

# Drexel University

Upon recommendation of the Faculty and by the Authority of the Board of Trustees  
Acting under the Charter granted by The Commonwealth of Pennsylvania,  
The University Hereby Confers On

**Raghavendra N. Saralaya**

the degree of

**Bachelor of Science in Mechanical Engineering**

with all the rights and privileges pertaining thereto. In Witness Whereof, we have hereunto affixed our  
signatures and the seal of the University this sixteenth day of June, two thousand twelve.

*J.A. Fry*  
\_\_\_\_\_  
President

*T.O. Hobbs*  
\_\_\_\_\_  
Dean

*Richard A. Greenawalt*  
\_\_\_\_\_  
Chairman, Board of Trustees



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Dean

*Richard A. Greenawalt*  
Chairman, Board of Trustees





# DREXEL UNIVERSITY - Office of the University Registrar

Student No: 11763251

CENTER CITY HAHNEMANN CAMPUS • MAIL STOP 445 • 245 N. 15TH ST., PHILADELPHIA, PA 19102-1192  
UNIVERSITY CITY MAIN CAMPUS • 3141 CHESTNUT ST. • CURTIS HALL RM. 261 • PHILADELPHIA, PA 19104



Date Issued: 19-FEB-2014  
Univ City Campus Transcript

Page: 1

Record of: Raghavendra N Saralaya  
Current Name: Raghavendra N Saralaya  
304 N 39th St  
Philadelphia, PA 19104

Issued To: Raghavendra N. Saralaya  
304 N 39nd St  
Philadelphia, PA 19104  
UNITED STATES OF AMERICA

Course Level: Graduate Quarter

Degrees Awarded MS in Mechanical Engineering 16-JUN-2012  
Major : Mechanical Engineering

SUBJ NO.	COURSE TITLE	CRED GRD	PTS R
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## INSTITUTION CREDIT:

Spring Quarter 11-12

Mechanical Engineering

MEM 777	Fracture Mechanics I	3.00 A-	11.01
MEM 898	Master's Thesis	3.00 CR	0.00 A
Ehrs: 3.00 GPA-Hrs: 3.00 Qpts: 11.01 GPA: 3.67			

Good Standing

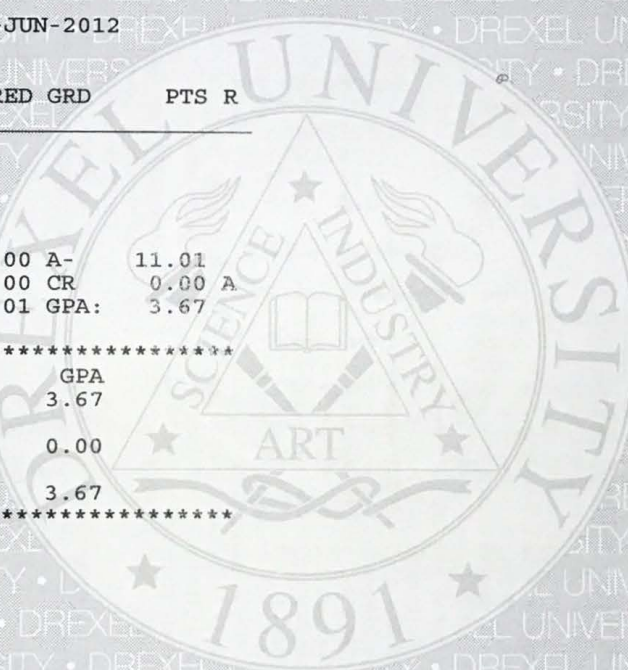
\*\*\*\*\* TRANSCRIPT TOTALS \*\*\*\*\*

	Earned Hrs	GPA Hrs	Points	GPA
TOTAL INSTITUTION	3.00	3.00	11.01	3.67

TOTAL TRANSFER	0.00	0.00	0.00	0.00
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OVERALL	3.00	3.00	11.01	3.67
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\*\*\*\*\* END OF TRANSCRIPT \*\*\*\*\*



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Joseph J. Salomone, University Registrar

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NOTE: The column after GRD and PTS labeled R refers to whether or not certain repeatable courses are included (I) in the student's GPA. An (I) shown in this column indicates that the grade shown in the GRD column is included in the student's grade point average.



