस्थान मुंबई INDIAN INSTITUTE OF TECHNOLOGY BOMBAY

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Name of the Student: KARTHIK KALIDAS

General Information

Roll Number: 150100027

The medium of instruction at the Institute is English.

Course credits and grade: Each course is associated with credits which are an indicator of its relative weight in calculating the academic performance. A two letter a 0-10 scale as given below.

	Letter Grade														IM THE COLUMN TO SERVICE AND ADDRESS OF THE COLU	
10 10 9 8 7 6 5 1 0 0		AP	AA	AB	88	ВС	СС	CD	DD	FF	FR	w	DX	pр	NP	AU
	reducal Equivalent	10	10	9	8	7	6	5	1	0	0	-		-	1-	1-

FF: Fail, FR: Fail and repeat, W: Withdrawn, DX: Insufficient attendance, AU: Satisfactory performance in an audit course, PP: Pass, NP: Not Pass. The minimum passing are referred to as grade points.

The numerical grade points are not convertible into marks or percentages.

Performance Indicators: The performance of a student in a semester is given by a number called the Semester Performance Index (SPI), which is the weighted average of the earned grade points in the courses during the semester.

If a student has courses with credits $C_1, C_2, ..., C_n$, with grade points of $G_1, G_2, ..., G_n$ respectively, then

Semester Credits = $C_1 + C_2 + ... + C_n$ Semester Grade Points = $C_1G_1 + C_2G_2 + ... + C_nG_n$ SPI = Semester Grade Points + Semester Credits tive Performance Index (CRV) : 41

Cumulative Performance Index (CPI) is the weighted average of the grade points in the courses in all semesters. The indices SPI and CPI are calculated upto two decimal places.

Courses are tagged as MA: Mandatory (Core/Elective), MI: Minor, HO: Honours, AL: Additional Learning, AU: Audit

- Each degree programme has mandatory credits consisting of core courses, elective courses, and non credit courses. These courses are tagged as MA.
- For calculation of SPI and CPI, grades obtained only in mandatory courses (MA) are considered.
- Students can supplement the learning experience by crediting additional courses. Credits earned in these courses, when appropriate, can earn additional credentials either in the form of "Honours" (HO) in the chosen discipline or "Minor" (MI) in another discipline or both.
- "Honours" is not indicative of proficiency, and can be earned by completing the additional prescribed set of advanced core and elective courses in the chosen discipline. "Minor" can be earned by completing the prescribed set of courses in a discipline other than the chosen discipline. Additional courses that are not used for earning "Honours" or "Minor" are tagged as "Additional Learning" (AL).
- The AU is awarded based on satisfactory attendance and fulfilling the minimum requirements as set by the course instructor. It carries no grade points and does not figure in SPI or CPI calculations.
- PP or NP is awarded in some credit courses that are not earmarked with a letter grade. Correspondingly, PP/NP does not carry a grade point.

The Institute does not award any class or division. Notionally, the CPI may be multiplied by a factor of 10 to obtain a numerical percentage. The veracity of this document can be ascertained by using the verification ticket number in the URL given at the bottom of this page.

END OF TRANSCRIPT
Roll Number: 150100027

Online Verification URL: https://portal.iitb.ac.in/verify

Page: 3/3

Verification Ticket Number: 5F 5E28 3881 4246 95 18