

OFFICE OF THE REGISTRAR

GRADE REPORT

RENSSELAER POLYTECHNIC INST.
PITTSBURGH BLDG
TROY NY 12180-3590

1 OUNCE
TROY, NEW YORK
PERMIT NO. 385

SOCIAL SECURITY NUMBER 996-00-1697	CLASS MAS
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TERM 1986 FALL	DATE PRINTED 12/29/86
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	PRIMARY	SECONDARY	TERTIARY
DEGREE PURSUING CURRICULUM CONCENTRATION MINOR	MS ELEC	PHD ELEC	

VASANT NATARAJAN
STACHYCK ROUSSEAU HOUSE 102 T
RENSSELAER POLYTECHNIC INSTITUTE
TROY NY 12180-3590

COURSE NUMBER	SECTION	TITLE	ATTEMPTED HOURS	EARNED HOURS	QUALITY HOURS	GRADE	QUALITY POINTS
35 4250	01	IC PROC & DESIGN	3	3	3	A	12
35 6210	01	PHYS SOLID STATE	3	3	3	A	12
35 6230	01	SEMI COND DEV MODELS	3	3	3	A	12
35 6990	08	MASTERS THESIS/PROJECT	3	0	0	IP	0

GRADE CALCULATIONS
GRADE INTERPRETATION

- Blank No grade submitted
- A Excellent
- B Above Average
- C Average
- D Below Average
- Not earned hours for a graduate student - not available to graduate students.
- F Failing
- FA Failure due to Administrative reasons.
- I Incomplete (Incomplete course work)
- NE Not Examined (Missed final exam)
- P Pass in a Pass/No Credit course
- NC Failure in a Pass/No Credit course
- S Satisfactory
- U Unsatisfactory (Failed S/U)
- IP In Progress (Multiple-term course)
- W Withdrawn
- WI Did not complete a course that was previously graded incomplete.
- Z *Grade Unknown-grade due, but not submitted by the instructor.
- AU Audit

*Allows grade report to be printed.

GRADE	CONTRIBUTES TO QUALITY HOURS	QUALITY POINTS EARNED	CONTRIBUTES TO EARNED HOURS	TEMPORARY GRADE
(BLANK)	NO	0	NO	NO
A	YES	4	YES	NO
B	YES	3	YES	NO
C	YES	2	YES	NO
D	YES	1	YES	NO
F	YES	0	NO	NO
I	YES	0	NO	YES
W	NO	0	NO	NO
AU	NO	0	NO	NO
P	NO	0	YES	NO
U	NO	0	NO	NO
IP	NO	0	NO	NO
S	NO	0	YES	NO
Z	NO	0	NO	YES
NE	YES	0	NO	YES
FA	YES	0	NO	NO
NC	NO	0	NO	NO
WI	YES	0	NO	NO

	ATTEMPTED HOURS	EARNED HOURS	QUALITY HOURS	QPA	RANKS IN CLASS		
					WITHIN CLASS	WITHIN SCHOOL	WITHIN CURRICULUM
TERM	12	9	9	4.000			
CUMULATIVE				4.000			
CLASS SIZE							

OFFICE OF THE REGISTRAR

RENSSELAER POLYTECHNIC INST.
PITTSBURGH BLDG
TROY NY 12180-3590

GRADE REPORT

1 OUNCE
TROY, NEW YORK
PERMIT NO. 385

SOCIAL SECURITY NUMBER		CLASS	
126-70-9192		HAS	
PRIMARY	SECONDARY	TERTIARY	
DEGREE PURSUING	MS	PHD	
CURRICULUM	ELEC	ELEC	
CONCENTRATION			
MINOR			

TERM	DATE PRINTED
1987 SPRING	06/01/87
VASANT NATARAJAN STACYCK ROUSSEAU HOUSE 102 RENSSELAER POLYTECHNIC INSTITUTE TROY NY 12180-3590	

GRADE CALCULATIONS	
GRADE	GRADE INTERPRETATION
Blank	No grade submitted
A	Excellent
B	Above Average
C	Average
D	Below Average
	Not earned hours for graduate student - not available to graduate students.
F	Failing
FA	Failure due to Administrative reasons.
I	Incomplete (Incomplete course work)
NE	Not Examined (Missed final exam)
P	Pass in a Pass/No Credit course
NC	Failure in a Pass/No Credit course
S	Satisfactory
U	Unsatisfactory (Failed S/U)
IP	In Progress (Multiple-term course)
W	Withdrawn
WI	Did not complete a course that was previously graded incomplete
Z	*Grade Unknown-grade due, but not submitted by the instructor.
AU	Audit
*Allows grade report to be printed.	

