PVP SIDDHARTHA INSTITUTE OF TECHNOLOGY, KANURU, VIJAYAWADA

DEPARTMENT OF CIVIL ENGINEERING

Academic Audit Report (2019-20)

Date of audit: 05/12/2020.

1. Name of Department: **Civil Engineering**
2. No. of full time permanent faculty: (2 -Professors , 1- Assoc professors , 10-Assistant professors)
3. No. of part time Visiting/temporary contractual faculty: **NIL**
4. No. of PG / UG courses: **1-B.Tech**
5. Curriculum Revisions Info: The curriculum is revised as per PVP-19 regulation.
6. Research:
   - Publications:
     International Journals: **19**
     National Journals: **Nil**
     National Conferences: **Nil**
     International Conference: **Nil**
   - Ph.D.
     Theses Submitted: **Nil**
     Awarded: **Nil**
     Number of Conferences/Lectures Organized: **7**
     Guiding: / guided Ph.Ds: **5**
7. Sponsored projects& amount:
   Applied: **3**
   Ongoing: **1**
   Completed: **Nil**
8. No. of Department Library Printed Books:106
   Web-resources CDs added : 32
   E-Books Added: -
   Journals: 20
9. No. of Faculty using ICT and PPTs: 12
10. New Equipment and Infrastructure added:

    Concrete Mixer in Concrete Technology Lab
    Sound Level Meter in Transportation Engineering Lab
    Electronic TS-500 Digital scale 25k capacity balance (2Nos) in Surveying Lab
    Laboratory Oven, Sand Pouring Cylinder and Core cutter in Geotechnical Engineering Lab

    Budget utilized for equipment and infrastructure during 2019-20: 9.284 Lakhs
11. Student feedback on Curriculum: **Yes**
12. Result Analysis

B.TECH I YEAR - I SEMESTER

Subject Code	Subject Name	Type	Registered	Passed	Pass %
19HS1101	Communicative English - I	Theory	46	46	100
19BS1101	Engineering Mathematics – I (Calculus & Algebra)	Theory	46	27	58.7
19BS1102	Chemistry of Materials	Theory	46	37	80.43
19ES1101	Problem Solving & Programming	Theory	46	28	60.87
19HS1151	Communicative English – I Lab	Practical	46	46	100
19BS1151	Chemistry of Materials Lab	Practical	46	46	100
19ES1152	Problem Solving & Programming Lab	Practical	46	46	100
19ES1153	Basic Workshop	Practical	46	46	100
Total			46	22	47.83

B.TECH I YEAR - II SEMESTER

Subject Code	Subject Name	Type	Registered	Passed	Pass %
19HS1201	Communicative English II	Theory	46	46	100
19BS1201	Engineering Mathematics II (ODE,PDE and Multivariable Calculus)	Theory	46	18	39.13
19BS1204	Applied Physics	Theory	46	39	84.78
19ES1201	Basic Electrical and Electronics Engineering	Theory	46	28	60.87
19ES1203	Engineering Graphics	Theory	46	35	76.09
19HS1251	Communicative English II Lab	Practical	45	45	100
19BS1253	Engineering Physics Lab	Practical	46	46	100
19ES1251	Basic Electrical and Electronics Engineering Lab	Practical	46	46	100
19CS3251	Civil Engineering Workshop	Practical	46	46	100
Total			46	16	34.78

B.TECH II YEAR - I SEMESTER

Subject Code	Subject Name	Type	Registered	Passed	Pass %
CE3T1	Mathematical Methods	Theory	65	55	84.62
CE3T2	Building Materials and Construction	Theory	65	62	95.38
CE3T3	Mechanics of Solids-I	Theory	65	47	72.31
CE3T4	Engineering Geology	Theory	65	65	100
CE3T5	Surveying	Theory	65	57	87.69
CE3T6	Fluid Mechanics	Theory	65	39	60
CE3L1	Surveying Field work	Practical	65	65	100
CE3L2	Engineering Geology Lab	Practical	65	65	100
CE3L3	Computer Aided Drawing	Practical	65	65	100
Total			65	36	55.38

B.TECH II YEAR - II SEMESTER

Subject Code	Subject Name	Type	Registered	Passed	Pass %
CE4T1	Concrete Technology	Theory	65	59	90.77
CE4T2	Geotechnical Engineering-I	Theory	65	45	69.23
CE4T3	Mechanics of Solids-II	Theory	65	49	75.38
CE4T4	Hydraulics and Hydraulic Machinery	Theory	65	51	78.46
CE4T5	Building Planning and Drawing	Theory	65	63	96.92
CE4T6	Structural Analysis – I	Theory	65	56	86.15
CE4L1	Fluid Mechanics and Hydraulic Machines Lab	Practical	65	64	98.46
CE4L2	Material Testing Lab	Practical	65	64	98.46
CE4L3	Surveying Field Work	Practical	65	64	98.46
Total			65	39	60

B.TECH III YEAR - I SEMESTER

Subject Code	Subject Name	Type	Registered	Passed	Pass %
CE5T1	Design and Drawing of Concrete Structures - I	Theory	63	48	76.19
CE5T2	Environmental Engineering-I	Theory	63	62	98.41
CE5T3	Water Resources Engineering-I	Theory	63	45	71.43
CE5T4	Structural Analysis – II	Theory	63	46	73.02
CE5T5	Transportation Engineering-I	Theory	63	63	100
CE5T6	Geotechnical Engineering – II	Theory	63	44	69.84
CE5L1	Geotechnical Engineering Lab	Practical	63	63	100
CE5L2	Concrete Technology Lab	Practical	63	61	96.83
Total			63	34	53.97

B.TECH III YEAR - II SEMESTER

Subject Code	Subject Name	Type	Registered	Passed	Pass %
CE6T1	Design and Drawing of Concrete Structures - II	Theory	61	52	85.25
CE6T2	Design and Drawing of Steel Structures	Theory	61	52	85.25
CE6T3	Water Resources Engineering –II	Theory	61	51	83.67
CE6T4	Environmental Engineering-II	Theory	61	59	96.72
CE6T5	Transportation Engineering – II	Theory	61	60	98.36
CE6T6FE-A	Industrial Engineering & Entrepreneurship	Theory	61	60	98.36
CE6L1	Transportation Engineering Lab	Practical	61	61	100
CE6L2	Computer Aided Building Drawing	Practical	61	61	100
Total			61	47	77.05

B.TECH IV YEAR - I SEMESTER

Subject Code	Subject Name	Type	Registered	Passed	Pass %
CE7T1	Advanced Structural Engineering	Theory	61	61	100
CE7T2	Remote Sensing and GIS Applications	Theory	61	58	95.08
CE7T3	Estimation and Costing	Theory	61	60	98.36
CE7T4C	Traffic Engineering	Theory	61	61	100
CE7T5B	Ground Improvement Techniques	Theory	61	61	100
CE7T5E	Green Buildings	Theory	61	61	100
CE7L1	CCAD and GIS Lab	Practical	61	61	100
CE7L2	Environmental Engineering Lab	Practical	61	61	100
CE7L3	Industrial Training / Mini Project	Practical	61	61	100
Total			61	58	95.08

