

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI
KARNATAKA, INDIA



This is to certify that

VISHWANATH G

has been conferred the Degree of

Doctor of Philosophy

in

FACULTY OF ELECTRICAL & ELECTRONICS ENGINEERING SCIENCES

for the thesis entitled

POWER QUALITY ANALYSIS, CONTROL AND IMPROVEMENT IN
DISTRIBUTION SYSTEM WITH DGS

*in recognition of the fulfillment of requirements
for the said degree*

PH
23 00785

Given under the seal of the University

USN: 4NI13PEN01



BELAGAVI

DATE : FEBRUARY 24, 2023

VICE CHANCELLOR

आयकर विभागा
INCOME TAX DEPARTMENT



भारत सरकार
GOVT. OF INDIA



स्थायी लेखा संख्या कार्ड

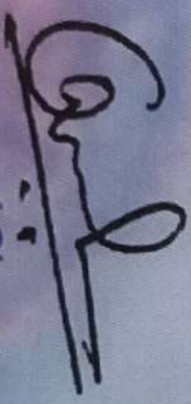
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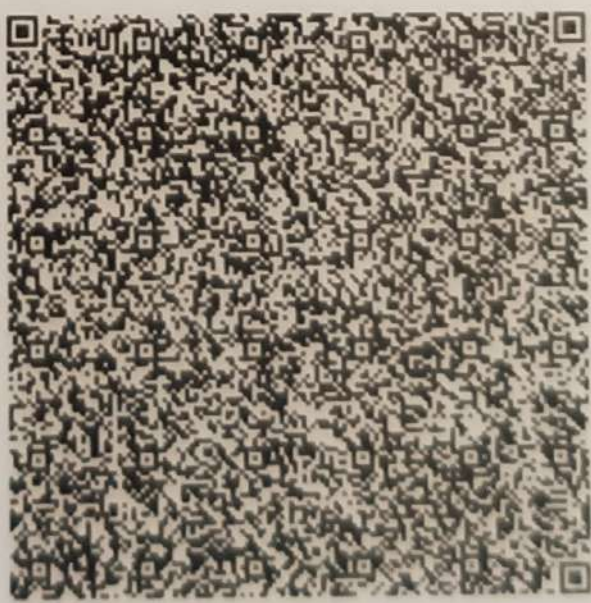
AHUPV1543L

नाम / Name
G VISHWANATH

पिता का नाम / Father's Name
GANESHA

जन्म की तारीख /
Date of Birth
26/05/1987


हस्ताक्षर / Signature



18092022

इस कार्ड के खोने/पाने पर कृपया सूचित करें/लौटारें:

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(पूर्व में एनएसडीएल ई-गवर्नेंस इंफ्रास्ट्रक्चर लिमिटेड)

चौथी मंजिल, सफायर चैंबर,

बानेर रोड, बानेर,

पुणे - ४११ ०४५.

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4th floor, Sapphire Chambers,

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Pune - 411 045.

Tel: 91-20-2721 8080, e-mail: tininfo@proteantech.in



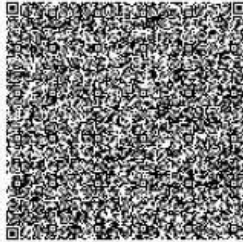
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Unique Identification Authority of India

ನೋಂದಣಿ ಸಂಖ್ಯೆ/ Enrolment No.: 1178/93631/04067

To
ಜಿ ವಿಶ್ವನಾಥ್
G Vishwanath
S/O V Ganesh
G-003, Foundation Sudharshan
Industrial Suburb
Vishweshwaranagara
Fort Mohalla
Mysore
Mysuru Karnataka - 570008
8861014779

Signature Not Verified
Digitally signed by G
UNIQUE IDENTIFICATION
AUTHORITY OF INDIA 05
Date: 2022.05.12 06:19:10
UTC



ನಿಮ್ಮ ಆಧಾರ್ ಸಂಖ್ಯೆ / Your Aadhaar No. :

4103 0963 1771

VID : 9160 4457 0434 4119

ನನ್ನ ಆಧಾರ್, ನನ್ನ ಗುರುತು



ಭಾರತ ಸರ್ಕಾರ
Government of India



ಜಿ ವಿಶ್ವನಾಥ್
G Vishwanath
ಜನ ದಿನಾಂಕ/DOB: 26/05/1987
ಪುರುಷ/ MALE

4103 0963 1771

VID : 9160 4457 0434 4119

ನನ್ನ ಆಧಾರ್, ನನ್ನ ಗುರುತು



ಮಾಹಿತಿ

- ಆಧಾರ್ ಗುರುತಿನ ಪುರಾವೆಯೇ ಹೊರತು ಪೌರತ್ವದಲ್ಲ
- ಸುರಕ್ಷಿತ ಕ್ಯೂಆರ್ ಕೋಡ್/ಆಫ್ಲೈನ್ XML/ಆನ್ಲೈನ್ ದೃಢೀಕರಣ ಬಳಸಿ ಗುರುತನ್ನು ಪರಿಶೀಲಿಸಿ
- ಎಲೆಕ್ಟ್ರಾನಿಕ್ ಪ್ರಕ್ರಿಯೆ ಮೂಲಕ ಮುದ್ರಿತವಾದ ವಿದ್ಯುನ್ಮಾನ ದಾಖಲೆ ಇದಾಗಿದೆ