COURSE NUMBER	SECTION	TITLE	ATTEMPTED HOURS	EARNED HOURS	QUALITY HOURS	GRADE	QUALITY POINTS
35 6965	01	SEMICOND DEV & MOD II	3	3	3	A	12
35 6220	01	ELECTRONIC PROP OF SEMIC	3	3	3	B	9
35 6240	01	VLSI FAB TECH	3	3	3	C	6
35 6990	08	MASTERS THESIS/PROJECT	3	0	0	F	0

S 92 H 109

TERM	ATTEMPTED HOURS	EARNED HOURS	QUALITY HOURS	QPA	RANKS IN CLASS WITHIN SCHOOL	CLASS WITHIN CURRICULUM
CUMULATIVE	12	9	9	4.000		
CLASS SIZE	24	18	18	4.000		

GRADE	CONTRIBUTES TO QUALITY HOURS	QUALITY POINTS EARNED	CONTRIBUTES TO EARNED HOURS	TEMPORARY GRADE
(BLANK)	NO	0	NO	NO
A	YES	4	YES	NO
B	YES	3	YES	NO
C	YES	2	YES	NO
D	YES	1	YES	NO
F	YES	0	NO	NO
I	YES	0	NO	YES
W	NO	0	NO	NO
AU	NO	0	NO	NO
P	NO	0	YES	NO
U	NO	0	NO	NO
IP	NO	0	NO	NO
S	NO	0	YES	NO
Z	NO	0	NO	YES
NE	YES	0	NO	YES
FA	YES	0	NO	NO
NC	NO	0	NO	NO
WI	YES	0	NO	NO

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RENSSELAER POLYTECHNIC INST.
PITTSBURGH BLDG
TROY NY 12180-3590

GRADE REPORT

1 OUNCE
TROY, NEW YORK
PERMIT NO. 385

SOCIAL SECURITY NUMBER 126-70-9192		CLASS DOC		TERM 1988 FALL			DATE PRINTED 01/04/89		
PRIMARY SECONDARY TERTIARY				VASANT NATARAJAN 2113 15TH ST TROY NY 12180					
DEGREE PURSUING PHD									
CURRICULUM ELEC									
CONCENTRATION MINOR									
COURSE NUMBER	SECTION	TITLE	ATTEMPTED HOURS	EARNED HOURS	QUALITY HOURS	GRADE	QUALITY POINTS		

35	6270	01	OPTOELECTRONICS	3	3	3	A	12
78	6510	01	QUANTUM MECHANICS I	3	3	3	A	12
35	9990	08	DOCTORAL THESIS	3	3	3	IP	0
78	6961	01	METHODS IN MATH PHYSICS	3	3	3	A	12

GRADE CALCULATIONS

GRADE INTERPRETATION

Blank No grade submitted
 A Excellent
 B Above Average
 C Average
 D Below Average
 Not earned hours for graduate student not available to graduate students
 F Failing
 FA Failure due to Administrative reasons.
 I Incomplete (Incomplete course work)
 NE Not Examined (Missed final exam)
 P Pass in a Pass/No Credit course
 NC Failure in a Pass/No Credit course
 S Satisfactory
 U Unsatisfactory (Failed S/U)
 IP In Progress (Multiple-term course)
 W Withdrawn
 WI Did not complete a course that was previously graded incomplete.
 Z *Grade Unknown-grade due, but not submitted by the instructor.
 AU Audit
 *Allows grade report to be printed.