B.TECH IV YEAR - II SEMESTER

Subject Code	Subject Name	Type	Registered	Passed	Pass %
CE8T1	Construction Technology and Project Management	Theory	61	61	100
CE8T2	Engineering Economics and Project Appraisal	Theory	61	60	98.36
CE8T3B	Environmental Impact Assessment	Theory	61	61	100
CE8T4C	Watershed Management	Theory	61	53	86.89
CE8L1	Major Project	Practical	61	61	100
Total			61	53	86.89

13. Strengths:

- Feedback mechanism is ok
- Improvement in Research activities is observed
- MOU's are good
- Faculty interaction with outside world is good
- Improvement in Results due to remedial classes
- Career guidance need to be conducted

14. Weaknesses:

- Three professional Society memberships and student chapter activities
- Incubation lab activities need to be conducted
- Capability and enhancement programmes need to be conducted

15. Suggestions for improvement:

- Consultancy is 1.09 lakhs
- High packages placements have to be improved

K. V. [signature]

ig. of Departmental Coordinator

Sig. of Academic Auditor 1. (Internal)

2. (Internal)

(M.S.R. Niranjan Kumar)

3. P. Adi Lakshmi

K. [signature] 16/12/2020

Sig. of HOD

HEAD
Dept. of Civil Engineering
PRASAD V.POTLURI
...THA INSTITUTE OF TECH...

Sig. of IQAC Coordinator

Academic Audit Report

1. Name of Department: **Computer Science & Engineering**
2. No. of full time permanent faculty: **34**(5-Professors , 2- Assoc professors , 27 -Assistant professors)
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: The curriculum is revised as per PVP-19 regulation.
6. Research:
   - Publications:

     International Journals: **12+3** (faculty of PVPSIT but with other college affiliation)

     National Journals: Nil

     National Conferences: Nil

     International Conference: **2**
   - Ph.D.

     Theses Submitted: **Nil**

     Awarded: **04**

     Number of Conferences/Lectures Organized: **00/12 (FDP/STTPs – 2,workshops :7, Guest Lectures/Seminars:3)**

     Guiding: **04/** guided Ph.Ds: **Nil**

7. Sponsored projects& amount: : Rs.10,90,666/-

   Applied: **11** (2 internal + 9 external)

   Ongoing: **7**(5 internal + 2 external)

   Completed:**3** (1 internal + 2 external)

8. No. of Department Library Printed Books: **785**

   Web-resources CDs added : Nil

   e-Books Added: Nil

   Journals: Nil

9. No. of Faculty using ICT and PPTs: **34**

10. New Equipment and Infrastructure added: Rs.20,59,077/- (List enclosed)

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

12.Result Analysis

I-I

Subject Code	Subject	TYPE	Registered	Passed	Pass Percentage %
19HS1101	COMMUNICATIVE ENGLISH I	THEORY	193	193	100
19BS1101	ENGINEERING MATHEMATICS I (CALCULUS AND ALGEBRA)	THEORY	193	172	89.12
19BS1103	ENGINEERING CHEMISTRY	THEORY	193	190	98.45
19ES1102	PROBLEM SOLVING AND PROGRAMMING	THEORY	193	178	92.23
19HS1151	COMMUNICATIVE ENGLISH I LAB	THEORY	193	193	100
19HS1152	ENGINEERING CHEMISTRY LAB	PRACTICAL	193	193	100
19ES1152	PROBLEM SOLVING AND PROGRAMMING LAB	PRACTICAL	193	193	100
19ES1153	BASIC WORKSHOP	PRACTICAL	193	193	100
TOTAL:			**193**	**162**	83.94

I--II

Subject Code	Subject	TYPE	Registered	Passed	Pass Percentage %
19HS1201	COMMUNICATIVE ENGLISH II	THEORY	193	193	100100
19BS1202	ENGINEERING MATHEMATICS II	THEORY	193	184	95.34
19BS1205	ENGINEERING PHYSICS	THEORY	193	186	96.37
19ES1201	BASIC ELECTRICAL AND ELECTRONICS ENGG.	THEORY	193	180	93.26
19ES1203	ENGINEEING GRAPHICS	THEORY	193	183	94.82
19HS1251	COMMUNICATIVE ENGLISH II LAB	PRACTICAL	193	193	100
19BS1253	ENGINEERING PHYSICS LAB	PRACTICAL	193	193	100
19ES1251	BASIC ELECTRICAL AND ELECTRONICS ENGINEERING LAB	PRACTICAL	193	193	100
19CS3251	INFORNMATION TECHNOLOGY WORKSHOP	PRACTICAL	193	193	100
19MC1251A	NCC	PRACTICAL	4	4	100
19MC1251B	NSS	PRACTICAL	42	42	100
19MC1251C	SPORTS	PRACTICAL	80	79	98.75

19MC1251D	YOGA	PRACTICAL	25	25	100
19MC1251F	HOBBY ELECTRONICS	PRACTICAL	4	4	100
19MC1251G	GROUP DISCUSSION	PRACTICAL	39	39	100
TOTAL:			**193**	**171**	**88.6**

II-I

Subject Code	Subject	TYPE	Registered	Passed	Pass Percentage %
CS3T1	DISCRETE MATHEMATICS	THEORY	132	132	100
CS3T2	DATA STRUCTURES	THEORY	132	130	98.48
CS3T3	PROGRAM DESIGN	THEORY	132	130	98.48
CS3T4	FORMAL LANGUAGES AND AUTOMATA THEORY	THEORY	132	124	93.94
CS3T5	OBJECT ORIENTED PROGRAMMING THROUGH JAVA	THEORY	132	128	96.97
CS3L1	DATA STRUCTURES LAB	PRACTICAL	132	132	100
CS3L2	ADVANCED C PROGRAMMING LAB	PRACTICAL	132	132	100
CS3L3	JAVA LAB	PRACTICAL	132	132	100
CS3L4	TECHNICAL ENGLISH	PRACTICAL	132	132	100
TOTAL:			**132**	**121**	**91.67**

II-II

SUBJECT CODE	Subject	TYPE	No. of students Appeared	No. of students Passed	Pass Percentage %
CS4T1	COMPILER DESIGN	THEORY	132	126	95.45
CS4T2	DESIGN ANALYSIS AND ALGORITHMS	THEORY	132	127	96.21
CS4T3	FILE STRUCTURES	THEORY	132	131	99.24
CS4T4	PRINCIPLES OF PROGRAMMING LANGUAGES	THEORY	132	131	99.24
CS4T5	COMPUTER ORGANIZATION	THEORY	132	131	99.24
CS4L1	COMPILER DESIGN LAB	PRACTICAL	132	132	100
CS4L2	FILE STRUCTUTES LAB	PRACTICAL	132	132	100

