

Register No. 300377  
&  
Year February 2013

# Mahatma Gandhi University

(Established by Kerala State Legislature by Notification No. 3431/Leg. C1/85/Law, dated 17th April 1985)



## FACULTY OF ENGINEERING & TECHNOLOGY

*The Syndicate of the Mahatma Gandhi University*

*hereby makes known that*

*Indu . V . Nair*

*has been admitted to the*

*Degree of Master of Technology*

*under Communication Engineering Branch*

*to/she having been certified by duly appointed examiners to be qualified to receive the same, and having been by them placed*

*in the First Class with Distinction at the*

*examination held in February 2013*

*Given under the seal of the University.*

University Buildings,  
Kottayam - 686 560  
Kerala, India

Dated 30 December 2013



  
Vice-Chancellor



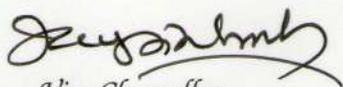
## FACULTY OF ENGINEERING AND TECHNOLOGY

*The Senate of the University of Kerala hereby makes known that **Indu V. Nair** has been admitted to the Degree of Bachelor of Technology under **Electronics and Communication Engineering** Branch, she having been certified by duly appointed examiners to be qualified to receive the same and having been by them placed in the **First Class** at the examination held in **June 2009**.*

Given under the seal of the University

University Buildings  
Thiruvananthapuram January 12, 2010



  
Vice Chancellor

# Mahatma Gandhi University

(Established by Kerala State Legislature by Notification No.3431/Leg. CI/85/Law, dated 17th April 1985)

Section: EI XXXIV  
Serial No.: 1091405

Student ID: MTAG2010P051094552



Kottayam,

26-Nov-2012

## MEMORANDUM

The following marks were awarded to Shri./Smt **INDU V NAIR**

candidate with Register No. **300377** at the Second Semester M Tech Degree Examination February 2012

| SUBJECTS   | Credit    | Grade Awarded | Marks    |              |     |          |              |     |                          |              |             |
|--|-----------|---------------|----------|--------------|-----|----------|--------------|-----|--------------------------|--------------|-------------|
|  |           |               | External |              |     | Internal |              |     | Total                    |              |             |
|  |           |               | Awarded  | Min for Pass | Max | Awarded  | Min for Pass | Max | Awarded                  | Min for Pass | Max         |
| <b>FACULTY OF ENGINEERING AND TECHNOLOGY</b>             |           |               |          |              |     |          |              |     |                          |              |             |
| <b>M TECH: COMMUNICATION ENGINEERING</b>                 |           |               |          |              |     |          |              |     |                          |              |             |
| CE 201: Advanced Digital Signal Processing               | 4         | D             | 56       | 40           | 100 | 42       | 25           | 50  | 98                       | 75           | 150         |
| CE 202: Wireless Communication and Networks              | 4         | C             | 62       | 40           | 100 | 44       | 25           | 50  | 106                      | 75           | 150         |
| CE 203: Photonics and Light Wave Communication           | 4         | C             | 63       | 40           | 100 | 44       | 25           | 50  | 107                      | 75           | 150         |
| CE 204: Radio Frequency Integrated Circuits              | 4         | C             | 73       | 40           | 100 | 42       | 25           | 50  | 115                      | 75           | 150         |
| CE 205: Elective III - Wireless Sensor Networks          | 3         | D             | 53       | 40           | 100 | 43       | 25           | 50  | 96                       | 75           | 150         |
| CE 206: Elective IV - Communication and Network Security | 3         | D             | 44       | 40           | 100 | 46       | 25           | 50  | 90                       | 75           | 150         |
| CE 207: Seminar II                                       | 1         | B             | -        | -            | -   | 43       | 25           | 50  | 43                       | 25           | 50          |
| CE 208: DSP Laboratory                                   | 2         | B             | 81       | 40           | 100 | 40       | 25           | 50  | 121                      | 75           | 150         |
| <b>TOTAL</b>   | <b>25</b> |               |          |              |     |          |              |     | <b>776</b>               | <b>550</b>   | <b>1100</b> |
| <b>Grade Point Average -</b>                             |           | <b>7.72</b>   |          |              |     |          |              |     |                          |              |             |
| *****End of statement*****                               |           |               |          |              |     |          |              |     | <b>(Seven Seven Six)</b> |              |             |

Checked by:

*Bilal*

Section Officer:

*Rachalambika*



CONTROLLER OF EXAMINATIONS

*[Signature]*

# Mahatma Gandhi University

(Established by Kerala State Legislature by Notification No.3431/Log. CI/85/Law, dated 17th April 1985)