GRADE	CONTRIBUTES TO QUALITY HOURS	QUALITY POINTS EARNED	CONTRIBUTES TO EARNED HOURS	TEMPORARY GRADE
(BLANK)	NO	0	NO	NO
A	YES	4	YES	NO
B	YES	3	YES	NO
C	YES	2	YES	NO
D	YES	1	YES	NO
F	YES	0	NO	NO
I	YES	0	NO	YES
W	NO	0	NO	NO
AU	NO	0	NO	NO
P	NO	0	YES	NO
U	NO	0	NO	NO
IP	NO	0	NO	NO
S	NO	0	YES	NO
Z	NO	0	NO	YES
NE	YES	0	NO	YES
FA	YES	0	NO	NO
NC	NO	0	NO	NO
WI	YES	0	NO	NO

	ATTEMPTED HOURS	EARNED HOURS	QUALITY HOURS	QPA	WITHIN CLASS	RANKS IN WITHIN SCHOOL	CLASS WITHIN CURRICULUM
TERM CUMULATIVE CLASS SIZE	13	43	42	4.000			

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GRADE REPORT

RENSSELAER POLYTECHNIC INST.
PITTSBURGH BLDG
TROY NY 12180-3590

1 CUNCE
TROY, NEW YORK
PERMIT NO. 385

SOCIAL SECURITY NUMBER 126-70-9192		CLASS DOC		TERM 1989 SPRING			DATE PRINTED 05/26/89		
PRIMARY SECONDARY TERTIARY DEGREE PURSUING PHD CURRICULUM ELEC CONCENTRATION MINOR				VASANT NATARAJAN 2113 15TH ST TROY NY 12180					
COURSE NUMBER	SECTION	TITLE	ATTEMPTED HOURS	EARNED HOURS	QUALITY HOURS	GRADE	QUALITY POINTS		

35	9990	08	DOCTORAL THESIS	6	0	0	IP	0
78	6520	01	QUANTUM MECHANICS II	3	3	3	A	12
35	6284	01	MODERN OPTICS & LASERS	3	3	3	A	12

GRADE CALCULATIONS

GRADE INTERPRETATION

Blank No grade submitted
 A Excellent
 B Above Average
 C Average
 D Below Average
 Not earned hours for a graduate student - not available to graduate students.
 F Failing
 FA Failure due to Administrative reasons.
 I Incomplete (Incomplete course work)
 NE Not Examined (Missed final exam)
 P Pass in a Pass/No Credit course
 NC Failure in a Pass/No Credit course
 S Satisfactory
 U Unsatisfactory (Failed S/U)
 IP In Progress (Multiple-term course)
 W Withdrawn
 WI Did not complete a course that was previously graded incomplete.
 Z *Grade Unknown-grade due, but not submitted by the instructor.
 AU Audit
 *Allows grade report to be printed.

GRADE	CONTRIBUTES TO QUALITY HOURS	QUALITY POINTS EARNED	CONTRIBUTES TO EARNED HOURS	TEMPORARY GRADE
(BLANK)	NO	0	NO	NO
A	YES	4	YES	NO
B	YES	3	YES	NO
C	YES	2	YES	NO
D	YES	1	YES	NO
F	YES	0	NO	NO
I	YES	0	NO	YES
W	NO	0	NO	NO
AU	NO	0	NO	NO
P	NO	0	YES	NO
U	NO	0	NO	NO
IP	NO	0	NO	NO
S	NO	0	YES	NO
Z	NO	0	NO	YES
NE	YES	0	NO	YES
FA	YES	0	NO	NO
NC	NO	0	NO	NO
WI	YES	0	NO	NO

TERM	ATTEMPTED HOURS	EARNED HOURS	QUALITY HOURS	GPA	RANKS IN CLASS	
CUMULATIVE	73	56	48	4.888	WITHIN CLASS	WITHIN SCHOOL WITHIN CURRICULUM
CLASS SIZE						

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GRADE REPORT

RENSSELAER POLYTECHNIC INST.
PITTSBURGH ELDG
TROY NY 12180-3590

1 CUNCE
TROY, NEW YORK
PERMIT NC. 385

SOCIAL SECURITY NUMBER 126-70-9192		CLASS DOC	TERM 1989 FALL	DATE PRINTED 01/04/90
DEGREE PURSUING CURRICULUM CONCENTRATION MINOR			VASANT NAIARAJAN 2113 15TH ST TROY NY 12180	
PRIMARY PHD ELEC	SECONDARY	TERTIARY		

COURSE NUMBER	SECTION	TITLE	ATTEMPTED HOURS	EARNED HOURS	QUALITY HOURS	GRADE	QUALITY POINTS
78 8940	01	QUANTUM MECHANICS 111 SOLID STATE PHYSICS 111	3	3	3	A	12

GRADE CALCULATIONS
GRADE INTERPRETATION

Blank No grade submitted

A Excellent
B Above Average
C Average
D Below Average
Not earned hours for a graduate student - not available to graduate students.