CS4L3	COMPUTER ORGANIZATION LAB	PRACTICAL	132	132	100
CS4L4	PERSONALITY DEVELOPMENT COURSE	PRACTICAL	132	132	100
TOTAL			132	124	93.94

III-I

Subject Code	Subject	TYPE	Registered	Passed	Pass Percent %
CS5T1	DATABASE MANAGEMENT SYSTEMS	THEORY	132	120	90.9
CS5T2	MICROPROCESSOR AND INTERFACING	THEORY	132	105	79.5
CS5T3	COMPUTER NETWORKS	THEORY	132	127	96.2
CS5T4	SOFT COMPUTING	THEORY	132	124	93.9
CS5T5	OPERATING SYSTEMS	THEORY	132	131	99.2
CS5L1	DATABASE MANAGEMENT SYSTEMS LAB	PRACTICAL	132	132	100
CS5L2	MICROPROCESSOR AND INTERFACING LAB V	PRACTICAL	132	132	100
CS5L3	COMPUTER NETWORKS AND OPERATING SYSTEMS LAB	PRACTICAL	132	132	100
CS5L4	FREE OPEN SOURCE SOFTWARE TOOLS	PRACTICAL	132	132	100
TOTAL:			**132**	**101**	76.5

III-II

Subject Code	Subject	TYPE	Registered	Passed	Pass Percenta %
CS6T1	ADVANCED JAVA AND WEB TECHNOLOGIES	THEORY	132	132	100
CS6T2	DESIGN PATTERNS	THEORY	132	127	96.21
CS6T3	COMPUTER GRAPHICS	THEORY	132	124	93.94
CS6T4	DATA WAREHOUSING AND DATA MINING	THEORY	132	125	94.7
CS6T5FE-A	AIR POLLUTION AND CONTROL.	THEORY	123	121	98.37
CS6T5FE-F	MICROCONTROLLERS	THEORY	1	1	100
CS6T5FE-G	DIGITAL IMAGE PROCESSING	THEORY	8	8	100
CS6L1	ADVANCED JAVA AND WEB TECHNOLOGIES LAB	PRACTICAL	132	132	100

CS6L2	UML AND DESIGN PATTERNS LAB	PRACTICAL	132	132	100
CS6L3	COMPUTER GRAPHICS LAB	PRACTICAL	132	132	100
CS6L4	SOFT SKILLS COURSE	PRACTICAL	132	132	100
CS6L5	SEMINAR	PRACTICAL	132	132	100
TOTAL:			**132**	**119**	**90.15**

IV-I

Subject Code	Subject	TYPE	Registered	Passed	Pass Percentage %
CS7T1	BIG DATA CONCEPTS	THEORY	132	121	91.67
CS7T2	MOBILE APPLICATION DEVELOPMENT	THEORY	132	132	100
CS7T3	INFORMATION SECURITY	THEORY	132	131	99.24
CS7T4A	ELECTIVE-I CLOUD COMPUTING	THEORY	18	18	100
CS7T4B	ELECTIVE-I ADVANCED DATABASES	THEORY	114	110	96.49
CS7T5A	ELECTIVE-II SOFTWARE ENGINEERING	THEORY	132	129	97.73
CS7L1	DATA ANALYTICS LAB	PRACTICAL	132	132	100
CS7L2	MOBILE APPLICATION DEVELOPMENT LAB	PRACTICAL	132	132	100
CS7L3	INFORMATION SECURITY LAB	PRACTICAL	132	132	100
CS7L4	MINI PROJECT	PRACTICAL	132	132	100
CS7L5	SEMINAR	PRACTICAL	132	132	100
TOTAL:			**132**	**108**	**89.39**

IV-II

Subject Code	Subject	TYPE	Registered	Passed	Pass Percentage %
CS8T1	MEFA	THEORY	132	130	99.24
CS8T2A	E-COMMERCE	THEORY	88	87	98.86
CS8T2D	SCRIPTING LANGUAGES	THEORY	44	44	100
CS8T3A	HUMAN COMPUTER INTERACTION	THEORY	132	131	99.24
CS8PW	MAIN PROJECT	PRACTICAL	132	132	100
TOTAL:			**132**	**129**	**97.73**

13. Strengths:

1. Faculty retention is good

2. Overall performance is good

14. Weaknesses:

1. Number of placements with high package to be improved

2. Consultancy needs to be improved

3. Quality publications need to be improved

4. Funding R&D projects need to be improved

15. Suggestions for improvement:

1. Company Specific training has to be improved

Sig. of Departmental Coordinator

1.

2. D. Sulakshi

Sig. of Academic Auditor

1. (Internal)

2. (Internal)

(M.S.R. Niranjan K

3. P. Adi Lakshm

Sig. of HOD

HEAD
Department of
Computer Science & Engineering
PVP Siddhartha Institute of Technology
Kanuru, Vijayawada - 520007.

Sig. of IQAC Coordinator

PVP SIDDHARTHA INSTITUTE OF TECHNOLOGY

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Academic Audit Report A.Y:2019-2020

1. Name of Department: **Electronics and Communication Engineering**
2. No. of full time permanent faculty: **28**
   No. of Professors: 3 No. of Associate Professors: 7 No. of Assistant Professors: 18
3. No. of part time Visiting/temporary contractual faculty: **NIL**
4. No. of PG / UG courses: **M.Tech (MW&CE) & B.Tech**
5. Curriculum Revisions Info: **PVP-19 curriculum implemented from A.Y 2019-2020**
6. Research:
   Scopus, Sci Publications: Scopus:08, Sci:01
   Other Journals: 17
   National Conferences: ---
   International Conference: **09**
   Book Chapters: 06
   Ph.D. Theses Submitted: **NIL**
   Ph.D. Theses Submitted Awarded: **NIL**
   Number of Conferences Organized: NIL
   Guest Lectures-06
   Guiding / Guided PhDs: **Guided: 01 Guiding: 05**
7. Sponsored projects& amount:
   Applied: 04
   Ongoing: NIL
   Completed: 02
8. No. of Department Library Printed Books Added:
   Web-resources CDs added --NIL

   E-Books Added: -- NIL.
   Journals --- NIL
9. No. of Faculty using ICT and PPTs: 28
10. New Equipment and Infrastructure added: Equipment worth Rs.15,36,931/- added
11. Student feedback on Curriculum: Yes or No ----**Yes**
12. Results:

I/IV B. Tech. - First Semester

Subject Code	Subject	Details			%
		Type	Registered	Passed	
19HS1101	CommunicativeEnglish -I	Theory	127	127	100
19BS1101	Engineering Mathematics – I	Theory	127	117	92.13
19BS1104	Engineering Physics	Theory	127	122	96.06
19ES1101	Basic electrical and electronics engineering	Theory	127	123	96.85
19ES 1103	Engineering graphics	Theory	127	124	97.64
19HS1151	Communicative English lab	Practical	127	127	100
19BS1153	Engineering Physics Lab	Practical	127	127	100
19ES1151	Basic electrical and electronics engineering	Practical	127	127	100
Total			**127**	**114**	**89.76**

I/IV B. Tech. - Second Semester

I/IV B. Tech. - Second Semester

Subject Code	Subject	Details			%
		Type	Registered	Passed	
19HS1201	Communicative English -II	Theory	126	125	99.21
19BS1201	Engineering Mathematics – II	Theory	126	116	92.06
19BS1203	Engineering Chemistry	Theory	126	122	96.83
19ES1202	Problem solving and programming	Theory	126	116	92.06
19HS1251	Communicative English –II lab	Theory	126	126	100
19BS1251	Engineering Chemistry lab	Theory	126	126	100
19ES1252	Problem solving and programming lab	Practical	126	126	100
19ES1253	BasicWorkshop	Practical	126	126	100
19EC3251	Electronics Workshop	Practical	126	125	95.20
Total			**126**	**109**	**86.51**

II/IV B. Tech. - First Semester

Subject Code	Subject	Details			%
		Type	Registered	Passed	
EC 3T1	Engineering Mathematics-III	Theory	126	125	99.21
EC 3T2	Probability Theory and Stochastic Process	Theory	126	114	90.48
EC 3T3	Signals and Systems	Theory	126	116	92.06
EC 3T4	Network Analysis and Synthesis	Theory	126	113	89.68
EC 3T5	Electrical Technology	Theory	126	122	96.83
EC 3T6	Switching Theory and Logic Design	Theory	126	112	88.89
EC 3L1	Basic Simulation Lab	Practical	126	126	100
EC 3L2	Networks and Electrical Technology Lab	Practical	126	126	100
Total			**126**	**100**	**79.37**

II/IV B. Tech. - Second Semester

Subject Code	Subject	Details			%
		Type	Registered	Passed	
EC 4T1	Control Systems	Theory	127	122	96.06
EC 4T2	Pulse and Digital Circuits	Theory	127	122	96.06
EC 4T3	Analog Electronic Circuits	Theory	127	118	92.91
EC 4T4	Electomagnetic Fields and Waves	Theory	127	115	90.55
EC 4T5	Analog Communications	Theory	127	123	96.85
EC 4L1	Analog Communications Lab	Practical	127	127	100
EC 4L2	Analog Electronic Circuits Lab	Practical	127	127	100
EC 4L3	Pulse and Digital Circuits Lab	Practical	127	127	100
Total			**127**	**107**	**84.25**

III/IV B. Tech. - First Semester

Subject Code	Subject	Details			%
		Type	Registered	Passed	
EC5T1	Linear Integrated Circuits	Theory	138	132	96.65
EC 5T2	Transmission Lines and Wave Guides	Theory	138	118	85.51
EC 5T3	Computer-Architecture and Organization	Theory	138	135	97.83
EC 5T4	Antenna and Wave Propagation	Theory	138	121	87.68
EC 5T5	Digital IC Applications	Theory	138	130	94.2
EC5T6	Digital Signal Processing	Theory	138	131	94.93
EC 5L1	Linear IC Applications Lab	Practical	138	137	99.28
EC 5L2	Digital IC Applications Lab	Practical	138	138	100
EC5L3	Seminar		138	138	100
Total			**138**	**108**	**78.26**

III/IV B. Tech. - Second Semester

Subject Code	Subject	Details			%
		Type	Registered	Passed	
EC 6T1	VLSI Design	Theory	138	137	99.28
EC 6T2	Microprocessors and Microcontrollers	Theory	138	135	97.83
EC 6T3	Microwave Engineering	Theory	138	135	97.83
EC 6T4	Digital Communications	Theory	138	118	85.51
EC 6T5	Computer Networks	Theory	138	138	100
EC 6T6FEB	Air pollution and control	Theory	2	2	100
EC6T6FED	OOPS through JAVA	Theory	124	121	97.58
EC6T6FE-H	Renewable energy sources	Theory	12	12	100
EC 6L1	Digital Communications Lab	Practical	138	138	100
EC 6L2	Microprocessors and Microcontrollers Lab	Practical	138	138	100
EC 6L3	OOPS Lab	Practical	138	138	100
Total			138	117	84.78

IV/IV B. Tech. - First Semester

Subject Code	Subject	Details			%
		Type	Registered	Passed	
EC 7T1	Optical Communications	Theory	139	133	95.68
EC 7T2	Digital Image Processing	Theory	139	123	88.49
EC 7T3	Cellular and Mobile Communications	Theory	139	135	97.12
EC7T4A	Embedded and Real Time Systems	Theory	96	96	100
EC7T4D	Bio – Medical Instrumentation	Theory	43	42	97.67
EC7T5A	Wireless Communications and Networks	Theory	80.	77	96.5
EC7T5C	Radar Systems	Theory	59	56	64.92
EC 7T6	Managerial Economics and Financial Analysis	Theory	139	139	100
EC 7L1	Microwave Engineering and Optical Communications Lab	Practical	139	139	100
EC 7L2	Digital Signal Processing Lab	Practical	139	139	100
EC 7L3	Mini Project	Practical	139	139	100
Total			139	120	86.33

IV/IV B. Tech. - Second Semester

Subject Code	Subject	Details			%
		Type	Registered	Passed	
EC 8T1	TV and Satellite Communications	Theory	139	139	100
EC8T2D	GPS	Theory	139	136	97.84
EC8T3B	Inddustrial management &entrpreneurship	Theory	71	71	100
EC 8T3C	Management science	Theory	68	68	100
EC8PW	Project work	Practical	139	139	100
Total			139	136	97.84

13. **Strengths:**

1. Faculty Student ratio and cadre ratio is good.
2. Student Activities and industry internships are good.
3. Teaching – Learning process and faculty retention are good.
4. Labs are updated with latest technologies.
5. All the faculty are using ICT

14. **Weaknesses:**

1. Faculty interaction with industry can be improved.
2. External R&D sponsored projects, consultancy work can be improved.
3. Career counselling and competitive exams can be improved.

15. **Suggestions for improvement:**

1. Faculty should focus on more research publications in Scopus and SCI.
2. Placements in core companies need to be improved.
3. Number of Faculty patents can be improved.
4. Number of MOU's can be increased.
5. Encourage Incubation and Entrepreneurship

gnature of Departmental Coordinator :

g. of Academic Auditor 1. (Internal) :

2. (Internal) : (M. S. R. Nidamlam Kumar)

gnature of HOD :

gnature of IQAC Coordinator :

4/11/2020

HEAD
Electronics & Communication Engg.Dept.
PRASAD V.POTLURI
SIDDHARTHA INSTITUTE OF TECHNOLOGY
KANURU, VIJAYAWADA-520 007.