## GENERAL INFORMATION

## ACCREDITATION

## COLLEGES AND SCHOOLS

**DREXEL COOPERATIVE EDUCATION PROGRAM- Undergraduate Full-time Students**

TRANSCRIPT FORMAT

ACADEMIC YEAR &amp; CREDIT HOUR EQUIVALENT

### COURSE NUMBERING SYSTEM

[illegible]

08165208 • SCRIP-SAFE® Security Products, Inc. Cincinnati, OH • U.S. Patent 5,171,040

### EXPLANATION OF GRADES

Grade	Grade Point Value
A +	4.0
A	4.0
A -	3.67
B +	3.33
B	3.00
B -	2.67
C +	2.33
C	2.00
C -	1.67
D +	1.33
D	1.0
F	0
AUD	Audit
CR	Credit
NCR	No Credit
DCU	Drexel Co-Operative Unit
EX	Exemption (Course previously taken)
NCU	Failed Work Term
P	Pass (Discontinued April 1986)
S	Satisfactory
T	Transfer credit awarded
U	Unsatisfactory
+	Courses within a block
W	Withdrawal
WP	Withdrawn Passing
	(Discontinued October 1975)
WF	Withdrawn Failing
	(Discontinued October 1975)
	<u>&lt;&lt;Temporary Grades&gt;&gt;</u>
INC	Incomplete
I	Incomplete Contract
	(Discontinued September 1988)
IF	Failure (no grade reported on an Incomplete Contract)
INP	In Progress
ABS	Absent from Final
NGR	No Grade Reported
NR	No Grade Reported
ZF	No Grade Reported
	(Discontinued September 1988)
E	Conditional Pass
	(Discontinued September 1973)

### CALCULATING GRADE POINT AVERAGE (based on 4.0 scale)

#### Cumulative GPA Calculation for Repeated Courses (Policy prior to Fall 1999)

An undergraduate student has the option to repeat a course (up to five times) in which he/she was initially enrolled beginning with the Fall 1992-93 term and ending with the Summer 1998-99 term. The term GPA calculation remains the same, however, the cumulative GPA is calculated as follows: a) only the grade from the most recent enrollment will count in the cumulative GPA if the grade from the most recent enrollment is the same or better than the original grade and b) both grades will be calculated in the cumulative GPA if the grade from the most recent enrollment is lower than the original grade.

### Cumulative GPA Calculation for Repeated Courses (Policy Effective Fall 2001)

Courses with an Indicator of "I" in the R column on the transcript will be included in the term and cumulative credits earned and GPAs; courses with an "E" in the R column will be excluded from term and cumulative GPAs but retained in term and cumulative credits attempted; courses with an "A" in the R column will be excluded from term and cumulative credits earned, but retained in term and cumulative credits attempted and calculated in the term and cumulative GPAs.

DREXEL UNIVERSITY • OFFICE OF THE UNIVERSITY REGISTRAR LOCATIONS.

Center City Hahnemann Campus • Mail Stop 445 • 245 N. 15th Street • Philadelphia, PA 19102-1192 • (215)-762-7602  
University City Main Campus • 3141 Chestnut Street • Curtis Hall Rm 261 • Philadelphia, PA 19104 • (215)-895-1493  
Queen Lane Medical Campus • 2900 Queen Lane • Suite G-24 • Philadelphia, PA 19123 • (215)-991-8206



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304 N 39th St  
Philadelphia, PA 19104

Issued To: Raghavendra N. Saralaya  
304 N 39th St  
Philadelphia, PA 19104  
UNITED STATES OF AMERICA

Course Level: Undergraduate Quarter  
Only Admit: Fall Quarter 08-09

Current Program  
BS in Mechanical Engineering  
College : College of Engineering  
Major : Mechanical Engineering  
Maj/Concentration : 5 YR UG Co-op Concentration  
Degrees Awarded BS in Mechanical Engineering 16-JUN-2012  
Major : Mechanical Engineering  
Maj/Concentration : 5 YR UG Co-op Concentration

SUBJ NO.	COURSE TITLE	CRED	GRD	PTS	R
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TRANSFER CREDIT ACCEPTED BY THE INSTITUTION:

2006-2008 Visveswaraiiah Technol Univ

CS 121	Computation Lab I	1.00	T		
CS 122	Computation Lab II	1.00	T		
CS 123	Computation Lab III	1.00	T		
ENGR 100	Beginning CAD for Design	1.00	T		
ENGR 101	Engineering Design Lab I	2.00	T		
ENGR 232	Dynamic Engineering Systems	0.00	T		
MATH 121	Calculus I	4.00	T		
MATH 122	Calculus II	4.00	T		
MATH 200	Multivariate Calculus	4.00	T		
MEM 201	Funds Cmptr Aided Design	3.00	T		
MEM 202	Engr Mechanics-Statics	3.00	T		
PHYS 101	Fundamentals of Physics I	4.00	T		
PHYS 102	Fundamentals of Physics II	4.00	T		
PHYS 201	Fundamentals of Physics III	4.00	T		
TGFE 099	Transfer General Free Elective	9.00	T		
THSE 099	Transfer Hum & SS Elective	3.00	T		
UNIV 101	The Drexel Experience	2.00	T		
Ehrs: 50.00 GPA-Hrs: 0.00 QPts: 0.00 GPA: 0.00					

\*\*\*\*\* CONTINUED ON NEXT COLUMN \*\*\*\*\*

SUBJ NO.	COURSE TITLE	CRED	GRD	PTS	R
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INSTITUTION CREDIT:

Fall Quarter 08-09					
Mechanical Engineering					
CHEM 101	General Chemistry I	3.50	B+	11.65	
ENGR 104	Engr Design Lab - Transfers	4.00	A+	16.00	
ENGR 201	Eval & Pres of Exper Data I	3.00	A-	11.01	
ENGR 231	Linear Engineering Systems	3.00	B+	9.99	
MEM 230	Mechanics of Materials I	4.00	B	12.00	
Ehrs: 17.50 GPA-Hrs: 17.50 QPts:		60.65	GPA:	3.46	
Good Standing					

Winter Quarter 08-09					
Mechanical Engineering					
CHEM 102	General Chemistry II	4.50	B	13.50	
COOP 101	Career Mgmt/Profess Dev	0.00	CR	0.00	
ENGL 101	Expository Writing and Reading	3.00	A-	11.01	
ENGR 202	Eval & Pres of Exper Data II	3.00	A-	11.01	
ENGR 210	Introduction to Thermodynamics	3.00	A	12.00	
MEM 238	Dynamics	4.00	B	12.00	
Ehrs: 17.50 GPA-Hrs: 17.50 QPts:		59.52	GPA:	3.40	
Good Standing					

Spring Quarter 08-09					
Mechanical Engineering					
BIO 141	Essential Biology	4.50	A-	16.51	
ENGL 102	Persuasive Writing and Reading	3.00	B+	9.99	
ENGR 220	Fundamentals of Materials	4.00	A+	16.00	
HIST 285	Technology in Hist Perspective	3.00	B-	8.01	
MEM 310	Thermodynamic Analysis I	4.00	A-	14.68	
Ehrs: 18.50 GPA-Hrs: 18.50 QPts:		65.19	GPA:	3.52	
Good Standing					

Fall Quarter 09-10					
Mechanical Engineering					
CIVE 240	Engineering Economic Analysis	3.00	B+	9.99	
***** CONTINUED ON PAGE 2 *****					

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Date Issued: 19-FEB-2014  
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Page: 2

