

Academic Audit Report
PVP Siddhartha Institute of Technology

General Observations & Suggestions at the Institute Level:

1. Most of the Departments have been continuously applying for projects without much success.
The Institute may take steps such as: conducting training/workshops on how to write good research proposals by inviting eminent researchers.
2. Eminent researchers may be involved in vetting the research proposals before submission.
3. Publishers such as Elsevier / Scopus etc. may be invited to address the faculty on aspects of writing good research papers.
4. Internal audit may be conducted before external academic audit.
5. Credit transfer from NPTEL/MOOCs etc. shall be incorporated into the curriculum.
6. Full/Part waiver of tuition fee may be implemented for meritorious students.
7. Scholarships for students based on merit or economic backwardness may be implemented.

Sig. of Academic Auditor

A.S. Bafu
7/12/18
(A. SARATH BABU)
1. (External)

7/12/18
2. (External) (A. VENUGOPAL)

Sig. of IQAC Coordinator

ACADEMIC AUDIT REPORT FOR THE ACADEMIC YEAR 2017-18

1. Name of the Department: CIVIL ENGINEERING
2. No. of fulltime permanent faculty: 13, with Faculty Cadre Ratio 3:2:8
3. No. of part time Visiting/temporarycontractual faculty: NIL
4. No. of PG/ UG courses: B.Tech.
5. Curriculum Revisions Info: PVP2014 as per OBE and planning to revise in 2019.
6. Research:

Publications:

National &InternationalJr: 16

National Conferences: 7

Ph.D. Thesis

Submitted: 02

Awarded: NIL

Number ofConferences: 4

Seminars / Workshops: 5

FDPs: 4

Guest Lectures Organized: 5

Guiding Ph.Ds: 7

7. Sponsored projects&amount:

Applied: 2

Ongoing: 2

Completed: Nil

8. No. of Department Library Printed Books Added: 103

Web-resources CDsadded: 2

e-BooksAdded: Nil

Journals: 20

NPTEL Videos

9. No. of Faculty using ICT and PPTs: 13

10. New Equipment and Infrastructure added: Equipment worth Rs. 15.75 Lakhs added

- 11 .Student feedback on Curriculum: **Yes**

12.Results Analysis:

I - I

SUBJECT CODE	SUBJECT NAME	TYPE	Registered	PASSED	Pass %
CE1T1	ENGINEERING MATHEMATICS-I	THEORY	59	51	86.44
CE1T2	ENGLISH FOR COMMUNICATION	THEORY	59	59	100
CE1T3	ENGINEERING CHEMISTRY	THEORY	59	40	67.8
CE1T4	ENVIRONMENTAL STUDIES	THEORY	59	56	94.92
CE1T5	ENGINEERING DRAWING	THEORY	59	51	86.44
CE1T6	BASIC MECHANICAL ENGINEERING	THEORY	59	51	86.44
CE1L1	ENGINEERING CHEMISTRY LAB	PRACTICAL	59	59	100
CE1L2	IT WORKSHOP	PRACTICAL	59	59	100
CE1L3	ENGLISH LANGUAGE COMMUNICATION SKILLS LAB	PRACTICAL	59	59	100
Total			59	37	62.71

I - II

SUBJECT CODE	SUBJECT NAME	TYPE	REGISTERED	PASSED	Pass %
CE2T1	ENGINEERING MATHEMATICS - II	THEORY	57	34	59.65
CE2T2	PROFESSIONAL ETHICS	THEORY	57	56	98.25
CE2T3	ENGINEERING PHYSICS	THEORY	57	41	71.93
CE2T4	ENGINEERING MECHANICS	THEORY	57	34	59.65
CE2T5	BASIC ELECTRICAL AND ELECTRONICS ENGINEERING	THEORY	57	49	85.96
CE2T6	C PROGRAMMING	THEORY	57	32	56.14
CE2L1	ENGINEERING PHYSICS LAB	PRACTICAL	57	57	100
CE2L2	ENGINEERING WORKSHOP	PRACTICAL	57	55	96.49
CE2L3	C PROGRAMMING LAB	PRACTICAL	57	57	100
Total			57	24	42.11

II - I

SUBJECT CODE	SUBJECT NAME	TYPE	Registered	PASSED	Pass %
CE3T1	MATHEMATICAL METHODS	THEORY	66	50	75.76
CE3T2	BUILDING MATERIALS AND CONSTRUCTION	THEORY	66	50	75.76
CE3T3	MECHANICS OF SOLIDS-I	THEORY	66	44	66.67
CE3T4	ENGINEERING GEOLOGY	THEORY	66	66	100
CE3T5	SURVEYING	THEORY	66	55	83.33
CE3T6	FLUID MECHANICS	THEORY	66	37	56.06
CE3L1	SURVEYING FIELD WORK	PRACTICAL	66	66	100
CE3L2	ENGINEERING GEOLOGY LAB	PRACTICAL	66	66	100
CE3L3	COMPUTER AIDED DRAWING	PRACTICAL	66	66	100
Total			66	33	50

II - II

SUBJECT CODE	SUBJECT NAME	TYPE	Registered	PASSED	Pass %
CE4T1	CONCRETE TECHNOLOGY	THEORY	65	57	87.69
CE4T2	GEOTECHNICAL ENGINEERING-I	THEORY	65	41	63.08
CE4T3	MECHANICS OF SOLIDS-II	THEORY	65	52	80
CE4T4	HYDRAULICS AND HYDRAULIC MACHINERY	THEORY	65	43	66.15
CE4T5	BUILDING PLANNING AND DRAWING	THEORY	65	64	98.46
CE4T6	STRUCTURAL ANALYSIS-I	THEORY	65	43	66.15
CE4L1	FLUID MECHANICS AND HYDRAULIC MACHINES LAB	PRACTICAL	65	65	100
CE4L2	MATERIAL TESTING LAB	PRACTICAL	65	65	100
CE4L3	ADVANCED SURVEY PRACTICES	PRACTICAL	65	65	100
Total			65	36	55.38

III - I

SUBJECT CODE	SUBJECT NAME	TYPE	Registered	PASSED	Pass %
CE5T1	DESIGN AND DRAWING OF CONCRETE STRUCTURES-I	THEORY	69	64	92.75
CE5T2	ENVIRONMENTAL ENGINEERING-I	THEORY	69	69	100
CE5T3	WATER RESOURCES ENGINEERING-I	THEORY	69	54	78.26
CE5T4	STRUCTURAL ANALYSIS-II	THEORY	69	67	97.1
CE5T5	TRANSPORTATION ENGINEERING-I	THEORY	69	53	76.81
CE5T6	GEOTECHNICAL ENGINEERING-II	THEORY	69	58	84.06
CE5L1	GEOTECHNICAL ENGINEERING LAB	PRACTICAL	69	69	100
CE5L2	CONCRETE TECHNOLOGY LAB	PRACTICAL	69	69	100
Total			69	40	57.97

III-II

SUBJECT CODE	SUBJECT NAME	TYPE	Registered	PASSED	Pass %
CE6T1	DESIGN AND DRAWING OF CONCRETE STRUCTURES-II	THEORY	70	69	98.57
CE6T2	DESIGN AND DRAWING OF STEEL STRUCTURES	THEORY	70	67	95.71
CE6T3	WATER RESOURCES ENGINEERING-II	THEORY	70	64	91.43
CE6T4	ENVIRONMENTAL ENGINEERING-II	THEORY	70	65	92.86
CE6T5	TRANSPORTATION ENGINEERING-II	THEORY	70	68	97.14
CE6T6FE-A	INDUSTRIAL ENGINEERING & ENTREPRENEURSHIP	THEORY	70	66	94.29
CE6L1	TRANSPORTATION ENGINEERING LAB	PRACTICAL	70	70	100
CE6L2	COMPUTER AIDED BUILDING DRAWING	PRACTICAL	70	70	100
Total			70	54	77.14