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- Verify identity using Secure QR Code/ Offline XML/ Online Authentication.
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- ಆಧಾರ್ ದೇಶದಾದ್ಯಂತ ಮಾನ್ಯತೆಯನ್ನು ಪಡೆದಿದೆ
- ಸುಲಭವಾಗಿ ಸರ್ಕಾರಿ ಹಾಗೂ ಸರ್ಕಾರೇತರ ಸೇವೆಗಳನ್ನು ಪಡೆಯಲು ಆಧಾರ್ ಸಹಾಯವಾಗಲಿದೆ.
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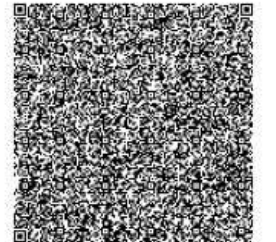


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ಇಂಡಸ್ಟ್ರಿಯಲ್ ಸುಬರ್ಬ್, ವಿಶ್ವೇಶ್ವರನಗರ, ಪೋರ್ಟ್
ಮೊಹಲ್ಲಾ, ಮೈಸೂರು, ಮೈಸೂರು,
ಕರ್ನಾಟಕ - 570008

Address:
S/O V Ganesh, # G-003, Foundation
Sudharshan, Industrial Suburb,
Vishweshwaranagara, Fort Mohalla, Mysore,
Mysuru,
Karnataka - 570008



4103 0963 1771

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KARNATAKA, INDIA
VISVESWARAIAH TECHNOLOGICAL UNIVERSITY, BELGAUM

STATEMENT OF MARKS
BE First Semester January 2006
Electrical & Electronics Engineering

J
06 099718



Name of the Student : VISHWANATH G

Father's / Mother's Name : GANESHA V

Name of the College : VIDYA VIKAS INSTITUTE OF ENGINEERING & TECHNOLOGY, MYSORE

Seat No. : 4VM05EE057

Sl. No.	Code	Subject Title	Examination Marks			Internal Assessment Marks			Total Marks			Subject Result
			Max.	Min.	Obtained	Max.	Min.	Obtained	Max.	Min.	Obtained	
1	MAT11	Engineering Mathematics - I	100	35	43	25	-	20	125	50	63	Pass
2	PHY12	Engineering Physics	100	35	42	25	-	20	125	50	62	Pass
3	CIV13	Elements of Civil Engineering	100	35	55	25	-	16	125	50	71	Pass
4	MES14	Elements of Mechanical Engineering	100	35	46	25	-	21	125	50	67	Pass
5	ELE15	Basic Electrical Engineering	100	35	60	25	-	20	125	50	80	Pass
6	WSL16	Workshop Practice	50	20	36	25	12	22	75	32	58	Pass
7	PHYL17	Engineering Physics Lab	50	20	44	25	12	17	75	32	61	Pass
GRAND TOTAL			775	314	462							

Total Marks Obtained (in words) : FOUR HUNDRED AND SIXTY TWO ONLY

Result of the Semester : FIRST CLASS (With 3 Grace Marks)

DATE : MAY 29 2006

A - Absent NE - Not Eligible



Registrar (Evaluation)

V. S. S. S.



ವಿಶ್ವೇಶ್ವರಯ್ಯ ತಾಂತ್ರಿಕ ವಿಶ್ವವಿದ್ಯಾಲಯ, ಬೆಳಗಾವಿ
VISVESWARAIAH TECHNOLOGICAL UNIVERSITY, BELGAUM

KARNATAKA, INDIA

STATEMENT OF MARKS
BE Second Semester July 2006
Electrical & Electronics Engineering

J 219309
06

Name of the Student : VISHWANATH G

Father's / Mother's Name : GANESHA V

Name of the College : VIDYA VIKAS INSTITUTE OF ENGINEERING & TECHNOLOGY, MYSORE

Seat No.: 4VM05EE057

Sl. No.	Code	Subject Title	Examination Marks			Internal Assessment Marks			Total Marks			Subject Result
			Max.	Min.	Obtained	Max.	Min.	Obtained	Max.	Min.	Obtained	
1	MATT21	Engineering Mathematics - II	100	35	54	25	-	20	125	50	74	Pass
2	CHE22	Engineering Chemistry	100	35	46	25	-	20	125	50	66	Pass
3	CCP23	Computer Concepts & 'C' Programming	100	35	39	25	-	17	125	50	56	Pass
4	GRA24	Engineering Graphics	100	35	46	25	-	17	125	50	63	Pass
5	ELN25	Basic Electronics	100	35	54	25	-	21	125	50	75	Pass
6	CPL26	Computer Programming Lab	50	20	40	25	12	20	75	32	60	Pass
7	CHEL27	Engineering Chemistry Lab	50	20	45	25	12	21	75	32	66	Pass
GRAND TOTAL			775	314	460							

