Sri Vasavi Institute of Engineering and Technology

(**Approved by AICTE, New Delhi and affiliated to JNTUK, Kakinada)**
Nandamuru, Pedana, Krishna Dt., Andhra Pradesh
www.sviet.edu.in

... Empowering Minds

Department of Mechanical Engineering

Self Assessment Report

B.Tech in Mechanicsl Engineering
Submitted to

NATIONAL BOARD OF ACCREDITATION
4th Floor, East Tower, NBCC Place
Bhisham Pitamah MArg Pragati Vihar
New Delhi- 110003, INDIA
January -2019

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PART A: Institutional Information

1. **Name and Address of the Institution:**

   Sri Vasavi Institute of Engineering and Technology

   Nandamuru, Pedana Mandal, Krishna District – 521369, Andhra Pradesh

2. **Name and Address of the Affiliating University:**

   Jawaharlal Nehru Technological University, Kakinada (JNTUK)

   Kakinada – 533003 .

3. **Year of establishment of the Institution:** 2008

4. **Type of Institution:**

University:	☐
Deemed University:	☐
Government Aided:	☐
Autonomous:	☐
Affiliated:	☑

5. **Ownership Status:**

Central Government:	☐
State Government:	☐
Government Aided:	☐
Self-Financing:	☑
Trust:	☐
Society	☑
Section 25 Company	☐
Any other (Please specify)	☐

Provide Details: Sri Vasavi Educational Society, Door No. 7/264, Godugupet, Machilipatnam

6. **Other Academic Institutions of the Trust/ Society/Company etc., If any: No**

***Table A.6* Note: Add rows as needed.**

7. Details of all the programs being offered by the institution under consideration:

S.No.	Program Name	Name of the Department	Year of Start	Intake	Increase in Intake, if any	Year of Increase	AICTE Approval	Accreditation Status*
1	B.Tech	Computer Science and Engineering	2008	60	60	2010	1-4279961/2010/ EOA dated 23-08-2010	Applying first time
2	B.Tech	Electronics and Communication Engineering	2008	60	60	2009	1-4/2009-TS-II dated 12-08-09	Applying first time
3	B.Tech	Mechanical Engineering	2010	60				Applying first time
4	B.Tech	Civil Engineering	2009	60				Eligible but not applied
5	B.Tech	Electrical and Electronics Engineering	2008	60				Eligible but not applied
6	M.Tech	Computer Science and Engineering (CSE)	2012	18				Eligible but not applied
7	M.Tech	ECE (VLSI System Design)	2012	18				Eligible but not applied

Table A.7

****write applicable one:***

- ***Applying first time***
- ***Granted provisional accreditation for two/ three years for the period (specify period)***
- ***Granted accreditation for 5/6 years for the period (specify period)***
- ***Not accredited (specify visit dates, year)***
- ***Withdrawn (specify visit dates, year)***
- ***Not eligible for accreditation***
- ***Eligible but not applied***

8. Programs to be considered for accreditation vide this application:

S. No.	*Program Name*
1	UG-B.Tech (Computer Science &Engineering)
2	UG-B.Tech(Electronics &Communication Engineering)
3	UG-B.Tech (Mechanical Engineering)

Table A.8

9. Total number of employees in the institution:

A. Regular Employees (faculty and staff):

Items		CAY		CAYm1		CAYm2	
		Min	Max	Min	Max	Min	Max
Faculty in Engineering	M	60	64	62	70	66	72
	F	14	17	15	19	12	16
Faculty in Math's, Science & Humanities	M	20	22	18	23	18	23
	F	3	4	4	6	4	7
Non- teaching staff	M	77	81	87	89	87	91
	F	15	17	12	14	10	12

Table A.9a

Note: Minimum 75% should be Regular/Full time faculty and the remaining shall be contractual faculty as per AICTE norms and standards.

The contractual faculty (doing away with the terminology of visiting/adjunct faculty, whatsoever) who have taught for 2 consecutive semesters in the corresponding academic year on full time basis shall be considered for the purpose of calculation in the student faculty ratio

CAY – Current Academic Year

CAYm1 – Current Academic Year minus 1 = Current Assessment Year

CAYm2 – Current Academic Year minus 2 = Current Assessment Year minus 1

B. Contractual Staff Employees (Faculty and Staff): (Not covered in Table A): NIL

Items		CAY		CAYm1		CAYm2	
		Min	Max	Min	Max	Min	Max
Faculty in Engineering	M	-	-	-	-	-	-
	F	-	-	-	-	-	-
Faculty in Math's, Science & Humanities	M	-	-	-	-	-	-
	F	-	-	-	-	-	-
Non- teaching staff	M	-	-	-	-	-	-
	F	-	-	-	-	-	-

Table A.9b

10. Total number of Engineering Students:

A: UG

Item	CAY 2018-19	CAYm1 2017-18	CAYm2 2016-17
Total no. of boys	669	746	777
Total no. of girls	641	675	725
Total no. of students	1310	1421	1502

Table A.10

CRITERION 1	Vision, Mission and Program Educational Objectives	60

1. VISION, MISSION AND PROGRAM EDUCATIONAL OBJECTIVES (60)

1.1 State the Vision and Mission of the Institute and Department (5)

INSTITUTE VISION

To emerge as a premier engineering institution in rural India imparting values based education for socio-economic upliftment

INSTITUTE MISSION

IM1: Provide the most creative learning environment for Technical Excellence of stake holders

IM2: Promotes industry- institute interaction for skill enhancement and to meet the industry needs

IM3: Create an environment to the stake holders to be good citizens with integrity and morality

IM4: Committed to improve technical excellence, ethical values continuously

DEPARTMENT VISION

To become a global knowledge hub of mechanical engineering fulfilling the industry and society needs with ethical practices.

DEPARTMENT MISSION

DM1: Provide quality education for global requirements.

DM2: Improve pedagogical methods employed in delivering the academic programmes.

DM3: Enhance the knowledge, skill by industry- institution interaction

DM4: Cultivate the spirit of entrepreneurship with the sense of ethical, professional responsibility.

1.2 State the Program Educational Objectives (PEOs) (5)

Graduates of Mechanical Engineering will be able to

PEO1: Get good job opportunities or pursue higher studies

PEO2: Exercise latest techniques to get solutions to industrial/engineering problems.

PEO3: Gain the knowledge of other fields of engineering continuously to grab more opportunities

PEO4: Establish as entrepreneurs with continuously leaning, professionalism, managerial skills, social responsibilities and ethical practices.

1.3 Indicate where the Vision, Mission and PEOs are published and disseminated among stakeholders (10)

a. Display of V/M/PEO

The V/M/PEO are displayed in

- College website
- Class rooms
- Staff rooms
- Corridors
- Broachers
- Manuals
- Handouts
- Course files
- Laboratories
- Magazines

b. Dissemination of V/M/PEO

Alumni
During orientation
Annual meeting reports by Principal
Drives

1.4 State the process for defining the Vision and Mission of the department, and PEOs of the program (25)

(Articulate the process for defining the vision and mission of the department and PEOs of the program)

1.4.1 The process involved in defining the Vision, Mission of the Department

- .

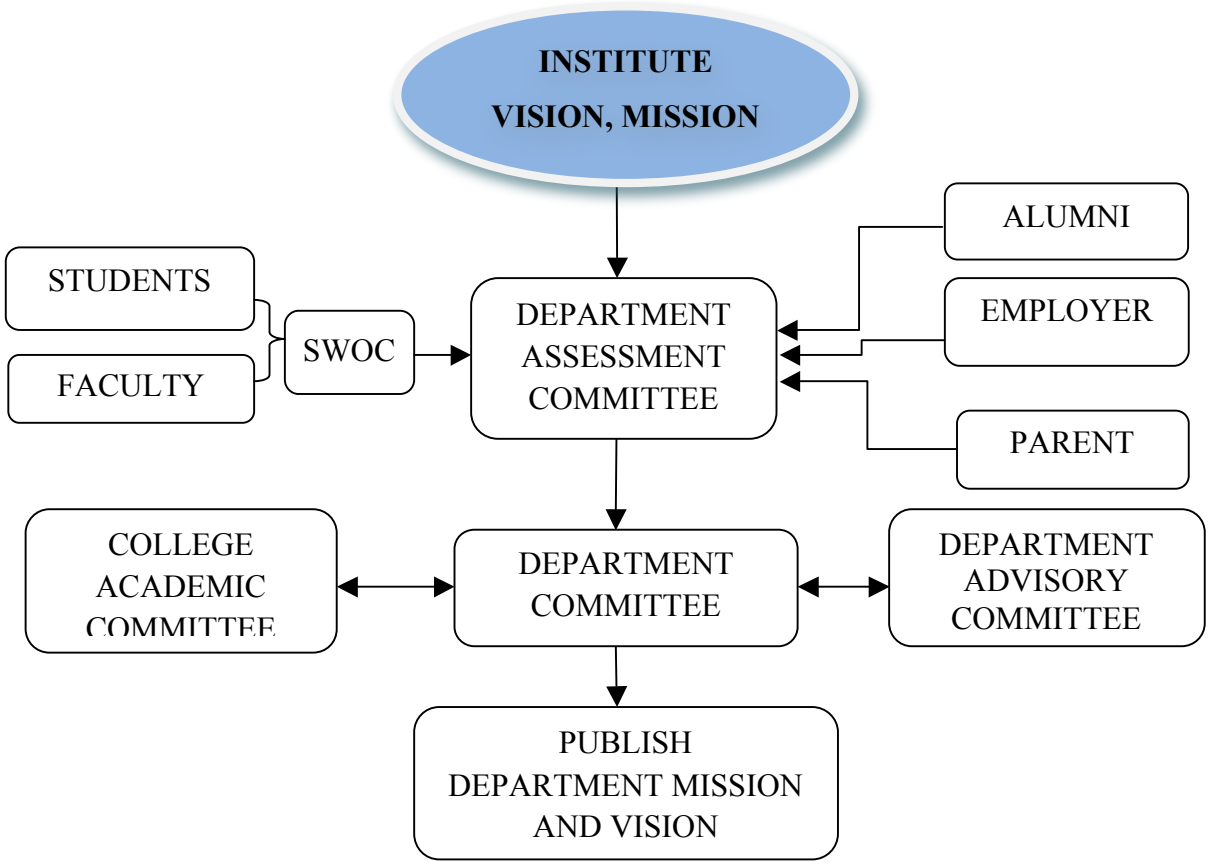


Fig. Flowchart representing the process for defining Department Mission, Vision

- Head of the departments collected SWOC Analysis from all the staff members
- Class teachers collected SWOC Analysis from students
- HOD collect SWOC Analysis from industrial perons who had MoU with Institution / Department
- Alumni Incharge staff member collected SWOC Analysis from Alumni
- Class teachers collected SWOC Analysis from parents
- Department committee consolidated all the SWOC Analysis repors and derived the Mission of the department based on Institute Mission

1.5 Establish consistency of PEOs with mission of the department (15)

Graduates of mechanical Engineering will be able to

PEO Statements	DM1	DM2	DM3	DM4
PEO1: Get good job opportunities or pursue higher studies	3	-	3	-
PEO2: Exercise latest techniques to get solutions to industrial/engineering problems.	-	3	3	-
PEO3: Gain the knowledge of other fields of engineering continuously to grab more opportunities	3	2	-	1
PEO4: Establish as entrepreneurs with continuously leaning, professionalism, managerial skills, social responsibilities and ethical practices.	-	-	2	3

PO/PEO Mapping

PO / PEO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
PEO 1	3											
PEO 2	3		3		3							
PEO 3	3	3										2
PEO 4						2		2				3

1: Slight (Low) 2: Moderate (Medium) 3: Substantial (High) If there is no correlation, put "-".

1.a Department Mission mapping with institution Mission

	IM1	IM2	IM3	IM4
DM1	3			2
DM2	3			
DM3		3		
DM4			3	3

1.b Justification Table

	IM1	IM2	IM3	IM4
DM1	Improve technical excellence			Quality education improves technical excellence
DM2	Pedagogical methods improve technical excellence			
DM3		Institute industry interaction		
DM4			Good citizen	Ethical values

2. PEO mappings with graduate Accomplishments

PEO/GA	GA1	GA2	GA3	GA4	GA5
PEO1	3	3			
PEO2		3	2		
PEO3	3		2	1	3
PEO4				3	3

3. PEO mapping with DM

PEO/DM	DM1	DM2	DM3	DM4
PEO1	3		3	
PEO2		3	3	
PEO3	3	2		1
PEO4			2	3

JUSTIFICATION

PEO/DM	DM1	DM2	DM3	DM4
PEO1	Quality education provides good opportunities		Knowledge and skill mapped to good job opportunities	
PEO2		Pedagogical methods mapped to latest techniques	latest methods mapped to gain of knowledge	
PEO3	Quality education provides good knowledge	Pedagogical methods moderately mapped to gain of knowledge		Other fields of engineering knowledge slightly mapped to spirit of entrepreneurship
PEO4			Enhance the knowledge is moderately mapped to continuous learning	Spirit of entrepreneurship is mapped to continuous learning

CRITERION 2	Program Curriculum and Teaching – Learning Processes	120

2. PROGRAM CURRICULUM AND TEACHING - LEARNING PROCESSES (120)

2.1 Program Curriculum (20)

2.1.1 State the process used to identify extent of compliance of the University curriculum for attaining the Program Outcomes and Program Specific Outcomes as mentioned in Annexure I. Also mention the identified curricular gaps, if any (10)

Sri Vasavi Institute of Engineering and Technology is affiliated to JNTU Kakinada and the curriculum given by university is as below:

MECHANICAL ENGINEERING

I Year – I SEMESTER

S. No.	Subject	L	T	P	Credits
1	English – I	4	--	--	3
2	Mathematics - I	4	--	--	3
3	Engineering Chemistry	4	--	--	3
4	Engineering Mechanics	4	--	--	3
5	Computer Programming	4	--	--	3
6	Environmental Studies	4	--	--	3
7	Engineering /Applied Chemistry Laboratory	-	--	3	2
8	English - Communication Skills Lab - I	-	--	3	2
9	Computer Programming Lab	-	--	3	2
Total Credits					24

I Year – II SEMESTER

S. No.	Subject	L	T	P	Credits
1	English – II	4	--	--	3
2	Mathematics – II (Mathematical Methods)	4	--	--	3
3	Mathematics – III	4	--	--	3
4	Engineering Physics	4	--	--	3
5	Basic Electrical and Electronics Engineering	4	--	--	3
6	Engineering Drawing	4	--	--	3
7	English - Communication Skills Lab - II	--	--	3	2
8	Engineering/Applied Physics Lab	--	--	3	2
9	Engineering/Applied Physics – Virtual Labs - Assignments	--	--	2	--