IV-I

SUBJECT CODE	SUBJECT NAME	TYPE	Registered	PASSED	Pass %
CE7T1	ADVANCED STRUCTURAL ENGINEERING	THEORY	65	65	100
CE7T2	REMOTE SENSING AND GIS APPLICATIONS	THEORY	65	65	100
CE7T3	ESTIMATION AND COSTING	THEORY	65	65	100
CE7T4C	TRAFFIC ENGINEERING	THEORY	43	43	100
CE7T4E	DESIGN AND DRAWING OF HYDRAULIC STRUCTURES	THEORY	22	22	100
CE7T5D	SOLID WASTE MANAGEMENT	THEORY	65	65	100
CE7L1	CCAD AND GIS LAB	PRACTICAL	65	65	100
CE7L2	ENVIRONMENTAL ENGINEERING LAB	PRACTICAL	65	65	100
CE7L3	INDUSTRIAL TRAINING / MINI PROJECT	PRACTICAL	65	65	100
Total			65	65	100

IV-II

SUBJECT CODE	SUBJECT NAME	TYPE	Registered	PASSED	Pass %
CE8T1	CONSTRUCTION TECHNOLOGY AND PROJECT MANAGEMENT	THEORY	66	66	100
CE8T2	ENGINEERING ECONOMICS AND PROJECT APPRAISAL	THEORY	66	66	100
CE8T3B	ENVIRONMENTAL IMPACT ASSESSMENT	THEORY	66	66	100
CE8T4C	WATERSHED MANAGEMENT	THEORY	66	66	100
CE8PW	PROJECT WORK	PRACTICAL	66	66	100
Total			66	66	100

13. Strengths:

1. Good quality of publications: 9 out of 16 are published in Scopus indexed journals.
2. Department identifies slow learners and follow them regularly from 2nd year onwards, which is evident from the continuous improvement in performance.
3. Excellent Student Faculty Ratio of 1:15
4. Good infrastructure and well equipped laboratories with latest software tools
5. Students are encouraged to register for NPTEL courses by providing 50% financial support towards Registration and exam fee.

14. Weaknesses:

1. Faculty qualifications need to be improved.
2. Consultancy is limited to routine testing.
3. Input quality of students is poor.
4. Poor placement record with practically no placement in Core companies.

15. Suggestions for improvement:

1. Encourage faculty to pursue PhD under various schemes in Higher Level Technical Institutions.
2. One/Two week orientation classes shall be conducted immediately after the first year.
3. Scholarships based on Merit or Economic Backwardness may be considered.
4. MOUs with industry/higher level institutions shall be encouraged.

Name and Designation of the External Evaluator 1: Dr. A Sarat Babu,
Professor, NIT WARANGAL

Name and Designation of the External Evaluator 2 : Dr. A Venu Gopal,
Professor, NIT WARANGAL


Sig. of Departmental Coordinator


Sig. of Academic Auditor 1. (External)


2. (External)


Sig. of HOD


Sig. of IQAC Coordinator

ACADEMIC AUDIT REPORT FOR THE ACADEMIC YEAR 2017-18

1. Name of the Department: COMPUTER SCIENCE &ENGINEERING
2. No. of fulltime permanent faculty: 35
(Student Teacher Ratio: 13.41 and Faculty Cadre ratio 5:3:27)
3. No. of part time Visiting/temporarycontractual faculty: NIL
4. No. of PG/ UG courses: 1-B.Tech &1-M.Tech
5. Curriculum Revisions Info: PVP2014 as per OBE and planning to revise in 2019.
6. Research:
 - Publications:
 - National & International Jr:35
 - International Conferences: 12
 - National Conferences:NIL
 - Ph.D. Thesis
 - Submitted: 1
 - Awarded: 1
 - Registered : 12
 - Guiding: 7
 - Number ofConferences: Nil
 - National Workshops: 1
 - Seminars: Nil
 - Guest Lectures Organized: 2
 - Guiding Ph.Ds :8
7. Sponsored projects&amount:
 - Applied: 9
 - Ongoing: 1
 - Completed: 1
 - Patents filed: 5
8. No. of Department Library Printed Books:766
 - Web-resources CDs :83
- e-Books added: Nil
 - Journals: 7
 - NPTEL Videos: 22
9. No. of Faculty using ICT and PPTs: 35
10. New Equipment and Infrastructure added: Nil
- 11 .Student feedback on Curriculum: **Yes**

12.Results Analysis:

I - I

SUBJECT CODE	SUBJECT NAME	TYPE	Registered	PASSED	Pass %
CS1T1	ENGINEERING MATHEMATICS-I	THEORY	119	117	98.31
CS1T2	ENGLISH FOR COMMUNICATION	THEORY	119	119	100
CS1T3	ENGINEERING CHEMISTRY	THEORY	119	118	99.16
CS1T4	ENVIRONMENTAL STUDIES	THEORY	119	118	99.16
CS1T5	BASIC ELECTRICAL ENGINEERING	THEORY	119	110	92.43
CS1T6	INTRODUCTION TO COMPUTERS	THEORY	119	113	94.96
CS1L1	ENGLISH LANGUAGE COMMUNICATION SKILLS LAB	PRACTICAL	119	119	100
CS1L2	IT WORKSHOP	PRACTICAL	119	119	100
CS1L3	ENGINEERING GRAPHICS LAB	PRACTICAL	119	118	99.16
Total			119	108	90.75

I - II

SUBJECT CODE	SUBJECT NAME	TYPE	REGISTERED	PASSED	Pass %
CS2T1	ENGINEERING MATHEMATICS-II	THEORY	118	102	86.44
CS2T2	PROFESSIONAL ETHICS	THEORY	118	118	100
CS2T3	ENGINEERING PHYSICS	THEORY	118	109	92.37
CS2T4	DIGITAL LOGIC DESIGN	THEORY	118	107	90.68
CS2T5	BASIC ELECTRONICS ENGINEERING	THEORY	118	107	90.68
CS2T6	C PROGRAMMING	THEORY	118	112	94.92
CS2L1	ENGINEERING PHYSICS AND CHEMISTRY LAB	PRACTICAL	118	118	100
CS2L2	BASIC ELECTRONICS ENGINEERING LAB	PRACTICAL	118	118	100
CS2L3	C PROGRAMMING LAB	PRACTICAL	118	118	100
Total			118	95	80.51

II - I

SUBJECT CODE	SUBJECT NAME	TYPE	Registered	PASSED	Pass %
CS3T1	DISCRETE MATHEMATICS	THEORY	131	127	96.95
CS3T2	DATA STRUCTURES	THEORY	131	130	99.24
CS3T3	PROGRAM DESIGN	THEORY	131	119	90.84
CS3T4	FORMAL LANGUAGES AND AUTOMATA THEORY	THEORY	131	122	93.13
CS3T5	OBJECT ORIENTED PROGRAMMING THROUGH JAVA	THEORY	131	127	96.95
CS3L1	DATA STRUCTURES LAB	PRACTICAL	131	131	100
CS3L2	ADVANCED C PROGRAMMING LAB	PRACTICAL	131	131	100
CS3L3	JAVA LAB	PRACTICAL	131	131	100
CS3L4	TECHNICAL ENGLISH	PRACTICAL	131	131	100
Total			131	115	87.79

II - II

SUBJECT CODE	SUBJECT NAME	TYPE	Registered	PASSED	Pass %
CS4T1	COMPILER DESIGN	THEORY	133	129	96.99
CS4T2	DESIGN AND ANALYSIS OF ALGORITHMS	THEORY	133	130	97.74
CS4T3	FILE STRUCTURES	THEORY	133	129	96.99
CS4T4	PRINCIPLES OF PROGRAMMING LANGUAGES	THEORY	133	126	94.74
CS4T5	COMPUTER ORGANIZATION	THEORY	133	129	96.99
CS4L1	COMPILER DESIGN LAB	PRACTICAL	133	133	100
CS4L2	FILE STRUCTURES LAB	PRACTICAL	133	133	100
CS4L3	COMPUTER ORGANIZATION LAB	PRACTICAL	133	133	100
CS4L4	PERSONALITY DEVELOPMENT COURSE	PRACTICAL	133	133	100
Total			133	121	90.98