Academic Audit Report

1. Name of Department: **Electrical and Electronics Engineering**
2. No. of full time permanent faculty: **28**(3-Professors , 5- Assoc professors , 20 -Assistant professors)
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: The curriculum is revised as per PVP-19 regulation.
6. Research:
   - Publications:
     International Journals:**67 [24(SCI+Scopus) + 43(Other journals)]**
     National Journals: **Nil**
     National Conferences: **Nil**
     International Conference: **10**
   - Ph.D.
     Theses Submitted: **01**
     Awarded: **01**
     Number of Conferences/Lectures Organized: **--/04-Guest lectures.**
     03- Training Programs.
     Guiding Ph.D Scholars : **12** / guided Ph.Ds: **1**
7. Sponsored projects& amount: Rs 2,25,000/-
   Applied: **5** (1AICTE /1 SERB/ 3 Seed money)
   Ongoing: **3**
   Completed: Nil
   Grant received under AICTE -MODROB Scheme : Rs 13,00,000/-

8. No. of Department Library Printed Books: No of Titles: 326
   No of Voulmes:371
   Web-resources CDs added:
   e-Books Added: **Nil**
   Journals: e-journals : 5
   National journals : 8
9. No. of Faculty using ICT and PPTs : **28**

10. New Equipment and Infrastructure added: (Rs 15,70,685/-)

    1. SCADA Based Generator Protection Simulation Experimental Unit
    2. Designed to Study the Working principle of ACB and to test the ACB under over current Fault and Earth Fault Conditions.
    3. DSA Educational suite – Single User
    4. Digital Storage Oscilloscope.
    5. 8086/8051 Trainer kits.
    6. Vertiv (Emerson) 20kVA Liebert-S600D UPS System.
    7. MATLAB Tool Box -5 users; Sim scape (10 users); Sim scape Electrical (10 users);
    8. Systems with I5 configuration : 12 Nos
    9. Revolving chairs :50

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

12.Result Analysis

I-I

SUBJECT CODE	SUBJECT NAME	TYPE	REGSTERED	PASSED	PASS %
19HS1101	Communicative English I	THEORY	110	108	98.18%
19BS1101	Engineering Mathematics I (Calculus and Algebra)	THEORY	110	89	80.91%
19BS1104	Engineering Physics	THEORY	110	95	86.36%
19ES1101	Basic Electrical and Electronics Engineering	THEORY	110	104	94.55%
19ES1103	Engineering Graphics	THEORY	110	94	85.45%
19HS1151	Communicative English I Lab	PRACTICAL	110	110	100%
19BS1153	Engineering Physics Lab	PRACTICAL	110	110	100%
19ES1151	Basic Electrical and Electronics Engineering Lab	PRACTICAL	110	109	99.09%
TOTAL			110	80	72.73%

II-I

SUBJECT CODE	SUBJECT NAME	TYPE	REGSTERED	PASSED	PASS %
EE3T1	Numerical Methods and Differential Equations	THEORY	129	124	96.12%
EE3T2	Electrical Machines – I	THEORY	129	98	75.97%
EE3T3	Thermal and Hydro Prime Movers	THEORY	129	129	100%
EE3T4	Electrical Circuit Analysis-II	THEORY	129	108	83.72%
EE3T5	Electromagnetic Fields	THEORY	129	117	90.69%
EE3T6	Switching Theory and Logic Design	THEORY	129	102	79.06%
EE3L1	Electrical Circuits lab	PRACTICAL	129	129	100%
EE3L2	EDC Lab	PRACTICAL	129	128	99.22%
		TOTAL	129	83	64.34%

III-I

SUBJECT CODE	SUBJECT NAME	TYPE	REGSTERED	PASSED	PASS %
EE5T1	Industrial Organization and Engineering Economics	THEORY	138	133	96.38%
EE5T2	Electrical Machines – III	THEORY	138	117	84.78%
EE5T3	Utilization of Electrical Energy	THEORY	138	134	97.10%
EE5T4	Power Electronics	THEORY	138	113	81.88%
EE5T5	Transmission and Distribution	THEORY	138	125	90.58%
EE5T6	Linear and Digital Integrated Circuit Applications	THEORY	138	120	86.96%
EE5L1	Electrical Machines Lab-II	PRACTICAL	138	138	100%
EE5L2	LDIC Lab	PRACTICAL	138	138	100%
EE5L3	Control Systems Lab	PRACTICAL	138	138	100%
		TOTAL	138	99	71.74%

III-II

SUBJECT CODE	SUBJECT NAME	TYPE	REGSTERED	PASSED	PASS %
EE6T1	Digital Signal Processing	THEORY	135	105	77.77%
EE6T2	Electrical Machine Design	THEORY	135	122	90.37%
EE6T3	Microcontrollers and Applications	THEORY	135	118	87.41%
EE6T4	Power Semiconductor Drives	THEORY	135	119	88.15%
EE6T5	Power System Analysis	THEORY	135	124	91.85%
EE6T6FE-A	Air Pollution and Control	THEORY	48	46	95.83%
EE6T6FE-C	Oops Through JAVA	THEORY	19	17	89.47%
EE6T6FE-E	Introduction to MATLAB	THEORY	41	39	95.12%
EE6T6FE-G	DBMS	THEORY	17	17	100%
EE6T6FE-I	Industrial Engg.,& Entrepreneurship	THEORY	3	3	100%
EE6T6FE-J	Digital Image Processing	THEORY	7	7	100%
EE6L1	EM Lab – III	PRACTICAL	135	135	100%
EE6L2	PE&D Lab	PRACTICAL	135	135	100%
		TOTAL	135	97	71.85%

IV-I

SUBJECT CODE	SUBJECT NAME	TYPE	REGSTERED	PASSED	PASS %
EE7T1	Power System Operation and Control	THEORY	127	123	96.85%
EE7T2	HVDC Transmission	THEORY	127	125	98.43%
EE7T3	Switchgear and Protection & Carrier Communication	THEORY	127	120	94.49%
EE7T4	Flexible AC Transmission Systems	THEORY	127	122	96.06%
EE7T5C	Database Management Systems	THEORY	127	124	97.64%
EE7T6A	Electrical Distribution Systems	THEORY	127	125	98.43%
EE7L1	Microcontrollers Lab	PRACTICAL	127	127	100%
EE7L2	Electrical Power Systems Lab	PRACTICAL	127	127	100%
EE7L3	Electrical Simulation Lab	PRACTICAL	127	127	100%
		TOTAL	127	113	88.98%