10	Engg.Workshop & IT Workshop	--	--	3	2
Total Credits					**24**

II YEAR I SEMESTER

S. No.	Subject	L	T	P	Credits
1	Metallurgy & Materials Science	4	--	--	3
2	Mechanics of Solids	4	--	--	3
3	Thermodynamics	4	--	--	3
4	Managerial Economics & Financial Analysis	4	--	--	3
5	Fluid Mechanics & Hydraulic Machines	4	--	--	3
6	Computer Aided Engineering Drawing Practice	3	3	--	3
7	Electrical & Electronics Engg. Lab	--	--	3	2
8	Mechanics of Solids & Metallurgy lab	--	--	3	2
Total Credits					22

II YEAR II SEMESTER

S. No.	Subject	L	T	P	Credits
1	Kinematics of Machinery	4	--	--	3
2	Thermal Engineering -I	4	--	--	3
3	Production Technology	4	--	--	3
4	Design of Machine Members-I	4	--	--	3
5	Machine Drawing	3	3	--	3
6	Industrial Engineering and Management	4	--	--	3
7	Fluid mechanics & Hydraulic machinery Lab	--	--	3	2
8	Production Technology Lab	--	--	3	2
Total Credits					22

III YEAR I SEMESTER

S. No.	Subject	T	P	Credits
1	Dynamics of Machinery	3+1*		3
2	Metal Cutting & Machine Tools	3+1*		3
3	Design of Machine Members–I	3+1*		3
4	Instrumentation & Control Systems	3+1*		3
5	Thermal Engineering -II	3+1*		3
6	Metrology	3+1*		3
7	Metrology & Instrumentation Lab		3	2
8	Machine Tools Lab		3	2
9	IPR & Patents		3	2
Total Credits				24

III YEAR II SEMESTER

S. No.	Subject	T	P	Credits

1	Operations Research	3+1*		3
2	Interactive Computer Graphics	3+1*		3
3	Design of Machine Members– II	3+1*		3
4	Robotics	3+1*		3
5	Heat Transfer	3+1*		3
6	Industrial Engineering Management	3+1*		3
7	Departmental Elective – I	3+1*		3
8	Heat Transfer Lab		3	2
Total Credits				23

IV Year – I SEMESTER

S. No.	Subject	T	P	Credits
1	Automobile Engineering	3+1*		3
2	CAD/CAM	3+1*		3
3	Finite Element Methods	3+1*		3
4	Unconventional Machining Processes	3+1*		3
5	Open Elective	3+1*		3
6	Departmental Elective – II	3+1*		3
7	Simulation Lab		3	2
8	Design/Fabrication Project		2	1
Total Credits				21

IV Year – II SEMESTER

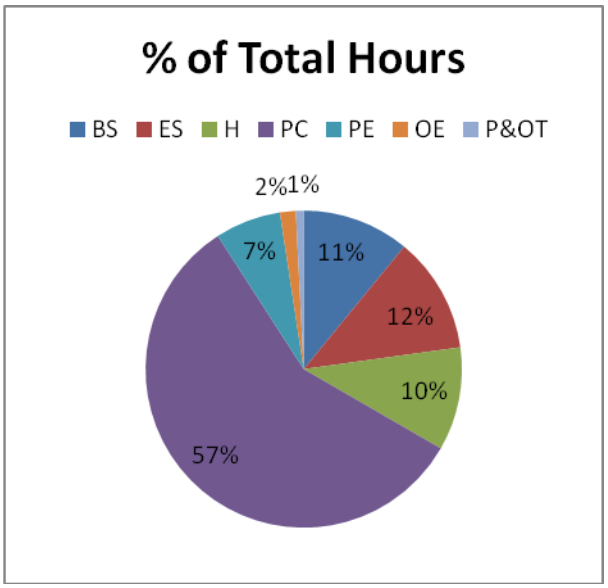
S. No.	Subject	T	P	Credits
1	Production Planning and Control	3+1*		3
2	Green Engineering Systems	3+1*		3
3	Departmental Elective – III	3+1*		3
4	Departmental Elective – IV	3+1*		3
5	Project Work			9
Total Credits				21

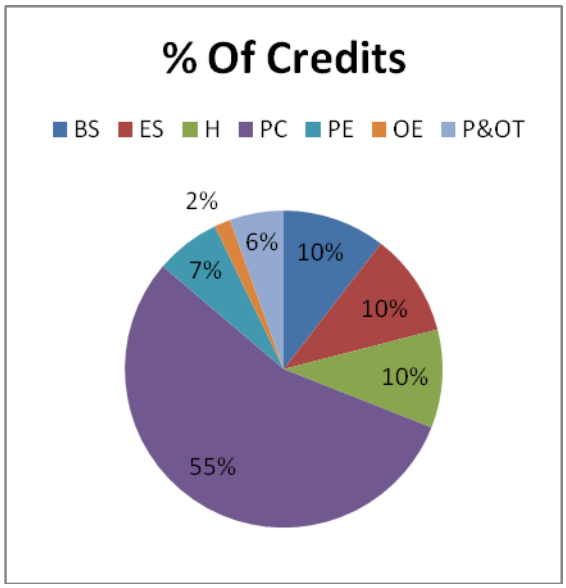
Total Course Credits = 48+44+ 47 + 42 = 18

Analysis Sheet

Type of course	**LH**	**Percentage of LH**	**P**	**Percentage of P**	**No.of hours**	**Percentage of hours**	**Credits**	**Percentage of Credits**
Basic Sciences (BS)	20	11.36	6	9.83	26	10.9	19	10.49
Engineering Sciences (ES)	20	11.36	8	13.11	28	11.8	19	10.49
Humanities and	16	9.09	9	14.75	25	10.5	18	9.99

socialsciences(H)								
Professional Core (PC)	100	56.81	36	59.01	136	57.3	100	55.2
Professional Elective (PE)	16	9.09	0	0	16	6.7	12	6.63
Open Elective (OE)	4	2.27	0	0	4	1.6	3	1.65
Project & OT	0	0	2	3.27	2	0.8	10	5.52



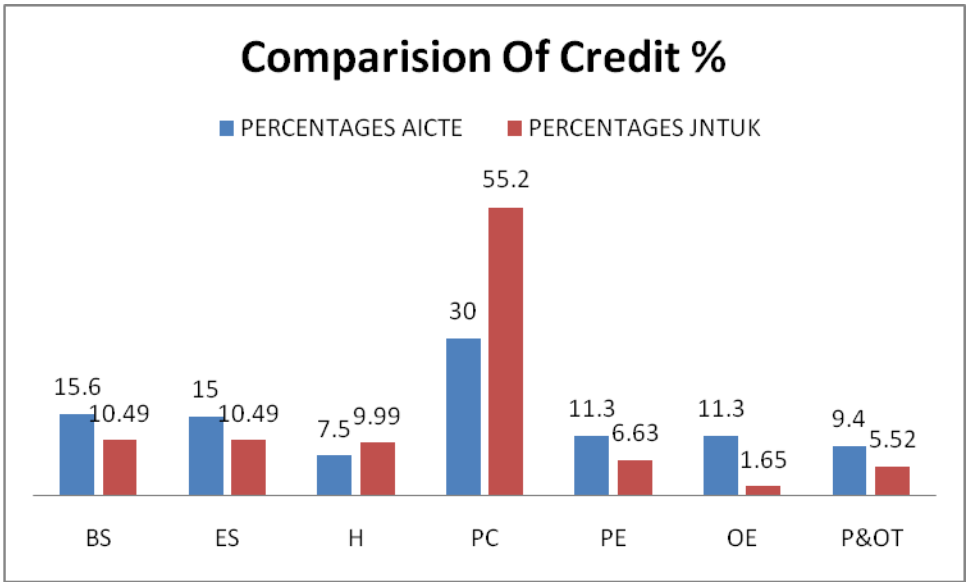


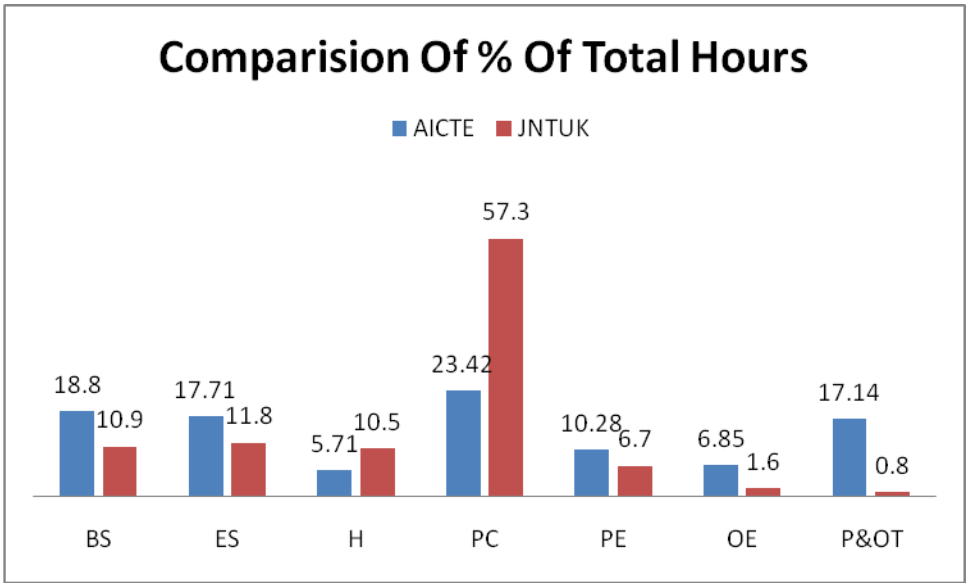
		JNTU K Curriculum					AICTE Curriculum				
Sl.No.	**Course Type**	**No. of subjects**	**No.Of Hours**	**% Of Hours**	**Credits (181)**	**Credits in %**	**No of subjects**	**No.Of Hours**	**% Of Hours**	**AICTE Credits (160)**	**AICTE Credits in %**
1	Basic Sciences (BS)	7	26	10.9	19	10.49	7	33	18.8	25	15.6
2	Engineering Sciences (ES)	8	28	11.8	19	10.49	6	31	17.71	24	15.0
3	Humanities and socialsciences(H)	7	25	10.5	18	9.99	3	10	5.71	12	7.5
4	Professional Core (PC)	36	136	57.3	100	55.2	16	41	23.42	48	30.0
5	Professional Elective (PE)	4	16	6.7	12	6.63	6	18	10.28	18	11.3

6	Open Elective (OE)	1	4	1.6	3	1.65	4	12	6.85	18	11.3
7	Project & OT	2	2	0.8	10	5.52	4	30	17.14	15	9.4
		65	237	100	181	100	46	175	100	160	100

Comparison table for JNTU K Curriculum with AICTE Curriculum

S.NO	ITEM	COURSES	PERCENTAGES		
			AICTE	JNTUK	VARIATION IN %
1	TOTAL HOURS	BS	18.8	10.9	7.9
2		ES	17.71	11.8	5.91
3		H	5.71	10.5	JNTUK IS HIGHER
4		PC	23.42	57.3	JNTUK IS HIGHER
5		PE	10.28	6.7	3.58
6		OE	6.85	1.6	5.25
7		P&OT	17.14	0.8	16.34



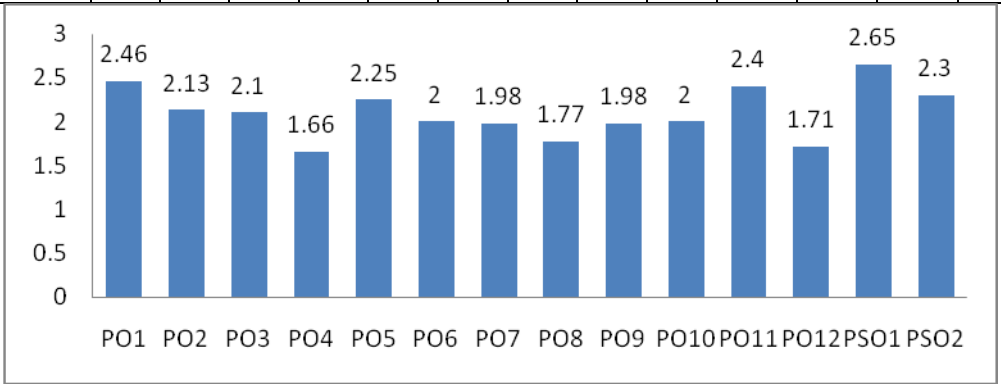


GAP-Variation in Percentages for AICTE and JNTUK for Credits, Total Hours are with in less than 10% except the total hours for Projects
Action Taken: Project Classes are Planned in the Time Table everyday

Pos/PSOs Of all Courses:

Category Wise CO's mapped		
Category	**PO's Mapped**	**Pso's**
Basic Sciences	PO1,PO2,PO3,PO5,PO6,PO7,PO8,PO9,PO10,PO12	PSO1,PSO2
Humanities	PO1,PO2,PO3,PO4,PO5,PO6,PO7,PO8,PO9,PO11,PO12	PSO1,PSO2
Engineering Sciences & Inter displinary	PO1,PO2,PO3,PO4,PO5,PO6,PO7,PO9,PO11,PO12	PSO1,PSO2
Professional Core	PO1,PO2,PO3,PO4,PO5,PO6,PO7,PO10,PO12	PSO1,PSO2
Professional Elective	PO1,PO2,PO3,PO4,PO5,PO7 ,PO11,PO12	PSO1,PSO2
Open Elective	PO1,PO2,PO7	PSO1,PSO2
Project & Other(OT)	PO1,PO2,PO3,PO4,PO5,PO6,PO7,PO8,PO9,PO10,PO11,PO12	PSO1,PSO2

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO1 0	PO1 1	PO1 2	PSO 1	PSO 2
Curriculum Mapping	2.46	2.13	2.10	1.66	2.25	2	1.98	1.77	1.98	2	2.4	1.71	2.65	2.30



Additional activities conducted to strengthen the mapping:

S.NO	ACTION TAKEN	DATE	Area of Learning	POs	PSOs
1	Industry Visit to Kumar Pumps	23/12/2017	Production	PO:4,6,7,9,10,12	PSO1,PSO2
2	Industry visit to NTTPS	09/02/2018	Thermal	PO:6,7,9,10,12	PSO1,PSO2
3	Non Destructive Testing	4th , 5th September 2017	VIDAL – NDT	PO:4,6,7,8,9,10, 12	PSO1,PSO2
4	Automobile & Ic Engine Design	4th , 5th January 2018	Entrench Electronics	PO:4,6,7,8,9,10, 12	PSO1,PSO2
5	Mechanical Vibrationals	28th August 2017	Dr. Meera Saheb, JNTU	PO:4,6,7,8,9,10, 12	PSO1,PSO2

Technical Events

S.No	Name Of the Event	Date	Relevance to PO's
1	Paper Presentation	24th January2018	PO4,PO6,PO7,PO9,PO10,PO12
2	Poster Presentation	27th January2018	PO4,PO6,PO7,PO9,PO10,PO12
3	Project Expo	30thJanuary 2018	PO2,PO4,PO6,PO7,PO9,PO10,PO12
4	Workshops	4th ,5th January 2018	PO3,PO5,PO6,PO9
5	Quiz	4th February 2018	PO9,PO12