F Failing
FA Failure due to Administrative reasons.
I Incomplete (Incomplete course work)
NE Not Examined (Missed final exam)
P Pass in a Pass/No Credit course
NC Failure in a Pass/No Credit course
S Satisfactory
U Unsatisfactory (Failed S/U)
IP In Progress (Multiple-term course)
W Withdrawn
WI Did not complete a course that was previously graded incomplete.
Z *Grade Unknown-grade due, but not submitted by the instructor.
AU Audit

*Allows grade report to be printed.

GRADE	CONTRIBUTES TO QUALITY HOURS	QUALITY POINTS EARNED	CONTRIBUTES TO EARNED HOURS	TEMPORARY GRADE
(BLANK)	NO	0	NO	NO
A	YES	4	YES	NO
B	YES	3	YES	NO
C	YES	2	YES	NO
D	YES	1	YES	NO
F	YES	0	NO	NO
I	YES	0	NO	YES
W	NO	0	NO	NO
AU	NO	0	NO	NO
P	NO	0	YES	NO
U	NO	0	NO	NO
IP	NO	0	NO	NO
S	NO	0	YES	NO
Z	NO	0	NO	YES
NE	YES	0	NO	YES
FA	YES	0	NO	NO
NC	NO	0	NO	NO
WI	YES	0	NO	NO

TERM	ATTEMPTED HOURS	EARNED HOURS	QUALITY HOURS	QPA	WITHIN CLASS	RANKS IN CLASS	WITHIN SCHOOL	WITHIN CURRICULUM
		6	6	6	4.000			
CUMULATIVE	78	60	54	4.000				
CLASS SIZE								

NAME: NATARAJAN, VASANT
 STUDENT NUMBER: 126-70-9192
 ADMITTED FROM:
 BIRTHDATE: 12/11/65

Rensselaer

Office of the Registrar
RENSSELAER POLYTECHNIC INSTITUTE 400525
 Troy, New York 12180-3590
 (518) 276-6231 FAX (518) 276-6180