Total Marks Obtained (in words) : FOUR HUNDRED AND SIXTY ONLY

Result of the Semester : FIRST CLASS (With 5 Grace Marks)

DATE : NOV 02, 2006

A - Absent NE - Not Eligible

Registrar (Evaluation)



ವಿಶ್ವೇಶ್ವರಯ್ಯ ತಾಂತ್ರಿಕ ವಿಶ್ವವಿದ್ಯಾಲಯ, ಬೆಳಗಾವಿ
CONSOLIDATED
VISVESWARAIAH TECHNOLOGICAL UNIVERSITY, BELGAUM

KARNATAKA, INDIA
STATEMENT OF MARKS
 THIRD SEMESTER B.E. EXAM
 Electrical & Electronics Engineering


C 083929
02

Name of the Student : **VISHWANATH G**
 Father's / Mother's Name : **GANESHA V**
 Name of the College : **VIDYA VIKAS INSTITUTE OF ENGINEERING & TECHNOLOGY, MYSORE**
 Seat No. : **4VYM05EE067**

Sl. No.	Code	Subject	Examination Marks			Internal Assessment Marks			Total Marks			Month & Year of Passing
			Max	Min	Obtained	Max	Min	Obtained	Max	Min	Obtained	
1	MAT31	Engineering Mathematics - III	100	35	66	25	-	21	125	50	87	JAN 2007
2	EC32	Electronics Circuits	100	35	56	25	-	20	125	50	76	JAN 2007
3	CS33	Logic Design	100	35	52	25	-	20	125	50	72	JAN 2007
4	EE34	Network Analysis	100	35	52	25	-	18	125	50	70	JAN 2007
5	IT35	Electrical & Electronics Measurement	100	35	46	25	-	23	125	50	69	JAN 2007
6	EC36	Signals & Systems	100	35	36	25	-	21	125	50	57	JUL 2007
7	ECL37	Analog Electronics Lab	50	20	40	25	12	21	75	32	61	JAN 2007
8	ECL38	Digital Electronics Lab	50	20	33	25	12	23	75	32	56	JAN 2007
FIRST ATTEMPT TOTAL									900	364	536+4	

First Attempt Total Marks (in words) : **FIVE HUNDRED AND FORTY ONLY**
 Result of the Semester : **FIRST CLASS**

DATE : **AUG 06, 2008**

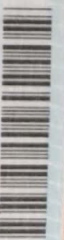

 Registrar (Evaluation)



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VISVESWARAIAH TECHNOLOGICAL UNIVERSITY, BELGAUM

KARNATAKA, INDIA
STATEMENT OF MARKS
BE Fourth Semester July 2007
Electrical & Electronics Engineering

J
07 093941



Name of the Student : VISHWANATH G

Father's / Mother's Name : GANESHA V

Name of the College : VIDYA VIKAS INSTITUTE OF ENGINEERING & TECHNOLOGY, MYSORE

Seat No. : 4VM05EE057

Sl. No.	Code	Subject	Examination Marks			Internal Assessment Marks			Total Marks			Subject Result
			Max.	Min.	Obtained	Max.	Min.	Obtained	Max.	Min.	Obtained	
1	MA T41	Engineering Mathematics - IV	100	35	57	25	-	18	125	50	75	Pass
2	EC42	Power Electronics	100	35	39	25	-	22	125	50	61	Pass
3	EE43	Control Systems	100	35	35	25	-	15	125	50	50	Pass
4	EC44	Field Theory	100	35	38	25	-	21	125	50	59	Pass
5	EC45	Microprocessors	100	35	41	25	-	15	125	50	56	Pass
6	CS46	Computer Organisation	100	35	47	25	-	16	125	50	63	Pass
7	ECL47	Microprocessors Lab	50	20	42	25	12	21	75	32	63	Pass
8	ECL48	Power Electronics Lab	50	20	38	25	12	21	75	32	59	Pass
GRAND TOTAL			900	364	486							

Total Marks Obtained (in words) : FOUR HUNDRED AND EIGHTY SIX ONLY
Result of the Semester : SECOND CLASS

DATE : NOV 27, 2007

A - Absent NE - Not Eligible

Registrar (Evaluation)



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KARNATAKA, INDIA
STATEMENT OF MARKS
BE Fifth Semester January 2008
Electrical & Electronics Engineering