Record of: Raghavendra N Saralaya  
Level: Undergraduate Quarter

SUBJ NO.	COURSE TITLE	CRED	GRD	PTS	R	SUBJ NO.	COURSE TITLE	CRED	GRD	PTS	R
Institution Information continued:						Institution Information continued:					
ENGL 103	Analytical Writing and Reading	3.00	B	9.00		Fall Quarter 10-11					
MEM 380	ST:Fundamental Robotics I	3.00	W	0.00		Mechanical Engineering					
MEM 435	Intro Comp Aid Desgn/Mfg	4.00	B	12.00		MEM 311	Thermal & Fluid Sci Lab	2.00	A	8.00	
MEM 591	Applied Engr Analy Methods I	3.00	C	6.00		MEM 320	Fluid Dynamics I	3.00	C+	6.99	
PHIL 315	Engineering Ethics	3.00	B	9.00		MEM 345	Heat Transfer	4.00	A-	14.68	
Ehrs: 16.00 GPA-Hrs: 16.00 QPts: 45.99 GPA: 2.87						MEM 355	Perf Enhancemt Dyn Systems	4.00	A-	14.68	
Good Standing						MEM 636	Theory of Nonlinear Control I	3.00	B	9.00	
Winter Quarter 09-10						MEM 660	Theory of Elasticity I	3.00	B+	9.99	
Mechanical Engineering						Ehrs: 19.00 GPA-Hrs: 19.00 QPts: 63.34 GPA: 3.33					
MEM 220	Basic Fluid Mechanics	4.00	B	12.00		Good Standing					
MEM 255	Introduction to Controls	4.00	B+	13.32		Winter Quarter 10-11					
MEM 331	Experimental Mechanics I	2.00	B	6.00		Mechanical Engineering					
MEM 361	Engineering Reliability	3.00	D	3.00		MEM 330	Mechanics of Materials II	4.00	B-	10.68	
MEM 380	ST:Nanomanufctrng & Metrology	3.00	B	9.00	I	MEM 380	ST:MATLAB Prog for MEM	3.00	A	12.00	I
MEM 592	Applied Engr Analy Methods II	3.00	B+	9.99		MEM 637	Theory of Nonlinear Control II	3.00	A-	11.01	
Ehrs: 19.00 GPA-Hrs: 19.00 QPts: 53.31 GPA: 2.80						MEM 661	Theory of Elasticity II	3.00	B+	9.99	
Good Standing						MEM 699	Adv. Computational Mechanics	3.00	A	12.00	
Spring Quarter 09-10						MUSC 130	Introduction to Music	3.00	B-	8.01	
Mechanical Engineering						Ehrs: 19.00 GPA-Hrs: 19.00 QPts: 63.69 GPA: 3.35					
COOP 201	Co-op Experience	16.00	DCU	16.00	I	Good Standing					
Director Approved Co-op Credit						Spring Quarter 10-11					
MEM 593	Applied Engr Analy Methods III	3.00	B	9.00		Mechanical Engineering					
Ehrs: 3.00 GPA-Hrs: 3.00 QPts: 9.00 GPA: 3.00						COOP 201	Co-op Experience	16.00	DCU	16.00	
Good Standing						Trillion Quality Systems					
Summer Quarter 09-10						Ehrs: 0.00 GPA-Hrs: 0.00 QPts: 0.00 GPA: 0.00					
Mechanical Engineering						Good Standing					
COOP 201	Co-op Experience	16.00	DCU	16.00	I	Summer Quarter 10-11					
Director Approved Co-op Credit						Mechanical Engineering					
GSTD 180	ST: Coop Education Leadership	1.00	A-	3.67		COOP 201	Co-op Experience	16.00	DCU	16.00	
Ehrs: 1.00 GPA-Hrs: 1.00 QPts: 3.67 GPA: 3.67						Trillion Quality Systems					
Good Standing						Ehrs: 0.00 GPA-Hrs: 0.00 QPts: 0.00 GPA: 0.00					
***** CONTINUED ON NEXT COLUMN *****						Good Standing					
						***** CONTINUED ON PAGE 3 *****					

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Page: 3

Record of: Raghavendra N Saralaya  
Level: Undergraduate Quarter

## \*\*\*\*\* TRANSCRIPT TOTALS \*\*\*\*\*

SUBJ NO.	COURSE TITLE	CRED GRD	PTS R	TOTAL INSTITUTION	Earned Hrs	GPA Hrs	Points	GPA
					172.50	169.50	563.09	3.32

### Institution Information continued:

TOTAL TRANSFER	50.00	0.00	0.00	0.00
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### Fall Quarter 11-12

OVERALL	222.50	169.50	563.09	3.32
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#### Mechanical Engineering

\*\*\*\*\* END OF TRANSCRIPT \*\*\*\*\*

MATH 300	Numerical Analysis I	4.00 A-	14.68
MATH 316	Math App of Symbolic Software	3.00 A	12.00
MATH 799	Tensor Calculus	3.00 A+	12.00
MEM 687	Manufacturing Processes I	3.00 A-	11.01
MEM 800	ST: Infrastructure Evaluation	3.00 A-	11.01
MUSC 120	Music Fundamentals	3.00 B	9.00
Ehrs: 19.00	GPA-Hrs: 19.00	Qpts: 69.70	GPA: 3.66