COURSE NUMBER	COURSE TITLE	Attempted Hours	GRADE	EARNED HOURS	QUALITY POINTS	COURSE NUMBER	COURSE TITLE	Attempted Hours	GRADE	EARNED HOURS	QUALITY POINTS	
GRADUATE ACADEMIC RECORD												
DEGREES AWARDED: May 1988												
MASTER OF SCIENCE												
RENSSELAER POLY INST												
MAJOR: ELECTRICAL ENGINEERING												
CUM QPA: 4.000												
-----1986 FALL-----												
ENTERING PROGRAM:												
ENGINEERING												
DEG: MASTER OF SCIENCE												
MAJ: ELECTRICAL ENGINEERING												
TR ECSE 425	IC PROC & DESIGN	3	A	3		TR ECSE 628	MODERN OPTICS & LASERS	3	A	3		
TR ECSE 621	PHYS SOLID STATE	3	A	3		TR ECSE 999	DOCTORAL THESIS	6	IP			
TR ECSE 623	SEMI COND DEV MODELS	3	A	3		TR PHYS 652	QUANTUM MECHANICS II	3	A	3		
TR ECSE 699	MASTERS THESIS/PROJECT	3	S	3				ATT	ERN	QHR	QPTS	QPA
	CURRENT	12		12				12	6	6	24	4.000
	CUMULATIVE	12		12				72	54	48	192	4.000
-----1987 SPRING-----												
TR ECSE 622	ELECTRONIC PROP OF SEMIC	3	A	3		TR PHYS 653	QUANTUM MECHANICS III	3	A	3		
TR ECSE 624	VLSI FAB TECH	3	A	3		TR PHYS 694	SOLID STATE PHYSICS 3	3	A	3		
TR ECSE 696	SEMICONDEV & MOD II	3	A	3				ATT	ERN	QHR	QPTS	QPA
TR ECSE 699	MASTERS THESIS/PROJECT	3	S	3				6	6	6	24	4.000
	CURRENT	12		12				78	60	54	216	4.000
	CUMULATIVE	24		24				*****	NO ENTRIES BELOW THIS LINE	*****		
-----1987 FALL-----												
TR ECSE 625	SOLID STATE MICROWAVE DE	3	A	3								
TR ECSE 999	DOCTORAL THESIS	6	IP									
TR PHYS 671	THEORY OF SOLIDS I	3	A	3								
	CURRENT	12		6								
	CUMULATIVE	36		30								
-----1988 SPRING-----												
TR ECSE 626	SEMICONDEV POWER DEVE	3	A	3								
TR ECSE 999	DOCTORAL THESIS	3	IP									
TR PHYS 453	GROUP THEORY QUANT MECH	3	A	3								
TR PHYS 672	THEORY OF SOLIDS II	3	A	3								
	CURRENT	12		9								
	CUMULATIVE	48		39								
-----1988 FALL-----												
PROGRAM:												
DEG: DOCTOR OF PHILOSOPHY												
MAJ: ELECTRICAL ENGINEERING												
TR ECSE 627	OPTOELECTRONICS	3	A	3								
TR ECSE 999	DOCTORAL THESIS	3	IP									
TR PHYS 651	QUANTUM MECHANICS I	3	A	3								
TR PHYS 696	METHODS IN MATH PHYSICS	3	A	3								
	CURRENT	12		9								
	CUMULATIVE	60		48								
						<div data-bbox="1164 1058 1552 1243" data-label="Text"> <p>VOID UNLESS RECEIVED IN A SEALED, VALIDATED ENVELOPE</p> </div> <div data-bbox="1509 957 1746 1192" data-label="Image"> </div> <div data-bbox="1552 1209 1724 1260" data-label="Text"> <p>NOV.-6.1992</p> </div> <div data-bbox="1401 1293 1854 1411" data-label="Text"> <p><i>Sharon L. Kuntel</i></p> </div>						
						<div data-bbox="1078 1461 1617 1545" data-label="Text"> <p>VASANT NATARAJAN 2113 15TH ST TROY NY 12180</p> </div> <div data-bbox="1767 1461 2112 1596" data-label="Text"> <p>PAGE 1 OF 1 11/05/92 OFFICIAL UNIVERSITY ACADEMIC RECORD</p> </div>						



Rensselaer

Public Law 90-247, as amended: Privacy Rights of Parents and Students, requires that this information, provided to you at the request of the student, cannot be released to any other party without the student's written permission.

VALIDATION ----- Transcript is official only when it bears the signature of the Registrar and the seal of the Institute on red safety paper.

ACCREDITATION ----- Rensselaer Polytechnic Institute, founded in 1824, is accredited by the Middle States Association of Colleges and Secondary Schools. See the Institute catalog for other accreditations.

CALENDAR ----- Semester type approximately 15 weeks in length with Summer Session.

CREDIT HOUR ----- One credit represents one lecture or recitation or laboratory period per week for one semester of approximately 15 weeks.

QUALITY POINT AVERAGE ----- Computed by dividing the number of quality points by the number of quality hours.

REPEATED COURSE POLICY ----- Student may repeat courses. The credits are counted only once toward the degree. Effective Spring 1989, the grade received in the repeated course is always the one used in computing the Quality Point Average (QPA). Prior to Spring 1989, both grades are counted in the QPA.