IV-II

SUBJECT CODE	SUBJECT NAME	TYPE	REGSTERED	PASSED	PASS %
EE8T1	Renewable Sources of Energy	THEORY	126	122	96.83
EE8T2C	Smart Grid	THEORY	126	125	99.21
EE8T3B	Real Time Control of Power Systems	THEORY	126	125	99.21
EE8T4	Project Work	PROJECT WORK	126	126	100
		TOTAL	126	120	95.24

13. Strengths:

- Compared to last Academic Year research activities have improved.
- Skill enhancement activities have been improved.
- Outreach activities through ISTE and Department are conducted
-

14. Weaknesses :

- Need to create an environment so that consultancy can be carried out.
- More number of students need to be qualified for GATE / GRE
-
- No incubation activities found

15. Suggestions for improvement:

- Need to focus on improvement of academic performance.
- Mou's and industry linkages can be improved

(Dr. N Vijaya Anand)
IQAC Coordinator
Dept. EEE

Internal Academic Auditors

1.
2. (M.S.R. Nidamfam Kumar)
3.
4. P. Adi

(Dr. M Venu Gopala Rao)
HOD-EEE

(Dr. S Madhavi) 5/11/2020
IQAC Coordinator

P V P SIDDHARATHA INSTITUTE OF TECHNOLOGY, KANURU
DEPARTMENT OF INFORMATION TECHNOLOGY

29.12.2020

Internal Academic Audit Report-2019-20

1. Name of Department: **Information Technology**

2. No. of full time permanent faculty: **23(3**-Professors , 1- Assoc professors , 19 -Assistant professors)

3. No. of part time Visiting/temporary contractual faculty: **NIL**
4. No. of PG / UG courses: **1-B.Tech**
5. Curriculum Revisions Info: Revised Curriculum PVP19 as per Outcome Based Education

6. Research
   - Publications:
     - International Journals: 33 Scopus-9 , UGC-4,Others-20
     - National Journals: NIL
     - National Conferences: NIL
     - International Conference: NIL
   - Ph.D.
     - Theses Submitted: 01
     - Awarded: 05
     - Number of Conferences/Lectures Organized: 11
     - Guiding / guided PhD's: 01

7. Sponsored projects& Amount Applied: 4 and 2(external funding)
   - Ongoing: 4
   - Completed: NIL

8. No. of Department Library Printed Books Added: **Nil**
   - Web-resources CDs added: 0
   - e-Books Added: 2 Journals : 1

9. No. of Faculty using ICT and PPTs: 23

10. New Equipment and Infrastructure added: Rs.2,74,702/- utilized for infrastructure

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

12. Result Analysis 2019-20:

	Semester 1	Semester 2
I	81.25%	80.47
II	90.37 %	84.4%
III	96.46 %	98.23 %
IV	94.59 %	100 %
Over all Pass %		98.19%

I/IV B. Tech – First Semester

SUBJECT CODE	SUBJECT NAME	TYPE	REGISTERED	PASSED	PASS %
19HS1101	Communicative English I	THEORY	128	128	100
19BS1101	Engineering Mathematics I (Calculus and Algebra)	THEORY	128	114	89.06
19BS1104	Engineering Physics	THEORY	128	125	97.66
19ES1101	Basic Electrical and Electronics Engineering	THEORY	128	120	93.75
19ES1103	Engineering Graphics	THEORY	128	119	92.97
19HS1151	Communicative English I Lab	THEORY	128	128	100
19BS1153	Engineering Physics Lab	PRACTICAL	128	128	100
19ES1151	Basic Electrical and Electronics Engineering Lab	PRACTICAL	128	128	100
19IT3151	Information Technology Workshop	PRACTICAL	128	128	100
TOTAL			128	104	81.25

I/IV B. Tech - Second Semester

SUBJECT CODE	SUBJECT NAME	TYPE	REGISTERED	PASSED	PASS%
19HS1201	Communicative English II	THEORY	128	122	95.31
19BS1202	Engineering Mathematics II	THEORY	128	119	92.97
19BS1203	Engg.Chemistry	THEORY	128	126	98
19ES1202	Problem Solving and Programming	THEORY	128	107	83.5
19HS1251	Communicative English I Lab	PRACTICAL	128	128	100
19BS1251	Engineering Chemistry Lab	PRACTICAL	128	128	100
19ES1252	Problem Solving and Programming Lab	PRACTICAL	128	128	100
19ES1253	Basic Workshop	PRACTICAL	128	128	100
TOTAL			128	103	80.47

II/IV B. Tech - First Semester

SUBJECT CODE	SUBJECT NAME	TYPE	REGISTERED	PASSED	PASS%
IT3T1	DIGITAL SYSTEM DESIGN	THEORY	135	135	100
IT3T2	CLASSIC DATA STRUCTURES	THEORY	135	135	100
IT3T3	PROBABILITY AND STATISTICS	THEORY	135	132	97.78
IT3T4	OOPS THROUGH C++	THEORY	135	129	95.56
IT3T5	OPERATING SYSTEMS CONCEPTS	THEORY	135	127	94.07
IT3L1	CLASSIC DATA STRUCTURES LAB	PRACTICAL	135	135	100
IT3L2	OOPS THROUGH C++ LAB	PRACTICAL	135	135	100
IT3L3	DIGITAL SYSTEM DESIGN LAB	PRACTICAL	135	135	100
IT3L4	TECHNICAL ENGLISH	PRACTICAL	135	135	100
TOTAL			**135**	**122**	90.37

II/IV B. Tech - Second Semester

SUBJECT CODE	SUBJECT NAME	TYPE	REGISTERED	PASSED	PASS%
IT4T1	ADVANCED DATA STRUCTURES	THEORY	135	130	96.3
IT4T2	DATABASE SYTEMS	THEORY	135	123	91.11
IT4T3	JAVA	THEORY	135	125	92.59
IT4T4	AUTOMATA AND COMPILER DESIGN	THEORY	135	126	93.33
IT4T5	COMPUTER SYSTEM ARCHITECTURE	THEORY	135	130	96.3
IT4L1	DATABASE SYSTEMS LAB	PRACTICAL	135	134	99.26
IT4L2	JAVA LAB	PRACTICAL	135	134	99.26
IT4L3	ADVANCED DATA STRUCTURES LAB	PRACTICAL	135	134	99.26
IT4L4	SOFTSKILLS COURSE	PRACTICAL	135	135	100
		Total	**135**	**114**	**84.4**