III - I

SUBJECT CODE	SUBJECT NAME	TYPE	Registered	PASSED	Pass %
CS5T1	DATABASE MANAGEMENT SYSTEMS	THEORY	137	135	98.54
CS5T2	MICROPROCESSOR AND INTERFACING	THEORY	137	131	95.62
CS5T3	COMPUTER NETWORKS	THEORY	137	135	98.54
CS5T4	SOFT COMPUTING	THEORY	137	132	96.35
CS5T5	OPERATING SYSTEMS	THEORY	137	136	99.27
CS5L1	DATABASE MANAGEMENT SYSTEMS LAB	PRACTICAL	137	137	100
CS5L2	MICROPROCESSORS LAB	PRACTICAL	137	137	100
CS5L3	COMPUTER NETWORKS AND OPERATING SYSTEMS LAB	PRACTICAL	137	137	100
CS5L4	FREE OPEN SOURCE SOFTWARE TOOLS	PRACTICAL	137	137	100
Total			137	126	91.97

III-II

SUBJECT CODE	SUBJECT NAME	TYPE	Registered	PASSED	Pass %
CS6T1	ADVANCED JAVA AND WEB TECHNOLOGIES	THEORY	137	137	100
CS6T2	DESIGN PATTERNS	THEORY	137	137	100
CS6T3	COMPUTER GRAPHICS	THEORY	137	133	97.08
CS6T4	DATA WAREHOUSING AND DATA MINING	THEORY	137	135	98.54
CS6T5FE-A	AIR POLLUTION AND CONTROL	THEORY	93	93	100
CS6T5FE-C	INTRODUCTION TO MATLAB	THEORY	44	42	95.45
CS6L1	ADVANCED JAVA AND WEB TECHNOLOGIES LAB	PRACTICAL	137	137	100
CS6L2	UML AND DESIGN PATTERNS LAB	PRACTICAL	137	137	100
CS6L3	COMPUTER GRAPHICS LAB	PRACTICAL	137	137	100
CS6L4	SOFT SKILLS COURSE	PRACTICAL	137	137	100
CS6L5	SEMINAR	PRACTICAL	137	137	100
Total			137	130	94.89

IV-I

SUBJECT CODE	SUBJECT NAME	TYPE	Registered	PASSED	Pass %
CS7T1	BIG DATA CONCEPTS	THEORY	144	139	96.53
CS7T2	MOBILE APPLICATION DEVELOPMENT	THEORY	144	141	97.92
CS7T3	INFORMATION SECURITY	THEORY	144	144	100
CS7T4B	ADVANCED DATABASES	THEORY	75	64	85.33
CS7T4D	ADVANCED COMPUTER ARCHITECTURE	THEORY	69	65	94.2
CS7T5A	SOFTWARE ENGINEERING	THEORY	144	144	100
CS7L1	DATA ANALYTICS LAB	PRACTICAL	144	144	100
CS7L2	MOBILE APPLICATION DEVELOPMENT LAB	PRACTICAL	144	144	100
CS7L3	INFORMATION SECURITY LAB	PRACTICAL	144	144	100
CS7L4	MINI PROJECT	PRACTICAL	144	144	100
CS7L5	SEMINAR	PRACTICAL	144	144	100
Total			144	126	87.5

IV-II

SUBJECT CODE	SUBJECT NAME	TYPE	Registered	PASSED	Pass %
CS8T1	MANAGERIAL ECONOMICS & FINANCIAL ANALYSIS	THEORY	144	144	100
CS8T2A	E - COMMERCE	THEORY	98	98	100
CS8T2D	SCRIPTING LANGUAGES	THEORY	46	46	100
CS8T3A	HUMAN COMPUTER INTERACTION	THEORY	104	104	100
CS8T3B	TCP/IP	THEORY	40	40	100
CS8PW	PROJECT WORK	PRACTICAL	144	144	100
Total			144	144	100

13. Strengths:

1. Success rate and academic performance are good.
 2. Student Teacher Ratio and Faculty cadre ratio and retention of faculty are good.
 3. Good infrastructural facilities with High performance computing facility are available.
 4. Faculty experience and retention is very good.
- Tutorial classes in every subject with a faculty/student ratio of 1: 30 is in practice
5. Improvement in the number of MOUs with industries
 6. Student internships have been increased substantially.

14. Weaknesses:

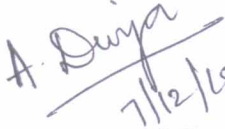
1. Participation of students in various technical platforms need improvement.
2. Faculty qualifications need to be improved.
3. Though number of publications is good, quality needs to be improved.
4. Funded research projects and consultancy need substantial improvement.

15. Suggestions for improvement:

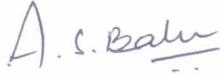
1. Industry attached laboratories, lectures by industry experts as part I partial delivery of courses and student internships are not available.
2. Self-learning need to be promoted among high achievers.
3. Multi-nationals offering higher salary packages shall be invited for placement activity .


Name and Designation of the External Evaluator 1: Dr. A Sarat Babu,
Professor, NIT WARANGAL

Name and Designation of the External Evaluator 2 : Dr. A Venu Gopal,
Professor, NIT WARANGAL


7/12/18
Sig. of Departmental Coordinator


7/12/18
Sig. of HOD


Sig. of Academic Auditor 1. (External)


2. (External)


Sig. of IQAC Coordinator

ACADEMIC AUDIT REPORT FOR THE ACADEMIC YEAR 2017-18

1. Name of the Department: ELECTRONICS & COMMUNICATIONENGINEERING
2. No. of fulltime permanent faculty: 30
3. No. of part time Visiting/temporarycontractual faculty: NIL
4. No. of PG/ UG courses: B.Tech &M.Tech
5. Curriculum Revisions Info: PVP2014 as per OBE and planning to revise in 2019.
6. Research:

Publications:

Journals :UGC: 4; Scopus Indexed: 4

International Conferences: 8

National Conferences:0

Ph.D. Thesis

Submitted: 1

Registered : 15

Awarded:

Guiding: 7

Number ofConferences: 1

National Workshops: 4

FDPs: 5

Seminars :14

Guest Lectures: 15

Guiding Ph.Ds : 5

7. Sponsored projects&amount:

Applied: 4(Rs. 60.19 Lakhs)

Ongoing: 4 (Rs. 13.10 Lakhs)

Completed: 1 (Rs. 8.75 Lakhs)

Patents Awarded: 1

8. No. of Department Library Printed Books Added: Nil

Web-resources CDs added :Nil

e-Books added: Nil

Journals: Nil

9. No. of Faculty using ICT and PPTs: 30

10. New Equipment and Infrastructure added: Equipment worth Rs. 6.20 Lakhs

- 11 .Student feedback on Curriculum: **Yes**

12.Results Analysis:

I - I

SUBJECT CODE	SUBJECT NAME	TYPE	Registered	PASSED	Pass %
EC1T1	ENGINEERING MATHEMATICS-I	THEORY	120	114	95
EC1T2	ENGLISH FOR COMMUNICATION	THEORY	120	120	100
EC1T3	ENGINEERING PHYSICS	THEORY	120	113	94.17
EC1T4	ENGINEERING CHEMISTRY	THEORY	120	118	98.33
EC1T5	C PROGRAMMING	THEORY	120	105	87.5
EC1T6	INTRODUCTION TO ELECTRICAL CIRCUITS	THEORY	120	111	92.5
EC1L1	ENGLISH LANGUAGE COMMUNICATION SKILLS LAB	PRACTICAL	120	120	100
EC1L2	ENGINEERING PHYSICS AND CHEMISTRY LAB	PRACTICAL	120	120	100
EC1L3	C PROGRAMMING LAB	PRACTICAL	120	120	100
Total			120	101	84.17