Prominent Days

S.No	Name Of the Event	Date	Relevance to PO's
1	Youth day	12/01/2018	PO6,PO9,PO10
2	Teachers Day	05/09/2017	PO6,PO9,PO10
3	Engineers Day	15/09/2017	PO6,PO9,PO10
4	Fresher's Day	19/06/2017	PO6,PO9,PO10
5	Farewell Day	04/03/2018	PO6,PO9,PO10
6	Annual Day	10/03/2018	PO6,PO9,PO10

Semester Wise Gaps Identified List

Academic Year::2018-19

2017-18 I SEMESTER

Gap	Gap Identified	CO	PO	PSO
G1	Properties of Materials	C211.1	PO2	PSO1
G2	Mechanical & Technological properties of engineering	C212.1	PO5	PSO1
G3	Homogeneous and heterogeneous system	C213.1	PO12	PSO1
G4	Describe the basic concepts of economics	C214.1	PO5	PSO1
G5	Navier- Stokes equation	C215.2	PO1	PSO1
G6	Dynamic Force Analysis of other mechanisms besides slider crank mechanism	C311.1	PO2	PSO1
G7	Bar feeding mechanism	C312 .2	PO2	PSO1
G8	Analysis of belt tension. Belt conveyors are important MHSs. Design concept is important.	C313.4	PO2	PSO1
G9	Economizers systems	C315.4	PO7	PSO1
G10	Recent and emerging trends in Casting	C316.1	PO6,PO12	PSO1
G11	Assembly and Disassembly of four stroke petrol engine This topic is required for engine servicing	C411.6	PO12	PSO1
G12	Lab session on CATIA-V5	C412 .2	PO3	PSO2
G13	Shape functions for higher order elements	C413.5	PO3,11	PSO1
G14	MRR in chemical machining processes	C414.2	PO4	PSO1
G15	Recent applications in Nano technology	C415.6	PO12	PSO1
G16	Programmable Logic Controllers & Numerical Control.	C416.2	PO6	PSO2

2017-2018 II SEMESTER

Gap	Gap Identified	CO	PO	PSO
G1	Explanation of worm and worm gears	C221.5	PO3	PSO1
G2	Exhaust emission analyzers To analyze the percentage of exhaust emissions	C222.2	PO7	PSO1
G3	Recent and emerging trends in Casting - Student should know about the current	C223.1	PO6,PO12	PSO2
G4	Analysis of belt tension. Belt conveyors are important MHSs. Design concept is important.	C224.4	PO2	PSO1
G5	The difference between production and machine drawing	C225.6	PO1	PSO1
G6	Parato analysis	C226.4	PO2	PSO1
G7	Practical Exposure of Animation techniques are required	C322.6	PO3	PSO1
G8	Different applications of Bearings and types. For having idea about various applications of bearings.	C323 .1	PO12	PSO1
G9	Problems on Actuators -By this the student will be able to calculate the force to be given by the actuator	C324 .2	PO3	PSO1
G10	Effect of contact resistance on temperature and heat transfer in coduction	C325.1	PO3	PSO1
G11	Parato analysis	C326.4	PO2	PSO1
G12	Design of VCR components	C327.3	PO3	PSO1
G13	Production estimation and costing models	C421.1	PO2	PSO1
G14	Water supply and treatment.	C422.3	PO2, PO6	PSO1
G15	Difference between Testing and Non destructive Testing	C424.1	PO1	PSO1

2.1.2 State the delivery details of the content beyond the syllabus for the attainment of POs and PSOs (10)

(Provide details of the additional course/learning material/content/laboratory Experiments / projects etc., arising from the gaps identified in 2.1.1 in a tabular form in the format given below

2017-2018 I SEMESTER

Gap	Action Taken	Date	Resource Person with Designation	% of students	PO's	PSO'S
G1	Lecture on Environmental Friendly Composites and their application	28-09-2018	K.Vidya Associate Professor Usha Rama College of Engg,Vijayawada	76	PO12	PSO2
G2	Lecture on Mechanical & Technological properties of engineering materials.	28-07-2017	Dr.B.Amar Nagendram, Professor,DMSSVHCE,Machilipatnam.	70%	PO5	PSO1
G3	Lecture on Factors effecting on performance of vcr cycle	3-10-18	Dr. M R CH SASTRY Professor, Gudlavalleru Engg College,Gudlavalleru	84	PO4	PSO2
G4	Lecture on concept of supply	24-10-17	Y.Priya sagar Asst professor,DIET, Vijayawada	85%	PO5	PSO1
G5	Lecture on Air vessels in reciprocating pump.	14-9-18	Dr.M.Srinivas Prof ,Helapuri Engineering college,West Godavari	80	2,3	PSO1
G6	Lecture on Mechnical Vibrations	25-08-2017	Dr.K.Srinivasu Professor R.V.R & J.c College of Engineering,Guntur	80	PO6,PO12	PSO1
G7	Lecture on Milling attachments	25-08-17	K. VIDYA , ASSOCIATE PROFESSOR, URCE,Vijayawada	82	PO4	PSO1
G8	Lecture on Torque transmitting capacity of clutch	20-10-17	Dr.A.Kiran Kumar Prof,DIET,Vijayawada	91	1,2,3	PSO1
G9	Field Visit	15-07-2017	VTPS, Vijayawada	80	PO3	PSO2
G10	Lecture on Recent and emerging trends in Casting	12-12-2017	Dr.B.A.Nagendram, Professor, DMSSVHCE, Machilipatnam	80	PO6,PO12	PSO1
G11	Conducted workshop on Automobile And IC engines	04,05-01-2018	T. Rakesh Sharma, Entrench Electronics	70	PO12	PSO2

G12	Lecture on Flexible manufacturing system	16-10-2017	Dr.J.A.suresh Professor HOD Amruth sai Engg College,Paritala	85	PO12	PSO1
G13	Lecture on Conversion of differential equation into functional for complex problems to apply Ritz method	03-07-2017	Prof. Kolla Srinivas,R.V.R & J.C College Of Engg,Guntur	89	PO2	PSO2
G14	Lecture on Tool Design in EDM	31-07-2017	Dr. J. S. Sampath Kumar HOD Amrita Sai Institute of science & Technology,Paritala	86.88	PO3	PSO1
G15	Lecture on Recent and emerging applications of Automation	28-06-2017	Dr.T.Nancharaiah Professor, ME Dept, Bapatla Engg. College,Bapatla	83	PO6	PSO1

2017-2018 II SEMESTER

Gap	Action Taken	Date	Resource Person with Designation	% of students	PO's	PSO'S
G1	Lecture on Mechanical advantage and transmission angle of mechanisms	27-12-17	Prof.K.Srinivas, RVRJC, Guntur	86	PO4,PO5	PSO1
G2	Lecture on Modern rocket engines	01-02-2018	Dr.P.Prashanthi Professor PVP Siddhartha Engineering college	90	PO12	PSO1
G3	Recent and emerging trends in Casting	12-12-2017	Dr.B.A.Nagendram, Professor, DMSSVHCE, Machilipatnam	80	PO6	PSO2
G4	Lecture on Torque transmitting capacity of clutch	16-2-18	Dr. A. Kiran Kumar Prof, DIET, Viajaywada	87	1,2,3	PSO1
G5	Software's used in industries for assembly drawings	14-12-17	T.Vijaya Bhanu CAD Solutions Vijayawada	78	PO5, PO12	PSO1

G6	Lecture on Standard deviation,,Variance & Probability of completion of Project	4-03-2018	P.NAGARAJU, Associate Professor, NRI College of Engg	74	PO11	PSO2
G7	Taken a practical session to explain Line ,Circle Drawing algorithms	18-12-17	S.Sundeep Saradhi,LBRCE, Mylavaram	88	PO3	PSO1
G8	Lecture on Design of Bevel Gears	15-11-2017	B.Suresh Babu Ramachandra College of Engineering,Eluru	89	PO9	PSO1
G9	Conducted a lab session on designing of Robot arm	28-01-2018	Mr. P. Ajay Kumar	78	PO5	PSO2
G10	Conduction of Heat transfer in 2-dimensions	29-12-2017	Dr.N.Seshaiah, PBR VITS,Kavali, Nellore district	83	PO4,5	PSO2
G11	Lecture on Standard deviation,,Variance & Probability of completion of Project	4-03-2018	P.NAGARAJU, Associate Professor, NRI College of Engg,Guntur	74	PO11	PSO2
G12	Lecture on Working of Domestic air conditioning system	05-03-2018	Dr.A. Ranga Babu, Associate Professor, GEC, Gudlavalleru	80	PO12	PSO2
G13	Lecture on Water supply and treatment	6-02-2018	K.VIDYA ASSOCIATE PROFESSOR USHARAMA COLLEGE OF ENGG,Vijayawada	82	PO2, PO6	PSO1
G14	Lecture on estimate the quality of the product	3-02-2018	B. Ramesh Quality engineer HAL, Banaglore	90	PO7	PSO2
G15	Lecture on Liquid Penetrant Testing and its applications	10-01-2018	Dr. K. Sai Srinadh, Professor, NIT Warangal	75	PO12	PSO2

Additional Experiments Identified Based on Mapping to Pos/PSOs:

Laboratory Name	Additional Experiment from Gaps	Po/PSOs
Thermal Engineering	IC Engine Heat Balance at different loads 4 stroke multicylinder S.I engine.	PO2,PO3,PO7,PO12
Thermal Engineering	IC Engine Heat Balance at different loads 4 stroke single cylinder C.I engine with electrical load.	PO2,PO3,PO7,PO12
Fluid Mechanics & Hydraulic Machines Lab	Experiment on Bernoullis equipment	PO2,PO3

Note: Please mention *in detail* whether the Institution has given such inputs and suggestions to the Affiliating University regarding curricular gaps and possible addition of new Content / add-on courses in the curriculum, to bridge the gap and to better attain program outcome(s).

The following table gives the list of identified contents beyond the syllabus

List of identified content beyond the syllabus:

Sl.No	Identified Content Beyond the syllabus
1	Ultrosonic Testic,Liquid Penetrating test,X-Ray Testing
2	Automobile & Ic Engine Design
3	Signature Analysis and Preventive Maintenance in Mechanical Vibrations

The Following table gives the Guest Lectures/workshop organized in the Department to deliver the identified contents beyond the syllabus

2017-2018

Sl. No.	Name of the Guest Lecture/Seminar/Workshop	Date	Resource Person	% of students	Pos & PSO mapped
1	Mechanical Vibrations	28th August 2017	Dr. Meera Saheb, JNTUK	78	PO1,PO2,PSO2
2	Non Destructive Testing	4th , 5th September	VIDAL – NDT	60	PO1,PO2,PSO2

		2017			
3	Automobile & Ic Engine Design	4th , 5th January 2018	- Entrench Electronics	75	PO1,PO2,PSO2

Dept Association & IIIC & NSS EVENTS: Academic Year 2017-18

S.No	Name Of the Event	Relevance to po's
1	Elocution	PO6,PO7,PO8,PO9,PO10,PO11,PO12
2	Debate	PO2,PO8,PO9,PO10
3	Essay Writing	PO7,PO8,PO9,PO10,PO12
4	Quiz	PO6,PO8
5	Seminar	PO5,PO8,PO9,PO10
6	Engineers day	PO6,PO9,PO10
7	Farewell day	PO6,PO9,PO10
8	Teachers Day	PO6,PO9,PO10
9	Youth Day	PO6,PO9,PO10
10	Freshers Day	PO6,PO9,PO10
11	Guest Lectures	PO2,PO3,PO12
12	Workshops	PO3,PO5PO6,PO9
13	Hackthons	PO8,PO9,PO12
14	Internships	PO5,PO8,PO9,PO10,PO11,PO12
15	Entrepreneurship	PO8,PO9,PO10,PO11,PO12
16	International yoga day	PO6,PO9,PO10
17	Distribution of Clothes and slates to poor children	PO6,PO9,PO10,PO11,PO12
18	Anti plastic rally	PO6,PO7,PO9,PO10

19	Blood donation camp	PO6,PO8,PO9,PO12
20	Vanam-manam	PO6,PO7,PO9,PO10,PO12
21	International literacy day	PO6,PO8,PO9,PO10
22	Eco ganesh idols distributed ganesh chaturthi	PO6,PO7,PO9,PO10
23	Swachhbharath	PO6,PO8,PO9,PO10
24	End polio rally	PO6,PO9,PO10,PO12
25	World AIDS day	PO6,PO8,PO9,PO12
26	Distribution of fruits to elders	PO6,PO9,PO11,PO12

Professional Events**:**

S.No	Name Of the Event	Relevance to po's
1	Paper	PO4,PO6,PO7,PO9,PO10,PO12
2	Poster	PO4,PO6,PO7,PO9,PO10,PO12
3	Project Expo	PO2,PO4,PO6,PO7,PO9,PO10,PO12
4	Workshops	PO3,PO5,PO6,PO9
5	Guest Lecture	PO2,PO3,PO12
6	Seminars	PO2,PO3,PO12
7	Quiz	PO9,PO12

R&D Events

S.No	Name of the event	Relevance to PO's
1.	Workshop on research methodology	PO3,PO4,PO5,PO6,PO7,PO8,PO9,PO11, PO12
2.	Seminar on IPR	PO1,PO8,PO3,PO6,PO12
3.	Training on Anti plagiarism software	PO3,PO5,PO11
4.	Workshop on How to file a PATENT	PO3,PO4,PO5,PO6,PO8,PO9,PO11,PO12
5	Seminar on Trademarks,Designs,GIs	PO1,PO8,PO3,PO6,PO12

Cultural Events:

S.No	Name of the event	Relevance to PO's
1	Art exhibition	PO7,PO8,PO9,PO10,PO12
2	Dance competition	PO7,PO9,PO10
3	Singing competition	PO8,PO9,PO10
4	Poster presentation	PO10
5	Skit competition	PO6,PO7,PO8,PO9,PO10,PO12
6	Mimicry	PO7,PO10
7	Mono Action	PO8,PO10
8	Literary competition	PO6,PO7,PO8,PO9,PO10,PO12

TP&CG Events:

S.No	Name of the event	Relevance to po's
1	Training	PO8, PO9 ,PO10, PO12
2	Placement	PO8, PO9 ,PO10, PO12
3	Career Guidance	PO8, PO9 ,PO10, PO12

Add-on Courses:

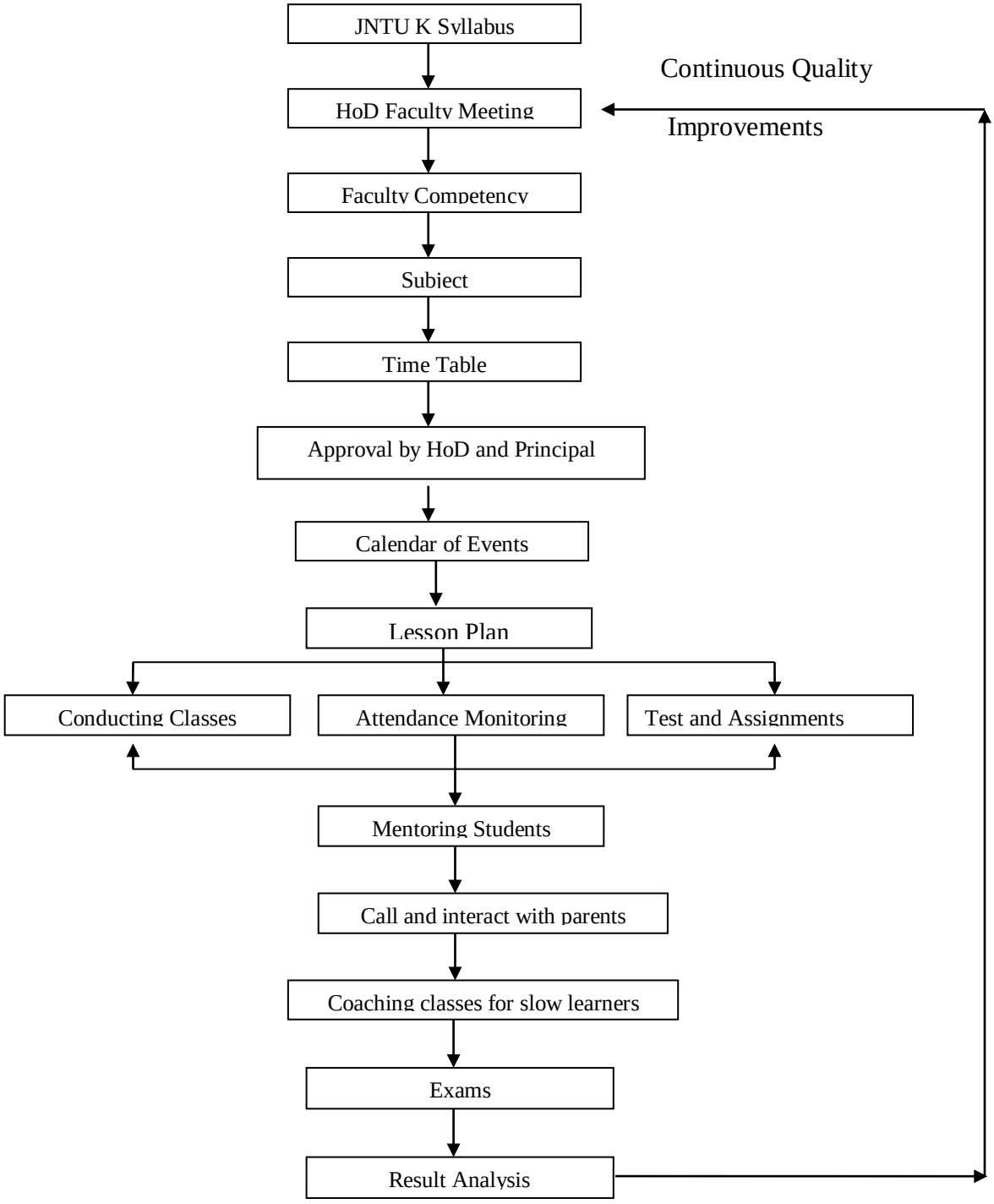
S.No	Name of the course	Relevance to PO's	PSOs
1	Verbal Communication	PO6,PO8,PO9,PO10,PO12	PSO1
2	Soft Skills-I	PO1,PO8,PO10,PO12	PSO1
3	Soft Skills-II	PO1,PO8,PO9,PO10,PO12	PSO1
4	Aptitude & Reasoning	PO1,PO2,PO3,PO6	PSO1
5	Soft Skills & Verbal Communication	PO1,PO2,PO4,PO9,PO10,PO12	PSO1

2.2 Teaching - Learning Processes (100)

2.2.1 Describe Processes followed to improve quality of Teaching & Learning (25)

(Proceses may include adherence to academic calendar and improving instruction methods using pedagogical initiatives such as rworld examples, collaborative learning, quality of laboratory experience with regard to conducting experiments, recording observations, analysis of data etc. encouraging bright students, assisting weak students etc. The implementation details and impact analysis need to be documented)

The process followed to improve the quality of Teaching Learning in the Department for each semester is shown below

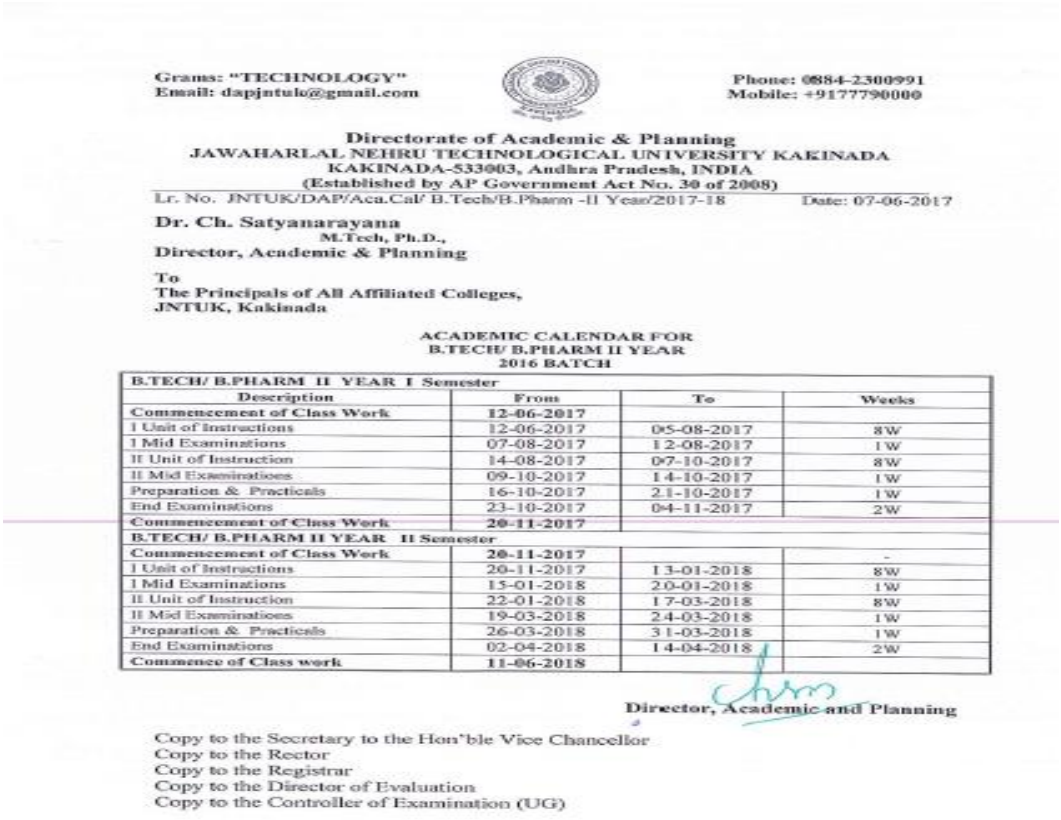


2.2.1.1. Academic calendar:

As per University Academic calendar, time table and course file of teacher are designed. All dates match with the academic calendar of the university announced every semester. So far there have been no circumstances where date gaps have been identified and the institution perfectly managing its own affairs in accordance with academic calendar of the university.

According to the present scenario of teaching and learning process, modern techniques are adopted in our institution for the upliftment of the students' performance and for the achievement of good results.

A Sample JNTUK Academic Calender is shown below:



Grams: "TECHNOLOGY"
Email: dapjntuk@gmail.com

Phone: 0884-2300991
Mobile: +9177790000

Directorate of Academic & Planning
JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA
KAKINADA-533003, Andhra Pradesh, INDIA
(Established by AP Government Act No. 30 of 2008)

Lr. No. JNTUK/DAP/Aca.Cal/ B.Tech/B.Pharm -II Year/2017-18 Date: 07-06-2017

Dr. Ch. Satyanarayana
M.Tech, Ph.D.,
Director, Academic & Planning

To
The Principals of All Affiliated Colleges,
JNTUK, Kakinada

ACADEMIC CALENDAR FOR
B.TECH/ B.PHARM II YEAR
2016 BATCH

B.TECH/ B.PHARM II YEAR I Semester			
Description	From	To	Weeks
Commencement of Class Work	12-06-2017		
I Unit of Instructions	12-06-2017	05-08-2017	8W
I Mid Examinations	07-08-2017	12-08-2017	1W
II Unit of Instruction	14-08-2017	07-10-2017	8W
II Mid Examinations	09-10-2017	14-10-2017	1W
Preparation & Practicals	16-10-2017	21-10-2017	1W
End Examinations	23-10-2017	04-11-2017	2W
Commencement of Class Work	20-11-2017		
B.TECH/ B.PHARM II YEAR II Semester			
Commencement of Class Work	20-11-2017		-
I Unit of Instructions	20-11-2017	13-01-2018	8W
I Mid Examinations	15-01-2018	20-01-2018	1W
II Unit of Instruction	22-01-2018	17-03-2018	8W
II Mid Examinations	19-03-2018	24-03-2018	1W
Preparation & Practicals	26-03-2018	31-03-2018	1W
End Examinations	02-04-2018	14-04-2018	2W
Commence of Class work	11-06-2018		

Director, Academic and Planning

Copy to the Secretary to the Hon'ble Vice Chancellor
Copy to the Rector
Copy to the Registrar
Copy to the Director of Evaluation
Copy to the Controller of Examination (UG)

DEPARTMENT CALENDAR

For B.Tech_MECH II, III, IV Years Academic Year: 2017-18

SRI VASAVI INSTITUTE OF ENGINEERING & TECHNOLOGY

Department of Mechanical Engineering

DEPARTMENT CALENDAR

For B.Tech_MECH II, III, IV Years Academic Year :2017-18

II Semester

S. No	Description	Schedule
1	DATE OF COMMENCEMENT OF CLASS WORK FOR II, III, IV B.Tech	20/11/2017
2	TENTATIVE DATES CONDUCTION OF INDUSTRIAL VISIT FOR II B.Tech	23/12/17
3	PONGAL VACATION	12/01/2018 to 14/01/2018
4	COMMENCEMENT OF I-MID-TERM EXAMINATION FOR II/IV, III/IV & IV/IV B.Tech	15/01/2018 to 20/01/2018
5	REPUBLIC DAY CELEBRATIONS	26/01/2018
6	TENTATIVE DATES CONDUCTION OF WORKSHOP	04/01/2018 to 05/01/2018
7	TENTATIVE DATES CONDUCTION OF TECHNICAL EVENTS FOR II/III/IV B.TECH	24/01/2018 to 04/02/2018
8	TENTATIVE DATES CONDUCTION OF INDUSTRIAL VISIT FOR III B.Tech	09/02/2018
9	ANNUAL DAY CELEBRATIONS	10/3/2018
10	COMMENCEMENT OF INTERNAL PRACTICAL EXAMINATION FOR II/IV, III/IV & IV/IV B.Tech	12/03/18 to 17/03/2018
11	LAST INSTRUCTION DAY II/IV, III/IV & IV/IV B.Tech	17/03/2018
12	COMMENCEMENT OF II-MID-TERM EXAMINATION FOR II/IV, III/IV & IV/IV B.Tech	19/03/2018 to 24/03/2018
13	PREPARATION OF MARKS & ATTENDANCE STATEMENTS FOR II/IV, III/IV & IV/IV B.Tech	19/03/2018 to 24/03/2018
13	COMMENCEMENT OF UNIVERSITY PRACTICAL EXAMINATION FOR II/IV, III/IV & IV/IV B.Tech	26/03/2018 to 31/03/2018
14	COMMENCEMENT OF UNIVERSITY THEORY EXAMINATION FOR II/IV, III/IV & IV/IV B.Tech	02/04/2018 to 14/04/2018
15	RE-OPENING OF THE COLLEGE AND COMMENCEMENT OF CLASSWORK FOR THE ACADEMIC YEAR 2018-19	11/06/2018
16	FACULTY DEVELOPMENT PROGRAMME	08/06/2018 to 09/06/2018

HOD

SRI VASAVI INSTITUTE OF ENGINEERING & TECHNOLOGY
Department of Mechanical Engineering

DEPARTMENT CALENDAR

For B.Tech_MECH II, III, IV Years Academic Year: 2017-18

I Semester

S. No	Description	Schedule
1	DATE OF COMMENCEMENT OF CLASS WORK FOR II, III, IV B.Tech	12/06/2017
2	COMMENCEMENT OF I-MID-TERM EXAMINATION FOR II/IV, III/IV & IV/IV B.Tech	07/08/17 to 12/08/2017
3	INDEPENDENCE DAY CELEBRATIONS	15/08/2017
4	TENTATIVE DATES CONDUCTION OF GUEST LECTURE	28/08/2017
5	TEACHERS DAY CELEBRATIONS	05/09/2017
6	TENTATIVE DATES CONDUCTION OF WORKSHOP	04/9/2017 & 05/09/2017
7	ENGINEERS DAY CELEBRATIONS	15/09/2017
8	DUSSERA VACATION	28/09/2017 to 30/09/2017
9	COMMENCEMENT OF INTERNAL PRACTICAL EXAMINATION FOR II/IV, III/IV & IV/IV B.Tech	03/10/17 to 07/10/2017
10	LAST INSTRUCTION DAY II/IV, III/IV & IV/IV B.Tech	07/10/2017
11	COMMENCEMENT OF II-MID-TERM EXAMINATION FOR II/IV, III/IV & IV/IV B.Tech	09/10/2017 to 14/10/2017
12	PREPARATION OF MARKS & ATTENDANCE STATEMENTS FOR II/IV, III/IV & IV/IV B.Tech	09/10/2017 to 14/10/2017
13	COMMENCEMENT OF UNIVERSITY PRACTICAL EXAMINATION FOR II/IV, III/IV & IV/IV B.Tech	16/10/2017 to 21/10/2017
14	COMMENCEMENT OF UNIVERSITY THEORY EXAMINATION FOR II/IV, III/IV & IV/IV B.Tech	23/10/2017 to 04/11/2017

HoD

2.2.1.2 Instructional Methods and Pedagogies

Teaching methods comprises the principles and methods used by teachers to enable student learning. These are determined partly on subject matter to be taught and partly by the nature of the learner. The following methods are some of the appropriate and efficient methodologies according to the characteristic of the learner.