III/IV B. Tech - First Semester

SUBJECT CODE	SUBJECT NAME	TYPE	REGISTERED	PASSED	PASS%
IT5T1	UNIX	THEORY	113	113	100
IT5T2	DESIGN METHODS AND ANALYSIS OF ALGORITHMS	THEORY	113	112	99.11
IT5T3	DATA COMMUNICATIONS AND COMPUTER NETWORKS	THEORY	113	112	99.11
IT5T4	WEB TECHNOLOGIES	THEORY	113	110	97.34
IT5T5	MICROPROCESSORS AND MICRO CONTROLLERS	THEORY	113	111	98.23
IT5L1	UNIX LAB	PRACTICAL	113	113	100
IT5L2	MICROPROCESSORS AND MICRO CONTROLLERS LAB	PRACTICAL	113	111	98.23
IT5L3	WEB TECHNOLOGIES LAB	PRACTICAL	113	113	100
IT5L4	ADVANCED ENGLISH LANGUAGE COMMUNICATION SKILLS LAB	PRACTICAL	113	113	100
Total			**113**	**109**	**96.46**

III/IV B. Tech - Second Semester

SUBJECT CODE	SUBJECT NAME	TYPE	REGISTERED	PASSED	PASS%
IT6T1	SOFTWARE ENGINEERING	THEORY	113	113	100%
IT6T2	COMPUTER GRAPHICS AND ALGORITHMS	THEORY	113	113	100%
IT6T3	OBJECT ORIENTED ANALYSIS AND DESIGN	THEORY	113	111	98.23%
IT6T4	DATA MINING AND DATA WAREHOUSING	THEORY	113	113	100%
IT6T5FEB	MAT LAB PROGRAMMING AND APPLICATIONS	THEORY	65	65	100%
IT6T5FEC	INDUSTRIAL ENGINEERING & ENTREPRENEURSHIP	THEORY	48	48	100%
IT6L1	OOAD LAB	PRACTICAL	113	113	100%
IT6L2	DM LAB	PRACTICAL	113	113	100%
IT6L3	COMPUTER G RAPHICS AND ALGORITHMS LAB	PRACTICAL	113	113	100%
IT6L4	PERSONALITY DEVELOPMENT COURSE	PRACTICAL	113	113	100%
IT6L5	SEMINAR	PRACTICAL	113	113	100%
		Total	**113**	**111**	**98.23**

IV/IV B. Tech - First Semester

SUBJECT CODE	SUBJECT NAME	TYPE	REGISTERED	PASSED	PASS%
IT7T1	MANAGERIAL ECONOMICS AND FINANCIAL ACCOUNTANCY	THEORY	111	111	100
IT7T2	SOFTWARE TESTING	THEORY	111	109	98.19
IT7T3	MOBILE COMPUTING	THEORY	111	110	99.09
IT7T4	DUSTRIBUTED OBJECT TECHNOLOGIES	THEORY	111	108	97.29
IT7T5C	ELEMENTS OF SOFTWARE PROJECT MANAGEMENT	THEORY	111	111	100
IT7T6A	HUMAN COMPUTER INTERACTION	THEORY	111	110	99.09
IT7L1	MOBILE COMPUTING LAB	PRACTICAL	111	111	100
IT7L2	DISTRIBUTED OBJECT TECHNOLOGIES LAB	PRACTICAL	111	111	100
IT7L3	MINI PROJECT/TERM PAPER AND SEMINAR	PRACTICAL	111	111	100
Total			**111**	**105**	**94.59**

IV/IV B. Tech - Second Semester

SUBJECT CODE	SUBJECT NAME	TYPE	REGISTERED	PASSED	PASS%
IT8T1	BIOMETRICS	THEORY	111	111	100%
IT8T2B	BIG DATA NALYTICS	THEORY	111	111	100%
IT8T3A	ARTIFICIAL INTELLIGENCE	THEORY	111	111	100%
IT8PW	PROJECT WORK	PRACTICAL	111	111	100%
Total			**111**	**111**	**100%**

13. **Strengths:**

- Excellent pass percentage
- Strong Leadership in department to motivate students
- Teaching Learning and Retention percentage is good.

14. **Weaknesses:**

- Needs further improvement in high salary placements.
- Poor performance in GATE exam
- External R and D projects have to be improved.

15. **Suggestions for improvement:**

- Concentrate on coding skills
- Consultancy and Professional Society activities have to be improved.
- Student projects should be done in Thrust areas.

Sig. of Departmental Coordinator

Sig. of Academic Auditor

1. (Internal)

2. (Internal)

(Mr. SR Nirmalan)

3. P. A. Lakshmi

Sig. of HOD

HEAD
Information Technology Department
PRASAD V. POTLURI
SIDDHARTHA INSTITUTE OF TECHNOLOGY
KANURU, VIJAYAWADA-520 ...

Sig. of IQAC Coordinator

29/12/2020

Academic Audit Report

1. Name of Department: **Mechanical Engineering**
2. No. of full time permanent faculty: **31**(4-Professors , 5- Assoc professors , 22 -Assistant professors)
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: The curriculum is revised as per PVP-19 regulation.
6. Research:
   - Publications:
   - International Journals: **31** (13 papers are Scopus indexed, 07 papers are UGC+11 others)
   - National Journals: **Nil**
   - National Conferences: **02**
   - International Conference: **13**

   - Ph.D.
     Theses Submitted: **01**
     Awarded: **02**
     Number of Conferences/Lectures Organized: **01/13**
     Guiding: **6+4***/ guided Ph.Ds:01

7. Sponsored projects& amount:
   Applied: 05
   Ongoing: **NIL**
   Completed: 03

8. No. of Department Library Printed Books: **707**
   Web-resources CDs added : **25**
   e-Books Added: **Nil**
   Journals: **27**
9. No. of Faculty using ICT and PPTs: **31**

10. New Equipment and Infrastructure added:

S. NO	Name of the Laboratory	Name of the Equipment	COST (Rs.)
1.	Metallurgy Lab	Double Disc Polishing Machine	1,59,300/-
2.		Furnace	
3.		Jomney End Quench Apparatus	
4.	CAD Lab	UPS server	2,29,502
5.		Amplifier, Mikes, wire mike, Mouse, Ups batteries, Hp printer	39,700
6.	Machine Tool Lab – I	Digital Milling Tool Dynamometer with data acquisition board	52,510
7.	CAM Lab	Controller card for XL Mill (Industrial Type Controller)	3,39,781*

		acquisition board	
7.	CAM Lab	Controller card for XL Mill (Industrial Type Controller)	3,39,781*
		TOTAL	8,20,793

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

12. Result Analysis:

I-I

SUBJECT CODE	SUBJECT NAME	TYPE	REGSTERED	PASSED	PASS %
19HS1101	Communicative English I	THEORY	94	94	100
19BS1101	Engineering Mathematics I	THEORY	94	49	52
19BS1102	Chemistry of Materials	THEORY	94	60	64
19ES1102	Problem Solving and Programming	THEORY	94	47	50
19HS1151	Communicative English Lab	PRACTICAL	94	94	100
19BS1151	Chemistry of Materials	PRACTICAL	94	94	100
19ES1152	Problem Solving and Programming	PRACTICAL	94	94	100
19ES1153	Basic Workshop	PRACTICAL	94	94	100
		TOTAL		31	32.97