I - II

SUBJECT CODE	SUBJECT NAME	TYPE	REGISTERED	PASSED	Pass %
EC2T1	ENGINEERING MATHEMATICS-II	THEORY	118	105	88.98
EC2T2	PROFESSIONAL ETHICS	THEORY	118	117	99.15
EC2T3	ELEMENTS OF MECHANICAL ENGINEERING	THEORY	118	113	95.76
EC2T4	ENVIRONMENTAL STUDIES	THEORY	118	113	95.76
EC2T5	ELECTRONIC DEVICES AND CIRCUITS	THEORY	118	105	88.98
EC2T6	ENGINEERING DRAWING	THEORY	118	98	83.05
EC2L1	IT WORKSHOP	PRACTICAL	118	118	100
EC2L2	ELECTRONIC DEVICES AND CIRCUITS LAB	PRACTICAL	118	117	99.15
EC2L3	ENGINEERING WORKSHOP	PRACTICAL	118	118	100
Total			118	88	74.58

II - I

SUBJECT CODE	SUBJECT NAME	TYPE	Registered	PASSED	Pass %
EC3T1	ENGINEERING MATHEMATICS-III	THEORY	147	121	82.31
EC3T2	PROBABILITY THEORY AND STOCHASTIC PROCESS	THEORY	147	128	87.07
EC3T3	SIGNALS AND SYSTEMS	THEORY	147	117	79.59
EC3T4	NETWORK ANALYSIS AND SYNTHESIS	THEORY	147	126	85.71
EC3T5	ELECTRICAL TECHNOLOGY	THEORY	147	119	80.95
EC3T6	SWITCHING THEORY AND LOGIC DESIGN	THEORY	147	109	74.15
EC3L1	BASIC SIMULATION LAB	PRACTICAL	147	146	99.32
EC3L2	NETWORKS AND ELECTRICAL TECHNOLOGY LAB	PRACTICAL	147	146	99.32
Total			147	89	60.54

II - II

SUBJECT CODE	SUBJECT NAME	TYPE	Registered	PASSED	Pass %
EC4T1	CONTROL SYSTEMS	THEORY	142	134	94.37
EC4T2	PULSE AND DIGITAL CIRCUITS	THEORY	142	136	95.77
EC4T3	ANALOG ELECTRONIC CIRCUITS	THEORY	142	103	72.54
EC4T4	ELECTRO MAGNETIC FIELDS AND WAVES	THEORY	142	112	78.87
EC4T5	ANALOG COMMUNICATIONS	THEORY	142	135	95.07
EC4L1	ANALOG COMMUNICATIONS LAB	PRACTICAL	142	140	98.59
EC4L2	ANALOG ELECTRONIC CIRCUITS LAB	PRACTICAL	142	141	99.3
EC4L3	PULSE AND DIGITAL CIRCUITS LAB	PRACTICAL	142	140	98.59
Total			142	94	66.2

III - I

SUBJECT CODE	SUBJECT NAME	TYPE	Registered	PASSED	Pass %
EC5T1	LINEAR INTEGRATED CIRCUITS	THEORY	129	124	96.12
EC5T2	TRANSMISSION LINES AND WAVE GUIDES	THEORY	129	107	82.95
EC5T3	COMPUTER ARCHITECTURE AND ORGANIZATION	THEORY	129	123	95.35
EC5T4	ANTENNA AND WAVE PROPAGATION	THEORY	129	114	88.37
EC5T5	DIGITAL IC APPLICATIONS	THEORY	129	113	87.6
EC5T6	DIGITAL SIGNAL PROCESSING	THEORY	129	112	86.82
EC5L1	LINEAR IC APPLICATIONS LAB	PRACTICAL	129	129	100
EC5L2	DIGITAL IC APPLICATIONS LAB	PRACTICAL	129	128	99.22
EC5L3	SEMINAR	PRACTICAL	129	129	100
Total			129	96	74.42

III-II

SUBJECT CODE	SUBJECT NAME	TYPE	Registered	PASSED	Pass %
EC6T1	VLSI DESIGN	THEORY	129	128	99.22
EC6T2	MICROPROCESSORS AND MICROCONTROLLERS	THEORY	129	127	98.45
EC6T3	MICROWAVE ENGINEERING	THEORY	129	116	89.92
EC6T4	DIGITAL COMMUNICATIONS	THEORY	129	119	92.25
EC6T5	COMPUTER NETWORKS	THEORY	129	129	100
EC6T6FE-B	AIR POLLUTION AND CONTROL	THEORY	65	65	100
EC6T6FE-F	ROBOTICS	THEORY	33	32	96.97
EC6T6FE-G	DATABASE MANAGEMENT SYSTEMS	THEORY	31	31	100
EC6L1	DIGITAL COMMUNICATIONS LAB	PRACTICAL	129	129	100
EC6L2	MICROPROCESSORS AND MICROCONTROLLERS LAB	PRACTICAL	129	129	100
EC6L3	OOPS LAB	PRACTICAL	129	129	100
Total			129	111	86.05

IV-I

SUBJECT CODE	SUBJECT NAME	TYPE	Registered	PASSED	Pass %
EC7T1	OPTICAL COMMUNICATIONS	THEORY	138	137	99.28
EC7T2	DIGITAL IMAGE PROCESSING	THEORY	138	133	96.38
EC7T3	CELLULAR AND MOBILE COMMUNICATIONS	THEORY	138	138	100
EC7T4D	BIO - MEDICAL INSTRUMENTATION	THEORY	138	125	90.58
EC7T5C	RADAR SYSTEMS	THEORY	138	135	97.83
EC7T6	MANAGERIAL ECONOMICS AND FINANCIAL ANALYSIS	THEORY	138	138	100
EC7L1	MICROWAVE ENGINEERING AND OPTICAL COMMUNICATIONS LAB	PRACTICAL	138	137	99.28
EC7L2	DIGITAL SIGNAL PROCESSING LAB	PRACTICAL	138	138	100
EC7L3	MINI PROJECT	PRACTICAL	138	138	100
Total			138	120	86.96

IV-II

SUBJECT CODE	SUBJECT NAME	TYPE	Registered	PASSED	Pass %
EC8T1	TV AND SATELLITE COMMUNICATIONS	THEORY	138	138	100
EC8T2C	ELECTRONIC MEASUREMENTS & INSTRUMENTATION	THEORY	41	41	100
EC8T2D	GLOBAL POSITIONING SYSTEM	THEORY	97	97	100
EC8T3B	INDUSTRIAL MANAGEMENT & ENTREPRENEURSHIP	THEORY	127	127	100
EC8T3C	MANAGEMENT SCIENCE	THEORY	11	11	100
EC8PW	PROJECT WORK	PRACTICAL	138	138	100
Total			138	138	100

13. Strengths:

1. Good Student Teacher Ratio of 1:18 with a faculty cadre ratio of 3:7:20
2. Most of the faculty have registered for PhD.
3. Number of student activities through IETE and ISTE on a regular basis.
4. Good placement (88%) and higher studies (10%) record.
5. MOU with NI Systems (P) Ltd. for training and Placement.
6. Students are encouraged to participate in NPTEL and CLAD.

14. Weaknesses:

1. Faculty qualifications need to be improved.
2. Research output by way of quality publications needs to be improved.
3. Consultancy does not exist.
4. Admission to M.Tech. program is on a lower level.

15. Suggestions for improvement:

1. Encourage faculty to pursue PhD under various schemes in Higher Level Technical Institutions.
2. Consultancy with Industries nearby may be explored.
3. Credit transfer from NPTEL, MOOCs etc. may be given due consideration in the curriculum.