07 200178



Name of the Student : VISHWANATH G

Father's / Mother's Name : GANESHA V

Seat No. : 4VM05EE057

Name of the College : VIDYA VIKAS INSTITUTE OF ENGINEERING & TECHNOLOGY, MYSORE

Sl. No.	Code	Subject Title	Examination Marks			Internal Assessment Marks			Total Marks			Subject Result
			Max.	Min.	Obtained	Max.	Min.	Obtained	Max.	Min.	Obtained	
1	EE51	Electrical Power Generation	100	35	60	25	-	17	125	50	77	Pass
2	EE52	Modern Control Theory	100	35	87	25	-	18	125	50	105	Pass
3	EE53	Electrical Power Transmission & Distribution	100	35	66	25	-	21	125	50	87	Pass
4	EE54	DC Machines & Synchronous Machine	100	35	60	25	-	15	125	50	75	Pass
5	EE55	Digital Signal Processing	100	35	39	25	-	13	125	50	52	Pass
6	EE56	Operational Amplifiers & Linear IC's	100	35	42	25	-	20	125	50	62	Pass
7	EEL57	DC Machines & Synchronous Machines Lab	50	20	38	25	12	18	75	32	56	Pass
8	EEL58	Circuits Simulation & Measurements Lab	50	20	24	25	12	18	75	32	42	Pass
GRAND TOTAL			900	364	556							

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

Result of the Semester : FIRST CLASS

DATE : APR 10, 2008

A - Absent NE - Not Eligible



Registrar (Evaluation)

[Signature]



ವಿಶ್ವೇಶ್ವರಯ್ಯ ತಾಂತ್ರಿಕ ವಿಶ್ವವಿದ್ಯಾಲಯ, ಬೆಳಗಾವಿ
VISVESWARAIAH TECHNOLOGICAL UNIVERSITY, BELGAUM

KARNATAKA, INDIA

STATEMENT OF MARKS

BE Sixth Semester July 2008

Electrical & Electronics Engineering

J
108566



Name of the Student : VISHWANATH G

Father's / Mother's Name : GANESHA V

Name of the College : VIDYA VIKAS INSTITUTE OF ENGINEERING & TECHNOLOGY, MYSORE

Seat No. : 4VM05EE057

Sl. No.	Code	Subject Title	Examination Marks			Internal Assessment Marks			Total Marks			Subject Result
			Max.	Min.	Obtained	Max.	Min.	Obtained	Max.	Min.	Obtained	
1	EE61	Power System Analysis and Stability	100	35	64	25	-	22	125	50	86	Pass
2	EE62	Electrical Machine Design	100	35	44	25	-	21	125	50	65	Pass
3	EE63	Switch Gear and Protection	100	35	52	25	-	20	125	50	72	Pass
4	EE64	Transformer and Induction Machine	100	35	42	25	-	19	125	50	61	Pass
5	EE65	Electrical Drawing and CAD	100	35	47	25	-	18	125	50	65	Pass
6	EE661	OOP 's with C++	100	35	45	25	-	15	125	50	60	Pass
7	EEL67	Transformers Induction Machines Lab	50	20	36	25	12	22	75	32	58	Pass
8	EEL68	Control System Lab	50	20	38	25	12	16	75	32	54	Pass
GRAND TOTAL			900	364	521							

Total Marks Obtained (in words) : FIVE HUNDRED AND TWENTY ONE ONLY

Result of the Semester : SECOND CLASS

DATE : NOV 23, 2008

A - Absent NE - Not Eligible



Registrar (Evaluation)



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KARNATAKA, INDIA
STATEMENT OF MARKS
BE Seventh Semester January 2009
Electrical & Electronics Engineering
207803
VISVESWARAIAH TECHNOLOGICAL UNIVERSITY, BELGAUM



Name of the Student : VISHWANATH G

Father's / Mother's Name : GANESHA V

Name of the College : VIDYA VIKAS INSTITUTE OF ENGINEERING & TECHNOLOGY, MYSORE

Seat No. : 4MM05EE057

Sl. No.	Code	Subject Title	Examination Marks			Internal Assessment Marks			Total Marks			Subject Result
			Max.	Min.	Obtained	Max.	Min.	Obtained	Max.	Min.	Obtained	
1	CIP71	Constitution of India & Professional Ethics	100	35	49	25	-	16	125	50	65	Pass
2	EE72	Computer Techniques in Power System	100	35	45	25	-	22	125	50	67	Pass
3	EE73	Electrical Power utilization	100	35	76	25	-	18	125	50	94	Pass
4	EE74	High Voltage Engineering	100	35	42	25	-	19	125	50	61	Pass
5	EE751	Renewable energy Source	100	35	56	25	-	21	125	50	77	Pass
6	EE766	Power System Operation and Control	100	35	62	25	-	20	125	50	82	Pass
7	EEL77	Relay HV Lab	50	20	45	25	12	22	75	32	67	Pass
8	EEL78	Power Simulation Lab	50	20	39	25	12	23	75	32	62	Pass
GRAND TOTAL			775	314	510							