1. Chalk & talk: Usage of black board, chalk and lecture
2. PPT: Power Point Presentation for the relevant topic
3. Visualization: 3D Objects

4. Co- operative learning: Grouping the students with one advance learner in each group and allowing them to discuss the Topic
5. Enquiry based instruction: Prior intimation of the topic in the previous classes to the students for enquiry of the topic and asking the questions in the next class
6. Differentiation: Summarizing the types with similarities and differences
7. Technology: New & updated technology relevant to the course
8. Virtual labs: IIT virtual labs
9. NPTEL videos: NPTEL videos
10. Seminar: Seminar by the student
11. Brain storming: Giving a topic and allowing the students to think over it for new ideas
12. Buzz group: Formation of groups with 3-4 members in each and discussion on the Topic
13. Animations: Animations of the processes
14. Pictorial method: 2D objects charts
15. Debate: Assigning a topic to the students and allow them to debate
16. Quiz: Asking Questions on the covered topic by forming the batches.
17. OHP: Over head Projections of the images
18. Survey Based Assessment.
19. Role play: Students are explored realistic situations by interacting with other people in a managed way in order to develop experience and trial different strategies in a supported environment.
20. Behavior management : Wide variety of skills and techniques that teachers use to keep students organized, orderly, focused, attentive, on task, and academically productive during a class
21. Profitional development: improving their professional knowledge, competence, skill, and effectiveness

SNo	Teaching Aid / Methodology	Number of Courses
1	Chalk & Talk	34
2	PPT	34
3	Visualization	18
4	Co-operative learning	23
5	Enquiry based instruction	26
6	Differentiation	21
7	NPTEL Videos	34
8	Seminars	34
9	Brain storming	11
10	Buzz group	1
11	Animated lecturers	26
12	Pictorial sessions	15
13	Debate sessions	4
14	Quiz	30
15	OHP	25

Average Text Books referred per Course	2
Average Reference Books referred per Course	5
Average Additional referred per Course	1
Average Web references used per Course	4

Real World Examples:

Students are exposed to real world problems and encouraged to do real world projects. The following table gives the details of few real-world projects that have been carried out by the students of the Department.

For the academic year: 2017-18

S.No	Name & Reg No of team leader	Title of the Project	PO/PSO
1.	K.N.V.V LAKSHMAN KRISHNA	Humanoid Robotic Arm Control Using Servo Motors	PO:1,2,3,5,6,7,8,9,10,11,12 PSO: 1,2
2.	T.S.V.D VEERA BHADRA CHARI	Model and Fabrication of Multi diameter drill bit	PO:1,2,3,5,6,7,8,9,10,11,12 PSO: 1,2
3.	L.DURGA PRASAD	Design and Fabrication of Multipurpose Machine Tools	PO:1,2,3,5,6,7,8,9,10,11,12 PSO: 1,2

2.2.1.3 Methodology to identify bright students:

1. The bright students are identified from their participation in classroom discussion, performance in the assessment tests and participation in classroom seminars, questioning ability and University result analysis.
2. The bright students are encouraged to participate in symposia, workshops and seminars to gain knowledge on the latest developments.
3. The students are encouraged to take up industry based projects in the advanced topics under the guidance of the faculty members.
4. They are provided with the guidance about patents, project management and prototype building.
5. Bright students are encouraged to lead the students' association team which organizes various activities viz. paper presentation, poster presentation, lecture series etc.

6. The bright students having high academic track records are encouraged by faculties to achieve university ranks, also encouraged to take up competitive examinations like GATE, GRE etc.,

7. Software training classes are provided during semester break.

List of Bright Students for the Batch (2017-21)

Sl.no	Reg.No	Name of the student
1.	17MQ1A0303	CHALAMALASETTI HEMANTH SAI
2.	17MQ1A0307	GOLI SAI NAGESH
3.	17MQ1A0315	MASAMSETTI CHANDU
4.	17MQ1A0316	MOHAMMAD ASIF
5.	17MQ1A0319	PAVURALA VAMSI KRISHNA
6.	17MQ1A0320	POTHULA CHIRANJEEVI DURGA SATISH
7.	17MQ1A0323	RAJULAPATI RAM CHANDRA RAO
8.	17MQ1A0320	PCHIRANJEEVI DURGA SATISH
9.	18MQ5A0301	TOTA HARSHA PRIYA
10.	18MQ5A0302	AGULLU SURESH
11	18MQ5A0303	ANNAPAREDDI GIRI BABU
12	18MQ5A0304	BALIREDDI DURGA PRASAD
13	18MQ5A0305	BOOSAM KUMAR
14	18MQ5A0306	BOYINA MANIKANTA
15	18MQ5A0307	CHEBOINA YESU BABU
16	18MQ5A0308	CHEBROLU SUMANTH
17	18MQ5A0309	DEEKOLLU NAVEEN
18	18MQ5A0310	GORLA LEELA VARA PRASAD
19	18MQ5A0311	JAKKULA PRUDHVI
20	18MQ5A0312	JANNU SAIKUMAR
21	18MQ5A0313	KANDRA SUNIL PRIYAKAR
22	18MQ5A0314	KARUPARTHI BHANU TEJA
23	18MQ5A0315	KARUPARTHI RUPESH BABU
24	18MQ5A0316	KAZA RAMANJANEYULU
25	18MQ5A0317	KODALI SIVA KESAVA
26	18MQ5A0318	MADDALA SANDEEP
27	18MQ5A0319	MOHAMMAD RAHAMATH KHAN
28	18MQ5A0320	MUTHIREDDY V RAMANJANEYULU
29	18MQ5A0321	NAREPALEM BALA NAGESWARA RAO
30	18MQ5A0322	PASUPULETI KONDALA RAO
31	18MQ5A0323	PATTAPU SAI TEJA
32	18MQ5A0324	PERAKA SHANMUKHA
33	18MQ5A0325	PERAM SAI BABU
34	18MQ5A0326	PITCHUKA DOLA NAGA HAREESH
35	18MQ5A0327	PRATHIPATI PAVAN KALYAN
36	18MQ5A0328	SUDHABATHULA SIVA KUMAR

37	18MQ5A0329	THOTA VAMSI GNANA SRINIVAS
38	18MQ5A0330	VARTHA NAGARJUNA RAO
39	18MQ5A0331	VELIVELA PAVAN KUMAR
40	18MQ5A0332	YALAVARTHI JAYA SEKHAR
41	18MQ5A0333	YARRAMSETTI SANDEEP

2.2.1.4 Methodology to identify weak students:

1. The weak students are identified from their participation in classroom discussion, performance in the assessment tests (less than 15 out of 30) and University result analysis.
2. Department arranges remedial lectures for weak students in all the courses.
3. Teacher informs the parents regarding improvement in the performance of their ward on regular basis.
4. Attempts are made by the teachers to give personal attention to these students.
5. Specially developed question banks and assignments are given.
6. Participative and progressive weak students are given chance to improve team work to motivate and appreciate their efforts.
7. A blended motivation and responsibility from both parents and faculty will create a positive mindset and will help to overcome the inabilities and hurdles faced by the slow learners.
8. A special counselling and tutorial classes are conducted by the faculty for those students who have failed in any subject.

A sample assessment form is shown below to show how faculty tracks the week students and assess their performance

List Of Week Students for the batch(2017-21) and their progress tracking by course teaching faculty:

Sl.no	Roll Number	Name	Internal-I	Internal-II	University Result
1	17MQ1A0301	BAKI JAYA PRAKASH			
2	17MQ1A0302	BATHINA JAGADEESH KUMAR			
3	17MQ1A0304	DASI NAGA VENKATA SAI PRAMOD			
4	17MQ1A0305	DOKKU GANESH			
5	17MQ1A0306	DOMATHOTI BALA SUBRAMANYAM			
6	17MQ1A0308	GOVARDHANAM RAGHUNADH			
7	17MQ1A0309	JANGAM HAREESH			
8	17MQ1A0311	KOKKILIGADDA VASU RAJKAMAL			
9	17MQ1A0312	KOTA VENKATA PRANEETH			
10	17MQ1A0313	KOTTE VINAY BABU			
11	17MQ1A0314	KOTTI SAI KUMAR			
12	17MQ1A0317	PARASA KRISHNA MURTHY			
13	17MQ1A0318	PARISE MURALI KRISHNA			
14	17MQ1A0321	PRATHI NAGA LAKSHMANA SAI KUMAR			
15	17MQ1A0322	PURITIPATI VENKATA SUBHASH REDDY			
17	17MQ1A0324	SINGARAJU ANIRUDH			
18	17MQ1A0325	TUMMALACHARLA ARAVINDA KRISHNA			
19	17MQ1A0326	VISWANATHAPALLI SAI RAM			

2.2.1.5 Quality of Class Room Teaching

1. Mentors are allocated for each year to monitor the class room randomly and also to have detailed list of students and inform to the parents about their activities.
2. Each classroom is spacious and equipped with black board and audio visual aids to create a better ambience for effective teaching learning environment.

3. Each lecture is scheduled for 50 minutes and Laboratory duration is 3 hrs.
4. Faculty allotted for the prescribed subjects are well prepared with teaching file.
5. Faculty register for NPTEL courses for each semester to gain knowledge on their interested subjects.
6. Hod and Principal also monitor the class randomly and verify whether the syllabus is covered as per schedule for every 15 days.
7. Faculty plan activities to improve the student's interest on the subject like quiz, buzz & seminar.
8. Faculty will interact with the students to know their problems in academics and motivate them when required.
9. Making students acquire high quality knowledge content in the curriculum.
10. Making students to refer more number of Text Books per Subject.
11. Encouraging the students to participate in the Workshops/Conferences/Seminars.
12. Creating a platform for students to improve their Soft Skills & Communication skills by organizing Technical Events.

Experiment

1. Student must enter with proper record,observation and prepare well about the experiment.
2. Must explain the experiment procedure to conduct the experiment (viva-voce).
3. Those who explained clearly about the procedure are allowed to do the experiment.
4. Faculty instructs the viva-voce cleared students, to do the experiment.
5. report to the instructor if you find experiment that is out of order or you break something
6. The technician take care of students while doing experiments on high voltages and large machines.
7. Evaluation of the student will be taken after experiment conducted
8. Students must submit record in the next lab hours
9. Leave your work area clean and in good order before leaving the lab

2.2.1.6. <u>Continuous assessment in labs:</u>

1. The faculty allocated for a lab divide the students in each section into two sessions. Each session consists of 30 students. Those 30 students are divided into different batches based on no. of experiments to be conducted in the lab.
2. The concerned faculty allow the students to conduct an experiment if he/she has a complete dress code.
3. Every student should sign in the log register before entering into the lab.
4. Each student is given the list of experiments at the beginning of semester so that every one will have an idea of the experiment they are going to conduct in the lab slot.
5. The records for the previous job and observations for the particular experiment is corrected by the concerned staff in the lab and record marks are evaluated.
6. We distribute the marks for daily assessment as 5 marks for job,5 marks for viva and 5 marks for record.
7. Viva is asked based on the current experiment he/she had done in the particle lab slot.
8. If student is unable to answer, then the concerned staff /technician will explain the students and clarify each and every doubts.
9. This process is repeated for all experiments and for all students of two sessions.
10. After the end of all experiments, the average of day-to-day assessment is done.
11. Finally at the end of semester,internal exam will be conducted for 10M (aim+procedure+job+Precautions+result)and for a total of 25M(10+15),marks for each student is evaluated
12. External exam is also conducted for 50M.(Scheme of evaluation depends on particular faculty).
13. Continuous evaluation is done by the faculty in every lab session for 10 marks based on rubrics as shown in Table .

Each faculty performs the PO mapping analysis for the experiments offered by the university and select appropriate experiments, for the labs where the university offered a choice. Additional experiments are framed considering the mapping.

A sample mapping for MOS & M lab to verify the alignment of experiments with CO's and PO's is shown below

Experiment list as per curriculum				
S.No	Name of the experiment	COs	POs	PSOs
	MECHANICS OF SOLIDS LAB			
1	Direct tension test	C212.1	PO1,PO2,PO9	PSO2
2	Bending test on a) Simple supported b) Cantilever beam	C212.4	PO2,PO9	PSO2
3	Torsion test	C212.6	PO2, PO9	PSO2
4	Hardness test a) Brinell's hardness test b) Rockwell hardness test	C211.3	PO1,PO2, PO9	PSO2
5	Test on springs	C224.6	PO2, PO9	PSO2
6	Compression test on cube	C212.1	PO1, PO9	PSO2
7	Impact test	C212.1	PO1,PO2,	PSO2
8	Punch shear test	C212.1	PO2, PO9	PSO2
METALLURGY LAB:				
9	Preparation and study of the Micro Structure of pure metals like Iron, Cu and Al.	C211.5	PO1, PO9	PSO2
10	Preparation and study of the Microstructure of Mild steels, low carbon steels, high – C steels.	C211.5	PO1, PO9	PSO2
11	Study of the Micro Structures of Cast Irons.	C211.4	PO1, PO9	PSO2
12	Study of the Micro Structures of Non-Ferrous	C211.5	PO1, PO9	PSO2
13	Study of the Micro structures of Heat treated steels.	C211.5	PO1, PO9	PSO2
14	Hardenability of steels by Jominy End Quench	C211.3	PO1, PO9	PSO2
15	To find out the hardness of various treated and	C211.3	PO1, PO9	PSO2
Experiment List beyond the Curriculum				
1	Double shear test	C212.1	PO2, PO9	PSO2

2.2.1.6. The average marks of all session will be considered for awarding final internal assessment

	Allocated			
Conducting Experiment	5	Experiment executed with accurate results and proper calculation	Experiment is partially done with in the lab session.	Experiment is not done in the lab session.
		5 Marks	4 Mark	0 Mark
Viva Voce	5	Student answered all the	Student Answered only a	Student did not answer any viva voce question
		5 Marks	3 Mark	0 Mark
Record writing	5	completed record was submitted	Record was submitted but incomplete	Record was not submitted in the lab session
		4 - 5 Marks	1 - 3 Marks	0 Mark

Table: Rubrics used for continuous evaluation in every lab session

	Allocated			
Write up	4	Student is able to write Aim, Apparatus, Calculations, Precautions for the experiment he has	Student was able to write all parameters required partially	Student was unable to draw circuit diagram/program/ algorithm not known.
		3 - 4 Marks	1 - 2 Marks	0 Mark
Execution	4	Student was able to conduct the given experiment with final result.	Student was partially able to conduct the given experiment.	Student was not able to conduct given experiment.
		3 - 4 Marks	1 - 2 Marks	0 Mark
Viva Voce	2	Student answered all the questions.	Student answered only	Student did not answer any question
		2 Marks	1 Mark	0 Mark

Table: lists the rubrics for assessment in Internal Lab Examination.

2.2.1.7 Student Feedback of Teaching Learning Process and actions taken

1. Feedback is taken through online from each student.

2. Based on following questions, feedback percentages are taken for each subject from each student

a) Does the teacher come prepared on lessons?

b) Does the teacher present the lessons clearly and orderly?

c) Does the teacher speak with the voice clarity and effective body language?

d) Is the teacher is capable of keeping the class under discipline and control?

e) Does the teacher command students attention and give response to students doubts and questions?

f) Does the teacher possess depth of knowledge in subject?

g) Does the teacher show readiness to give assignments to improve the studies?

h) Is the teacher available outside class hours to clarify doubts if requested to by students?

i) Does the teacher help the students to clear the doubts and guide them for the successful completion of the practical program?

j) Does the teacher use the black board effectively?

k) Is the teacher regular and punctual?

l) Does the teacher come with neat dress and posture?

m) Does the teacher insist on keeping the records up to date and neat?

n) Does the teacher take interest in maintaining discipline anywhere in the college premises?

o) Does the teacher remind you about your responsibility to the institution?

p) Do you find the teacher unbiased and open mined in judgement?

q) Do you find the teacher patient and considerate?

r) Do you find the teacher impartial and honest in paper valuation and personal remark making?

s) Do you find the teacher inspiring in the class as well as outside?

t) Do you find in the teacher, a true friendly support with elderly affection?