Dean's List

Good Standing

### Winter Quarter 11-12

#### Mechanical Engineering

MEM 351	Dynamic Systems Laboratory I	2.00 A	8.00
MEM 380	ST:Fract, Fatigue and Failure	3.00 A-	11.01 I
MEM 440	Thermal Systems Analysis	3.00 B	9.00
MEM 682	Finite Element Methods II	3.00 B+	9.99
MEM 898	Master's Thesis	3.00 CR	0.00 I
Ehrs: 14.00	GPA-Hrs: 11.00	Qpts: 38.00	GPA: 3.45

Good Standing

### Spring Quarter 11-12

#### Mechanical Engineering

MEM 431	Machine Design I	3.00 B	9.00
MEM 777	Fracture Mechanics I	3.00 A-	11.01
MEM 898	Master's Thesis	3.00 CR	0.00 A
MUSC 121	Music Theory I	3.00 A-	11.01
Ehrs: 9.00	GPA-Hrs: 9.00	Qpts: 31.02	GPA: 3.44

Good Standing

\*\*\*\*\* CONTINUED ON NEXT COLUMN \*\*\*\*\*

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COLLEGES AND SCHOOLS

DREXEL COOPERATIVE EDUCATION PROGRAM- Undergraduate Full-time Students

TRANSCRIPT FORMAT

ACADEMIC YEAR &amp; CREDIT HOUR EQUIVALENT

**COURSE NUMBERING SYSTEM**

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Queen Lane Medical Campus • 2900 Queen Lane • Suite G-24 • Philadelphia, PA 19129 • (215)-991-6206





ವಿಶ್ವೇಶ್ವರಯ್ಯ ತಾಂತ್ರಿಕ ವಿಶ್ವವಿದ್ಯಾಲಯ, ಬೆಳಗಾವಿ



VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELGAUM

KARNATAKA, INDIA

STATEMENT OF MARKS

BE Second Semester July 2008

Mechanical Engineering

J  
07 203784

Name of the Student : RAGHAVENDRA S N

Father's / Mother's Name : NATARAJ S G

Seat No. : 1BM07ME088

Name of the College : B.M.S. COLLEGE OF ENGINEERING, BANGALORE

Sl. No.	Subject		Examination Marks			Internal Assessment Marks			Total Marks			Subject Result
	Code	Title	Max.	Min.	Obtained	Max.	Min.	Obtained	Max.	Min.	Obtained	
1	06MAT21	Engineering Maths - II	100	35	81	25	-	20	125	50	101	Pass
2	06CHE22	Engineering Chemistry	100	35	80	25	-	20	125	50	100	Pass
3	06CCP23	Computer Concepts & C Programming	100	35	74	25	-	20	125	50	94	Pass
4	06CED24	Computer Aided Engineering Drawing	100	35	80	25	-	24	125	50	104	Pass
5	06ELN25	Basic Electronics	100	35	65	25	-	25	125	50	90	Pass
6	06CPL26	Computer Programming Lab	50	20	49	25	12	15	75	32	64	Pass
7	06CHEL27	Engg. Chemistry Lab	50	20	40	25	12	23	75	32	63	Pass
8	06CIV28	Environmental Studies	50	18	29	25	-	18	75	30	47	Pass
GRAND TOTAL									775	314	616	

Total Marks Obtained (in words) : SIX HUNDRED AND SIXTEEN ONLY

Result of the Semester : FIRST CLASS WITH DISTINCTION

DATE : NOV 07, 2008

06CIP/CIV28 is not considered for Grand Total and the Class Declaration

A - Absent NE - Not Eligible



*[Signature]*  
Registrar (Evaluation)



# Commonwealth of Pennsylvania



## Department of State Bureau of Professional and Occupational Affairs

*The State Registration Board for Professional Engineers, Land Surveyors and Geologists hereby certifies that*

**RAGHAVENDRA N SARALAYA**

*having complied with the licensure laws  
of the Commonwealth of Pennsylvania is authorized to practice as a/an*

**ENGINEER IN TRAINING**

*In Witness Whereof, we have hereunto set our hand and caused the Seal of the Bureau of  
Professional and Occupational Affairs.*

Certification Date: 08/29/2016

License Number: ET022384

Michael F. Bembach

Chairperson

[Signature]

Commissioner