Total Marks Obtained (in words) : FIVE HUNDRED AND TEN ONLY

Result of the Semester : FIRST CLASS

DATE : MAY 02 2009

CIP71 is not considered for Grand Total and the Class Declaration

A - Absent NE - Not Eligible



Registrar (Evaluation)

[Signature]



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VISVESWARAIAH TECHNOLOGICAL UNIVERSITY, BELGAUM

KARNATAKA, INDIA
STATEMENT OF MARKS
BE Eighth Semester (Electrical & Electronics Engineering)

F₀₇ 058500



Name of the Student : VISHWANATH G
Father's / Mother's Name : GANESHA V
Name of the College : VIDYA VIKAS INSTITUTE OF ENGINEERING & TECHNOLOGY, MYSORE

Seat No. : 4VM05EE057

Sl. No.	Code	Subject	Title	Examination Marks			Internal Assessment Marks			Total Marks			Month & Year of Passing
				Max	Min	Obtained	Max	Min	Obtained	Max	Min	Obtained	
1	EE81	Ind. Mgmt, Electrical Estimation & Economics	100	35	56	25	-	20	125	50	76	Jul 09	
2	EE82	Industrial Drives & Application	100	35	88	25	-	21	125	50	109	Jul 09	
3	EE834	HYDC Transmission	100	35	57	25	-	22	125	50	79	Jul 09	
4	EE843	Computer Control of Electrical Drives	100	35	55	25	-	23	125	50	78	Jul 09	
5	EE85	Project Work	100	40	85	100	50	92	200	90	177	Jul 09	
6	EE86	Seminar on Project Work	-	-	-	50	20	38	50	20	38	Jul 09	
GRAND TOTAL				750	310	557							

*First Attempt Total (in words) : FIVE HUNDRED AND FIFTY SEVEN ONLY
Result of the Semester : FIRST CLASS WITH DISTINCTION
Results of V to VIII Semesters :

Semesters	V	VI	VII	VIII	V TO VIII
Marks at First Attempt	556	521	510	557	2144
Total Marks (Max.)	900	900	775	750	3325
Result	FC	SC	FC	FCD	FC

First Attempt Total (V to VIII Sem) in words : TWO THOUSAND ONE HUNDRED AND FORTY FOUR ONLY
Result of the Degree : FIRST CLASS
Date : SEP 02 2009



Registrar (Evaluation)

ವಿಶ್ವೇಶ್ವರಯ್ಯ ತಾಂತ್ರಿಕ ವಿಶ್ವವಿದ್ಯಾಲಯ, ಬೆಳಗಾವಿ
VISVESWARAIAH TECHNOLOGICAL UNIVERSITY, BELGAUM
KARNATAKA, INDIA



Certifies that

VISHWANATH G

ಬ್ಯಾಚಲರ್ ಆಫ್ ಇಂಜಿನಿಯರಿಂಗ್

ಪದವಿಗೆ ಅಗತ್ಯವಾದ ಅರ್ಹತೆಗಳನ್ನು ಉತ್ತಮವಾಗಿ ಪರಿಗಣಿಸಿರುವ ಕಾರಣ
ಮೇಲೆ ಕಾಣಿಸಿದ ಪದವಿಗೆ ಅವರನ್ನು ಅಂಗೀಕರಿಸಲಾಗಿದೆ.

has been duly admitted to the Degree of

Bachelor of Engineering

*in recognition of the fulfilment of requirements
for the said degree*



ಪರೀಕ್ಷಾ ಕ್ರಮ ಸಂಖ್ಯೆ

University Seat Number : 4VM05EE057

ವಿಷಯ

Subject : *Electrical & Electronics Engineering*

ಶ್ರೇಣಿ

Class : *First Class*

D 09 026770

ವಿಶ್ವವಿದ್ಯಾಲಯದ ಮುದ್ರೆಯೊಂದಿಗೆ ಕೊಡಲ್ಪಟ್ಟಿದೆ

Given under the seal of the University

ಬೆಳಗಾವಿ
Belgaum

ದಿನಾಂಕ

Date : *JAN 07, 2010*

H.P. Khincha

ಕುಲಪತಿ

VICE CHANCELLOR

AUTHENTIC

Registrar (Evaluation)
Visvesvaraya Technological University
BELGAUM-590018.