GRADE GRADE INTERPRETATION

Blank	No grade submitted
A	Excellent
B	Above Average
C	Average
D	Below Average
	Not available to graduate students
F	Failing
I	Incomplete (Incomplete course work)
W	Withdrawn
AU	Audit
P	Pass in a Pass/No Credit course
U	Unsatisfactory (Failed S/U)
IP	In Progress (Multiple-term course)
S	Satisfactory
Z	* Grade Unknown - Grade due, but not submitted by the instructor
NE	** Not Examined (Missed final exam)
FA	Failure due to Administrative reasons
NC	Failure in a Pass/No Credit course
WI	Did not complete a course that was previously graded Incomplete

GRADE CALCULATIONS

GRADE	CONTRIBUTES TO QUALITY HOURS	QUALITY POINTS EARNED	CONTRIBUTES TO EARNED HOURS	TEMPORARY GRADE
(Blank)	No	0	No	No
A	Yes	4	Yes	No
B	Yes	3	Yes	No
C	Yes	2	Yes	No
D	Yes	1	Yes	No
F	Yes	0	No	No
I	Yes	0	No	Yes
W	No	0	No	No
AU	No	0	No	No
P	No	0	Yes	No
U	No	0	No	No
IP	No	0	No	No
S	No	0	Yes	No
*Z	No	0	No	Yes
**NE	No	0	No	Yes
FA	Yes	0	No	No
NC	No	0	No	No
WI	Yes	0	No	No

COURSE NUMBERING SYSTEM

CATALOG NUMBER:

1 0 2 0 1

Department Number

Level

Sequence

TRANSCRIPT NUMBER:

Campus TR ARCH 2 0 1

Subject Abbreviation

Level

Sequence

COURSE LEVEL

0	Non-credit or Consortium courses.
1	Introductory courses and course sequences designed for undergraduate credit.
2	General undergraduate-credit courses.
4	Courses open for credit to both advanced undergraduate and graduate students.
5	Graduate-credit courses offered only at the Hartford Graduate Center.
6	Courses designed for graduate credit.
7	Graduate-credit courses offered only at the Hartford Graduate Center.
8	Graduate-credit courses offered only at the Hartford Graduate Center.
9	Doctoral Thesis/Research.

CAMPUS CODES

TR	Main Campus, Troy, NY
SP	Special Programs
DN	Danbury, CT Campus
GR	Groton, CT Campus
HN	Hartford, CT Campus at The Hartford Graduate Center
PL	Plattsburgh, NY Campus
RO	Rome, NY Campus
HC	Hartford, CT Campus at The Hartford Graduate Center (not a Rensselaer affiliate)

COURSE SUBJECT CODE CATALOG DEPT. NO.

ARCH	10
ARTS	46
ASTR	79
BIOL	70
BMED	31
CHEM	72
CHEG	32
CIVL	33
CNSO	—
COMM	43
CSCI	66
DSES	92
ECON	50
ENGR	20
ENVE	30
ENVS	32
EPOW	34
ERTH	76
ESCI	29
ECSE	35
GENL	—
GEOL	76
GNIN	90
IHSS	45
LANG	41
LITR	42
MAME	37
MATH	65
MATL	36
MGMT	80
MGTE	39
MPST	67
NUCL	38
ORST	83
PHED	99
PHIL	48
PHYS	78
PSYC	56
SMIS	83
STSS	51
STSH	49
URBN	93
USAF	95
USAR	96
USNA	97

SUBJECT AREA

Architecture
Arts
Astronomy
Biology
Biomedical Engineering
Chemistry
Chemical Engineering
Civil & Environmental Engineering
Consortium
Communication
Computer Science
Decision Sciences & Engineering Systems
Economics
General Engineering
Environmental Engineering & Environmental Sciences
Environmental Science & Technology (Hartford)
Electric Power Engineering
Earth & Environmental Sciences (effective 7-1-91)
Engineering Science
Electrical, Computer & Systems Engineering
General University Offering
Geology (prior to 7-1-91)
General Interdisciplinary Courses
Interdisciplinary Humanities & Social Science
Foreign Languages and Literature
Literature
Mechanical E., Aeronautical E., Mechanics
Mathematics
Materials Engineering
Management
Industrial & Management Engineering
Math Programming, Probab., & Math Statistics
Nuclear Engineering & Engineering Physics
Operational Research and Statistics (Hartford)
Physical Education
Philosophy
Physics
Psychology
Statistical Management & Information Sciences
Science & Technology Studies - Social Sciences
Science & Technology Studies - Humanities
Urban & Environmental Studies
Aerospace Studies
Military Science
Naval Science

* Allows grade report to be printed

** Prior to Fall '92 included in quality hours