Name and Designation of the External Evaluator 1: Dr. A Sarat Babu,
Professor, NIT WARANGAL

Name and Designation of the External Evaluator 2 : Dr. A Venu Gopal,
Professor, NIT WARANGAL


Sig. of Departmental Coordinator


Sig. of Academic Auditor 1. (External)


2. (External)


Sig. of HOD


Sig. of IQAC Coordinator

ACADEMIC AUDIT REPORT FOR THE ACADEMIC YEAR 2017-18

1. Name of the Department: ELECTRICAL & ELECTRONICS ENGINEERING
2. No. of fulltime permanent faculty: 31 (3Prof. + 5 Assoc. Prof. + 23 Asst. Prof.)
3. No. of part time Visiting/temporarycontractual faculty: NIL
4. No. of PG/ UG courses: 1-B.Tech & 1-M.Tech
5. Curriculum Revisions Info: PVP2014 as per OBE and planning to revise in 2019.
6. Research:

Publications:

National &InternationalJr: 94 (Scopus Indexed-10, UGC-27)
International Conferences: 7 (IEEE) National Conferences:0

Ph.D. Thesis

Submitted: 02
Awarded: 01
Number ofConferences: Nil
National Workshops: 1
Seminars :5
FDPs: 1
Guest Lectures Organized: 5
Guiding Ph.Ds: 7

7. Sponsored projects&amount:

Applied: 7
Ongoing: Nil
Completed: 1

8. No. of Department Library Printed Books: 326

Journals : 9
e-journals: 5
NPTEL Videos:44

9. No. of Faculty using ICT and PPTs: 32

10. New Equipment and Infrastructure added: Equipment worth Rs. 16.04 Lakhs added

- 11 .Student feedback on Curriculum: **Yes**

12.Results Analysis:

I - I

SUBJECT CODE	SUBJECT NAME	TYPE	Registered	PASSED	Pass %
EE1T1.	ENGINEERING MATHEMATICS-I	THEORY	119	99	83.19
EE1T2	ENGLISH FOR COMMUNICATION	THEORY	119	119	100
EE1T3	ENGINEERING PHYSICS	THEORY	119	108	90.76
EE1T4	ENVIRONMENTAL STUDIES	THEORY	119	116	97.48
EE1T5	ELECTRICAL ENGINEERING MATERIALS	THEORY	119	107	89.92
EE1T6	INTRODUCTION TO ELECTRICAL ENGINEERING	THEORY	119	110	92.44
EE1L1	ENGLISH LANGUAGE COMMUNICATION SKILLS LAB	PRACTICAL	119	119	100
EE1L2	ENGINEERING WORKSHOP	PRACTICAL	119	119	100
EE1L3	ENGINEERING GRAPHICS LAB	PRACTICAL	119	119	100
Total			119	93	78.15

I - II

SUBJECT CODE	SUBJECT NAME	TYPE	REGISTERED	PASSED	Pass %
EE2T1	ENGINEERING MATHEMATICS-II	THEORY	118	84	71.19
EE2T2	PROFESSIONAL ETHICS	THEORY	118	115	97.46
EE2T3	ENGINEERING CHEMISTRY	THEORY	118	108	91.53
EE2T4	BASIC ELECTRONIC DEVICES AND CIRCUITS	THEORY	118	78	66.1
EE2T5	ELECTRICAL CIRCUIT ANALYSIS-I	THEORY	118	86	72.88
EE2T6	C PROGRAMMING	THEORY	118	99	83.9
EE2L1	ENGINEERING PHYSICS AND CHEMISTRY LAB	PRACTICAL	118	118	100
EE2L2	ADVANCED ENGLISH COMMUNICATION SKILLS LAB	PRACTICAL	118	118	100
EE2L3	C PROGRAMMING LAB	PRACTICAL	118	118	100
Total			118	63	53.39

II - I

SUBJECT CODE	SUBJECT NAME	TYPE	Registered	PASSED	Pass %
EE3T1	NUMERICAL METHODS AND DIFFERENTIAL EQUATIONS	THEORY	135	118	87.41
EE3T2	ELECTRICAL MACHINES-I	THEORY	135	116	85.93
EE3T3	THERMAL AND HYDRO PRIME MOVERS	THEORY	135	119	88.15
EE3T4	ELECTRICAL CIRCUIT ANALYSIS-II	THEORY	135	119	88.15
EE3T5	ELECTROMAGNETIC FIELDS	THEORY	135	104	77.04
EE3T6	SWITCHING THEORY AND LOGIC DESIGN	THEORY	135	112	82.96
EE3L1	ELECTRICAL CIRCUITS LAB	PRACTICAL	135	127	94.07
EE3L2	EDC LAB	PRACTICAL	135	131	97.04
Total			135	90	66.67

II - II

SUBJECT CODE	SUBJECT NAME	TYPE	Registered	PASSED	Pass %
EE4T1	COMPLEX VARIABLES & SPECIAL FUNCTIONS	THEORY	135	84	62.22
EE4T2	ELECTRICAL MACHINES-II	THEORY	135	117	86.67
EE4T3	ELECTRICAL POWER GENERATION	THEORY	135	126	93.33
EE4T4	ELECTRICAL MEASUREMENTS AND INSTRUMENTATION	THEORY	135	113	83.7
EE4T5	CONTROL SYSTEMS	THEORY	135	109	80.74
EE4T6	PULSE AND DIGITAL CIRCUITS	THEORY	135	107	79.26
EE4L1	ELECTRICAL MACHINES LAB-I	PRACTICAL	135	132	97.78
EE4L2	ELECTRICAL MEASUREMENTS LAB	PRACTICAL	135	134	99.26
Total			135	75	55.56

III - I

SUBJECT CODE	SUBJECT NAME	TYPE	Registered	PASSED	Pass %
EE5T1	INDUSTRIAL ORGANIZATION AND ENGINEERING ECONOMICS	THEORY	128	127	99.22
EE5T2	ELECTRICAL MACHINES-III	THEORY	128	126	98.44
EE5T3	UTILIZATION OF ELECTRICAL ENERGY	THEORY	128	124	96.88
EE5T4	POWER ELECTRONICS	THEORY	128	118	92.18
EE5T5	TRANSMISSION AND DISTRIBUTION	THEORY	128	121	94.53
EE5T6	LINEAR AND DIGITAL INTEGRATED CIRCUIT APPLICATIONS	THEORY	128	124	96.88
EE5L1	ELECTRICAL MACHINES LAB-II	PRACTICAL	128	128	100
EE5L2	LDIC LAB	PRACTICAL	128	128	100
EE5L3	CONTROL SYSTEMS LAB	PRACTICAL	128	128	100
Total			128	112	87.5

III-II

SUBJECT CODE	SUBJECT NAME	TYPE	Registered	PASSED	Pass %
EE6T1	DIGITAL SIGNAL PROCESSING	THEORY	129	124	96.12
EE6T2	ELECTRICAL MACHINE DESIGN	THEORY	129	121	93.8
EE6T3	MICROCONTROLLERS AND APPLICATIONS	THEORY	129	124	96.12
EE6T4	POWER SEMICONDUCTOR DRIVES	THEORY	129	120	93.02
EE6T5	POWER SYSTEM ANALYSIS	THEORY	129	124	96.12
EE6T6FE-A	AIR POLLUTION AND CONTROL	THEORY	60	59	98.33
EE6T6FE-D	OPERATING SYSTEMS	THEORY	19	19	100
EE6T6FE-E	INTRODUCTION TO MATLAB	THEORY	41	41	100
EE6T6FE-F	ROBOTICS	THEORY	8	7	87.5
EE6T6FE-G	DATABASE MANAGEMENT SYSTEMS	THEORY	1	1	100
EE6L1	ELECTRICAL MACHINES LAB-III	PRACTICAL	129	129	100
EE6L2	POWER ELECTRONICS AND DRIVES LAB	PRACTICAL	129	129	100
Total Pass Percentage			129	113	87.6