3. From the obtained feedback percentages, suggestions are given to each staff by Management, Principal and Head of the Department.

STUDENT FEEDBACK

Faculty : V VIJAYA BHASKAR

Subject : Kinematics Of Machinery (B.Tech, 2/4 Semester-II, MECHANICAL Sec-A)

Academic Year : 2016 - 2017

Phase : Phase-2

Sl.No	Question	Excellent	Good	Average	Poor	Q.Wise Total	Q.Wise %
1	Does the teacher come prepared on lessons?	36	14	0	2	188	90.00
2	Does the teacher present the lessons clearly and orderly?	35	15	1	1	188	90.00
3	Does the teacher speak with the voice clarity and effective body language?	34	15	2	1	186	89.00
4	Is the teacher is capable of keeping the class under discipline and control?	38	11	2	1	190	91.00
5	Does the teacher command students attention and give response to students doubts and questions?	31	17	3	1	182	88.00
6	Does the teacher possess depth of knowledge in subject?	35	14	0	3	185	89.00
7	Does the teacher show readiness to give assignments to improve the studies?	37	12	0	3	187	90.00
8	Is the teacher available outside class hours to clarify doubts if requested to by students?	32	16	1	3	181	87.00
9	Does the teacher help the students to clear the doubts and guide them for the successful completion of the practical program?	29	20	1	2	180	87.00
10	Does the teacher use the black board effectively?	35	12	4	1	185	89.00
11	Is the teacher regular and punctual?	35	15	1	1	188	90.00
12	Does the teacher come with neat dress and posture?	32	18	1	1	185	89.00
13	Does the teacher insist on keeping the records up to date and neat?	32	16	2	2	182	88.00
14	Does the teacher take interest in maintaining discipline anywhere in the college premises?	32	14	2	4	178	86.00
15	Does the teacher remind you about your responsibility to the institution?	34	13	1	4	181	87.00
16	Do you find the teacher unbiased and open mined in judgement?	36	11	1	4	183	88.00
17	Do you find the teacher patient and considerate?	34	13	3	2	183	88.00
18	Do you find the teacher impartial and honest in paper valuation and personal remark making?	32	13	4	3	178	86.00
19	Do you find the teacher inspiring in the class as well as outside?	34	12	4	2	182	88.00
20	Do you find in the teacher, a true friendly support with elderly affection?	36	12	1	3	185	89.00
	Total	679	283	34	44		
	Total Points	**2716**	**849**	**68**	**44**	**3677**	**88.00**

- no coment
- senior and brilliant
- good
- good
- worst
- worst
- good
- average
- no coment
- excellent teaching.

No.Of Students Posted	52
Total Percentage Awarded to The Faculty	88.00
Grade of Faculty	Good

***Excellent (4) : >=90 %** ***Good (3) : >=75 & <90%**

***Average (2) : >=60 & <75 %** ***Poor (1) : Below 60 %**

Formula: Total Obtained Points/(Max Points(i.Excellent-4) * No.Of.Students * NoOfQuestions)

Faculty is advised to maintain discipline outside the class/room also.

1/2

://ecap/newecap/printreport.aspx

2.2.2 Quality of internal, semester Question papers, Assignments and Evaluation (20)

(Mention the initiatives, implementation details and analysis of learning levels related to quality of semester question papers, assignments and evaluation)

Internal Assessment Test:

The department conducts two internal assessment tests after completing 8th week and 16th week respectively. Each test covers half of the syllabus. The tests are conducted for a maximum of 30 marks. (No minimum marks criteria from the university). The duration of the test is one and half hour and question paper is set to make the student to learn time management. Program Coordinator along with test coordinator is responsible for the conduction of the test. The department has a Scrutinizing Committee, comprising of HoD and two senior faculty members to check the quality of the question paper, RBT levels and COs compliance.

Process for Internal Assessment Test Question Paper Setting:

- The course co-coordinator sets the question paper for the Internal Assessment.
- The course co-coordinator ensures to frame questions based on various RBT levels and is mapped to the Course Outcomes (COs) to assess the students at various RBT levels.

Procedure for Conduction and Evaluation of Internal Assessment Test:

The time table for the Internal Assessment Test will be conducted as per academic calendar and the dates are announced and kept in the notice board 15 days prior to the commencement of the test.

Question Papers:

For each subjects, question bank is prepared. While setting the question paper all previous university exam papers are taken into consideration. According to level of toughness the questions are prepared (viz., analyzing the problems, implementation of modern tools, formulating the problems etc), which is termed as Bloom's Taxonomy.

The questions will be of three categories:

- One third of the questions is straight and can be answered by all students.
- One third of the questions need analysis and use of content covered as per syllabus.
- Remaining one third of the questions are not straight. Certain amount of thinking, analysis and mathematical knowledge are required to resolve.

A question paper template is shown below:

ACADEMIC YEAR 2018-19 Hall Ticket No:

SRI VASAVI
INSTITUTE OF ENGINEERING & TECHNOLOGY
NANDAMURU, PEDANA- 521 369

III B.Tech I-SEM I Mid Examinations — Subject: DMM-II
Branch: MECH — Time: 3.00 P.M To 10:45 P.M
Max.Marks:30 — Date: 08-08-2018

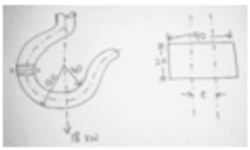
I **Answer ALL Questions** **3X10=30M**

(Data Hand Book is allowed)

1. a) Briefly explain various types of lubrication **2 M**
   b) A journal bearing of 50mm diameter and 80mm long, has a bearing pressure of 6N/mm², the speed of the journal is 1000 rpm. The ratio of journal diameter to the diametral clearance is 1000. The bearing is lubricated with oil, whose absolute viscosity at the operating temperature of 75°c may be taken as 0.015 kg/ms. The room temperature is 25°c, Determine (i) the amount of artificial cooling required. Assume heat dissipation coefficient is 500 W/m²/°C.

2. The following data is given for the connecting rod of a diesel engine: Cylinder bore =85 mm, Length of connecting rod = 350 mm, Maximum gas pressure = 3 MPa, factor of safety against the buckling failure = 5, l/d ratio for piston pin bearing = 1.5, l/d ratio for crank pin bearing = 1.25, Allowable bearing pressure for piston pin bearing= 13 MPa, Allowable bearing pressure for crankpin bearing =11 MPa, stroke length= 140mm, mass of reciprocating parts =1.5kg engine speed = 2000 rpm, allowable stress in the bolts as 90 N/mm² and in cap as 95 N/mm², density of connecting rod =7800 kg/m³ calculate:
   a) Dimensions of the cross section of connecting rod
   b) Dimensions of small and big end bearings

3. The Crane hook carries a load of 18KN as shown in figure. Section X-X is rectangular whose horizontal side is 90mm. find stresses in inner and outer fibers at the given section.



Don't Write Anything on question paper

Assignments:

- Assignment issue and submission dates are announced by the respective faculty members. Assignment questions are prepared using Bloom's Taxonomy process.
- Surprise tests, quizzes, video links are provided.
- In order to bridge the gap in curriculum, bright students are given some assignment beyond syllabus.
- Assignments are evaluated and feedback is given to the students to improve their learning and appreciate their efforts

Evaluation:

1 The faculties after every internal assessment test, explain the solution of the questions in the class which will enable them to perform well in the final examination.

2. For any genuine reasons, if a student was unable to perform well in the given two internal assessment tests, improvement test is given to him/her.

3. 80% of the marks are considered from one of the internal and 20% of the marks are considered from the other internal exam. If a candidate remains absent for all the tests conducted, the Internal assessment marks are marked as "Absent" in the result. Assignments are used as a tool for practice and evaluation is based purely on Internal Assessment Test.

4. Best out of two internals were taken for R13 regulation.

SRI VASAVI INSTITUTE OF ENGINEERING & TECHNOLOGY

DEPARTMENT OF MECHANICAL ENGINEERING

INTERNAL-1 QUESTION PAPER ASSESSMENT

Name Of the Course: UNCONVENTIONAL MACHINING PROCESSES

Academic Year: 2017-2018 **Semester:IV-I**

Sem Course Code:C414

Question number	Question	CO	Marks	TL
1.a	Explain USM with a neat diagram	C414.1	3	L1
1.b	Find out the approximate time required to machine a hole of diameter equal to 6.0 mm in a tungsten carbide plate (Flow strength of work material = 6.9 x 10 ^9 N/m^2) of thickness equal to one and half times of hole diameter. The mean abrasive grain size is 0.015mm diameter. The feed force is equal to 3.5 N. The amplitude of tool oscillations is 25 microns and the frequency is equal to 25 kHz. The tool material is copper having flow strength= 1.5 x 10 9 N/m2. The slurry contains one part of abrasives to one part of water. Take the values of different constant as K1 = 0.3, K2 = 1.8x 10-6 (In SI units) and K3= 0.6 and abrasive slurry density = 3.8 g/cm^3. Also calculate the ratio of the volume removed by throwing mechanism to the volume removed by hammering mechanism.	C414.1	7	L3
2.a	Explain the electrochemical deburring and honing processes in detail	C414.2	4	L2
2.b	Calculate the metal removal rate in mm^3/min in Electrochemical machining of a material having density 8000 kg/m^3, atomic wt 56, valence 2 when current used is 1000 A and Faraday constant is 96500 columb/mole	C414.2	6	L3
3.a	Explain the working of a R-L-C Circuit used in EDM	C414.3	5	L2
3.b	If in a RC type generator, to get an idle time of 500 μs for open circuit voltage of 100 V and maximum charging voltage of 70 V, determine charging resistance. Assume C = 100 μF	C414.3	5	L1

SRI VASAVI INSTITUTE OF ENGINEERING & TECHNOLOGY

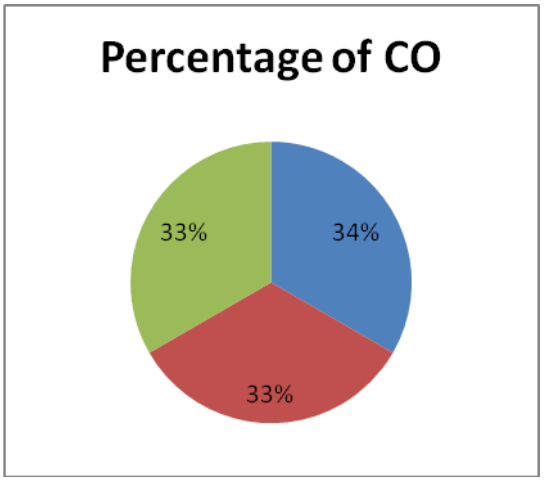
DEPARTMENT OF MECHANICAL ENGINEERING

COURSE OUTCOME WISE MARKS DISTRIBUTION

ACADEMIC YEAR 2017-18

UNCONVENTIONAL MACHINING PROCESSES

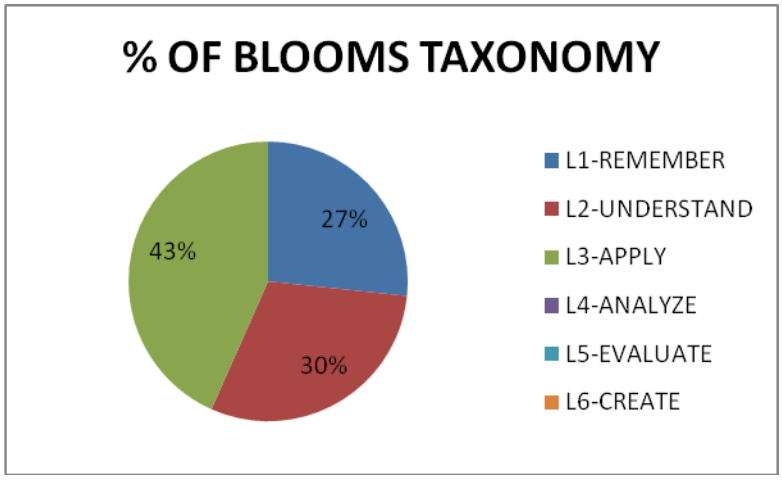
S.NO	COURSE OUTCOME	MARKS	% OF MARKS
1	C414.1	10	33.33
2	C414.2	10	33.33
3	C414.3	10	33.33
4	C414.4	0	0
5	C414.5	0	0
6	C414.6	0	0

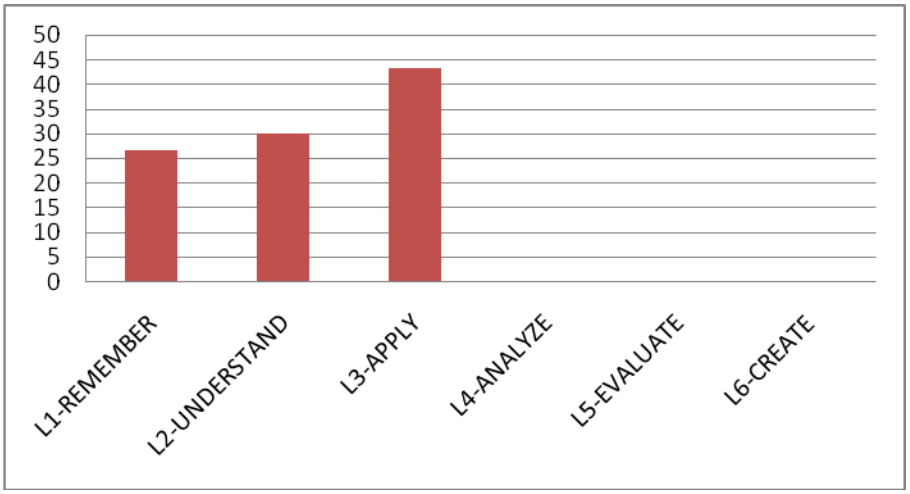


UNCONVENTIONAL MACHINING PROCESSES

BLOOM'S TAXANOMY LEVEL WISE MARKS DISTRIBUTION

S.NO	TAXONOMY LEVEL	MARKS	% OF MARKS
1	L1-REMEMBER	8	26.66
2	L2-UNDERSTAND	9	30
3	L3-APPLY	13	43.33
4	L4-ANALYZE	0	0
5	L5-EVALUATE	0	0
6	L6-CREATE	0	0





INTERNAL-2 QUESTION PAPER ASSESSMENT

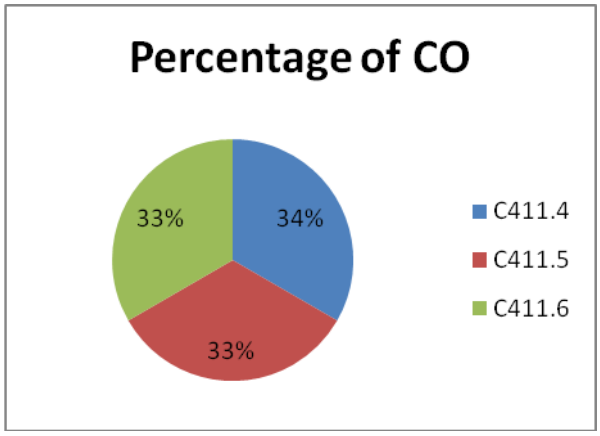
ACADEMIC YEAR 2017-2018 UNCONVENTIONAL MACHINING PROCESSES