Section: EI XXXIV  
Serial No.: 1147773

Student ID: MTAG2010P051094552



Kottayam,

28-Jan-2012

## MEMORANDUM

The following marks were awarded to Shri./Smt **INDU V NAIR** candidate with Register No. **300377** at the First Semester M Tech Degree Examination May 2011

| SUBJECTS  | Credit    | Grade Awarded | Marks    |              |     |          |              |     |                               |              |             |
|---|-----------|---------------|----------|--------------|-----|----------|--------------|-----|-------------------------------|--------------|-------------|
|   |           |               | External |              |     | Internal |              |     | Total                         |              |             |
|   |           |               | Awarded  | Min for Pass | Max | Awarded  | Min for Pass | Max | Awarded                       | Min for Pass | Max         |
| <b>FACULTY OF ENGINEERING AND TECHNOLOGY</b>              |           |               |          |              |     |          |              |     |                               |              |             |
| <b>M TECH: COMMUNICATION ENGINEERING</b>                  |           |               |          |              |     |          |              |     |                               |              |             |
| CE 101: Applied Mathematics for Communication Engineering | 4         | C             | 74       | 40           | 100 | 43       | 25           | 50  | 117                           | 75           | 150         |
| CE 102: Advanced Digital Communication                    | 4         | C             | 66       | 40           | 100 | 45       | 25           | 50  | 111                           | 75           | 150         |
| CE 103: High Frequency Circuits Design                    | 4         | C             | 66       | 40           | 100 | 41       | 25           | 50  | 107                           | 75           | 150         |
| CE 104: High Performance Communication Networks           | 4         | D             | 59       | 40           | 100 | 44       | 25           | 50  | 103                           | 75           | 150         |
| CE 105: Elective I - Satellite Communication              | 3         | D             | 49       | 40           | 100 | 44       | 25           | 50  | 93                            | 75           | 150         |
| CE 106: Elective II - RF MEMS for Wireless Communications | 3         | C             | 69       | 40           | 100 | 44       | 25           | 50  | 113                           | 75           | 150         |
| CE 107: Seminar I   | 1         | B             | -        | -            | -   | 43       | 25           | 50  | 43                            | 25           | 50          |
| CE 108: Communication Engineering Lab                     | 2         | C             | 72       | 40           | 100 | 45       | 25           | 50  | 117                           | 75           | 150         |
| <b>TOTAL</b>  | <b>25</b> |               |          |              |     |          |              |     | <b>804</b>                    | <b>550</b>   | <b>1100</b> |
| <b>Grade Point Average -</b>                              |           | <b>7.76</b>   |          |              |     |          |              |     |                               |              |             |
| *****End of statement*****                                |           |               |          |              |     |          |              |     | <b>(Eight Zero Four Only)</b> |              |             |

Checked by:

Section Officer:



CONTROLLER OF EXAMINATIONS

# Mahatma Gandhi University

(Established by Kerala State Legislature by Notification No.3431/Leg. CI/85/Law, dated 17th April 1985)

Section: EI XXXIV  
Serial No.: 1241826

Student ID: MTAG2010P051094552



Kottayam,

29-Nov-2012

## MEMORANDUM

The following marks were awarded to Shri./Smt **INDU V NAIR**

candidate with Register No. **300377** at the Third Semester M Tech Degree Examination June 2012

| SUBJECTS                              | Credit | Grade Awarded | Marks    |              |     |          |              |     |                 |              |     |
|---------------------------------------|--------|---------------|----------|--------------|-----|----------|--------------|-----|-----------------|--------------|-----|
|                                       |        |               | External |              |     | Internal |              |     | Total           |              |     |
|                                       |        |               | Awarded  | Min for Pass | Max | Awarded  | Min for Pass | Max | Awarded         | Min for Pass | Max |
| FACULTY OF ENGINEERING AND TECHNOLOGY |        |               |          |              |     |          |              |     |                 |              |     |
| M TECH: COMMUNICATION ENGINEERING     |        |               |          |              |     |          |              |     |                 |              |     |
| CE 301: Industrial Training           | 10     | C             | 75       | 40           | 100 | 44       | 25           | 50  | 119             | 75           | 150 |
| TOTAL                                 | 10     |               |          |              |     |          |              |     | 119             | 75           | 150 |
| Grade Point Average -                 |        | 8.00          |          |              |     |          |              |     |                 |              |     |
| *****End of statement*****            |        |               |          |              |     |          |              |     | (One One Nine ) |              |     |

Checked by:

Section Officer:



CONTROLLER OF EXAMINATIONS

# Mahatma Gandhi University

(Established by Kerala State Legislature by Notification No.3431/Leg. CI/85/Law, dated 17th April 1985)