AUTHENTICATED



No. RCB/ATW 887 /2013-14 12-15
Date 16-08-2014

[Handwritten Signature]

Dr. V. S. CHOUGULA, K.A.
* ADDITIONAL COMMISSIONER
(LAND MAINTENANCE, PROJECTS AND MISC)
OFFICE OF THE REGIONAL COMMISSIONER
BELGAUM DIVISION, BELGAUM
KARNATAKA STATE (INDIA)

[Handwritten initials and dates: 16/8, 2/16/8, 16/8]

भारत सरकार GOVERNMENT OF INDIA
अपोस्टिल / APOSTILLE
(Convention de La Haye du 5 octobre 1961)

Country INDIA

This public document of the type
DEGREE

is issued to VISHWANATH G

has been signed by DR. V S CHOUGULA

with the seal / stamp of ADDL. COMMISSIONER, BELGAUM, KARNATAKA

Certified by
Section Officer(OI) MINISTRY OF EXTERNAL AFFAIRS
on 04-Sep-2014 at NEW DELHI, INDIA

with reference no. VTUK0000626514

[Red Seal of Regional Commissioner, Belgaum]

[Blue Seal of Ministry of External Affairs, New Delhi]

[Handwritten Signature: पवन कुमार (Pawan Kumar)]
अनुभाग अधिकारी (ओ.आई.)
Signature Officer (OI)
सी.पी.डी. प्रभाग / C.P.V. Division
विदेश मंत्रालय, नई दिल्ली
Ministry of External Affairs
New Delhi

सं. 238769 दिनांक 29 AUG 2014
No. Date
राज्य सरकार के सचिव/अपर सचिव/उप सचिव/अवर सचिव/सहायक सचिव/अनुभाग अधिकारी के हस्ताक्षर सात्यापित किए जाते हैं
The Signature of Secretary/Additional Secretary/Deputy Secretary/Under Secretary/Asstt. Secretary/Section Officer of State Government Attested



(जार्ज लाकरा)
(GEORGE LAKRA)
अनुभाग अधिकारी (सात्यापन)
Section Officer (Attestation)
सी.पी.डी. प्रभाग / C.P.V. Division
विदेश मंत्रालय, नई दिल्ली
Ministry of External Affairs
New Delhi

ವಿಶ್ವೇಶ್ವರಯ್ಯ ತಾಂತ್ರಿಕ ವಿಶ್ವವಿದ್ಯಾಲಯ, ಬೆಳಗಾವಿ
VISVESWARAIAH TECHNOLOGICAL UNIVERSITY, BELGAUM
KARNATAKA, INDIA



Certifies that

VISHWANATH G

ಬ್ಯಾಚಲರ್ ಆಫ್ ಇಂಜಿನಿಯರಿಂಗ್

ಪದವಿಗೆ ಅಗತ್ಯವಾದ ಅರ್ಹತೆಗಳನ್ನು ಕೈವರೆಂದು ಪರಿಗಣಿತವಾಗಿರುವ ಕಾರಣ
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Belgaum

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Date : JAN 07, 2010

H.P. Khincha

ಕುಲಪತಿ
VICE CHANCELLOR

AUTHENTIC

[Signature]
Registrar (Evaluation)
Visvesvaraya Technological University
BELGAUM-590 018.



AUTHENTICATED



No. RCB/ATW 887 2013-14 14-15
Date 16-08-2014

[Signature]

Dr. V. S. CHOUGULA, K.A.S
ADDITIONAL COMMISSIONER
(LAND MAINTENANCE, PROJECTS AND MISC)
OFFICE OF THE REGIONAL COMMISSIONER
BELGAUM DIVISION, BELGAUM
KARNATAKA STATE (INDIA)

[Handwritten initials]

भारत सरकार GOVERNMENT OF INDIA
अपोस्टिल / APOSTILLE
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Country **INDIA**

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has been signed by **DR. V S CHOUGULA**

with the seal / stamp of **ADDL COMMISSIONER, BELGAUM, KARNATAKA**

Certified by
Section Officer(OI) MINISTRY OF EXTERNAL AFFAIRS
on 04-Sep-2014 at NEW DELHI, INDIA

with reference no. **VTUK0000626514**

Seal / Stamp

[Signature]
नयन कुमार
(NAYAN KUMAR)
अनुभाग अधिकारी (ओ.आई.)
अनुभाग अधिकारी (ओ.आई.)
Signature Officer (OI)
ओ.पी.ओ. प्रभाग / O.P.V. Division
विदेश मंत्रालय, नई दिल्ली
Ministry of External Affairs
New Delhi

सं. 238769 दिनांक 29 AUG 2014
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[Signature]
(जार्ज लाकरा)
(GEORGE LAKRA)
अनुभाग अधिकारी (सात्यापन)
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विदेश मंत्रालय, नई दिल्ली
Ministry of External Affairs
New Delhi



THE NATIONAL INSTITUTE OF ENGINEERING

(Autonomous College under Visvesvaraya Technological University, Belgaum)

MYSORE- 570008 (KARNATAKA, INDIA)

GRADE CARD

Name : VISHWANATH G

USN : 4NI09EPS18

Father's Name : GANESHA.V

Academic Year : 2009-10

Programme : M.Tech.