IV-I

SUBJECT CODE	SUBJECT NAME	TYPE	Registered	PASSED	Pass %
EE7T1	POWER SYSTEM OPERATION AND CONTROL	THEORY	138	130	94.20
EE7T2	HVDC TRANSMISSION	THEORY	138	135	97.83
EE7T3	SWITCHGEAR PROTECTION & CARRIER COMMUNICATION	THEORY	138	137	99.28
EE7T4	FLEXIBLE AC TRANSMISSION SYSTEMS	THEORY	138	132	95.65
EE7T5A	COMPUTER METHODS IN POWER SYSTEMS	THEORY	82	70	85.37
EE7T5C	DATABASE MANAGEMENT SYSTEMS	THEORY	56	51	91.07
EE7T6A	ELECTRICAL DISTRIBUTION SYSTEMS	THEORY	138	138	100
EE7L1	MICROCONTROLLERS LAB	PRACTICAL	138	138	100
EE7L2	ELECTRICAL POWER SYSTEMS LAB	PRACTICAL	138	138	100
EE7L3	ELECTRICAL SIMULATION LAB	PRACTICAL	138	138	100
Total Pass Percentage			138	116	84.06

IV-II

SUBJECT CODE	SUBJECT NAME	TYPE	Registered	PASSED	Pass %
EE8T1	RENEWABLE SOURCES OF ENERGY	THEORY	139	139	100
EE8T2C	SMART GRID	THEORY	139	135	97.12
EE8T3B	REAL TIME CONTROL OF POWER SYSTEMS	THEORY	139	139	100
EE8PW	PROJECT WORK	PRACTICAL	139	139	100
Total Pass Percentage			139	135	97.12

13. Strengths/Good Practices:

1. Very large number of publications with reasonable quality
2. Student Success index and faculty qualification index are good.
3. Well-equipped computational laboratory with latest software.

14. Weaknesses:

1. Faculty qualifications need to be improved.
2. External funded research and Consultancy need to be improved
3. Most of the placements are in IT sector only.
4. IPR, R&D and Consultancy activities are missing.

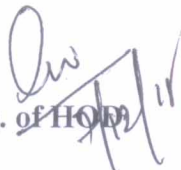
15. Suggestions for improvement:


1. Based on the strength of the Department, advised to conduct FDP/Workshops/Conferences etc. to have more visibility.
2. Improvement required with respect to consultancy.
3. Efforts shall be made to invite core industries for campus placements.


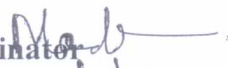
Name and Designation of the External Evaluator 1: Dr. A Sarat Babu,
Professor, NIT WARANGAL

Name and Designation of the External Evaluator 2 : Dr. A Venu Gopal,
Professor, NIT WARANGAL


7/12/18
Sig. of Departmental Coordinator


7/12/18
Sig. of HOD


Sig. of Academic Auditor 1. (External)


2. (External)

7/12/18
Sig. of IQAC Coordinator

ACADEMIC AUDIT REPORT FOR THE ACADEMIC YEAR 2017-18

1. Name of the Department: INFORMATION TECHNOLOGY
2. No. of fulltime permanent faculty: 23 (3 Prof. + 1 Assoc. Prof. + 19 Asst. Prof.)
3. No. of part time Visiting/temporarycontractual faculty: NIL
4. No. of PG/ UG courses: 1-B.Tech
5. Curriculum Revisions Info: PVP2014 as per OBE and planning to revise in 2019.
6. Research:

Publications:

National & International Jr:31

International Conferences: 5

National Conferences:NIL

Ph.D. Thesis

Submitted: 2

Awarded: 1

Number ofConferences: Nil

National Workshops: Nil

Seminars: Nil

Guest Lectures Organized: 5

Guiding Ph.Ds :3

7. Sponsored projects&amount:

Applied: 6

Ongoing: 3(Rs. 1.15 Lakhs)

Completed: Nil

8. No. of Department Library Printed Books:126

Web-resources CDs : Nil

e-Books added: Nil

Journals: Nil

NPTEL Videos

9. No. of Faculty using ICT and PPTs: 17

10. New Equipment and Infrastructure added: 6 Core i5 computers

- 11 .Student feedback on Curriculum: Yes

12.Results Analysis:

I - I

SUBJECT CODE	SUBJECT NAME	TYPE	Registered	PASSED	Pass %
IT1T1	ENGINEERING MATHEMATICS-I	THEORY	118	109	92.37
IT1T2	ENGLISH FOR COMMUNICATION	THEORY	118	118	100
IT1T3	ENGINEERING CHEMISTRY	THEORY	118	112	94.92
IT1T4	DISCRETE MATHEMATICS	THEORY	118	114	96.61
IT1T5	BASIC ELECTRICAL ENGINEERING	THEORY	118	99	83.9
IT1T6	INTRODUCTION TO INFORMATION TECHNOLOGY	THEORY	118	117	99.15
IT1L1	ENGLISH LANGUAGE COMMUNICATION SKILLS LAB	PRACTICAL	118	118	100
IT1L2	IT WORKSHOP	PRACTICAL	118	118	100
IT1L3	ENGINEERING GRAPHICS LAB	PRACTICAL	118	117	99.15
Total			118	97	82.2

I - II

SUBJECT CODE	SUBJECT NAME	TYPE	REGISTERED	PASSED	Pass %
IT2T1	ENGINEERING MATHEMATICS - II	THEORY	115	104	90.43
IT2T2	PROFESSIONAL ETHICS	THEORY	115	115	100
IT2T3	ENGINEERING PHYSICS	THEORY	115	108	93.91
IT2T4	ENVIRONMENTAL STUDIES	THEORY	115	115	100
IT2T5	BASIC ELECTRONICS ENGINEERING	THEORY	115	109	94.78
IT2T6	C PROGRAMMING	THEORY	115	107	93.04
IT2L1	ENGINEERING PHYSICS AND CHEMISTRY LAB	PRACTICAL	115	115	100
IT2L2	BASIC ELECTRONICS ENGINEERING LAB	PRACTICAL	115	115	100
IT2L3	C PROGRAMMING LAB	PRACTICAL	115	115	100
Total			115	93	80.87

II - I

SUBJECT CODE	SUBJECT NAME	TYPE	Registered	PASSED	Pass %
IT3T1	DIGITAL SYSTEM DESIGN	THEORY	112	110	98.21
IT3T2	CLASSIC DATA STRUCTURES	THEORY	112	109	97.32
IT3T3	PROBABILITY AND STATISTICS	THEORY	112	107	95.54
IT3T4	OOPS THROUGH C++	THEORY	112	107	95.54
IT3T5	OPERATING SYSTEMS CONCEPTS	THEORY	112	106	94.64
IT3L1	CLASSIC DATA STRUCTURES LAB	PRACTICAL	112	112	100
IT3L2	OOPS THROUGH C++ LAB	PRACTICAL	112	112	100
IT3L3	DIGITAL SYSTEM DESIGN LAB	PRACTICAL	112	112	100
IT3L4	TECHNICAL ENGLISH	PRACTICAL	112	112	100
Total			112	99	88.39

II - II

SUBJECT CODE	SUBJECT NAME	TYPE	Registered	PASSED	Pass %
IT4T1	ADVANCED DATA STRUCTURES	THEORY	112	109	97.32
IT4T2	DATABASE SYSTEMS	THEORY	112	112	100
IT4T3	JAVA	THEORY	112	109	97.32
IT4T4	AUTOMATA AND COMPILER DESIGN	THEORY	112	102	91.07
IT4T5	COMPUTER SYSTEM ARCHITECTURE	THEORY	112	110	98.21
IT4L1	DATABASE SYSTEMS LAB	PRACTICAL	112	112	100
IT4L2	JAVA LAB	PRACTICAL	112	112	100
IT4L3	ADVANCED DATA STRUCTURES LAB	PRACTICAL	112	112	100
IT4L4	SOFT SKILLS COURSE	PRACTICAL	112	112	100
Total			112	100	89.29