Section: **EJ XXXIV**  
Serial No.: **1387083**

Student ID: **MTAG2010P051094552**



**Kottayam,**

**20-May-2013**

## MEMORANDUM

The following marks were awarded to Shri./Smt **INDU V NAIR**

candidate with Register No. **300377** at the Fourth Semester M Tech Degree Examination February 2013

| SUBJECTS                                     | Credit | Grade/GPA Awarded | Marks    |              |     |          |              |     |                        |              |      |
|--|--------|-------------------|----------|--------------|-----|----------|--------------|-----|------------------------|--------------|------|
|  |        |                   | External |              |     | Internal |              |     | Total                  |              |      |
|  |        |                   | Awarded  | Min for Pass | Max | Awarded  | Min for Pass | Max | Awarded                | Min for Pass | Max  |
| <b>FACULTY OF ENGINEERING AND TECHNOLOGY</b> |        |                   |          |              |     |          |              |     |                        |              |      |
| <b>M TECH: COMMUNICATION ENGINEERING</b>     |        |                   |          |              |     |          |              |     |                        |              |      |
| CE 401: Masters Thesis                       | 20     | B                 | 130      | 60           | 150 | 130      | 75           | 150 | 260                    | 150          | 300  |
| CE 402: Masters Comprehensive Viva           |        | -                 | 78       | 50           | 100 |          |              |     | 78                     | 50           | 100  |
| TOTAL FOR Semester IV                        |        |                   |          |              |     |          |              |     | 338                    | 200          | 400  |
| Semester IV - GPA                            | 20     | 9.00              |          |              |     |          |              |     |                        |              |      |
| TOTAL FOR Semester I                         |        |                   |          |              |     |          |              |     | 804                    | 550          | 1100 |
| Semester I - GPA                             | 25     | 7.76              |          |              |     |          |              |     |                        |              |      |
| TOTAL FOR Semester II                        |        |                   |          |              |     |          |              |     | 776                    | 550          | 1100 |
| Semester II - GPA                            | 25     | 7.72              |          |              |     |          |              |     |                        |              |      |
| TOTAL FOR Semester III                       |        |                   |          |              |     |          |              |     | 119                    | 75           | 150  |
| Semester III - GPA                           | 10     | 8.00              |          |              |     |          |              |     |                        |              |      |
| GRAND TOTAL                                  |        |                   |          |              |     |          |              |     | 2037                   | 1375         | 2750 |
|  |        |                   |          |              |     |          |              |     | (Two Zero Three Seven) |              |      |
| Cumulative Grade Point Average               | 80     | 8.09              |          |              |     |          |              |     |                        |              |      |
| *****End of statement*****                   |        |                   |          |              |     |          |              |     |                        |              |      |

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Section Officer:

*[Signature]*

**CONTROLLER OF EXAMINATIONS**

# UNIVERSITY OF KERALA

Serial No : 09 07 6090  
 Ref. No. EG : 09 36 6090 O



Thiruvananthapuram  
 Date : 27/08/2009

Name of Programme : B.Tech. Electronics & Communication Engineering  
 Semester : 7  
 Month & Year of Exam : Jun 2009  
 Name of Student : **INDU. V. NAIR**

Exam Code : **412 03706**  
 Candidate Code : **05 417 042**

## Statement of Marks

| Subject Code  | Subjects                    | Credits | Marks Awarded                            |    |            |
|---|-----------------------------|---------|--|----|------------|
|   |                             |         | SM                                       | UM | Total      |
| 03701   | VLSI Circuit Design         | 4       | 47                                       | 40 | <b>87</b>  |
| 03702   | Information Theory & Coding | 4       | 45                                       | 62 | <b>107</b> |
|   | Semester - 1 & 2            |         |  |    | <b>7.3</b> |
|   | Semester - 3                |         |  |    | <b>6.5</b> |
|   | Semester - 4                |         |  |    | <b>6.5</b> |
|   | Semester - 5                |         |  |    | <b>7.2</b> |
|   | Semester - 6                |         |  |    | <b>6.7</b> |
|   | Semester - 7                |         |  |    | <b>6.9</b> |
|   | Semester - 8                |         |  |    | <b>7.3</b> |
|  |                             |         |  |    |            |
| Result : <b>Passed</b>  |                             |         | CGPA : <b>7.02</b><br>(Seven * Zero Two) |    |            |

Prepared By : *[Signature]*

Checked By : *[Signature]*

Section Officer : *[Signature]*

*[Signature]*

Controller of Examinations

\* Pass requirements & papers to be cleared if any shown overleaf