I-II

SUBJECT CODE	SUBJECT NAME	TYPE	REGSTERED	PASSED	PASS %
ME2T1	Engineering Mathematics-II	THEORY	AWAITING		
ME2T2	Professional Ethics	THEORY			
ME2T3	Engineering Chemistry	THEORY			
ME2T4	Engineering Mechanics-II	THEORY			
ME2T5	Basic Electrical and Electronics Engineering	THEORY			
ME2T6	C Programming	THEORY			
ME2L1	Engineering Chemistry Lab	PRACTICAL			
ME2L2	English Language Communication Skills Lab	PRACTICAL			
ME2L3	C Programming Lab	PRACTICAL			
TOTAL					

II-I

SUBJECT CODE	SUBJECT NAME	TYPE	REGSTERED	PASSED	PASS %
ME3T1	Numerical & Statistical Methods	THEORY	126	110	87
ME3T2	Basic Thermodynamics	THEORY	126	95	75
ME3T3	Fluid Mechanics &Hydraulic Machines	THEORY	126	110	87
ME3T4	Metallurgy & Material Science	THEORY	126	76	60
ME3T5	Mechanics of Solids – I	THEORY	126	95	75
ME3T6	Engineering Economics	THEORY	126	99	79
ME3L1	Fluid Mechanics & Hydraulic Machines Lab	PRACTICAL	126	124	98
ME3L2	Mechanics of Solids & Metallurgy Lab	PRACTICAL	126	125	99
		TOTAL		64	50.79

II-II

SUBJECT CODE	SUBJECT NAME	TYPE	REGSTERED	PASSED	PASS %
ME4T1	Mechanics of Solids –II	THEORY	126	96	76
ME4T2	Applied Thermodynamics	THEORY	126	109	87
ME4T3	IC Engines and Gas Turbines	THEORY	126	113	90
ME4T4	Kinematics of Machinery	THEORY	126	105	83
ME4T5	Production Technology	THEORY	126	112	89
ME4L1	Computer Aided Machine Drawing Practice	PRACTICAL	126	126	95
ME4L2	Production Technology Lab	THEORY	126	124	98
ME4L3	Electrical And Electronics Engineering Lab	PRACTICAL	126	126	100
		TOTAL		80	93.5

III-I

SUBJECT CODE	SUBJECT NAME	TYPE	REGSTERED	PASSED	PASS %
ME5T1	Dynamics of Machinery	THEORY	146	118	81
ME5T2	Metal Cutting & Machine Tools	THEORY	146	140	96
ME5T3	Heat Transfer	THEORY	146	127	87
ME5T4	Engineering Metrology	THEORY	146	114	78
ME5T5	Design of Machine Members – I	THEORY	146	128	88
ME5T6	CAD/CAM	THEORY	146	132	90
ME5L1	Fuels & IC Engines Lab	PRACTICAL	146	146	100
ME5L2	Metrology & Machine Tools Lab	PRACTICAL	146	145	99
ME5L3	CAD/CAM Lab	PRACTICAL	146	146	100
TOTAL				95	65.1

III-II

SUBJECT CODE	SUBJECT NAME	TYPE	REGSTERED	PASSED	PASS %
ME6T1	Mechanical Measurements	THEORY	146	134	92
ME6T2	Design of Machine Members - II	THEORY	146	142	97
ME6T3	Operations Research	THEORY	146	126	86
ME6T4	Refrigeration & Air Conditioning	THEORY	146	132	90
ME6T5	Industrial Engineering & Management	THEORY	146	139	95
ME6T6FE-A	Air Pollution & Control	THEORY	30	28	93
ME6T6FE-E	Microcontrollers	THEORY	9	9	100
ME6T6FE-F	Introduction to MATLAB	THEORY	16	15	93
ME6T6FE-G	OOPS Through JAVA	THEORY	31	27	87
ME6T6FE-H	Renewable Energy Sources	THEORY	59	57	97
ME6T6FE-I	Digital Image Processing	THEORY	1	1	100
ME6L1	Metrology & Instrumentation Lab	PRACTICAL	146	146	100
ME6L2	Heat Transfer Lab	PRACTICAL	146	146	100
		TOTAL		119	81.5

IV-I

SUBJECT CODE	SUBJECT NAME	TYPE	REGSTERED	PASSED	PASS %
ME7T1	Mechatronics	THEORY	130	118	91
ME7T2	Production Planning and Control	THEORY	130	127	98
ME7T3	Finite Element Methods	THEORY	130	112	86
ME7T4C	Mechanical Vibrations	THEORY	130	125	96
ME7T5B	Advanced Machining Processes	THEORY	130	125	96
ME7L1	Simulation Lab	PRACTICAL	130	128	98
ME7L2	Machine Dynamics Lab	PRACTICAL	130	129	99
ME7L3	Mini Project	PRACTICAL	130	130	100
ME7L4	Seminar	PRACTICAL	130	130	100
		TOTAL		108	80.8

-II

SUBJECT CODE	SUBJECT NAME	TYPE	REGSTERED	PASSED	PASS %
ME8T1	Power Plant Engineering	THEORY	129	125	97
ME8T2B	Automation in Manufacturing	THEORY	129	116	90
ME8T3B	Automobile Engineering	THEORY	129	113	88
ME8L1	CAD/CAM Lab	PRACTICAL	129	129	100
ME8PW	Project Work	PRACTICAL	129	129	100
	TOTAL			105	81.4

13. **Strengths:**

1. Student teacher ratio is good.
2. Faculty retention and experience are good.
3. Student activities and training activities are good.
4. Compared last academic year number of placements and average package improved.
5. Feedback mechanism and its follow-up action are good.
6. 13 MoU's with industries.
7. Labs are equipped with latest equipment
8. 2 patents are awarded and 6 were registered.
9. All the faculty are using ICT.
10. Model and research-based student projects are evident.
11. Faculty guiding good number of PhD students.

14. **Weaknesses:**

1. Focus on student higher studies and career guidance need to be improved.
2. Funded R&D projects and consultancy need to be improved.

15. **Suggestions for improvement:**

1. More focus need to be placed on industry interaction.
2. Focus on R&D projects and more research publications in SCI/Scopus Journals
3. Pass percentage need to be improved with more focus on weak students.
4. Placement in core companies may be improved.

E. Kavitha

g. of Departmental Coordinator

Sig. of Academic Auditor

1. (Internal)

2. (Internal)

(Mr. S. R. Nagendra Kumar)

3. P. Adi Lakshmi

Sig. of HOD

HEAD
Mechanical Engineering Department
PRASAD V. POTLURI
SIDDHARTHA INSTITUTE OF TECHNOLOGY
KANURU, VIJAYAWADA-520 007.

Sig. of IQAC Coordinator