Question number	Question	CO	Marks	TL
1.a	Explain the metal removing mechanisms in electro discharge machining process?	C414.4	4	L2
1.b	With the help of a neat diagram explain the working of a laser beam machine?	C414.4	6	L2
2.a	Explain the non transferred and transferred modes of plasma arc?	C414.5	4	L2
2.b	Explain the plasma arc machining process with a neat sketch?	C414.5	6	L3
3.a	Discuss the major process variables that affect the MRR in abrasive jet machining?	C414.6	5	L4
3.b	Explain the working of an abrasive water jet machine with the help of a neat sketch?	C414.6	5	L2

ACADEMIC YEAR 2017-18 UNCONVENTIONAL MACHINING PROCESSES

COURSE OUTCOME WISE MARKS DISTRIBUTION

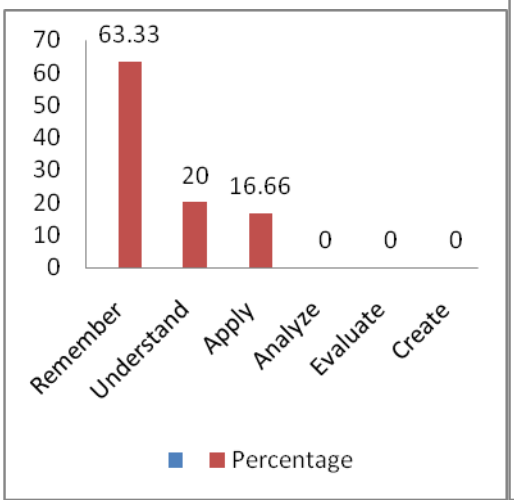
S.NO	COURSE OUTCOME	MARKS	% OF MARKS
1	C414.1	0	0
2	C414.2	0	0
3	C414.3	0	0
4	C414.4	10	33.33
5	C414.5	10	33.33
6	C414.6	10	33.33

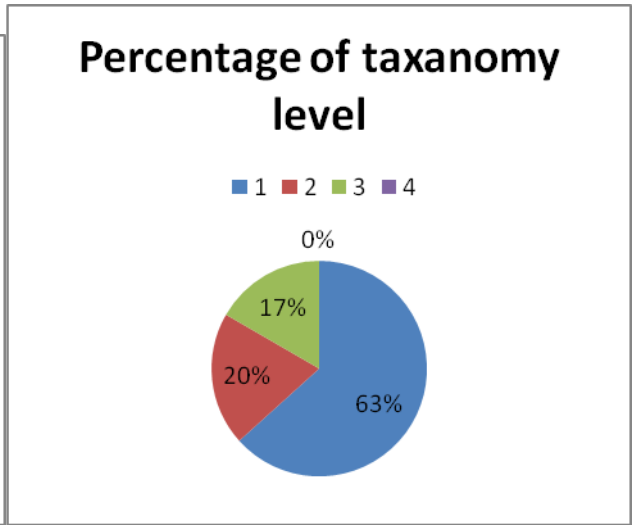


UNCONVENTIONAL MACHINING PROCESSES ACADEMIC YEAR 2017-18

BLOOM'S TAXANOMY LEVEL WISE MARKS DISTRIBUTION

S.NO	TAXONAMY LEVEL	MARKS	% OF MARKS
1	L1-REMEMBER	19	63.33
2	L2-UNDERSTAND	6	20
3	L3-APPLY	5	16.66
4	L4-ANALYZE	0	0
5	L5-EVALUATE	0	0
6	L6-CREATE	0	0



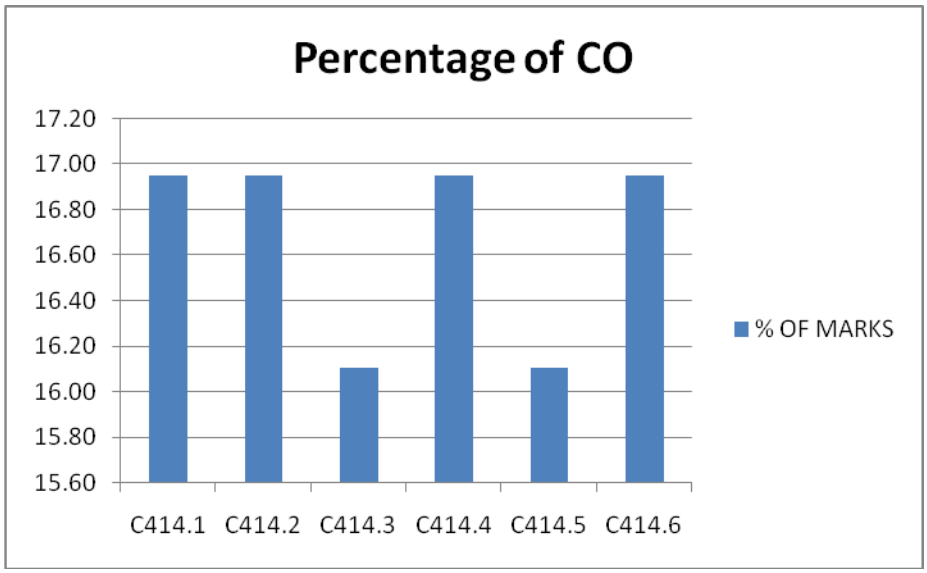


SEMESTER END QUESTION PAPER (SET-1) ASSESSMENT

Question number	Question	CO	Marks	TL
1.a	State the need for unconventional machining process?	C414.1	4	L1
1.b	What is meant by chemical machining?	C414.2	4	L1
1.c	What do you mean by recast layer with reference to the EDM?	C414.3	3	L1
1.d	Name and explain the device which produce electron beam.	C414.4	4	L2
1.e	Write the various types of torches used in plasma arc machining.	C414.5	3	L2
1.f	Write any two differences between electro stream drilling and electro chemical drilling.	C414.6	4	L2
2.a	How the modern machining process classified based on source of energy, and shapes to be machined?	C414.1	8	L2
2.b	Distinguish between magnetostriction and piezoelectric Transducer based on construction,working,advantages and limitations.	C414.1	8	L4
3.a	Write the advantages, limitations, and applications of electro chemical honing.	C414.2	8	L2
3.b	What are the various factors to be considered in the selection of Etchants for a particular application?	C414.2	8	L2
4.a	Discuss the advantages of EDM as compared to other non traditional methods with regard to (i) Metal removed rate (ii) Accuracy and Surface finish.	C414.3	8	L2
4.b	Name some of the dielectric fluids commonly used in EDM. Name some of the tool material used in EDM.	C414.3	8	L2
5a	Discuss the thermal features of LBM.	C414.4	8	L2
5.b	With the help of neat sketch explain the EBM process.	C414.4	8	L2
6.	Distinguish between transferred and Non-transferred Arc type in PAM process based on principle, construction and working. List the advantages, limitations and practical application.	C414.5	16	L4
7.a	With the aid of simple sketch, explain the working principle of WJM process.List the practical applications.	C414.6	8	L2
7.b	Mention the advantages, limitations and applications of electrostream drilling.	C414.6	8	L2

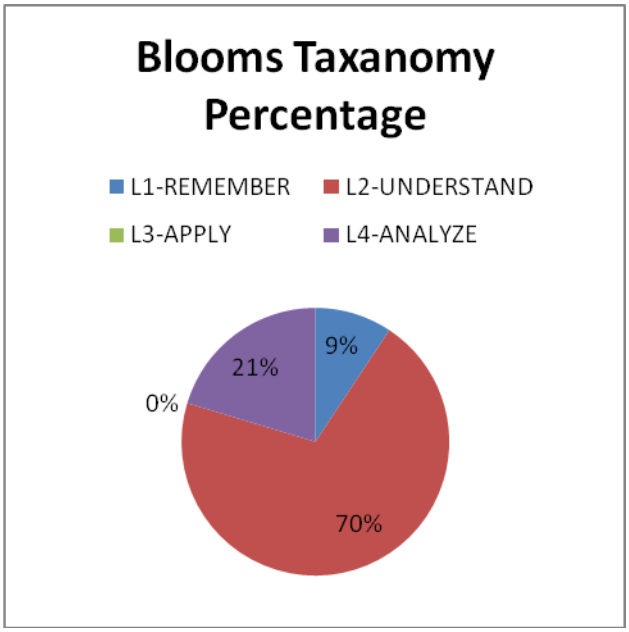
COURSE OUTCOME WISE MARKS DISTRIBUTION

S.NO	COURSE OUTCOME	MARKS	% OF MARKS
1	C414.1	20	16.95
2	C414.2	20	16.95
3	C414.3	19	16.10
4	C414.4	20	16.95
5	C414.5	19	16.10
6	C414.6	20	16.95



BLOOM'S TAXANOMY LEVEL WISE MARKS DISTRIBUTION

S.NO	TAXONOMY LEVEL	MARKS	% OF MARKS
1	L1-REMEMBER	11	9.32
2	L2-UNDERSTAND	83	70.34
3	L3-APPLY	0	0.00
4	L4-ANALYZE	24	20.34
5	L5-EVALUATE	0	0.00
6	L6-CREATE	0	0.00



ASSIGNMENT ASSESMENT

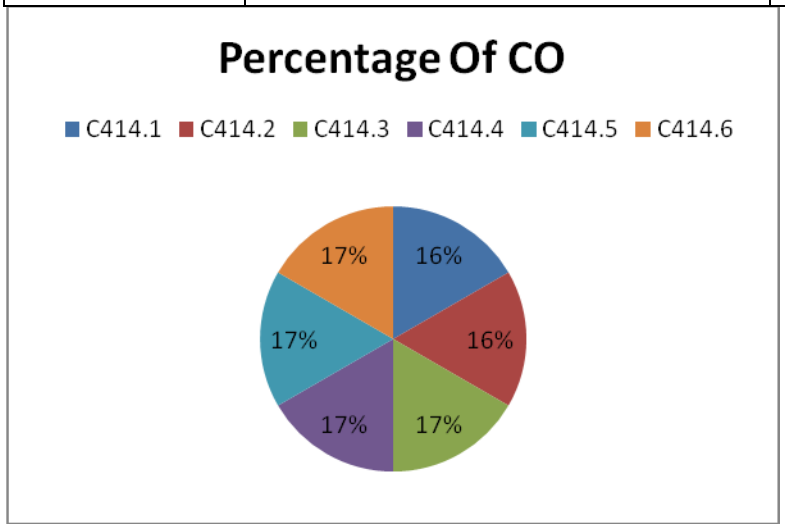
SUBJECT: UNCONVENTIONAL MACHINING PROCESSE ACADEMIC YEAR: 2017-18

Q. No	Question	CO	Marks	TL
1.a	Differentiate the processes of unconventional processes based on the energy	C414.1	5	L1
1.b	Explain the un conventional machining process with a neat sketch along with process parameters	C414.1	5	L2
2.a	Explain the Electro chemical machining process with a neat sketch along with process parameters.	C414.2	5	L2
2.b	Solve any two exercise problems on MRR of electro chemical machining processes.	C414.2	5	L3
3.a	Explain the Electric Discharge machining process with a neat sketch along with process parameters.	C414.3	5	L2
3..b	Explain the Electric Discharge grinding, wire EDM process with neat sketches.	C414.3	5	L2
4.a	Explain the Electron Beam machining process with a neat sketch along with process parameters.	C414.4	5	L2
4.b	Explain the Laser Beam machining process with a neat sketch along with process parameters.	C414.4	5	L2
5.a	Explain the Plasma Arc machining process with a neat sketch along with process parameters.	C414.5	5	L2
5.b	List out different applications of Plasma Arc machining Process.	C414.5	5	L2
6.a	Explain the Abrasive jet machining process with a neat sketch along with process parameters	C414.6	5	L2
6.b	Explain Magnetic abrasive finishing, abrasive flow finishing, Electron stream drilling.	C414.6	5	L2

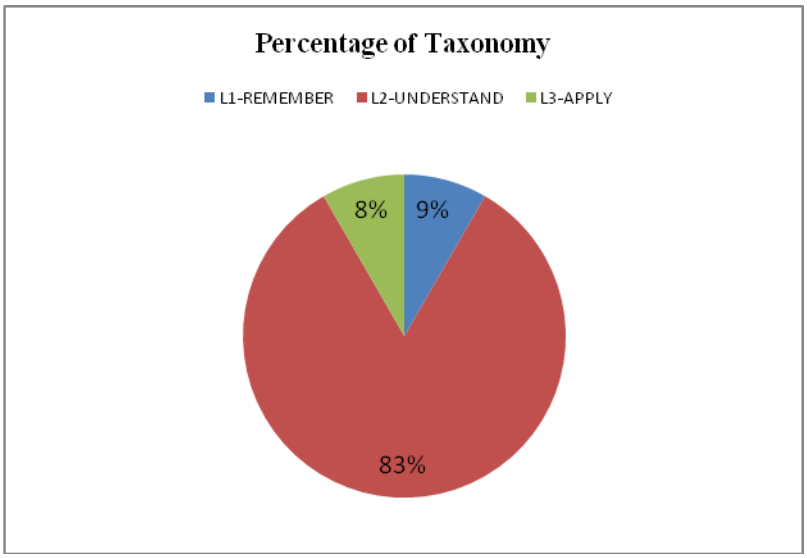
PERCENTAGE OF CO

ASSIGNMENT NUMBER	CO-1	CO-2	CO-3	CO-4	CO-5	CO-6
1	16.66					
2		16.66				
3			16.66			
4				16.66		
5					16.66	
6						16.66

S.NO	COURSE OUTCOME	MARKS	% OF MARKS
1	C414.1	10	16.66
2	C414.2	10	16.66
3	C414.3	10	16.66
4	C414.4	10	16.66
5	C414.5	10	16.66
6	C414.6	10	16.66