III - I

SUBJECT CODE	SUBJECT NAME	TYPE	Registered	PASSED	Pass %
IT5T1	UNIX	THEORY	111	110	99.1
IT5T2	DESIGN METHODS AND ANALYSIS OF ALGORITHMS	THEORY	111	111	100
IT5T3	DATA COMMUNICATIONS AND COMPUTER NETWORKS	THEORY	111	109	98.2
IT5T4	WEB TECHNOLOGIES	THEORY	111	106	95.5
IT5T5	MICROPROCESSORS AND MICRO CONTROLLERS	THEORY	111	111	100
IT5L1	UNIX LAB	PRACTICAL	111	111	100
IT5L2	MICROPROCESSORS AND MICRO CONTROLLERS LAB	PRACTICAL	111	111	100
IT5L3	WEB TECHNOLOGIES LAB	PRACTICAL	111	111	100
IT5L4	ADVANCED ENGLISH LANGUAGE COMMUNICATION SKILLS LAB	PRACTICAL	111	111	100
Total			111	105	94.59

III-II

SUBJECT CODE	SUBJECT NAME	TYPE	Registered	PASSED	Pass %
IT6T1	SOFTWARE ENGINEERING	THEORY	112	112	100
IT6T2	COMPUTER GRAPHICS AND ALGORITHMS	THEORY	112	111	99.11
IT6T3	OBJECT ORIENTED ANALYSIS AND DESIGN	THEORY	112	112	100
IT6T4	DATA MINING AND DATA WAREHOUSING	THEORY	112	112	100
IT6T5FE-B	MATLAB PROGRAMMING AND APPLICATIONS	THEORY	77	72	93.51
IT6T5FE-C	INDUSTRIAL ENGINEERING & ENTREPRENEURSHIP	THEORY	35	35	100
IT6L1	OOAD LAB	PRACTICAL	112	112	100
IT6L2	DM LAB	PRACTICAL	112	112	100
IT6L3	COMPUTER GRAPHICS AND ALGORITHMS LAB	PRACTICAL	112	112	100
IT6L4	PERSONALITY DEVELOPMENT COURSE	PRACTICAL	112	112	100
IT6L5	SEMINAR	PRACTICAL	112	112	100
Total			112	106	94.64

IV-I

SUBJECT CODE	SUBJECT NAME	TYPE	Registered	PASSED	Pass %
IT7T1	MANAGERIAL ECONOMICS AND FINANCIAL ACCOUNTANCY	THEORY	117	115	98.29
IT7T2	SOFTWARE TESTING	THEORY	117	109	93.16
IT7T3	MOBILE COMPUTING	THEORY	117	108	92.31
IT7T4	DISTRIBUTED OBJECT TECHNOLOGIES	THEORY	117	117	100
IT7T5C	ELEMENTS OF SOFTWARE PROJECT MANAGEMENT	THEORY	117	117	100
IT7T6A	HUMAN COMPUTER INTERACTION	THEORY	117	112	95.73
IT7L1	MOBILE COMPUTING LAB	PRACTICAL	117	117	100
IT7L2	DISTRIBUTED OBJECT TECHNOLOGIES LAB	PRACTICAL	117	117	100
IT7L3	MINI PROJECT / TERM PAPER AND SEMINAR	PRACTICAL	117	117	100
Total			117	100	85.47

IV-II

SUBJECT CODE	SUBJECT NAME	TYPE	Registered	PASSED	Pass %
IT8T1	BIOMETRICS	THEORY	117	117	100
IT8T2D	BIG DATA ANALYTICS	THEORY	117	115	98.29
IT8T3A	ARTIFICIAL INTELLIGENCE	THEORY	117	117	100
IT8PW	PROJECT WORK	PRACTICAL	117	117	100
Total			117	115	98.29

13. Strengths:

1. Every faculty member has at least one publication in reputed journals.
2. Good Student Teacher Ratio with I: 17
3. Department has a culture of filing for patents evident from the number of patents 12 applied during this year.
4. Department Advisory Board has representation of 2 persons from Industry.
5. TA/DA and Registration fee for presenting papers in conferences is supported.
6. Full financial support for filing patents is in place.
7. Reasonable number of student publications is noticed.

14. Weaknesses:

1. Though the number of publications is good, publications in peer reviewed journals need to be focused
2. Funded/sponsored research projects and consultancy need substantial improvement.
3. Faculty cadre ratio needs improvement.

15. Suggestions for improvement:

1. Effort shall be made to enter into MO Us with industries with an objective of setting up industry sponsored laboratories /Centers of Excellence.
2. MIS at Institute level may be implemented to automate most of these processes.
3. Though the placement record is nearly 100%, efforts shall be made to attract IT companies involved in product development.
4. Incentives like, waiver of Tution fee for meritorious students may be considered.

Name and Designation of the External Evaluator 1: Dr. A Sarat Babu,
Professor, NIT WARANGAL

Name and Designation of the External Evaluator 2 : Dr. A Venu Gopal,
Professor, NIT WARANGAL


Sig. of Departmental Coordinator


Sig. of Academic Auditor 1. (External)


Sig. of HOD


Sig. of IQAC Coordinator

2. (External)

ACADEMIC AUDIT REPORT FOR THE ACADEMIC YEAR 2017-18

1. Name of the Department: MECHANICAL ENGINEERING
2. No. of fulltime permanent faculty: 33(5Prof. + 4 Assoc. Prof. + 24 Asst. Prof.)
3. No. of part time Visiting/temporary contractual faculty: NIL
4. No. of PG/ UG courses: 1-B.Tech & 1-M.Tech
5. Curriculum Revisions Info: PVP2014 as per OBE and planning to revise in 2019.
6. Research:

Publications:

National & International Jr: 22

International Conferences: 6

National Conferences: 10

Ph.D. Thesis

Submitted: NIL

Awarded: 01

Guiding: 7

Number of Conferences: 1

National Workshops: 1

Seminars :1

FDPs: 1

Guest Lectures Organized: 12

7. Sponsored projects & amount:

Applied: 4

Ongoing: 3

Completed: 3

8. No. of Department Library Printed Books: 706

Journals :27

NPTEL Videos:32

9. No. of Faculty using ICT and PPTs: 32

10. New Equipment and Infrastructure added:

Mechatronics lab(Rs 9.3 lakh), Ball Mill(Rs 5.00 lakh), Junkers Gas Calorimeter(Rs 89,000.00)

Wood Planner (Rs. 97,000.00), Ultra Sonicator (Rs 1.75 lakhs)

- 11 .Student feedback on Curriculum: **Yes**

12. Results Analysis:

I - I

SUBJECT CODE	SUBJECT NAME	TYPE	Registered	PASSED	Pass %
ME1T1	ENGINEERING MATHEMATICS-I	THEORY	120	106	88.33
ME1T2	ENGLISH FOR COMMUNICATION	THEORY	120	120	100
ME1T3	ENGINEERING PHYSICS	THEORY	120	80	66.67
ME1T4	ENVIRONMENTAL STUDIES	THEORY	120	120	100
ME1T5	ENGINEERING DRAWING	THEORY	120	107	89.17
ME1T6	ENGINEERING MECHANICS-I	THEORY	120	94	78.33
ME1L1	ENGINEERING PHYSICS LAB	PRACTICAL	120	119	99.17
ME1L2	IT WORKSHOP	PRACTICAL	120	120	100
ME1L3	ENGINEERING WORKSHOP	PRACTICAL	120	119	99.17
Total			120	72	60