Medium of Instruction : ENGLISH

Branch : POWER SYSTEMS

Semester : FIRST



Sl. No.	Course Code with Title	Credits	Grade	Grade Points
1	MA611 Applied Engg. Mathematics	3.0	B	8.00
2	MPS611 Microcontroller & Computer Applns to Power System	5.0	A	9.00
3	MPS612 Advanced Power System Protection	5.0	B	8.00
4	MPS613 Advanced Power System Analysis and Stability	5.0	B	8.00
5	MPS654 Energy Management Systems	5.0	B	8.00
6	MPS656 Electric Power Quality	5.0	B	8.00
7				
8				
9				
10				
11				

Earned Credits	28
Semester Grade Point Average (SGPA)	8.18
Cumulative Grade Point Average (CGPA)	8.18

Note: CGPA will be printed only if all the courses including current semester have been cleared

% of Marks	>= 90	75-89	60-74	50-59	45-49	< 45
Letter Grade	S	A	B	C	D	F
Grade Points	10	09	08	07	05	00

S, A, B, C and D are Pass Grades

F is Fail Grade

Satisfactory performance is indicated by 'PP', Non satisfactory performance is indicated by 'NP' for humanities courses

Percentage Equivalence for SGPA/CGPA

SGPA/CGPA	>=5.00 & <=5.75	>5.75 & <=6.25	>6.25 & <=6.75	>6.75 & <=7.25	>7.25 & <=7.75	>7.75 & <=8.25	>8.25
PERCENTAGE	>=45 & <=50	>50 & <=55	>55 & <=60	>60 & <=65	>65 & <=70	>70 & <=75	>75
CLASS	PASS CLASS	SECOND CLASS		FIRST CLASS		FCD	

Verified by

Controller of Examinations



Date of Issue: March, 2010

PRINCIPAL



THE NATIONAL INSTITUTE OF ENGINEERING

(Autonomous College under Visvesvaraya Technological University, Belgaum)

MYSORE- 570008 (KARNATAKA, INDIA)

GRADE CARD

Name : VISHWANATH G
Father's Name : GANESHA.V
Programme : M.Tech.
Branch : POWER SYSTEMS

USN : 4NI09EPS18
Academic Year : 2009-10
Medium of Instruction : ENGLISH
Semester : SECOND



Sl. No.	Course Code with Title	Credits	Grade	Grade Points
1	MPS621 Economic Operation and Control of Power Systems	5.0	B	8.00
2	MPS622 Reactive Power Management	5.0	B	8.00
3	MPS623 Distribution System Design & Control	5.0	A	9.00
4	MPS659 Power System Dynamics	5.0	B	8.00
5	MPS662 Microcomputer Control of Electric Drives	5.0	S	10.00
6	MPS624 Seminar	2.0	A	9.00
7				
8				
9				
10				
11				

Earned Credits	27
Semester Grade Point Average (SGPA)	8.63
Cumulative Grade Point Average (CGPA)	8.40

Note: CGPA will be printed only if all the courses including current semester have been cleared

% of Marks	>= 90	75-89	60-74	50-59	45-49	< 45
Letter Grade	S	A	B	C	D	F
Grade Points	10	09	08	07	05	00

S, A, B, C and D are Pass Grades

F is Fail Grade

Satisfactory performance is indicated by 'PP', Non satisfactory performance is indicated by 'NP' for humanities courses

Percentage Equivalence for SGPA/CGPA

SGPA/CGPA	>=5.00 & <=5.75	>5.75 & <=6.25	>6.25 & <=6.75	>6.75 & <=7.25	>7.25 & <=7.75	>7.75 & <=8.25	>8.25
PERCENTAGE	>=45 & <=50	>50 & <=55	>55 & <=60	>60 & <=65	>65 & <=70	>70 & <=75	>75
CLASS	PASS CLASS	SECOND CLASS		FIRST CLASS		FCD	

Verified by

Shoba
Srinivas

Controller of Examinations



Date of Issue: September, 2010

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PRINCIPAL



THE NATIONAL INSTITUTE OF ENGINEERING

(Autonomous College under Visvesvaraya Technological University, Belgaum)

MYSORE- 570008 (KARNATAKA, INDIA)

GRADE CARD

Name : VISHWANATH G
Father's Name : GANESHA.V
Programme : M.Tech.
Branch : POWER SYSTEMS

USN : 4NI09EPS18
Academic Year : 2010-11
Medium of Instruction : ENGLISH
Semester : THIRD



Sl. No.	Course Code with Title	Credits	Grade	Grade Points
1	MPS648 Industrial Training	3.0	S	10.00
2	MPS649 Preliminary Project Seminar	8.0	S	10.00
3				
4				
5				
6				
7				
8				
9				
10				
11				

Earned Credits	11
Semester Grade Point Average (SGPA)	10.00
Cumulative Grade Point Average (CGPA)	8.67