I - II

SUBJECT CODE	SUBJECT NAME	TYPE	REGISTERED	PASSED	Pass %
ME2T1	ENGINEERING MATHEMATICS - II	THEORY	119	71	59.66
ME2T2	PROFESSIONAL ETHICS	THEORY	119	118	99.16
ME2T3	ENGINEERING CHEMISTRY	THEORY	119	105	88.24
ME2T4	ENGINEERING MECHANICS-II	THEORY	119	84	70.59
ME2T5	BASIC ELECTRICAL AND ELECTRONICS ENGINEERING	THEORY	119	108	90.76
ME2T6	C PROGRAMMING	THEORY	119	71	59.66
ME2L1	ENGINEERING CHEMISTRY LAB	PRACTICAL	119	119	100
ME2L2	ENGLISH LANGUAGE COMMUNICATION SKILLS LAB	PRACTICAL	119	119	100
ME2L3	C PROGRAMMING LAB	PRACTICAL	119	119	100
Total			119	58	48.74

II - I

SUBJECT CODE	SUBJECT NAME	TYPE	Registered	PASSED	Pass %
ME3T1	NUMERICAL AND STATISTICAL METHODS	THEORY	144	99	68.75
ME3T2	BASIC THERMODYNAMICS	THEORY	144	82	56.94
ME3T3	FLUID MECHANICS AND HYDRAULIC MACHINES	THEORY	144	110	76.39
ME3T4	METALLURGY AND MATERIAL SCIENCE	THEORY	144	115	79.86
ME3T5	MECHANICS OF SOLIDS-I	THEORY	144	97	67.36
ME3T6	ENGINEERING ECONOMICS	THEORY	144	130	90.28
ME3L1	FM AND HM LAB	PRACTICAL	144	143	99.31
ME3L2	MECHANICS OF SOLIDS AND METALLURGY LAB	PRACTICAL	144	143	99.31
Total			144	69	47.92

II - II

SUBJECT CODE	SUBJECT NAME	TYPE	Registered	PASSED	Pass %
ME4T1	MECHANICS OF SOLIDS-II	THEORY	131	108	82.44
ME4T2	APPLIED THERMODYNAMICS	THEORY	131	103	78.63
ME4T3	IC ENGINES AND GAS TURBINES	THEORY	131	117	89.31
ME4T4	KINEMATICS OF MACHINERY	THEORY	131	103	78.63
ME4T5	PRODUCTION TECHNOLOGY	THEORY	131	110	83.97
ME4L1	COMPUTER AIDED MACHINE DRAWING PRACTICE	PRACTICAL	131	125	95.42
ME4L2	PRODUCTION TECHNOLOGY LAB	PRACTICAL	131	130	99.24
ME4L3	ELECTRICAL AND ELECTRONICS ENGINEERING LAB	PRACTICAL	131	126	96.18
Total			131	87	66.41

III - I

SUBJECT CODE	SUBJECT NAME	TYPE	Registered	PASSED	Pass %
ME5T1	DYNAMICS OF MACHINERY	THEORY	121	104	85.95
ME5T2	METAL CUTTING AND MACHINE TOOLS	THEORY	121	111	91.74
ME5T3	HEAT TRANSFER	THEORY	121	102	84.3
ME5T4	ENGINEERING METROLOGY	THEORY	121	104	85.95
ME5T5	DESIGN OF MACHINE MEMBERS-I	THEORY	121	84	69.42
ME5T6	CAD/CAM	THEORY	121	103	85.12
ME5L1	FUELS AND IC ENGINES LAB	PRACTICAL	121	121	100
ME5L2	MACHINE TOOLS LAB	PRACTICAL	121	121	100
ME5L3	CAD/CAM LAB	PRACTICAL	121	119	98.35
Total			121	71	58.68

III-II

SUBJECT CODE	SUBJECT NAME	TYPE	Registered	PASSED	Pass %
ME6T1	MECHANICAL MEASUREMENTS	THEORY	118	113	95.76
ME6T2	DESIGN OF MACHINE MEMBERS-II	THEORY	118	111	94.07
ME6T3	OPERATIONS RESEARCH	THEORY	118	112	94.92
ME6T4	REFRIGERATION AND AIR CONDITIONING	THEORY	118	114	96.61
ME6T5	INDUSTRIAL ENGG. AND MANAGEMENT	THEORY	118	109	92.37
ME6T6FE-A	AIR POLLUTION AND CONTROL	THEORY	50	50	100
ME6T6FE-B	BUILDING MATERIALS AND CONSTRUCTION	THEORY	43	39	90.7
ME6T6FE-C	MATLAB PROGRAMMING AND APPLICATIONS	THEORY	7	7	100
ME6T6FE-E	MICROCONTROLLERS	THEORY	18	18	100
ME6L1	METROLOGY AND INSTRUMENTATION LAB	PRACTICAL	118	118	100
ME6L2	HEAT TRANSFER LAB	PRACTICAL	118	118	100
Total			118	98	83.05

IV-I

SUBJECT CODE	SUBJECT NAME	TYPE	Registered	PASSED	Pass %
ME7T1	MECHATRONICS	THEORY	131	131	100.00
ME7T2	PRODUCTION PLANNING AND CONTROL	THEORY	131	130	99.24
ME7T3	FINITE ELEMENT METHODS	THEORY	131	104	79.39
ME7T4B	ROBOTICS	THEORY	63	63	100
ME7T4D	ALTERNATIVE SOURCES OF ENERGY	THEORY	68	65	95.59
ME7T5B	ADVANCED MACHINING PROCESSES	THEORY	131	128	97.70
ME7L1	SIMULATION LAB	PRACTICAL	131	131	100.00
ME7L2	MACHINE DYNAMICS LAB	PRACTICAL	131	131	100.00
ME7L3	MINI PROJECT	PRACTICAL	131	131	100.00
ME7L4	SEMINAR	PRACTICAL	131	131	100.00
Total			131	103	78.63

IV-II

SUBJECT CODE	SUBJECT NAME	TYPE	Registered	PASSED	Pass %
ME8T1	POWER PLANT ENGINEERING	THEORY	132	128	96.97
ME8T2B	AUTOMATION IN MANUFACTURING	THEORY	132	131	99.24
ME8T3B	AUTOMOBILE ENGINEERING	THEORY	132	126	95.45
ME8L1	MECHATRONICS LAB	PRACTICAL	132	132	100
ME8PW	PROJECT WORK	PRACTICAL	132	132	100
Total			132	124	93.94

13. Strengths/Good Practices:

1. Most of the faculty are pursuing Ph.D.
2. The Department is very active in organizing Conferences, Workshops and Guest Lectures.
3. The Department has a good number of MO Us with reputed industries.
4. Efforts were made to provide skill based training to the students resulting in placements.
5. Department has a reasonable number of external sponsored research projects.

14. Weaknesses:

1. Faculty qualifications need improvement.
2. Research output by way of quality publications shall be improved
3. Consultancy need substantial improvement
4. Placements are limited to IT companies only


15. Suggestions for improvement:

1. Entrepreneurship initiatives are to be organized.
2. The Institute shall implement/develop MIS for effective functioning of faculty.
3. MO Us with higher level institutions with an objective of deputing faculty for carrying out PhD shall be encouraged.
4. Centre of Excellence focused on research and consultancy may be established.

Name and Designation of the External Evaluator 1: Dr. A Sarat Babu,
Professor, NIT WARANGAL

Name and Designation of the External Evaluator 2 : Dr. A Venu Gopal,
Professor, NIT WARANGAL

E. Kavitha 7/12/18
Sig. of Departmental Coordinator

 7/12/18
Sig. of HOD

A. S. Balu
Sig. of Academic Auditor 1. (External)

 2. (External)


Sig. of IQAC Coordinator
7/12/18