Note: CGPA will be printed only if all the courses including current semester have been cleared

% of Marks	>= 90	75-89	60-74	50-59	45-49	< 45
Letter Grade	S	A	B	C	D	F
Grade Points	10	09	08	07	05	00

S, A, B, C and D are Pass Grades

F is Fail Grade

Satisfactory performance is indicated by 'PP', Non satisfactory performance is indicated by 'NP' for humanities courses

Percentage Equivalence for SGPA/CGPA

SGPA/CGPA	>=5.00 & <=5.75	>5.75 & <=6.25	>6.25 & <=6.75	>6.75 & <=7.25	>7.25 & <=7.75	>7.75 & <=8.25	>8.25
PERCENTAGE	>=45 & <=50	>50 & <=55	>55 & <=60	>60 & <=65	>65 & <=70	>70 & <=75	>75
CLASS	PASS CLASS	SECOND CLASS		FIRST CLASS		FCD	

Verified by

Controller of Examinations



Date of Issue: March, 2011

PRINCIPAL



THE NATIONAL INSTITUTE OF ENGINEERING

(Autonomous College under Visvesvaraya Technological University, Belgaum)

MYSORE- 570008 (KARNATAKA, INDIA)

GRADE CARD

Name : VISHWANATH G
Father's Name : GANESHA.V
Programme : M.Tech.
Branch : POWER SYSTEMS

USN : 4NI09EPS18
Academic Year : 2010-11
Medium of Instruction : ENGLISH
Semester : FOURTH



Sl. No.	Course Code with Title	Credits	Grade	Grade Points
1	MPS650 Major Project Work	34.0	S	10.00
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				

Earned Credits		34
Semester Grade Point Average (SGPA)		10.00
Cumulative Grade Point Average (CGPA)		9.12

Note: CGPA will be printed only if all the courses including current semester have been cleared

% of Marks	>= 90	75-89	60-74	50-59	45-49	< 45
Letter Grade	S	A	B	C	D	F
Grade Points	10	09	08	07	05	00

S, A, B, C and D are Pass Grades

F is Fail Grade

Satisfactory performance is indicated by 'PP', Non satisfactory performance is indicated by 'NP' for humanities courses

Percentage Equivalence for SGPA/CGPA

SGPA/CGPA	>=5.00 & <=5.75	>5.75 & <=6.25	>6.25 & <=6.75	>6.75 & <=7.25	>7.25 & <=7.75	>7.75 & <=8.25	>8.25
PERCENTAGE	>=45 & <=50	>50 & <=55	>55 & <=60	>60 & <=65	>65 & <=70	>70 & <=75	>75
CLASS	PASS CLASS	SECOND CLASS		FIRST CLASS		FCD	

Verified by

Shoba
Squarup

Controller of Examinations



Date of Issue: September, 2011

[Signature]
PRINCIPAL

ವಿಶ್ವೇಶ್ವರಯ್ಯ ತಾಂತ್ರಿಕ ವಿಶ್ವವಿದ್ಯಾಲಯ, ಬೆಳಗಾವಿ
VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELGAUM
KARNATAKA, INDIA



Certifies that

Vishwanath G

ಮಾಸ್ತರ್ ಆಫ್ ಟೆಕ್ನಾಲಜಿ

ಪದವಿಗೆ ಅಗತ್ಯವಾದ ಅರ್ಹತೆಗಳನ್ನು ಳ್ಳವರೆಂದು ಪರಿಗಣಿತವಾಗಿರುವ ಕಾರಣ
ಮೇಲೆ ಕಾಣಿಸಿದ ಪದವಿಗೆ ಅವರನ್ನು ಅಂಗೀಕರಿಸಲಾಗಿದೆ.

has been duly admitted to the Degree of

Master of Technology

in recognition of the fulfilment of requirements

for the said degree through



ವಿದ್ಯಾಲಯದ ಹೆಸರು

Name of the College

: *The National Institute of Engineering, Mysore
(Autonomous College)*

ಪರೀಕ್ಷಾ ಕ್ರಮ ಸಂಖ್ಯೆ

University Seat Number

: **4NI09EPS18**

ಪರಿಣತಿ / Specialisation

: *Power Systems Engineering*

ಶ್ರೇಣಿ

Class

: *First Class with Distinction*

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ವಿಶ್ವವಿದ್ಯಾಲಯದ ಮುದ್ರೆಯೊಂದಿಗೆ ಕೊಡಲ್ಪಟ್ಟಿದೆ

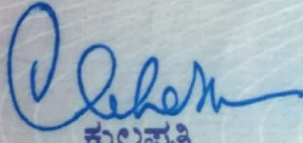
Given under the seal of the University

ಬೆಳಗಾವಿ

Belgaum

ದಿನಾಂಕ

Date : April 08, 2012


ಕುಲಪತಿ

VICE CHANCELLOR