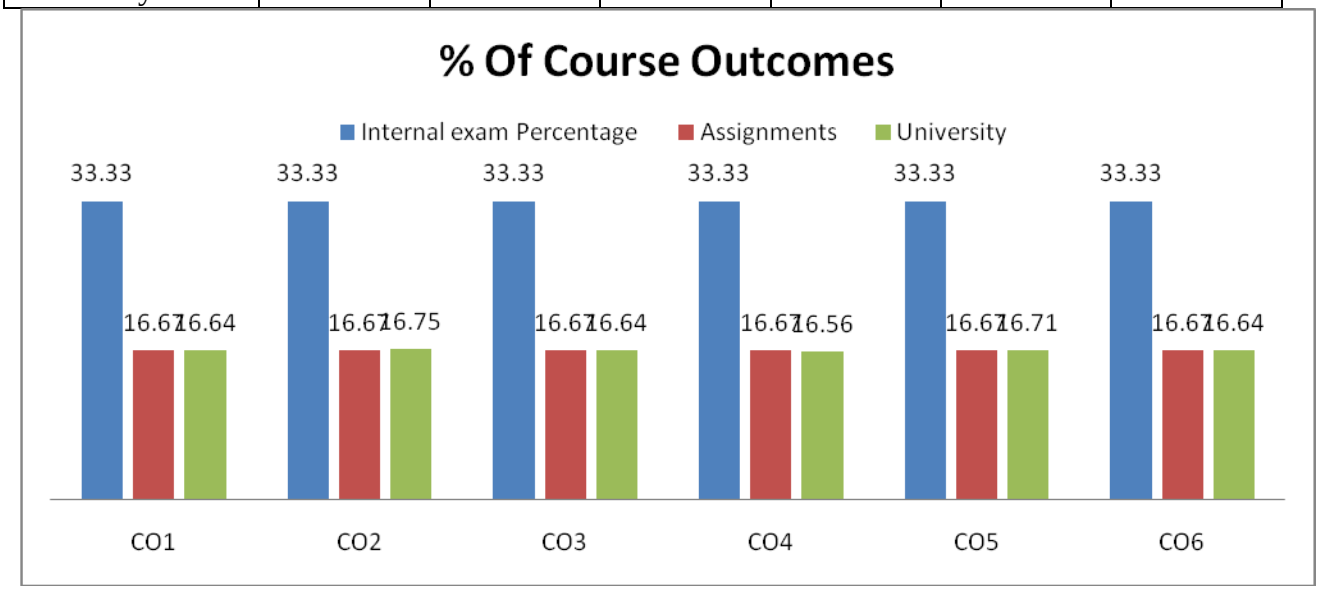


S.NO	TAXONOMY LEVEL	MARKS	% OF MARKS
1	L1-REMEMBER	5	8.33
2	L2-UNDERSTAND	50	83.33
3	L3-APPLY	5	8.33
4	L4-ANALYZE	0	0
5	L5-EVALUATE	0	0
6	L6-CREATE	0	0



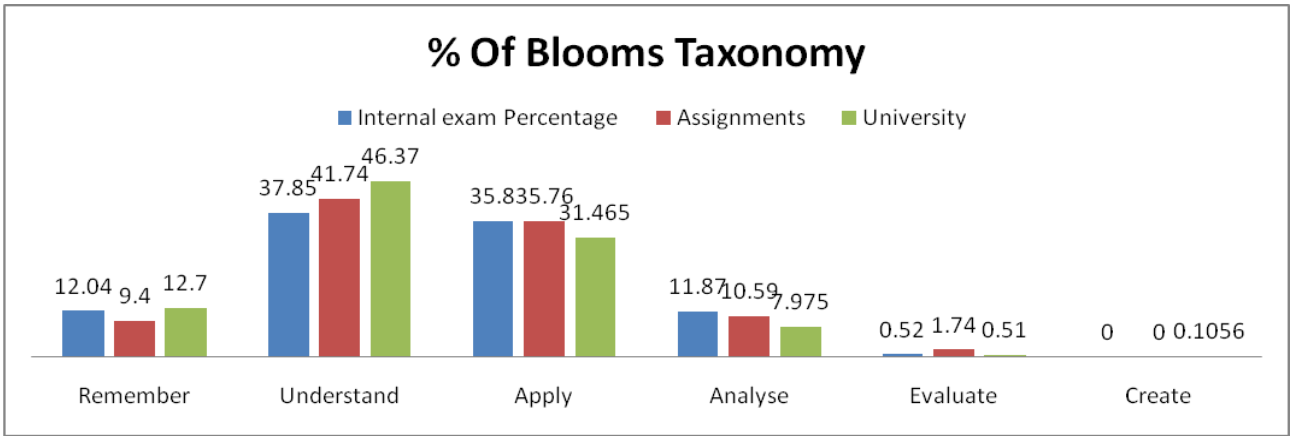
Average levels of evaluation for the COs (2017-18):

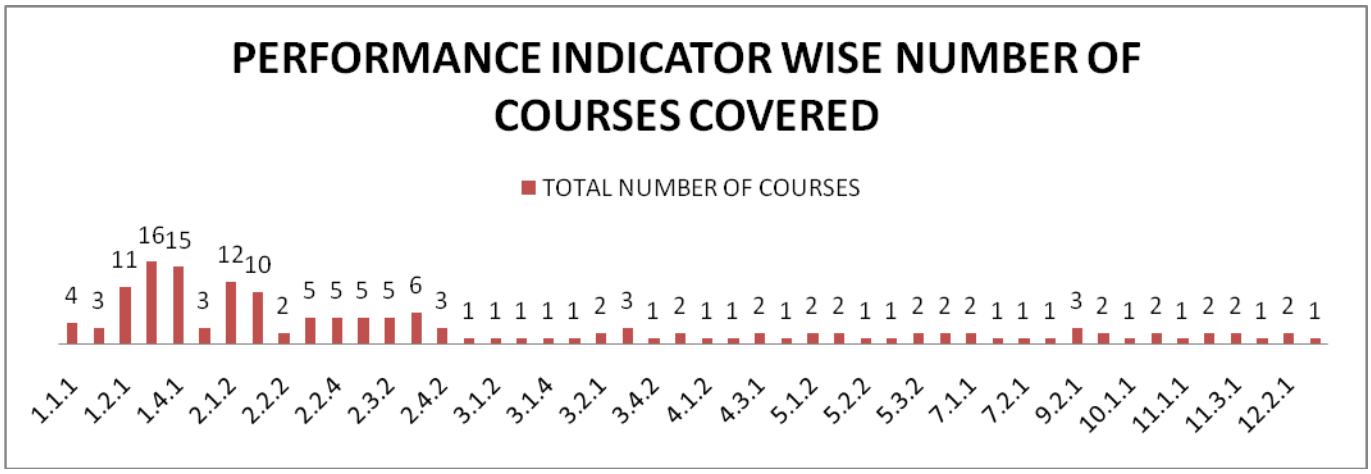
COs	CO1	CO2	CO3	CO4	CO5	CO6
Internal exam Percentage	33.33	33.33	33.33	33.33	33.33	33.33
Assignments	16.67	16.67	16.67	16.67	16.67	16.67
University	16.64	16.75	16.64	16.56	16.71	16.64

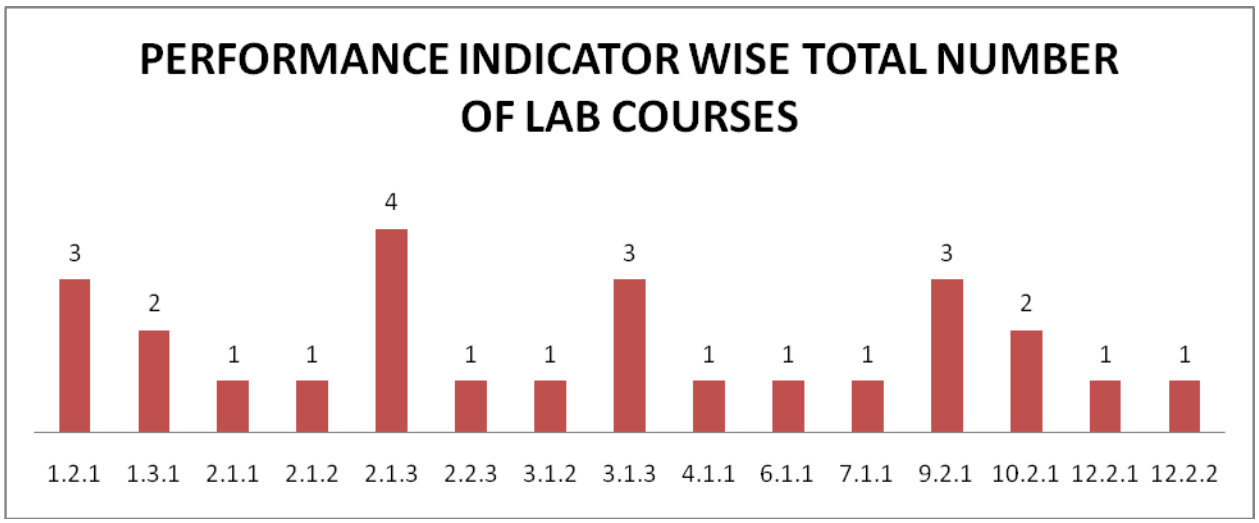


Average levels of Taxonomy evaluation:

COs	Remember	Understand	Apply	Analyse	Evaluate	Create
Internal exam Percentage	12.04	37.85	35.80	11.87	0.52	0
Assignments	9.40	41.74	35.76	10.59	1.74	0
University	12.70	46.37	31.465	7.975	0.51	0.1056

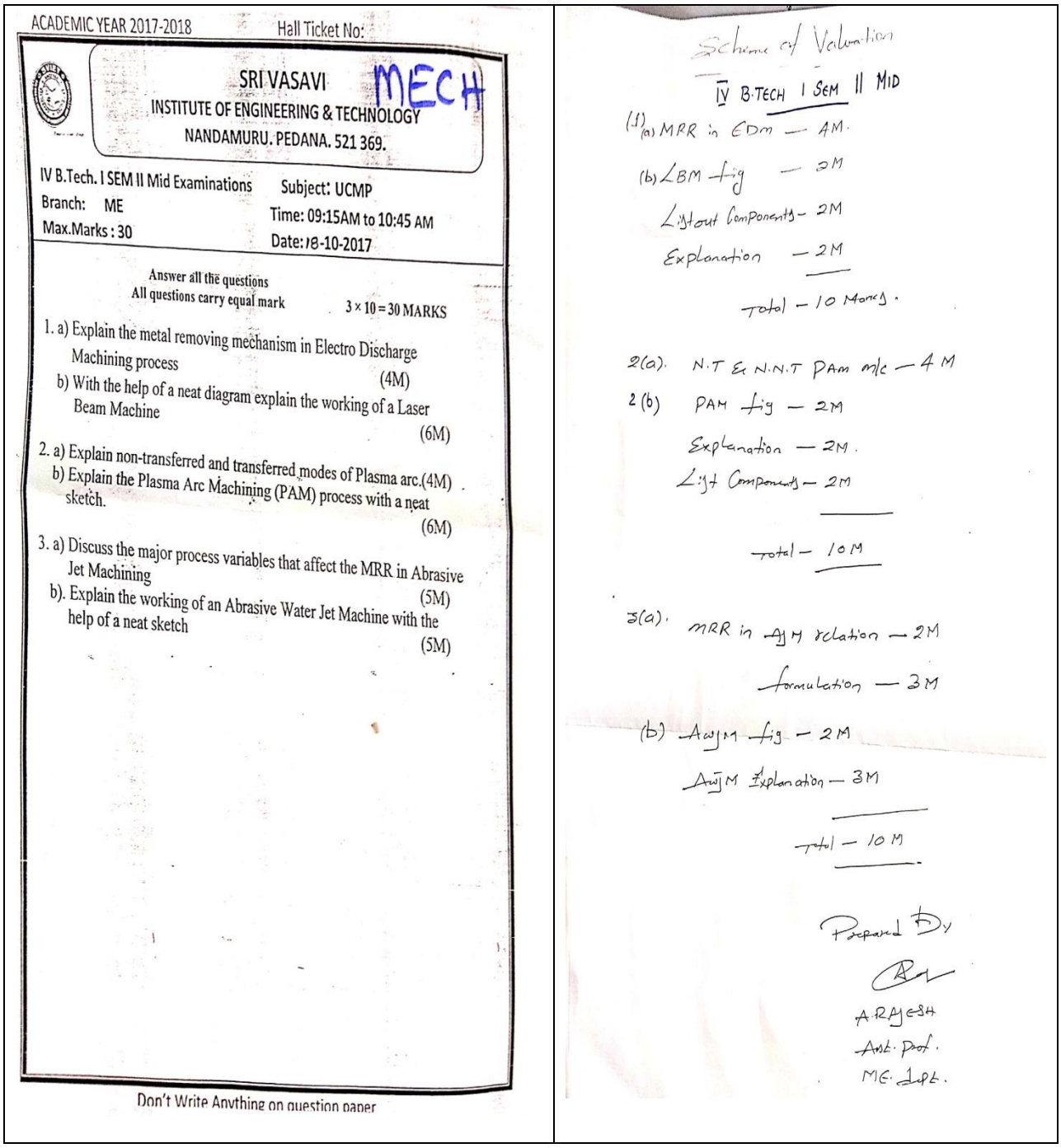






Explanation for scheme of evaluation, grievances both internal and end exam.

- There will be two internal examinations for each semester which are evaluated by conducting two descriptive exams (Each 15 marks), two online examinations (Each 10 marks) and assignments (5 Marks).
- The scheme of evaluation will be prepared by concern faculty member with division of marks.
- The answer booklets will be given to the students after evaluation and if any grievance like counting problem happens then it will be rectified by the concern faculty at the same time.
- Any grievance in the end examination can be applied to the university in the form of Recounting and Re- Valuation.



ACADEMIC YEAR 2017-2018 Hall Ticket No:

SRI VASAVI MECH
INSTITUTE OF ENGINEERING & TECHNOLOGY
NANDAMURU. PEDANA. 521 369.

IV B.Tech. I SEM II Mid Examinations Subject: UCMP
Branch: ME Time: 09:15AM to 10:45 AM
Max.Marks : 30 Date: 18-10-2017

Answer all the questions
All questions carry equal mark 3 × 10 = 30 MARKS

1. a) Explain the metal removing mechanism in Electro Discharge Machining process (4M)
   b) With the help of a neat diagram explain the working of a Laser Beam Machine (6M)
2. a) Explain non-transferred and transferred modes of Plasma arc.(4M)
   b) Explain the Plasma Arc Machining (PAM) process with a neat sketch. (6M)
3. a) Discuss the major process variables that affect the MRR in Abrasive Jet Machining (5M)
   b). Explain the working of an Abrasive Water Jet Machine with the help of a neat sketch (5M)

Don't Write Anything on question paper

Scheme of Valuation

IV B.TECH I SEM II MID

(1) (a) MRR in EDM — 4M.
(b) LBM fig — 2M
Layout Components — 2M
Explanation — 2M
Total — 10 Marks.

2(a). N.T & N.N.T PAM m/c — 4 M
2(b) PAM fig — 2M
Explanation — 2M.
Layt Components — 2M
total — 10M

3(a). MRR in AJM relation — 2M
formulation — 3M
(b) AWJM fig — 2M
AWJM Explanation — 3M
Total — 10 M

Prepared By
A. RAJESH
Asst. Prof.
ME. Dept.

2.2.3 Quality of Student Projects

(Quality of the project is measured in terms of consideration to factors including, but not limited to, environment, safety, ethics, cost, type (application, product, research, review etc.) and standards. Processes related to project identification, allotment, continuous monitoring, evaluation including demonstration of working prototypes and enhancing the relevance of projects. Mention Implementation

details including details of POs and PSOs addressed through the projects with justification)

Project Allocation:

1. Faculty names with area of specialization will be displayed in the notice board

- At the beginning of the academic year, project coordinator will prepare the list of faculty members and major specializations to be offered for the project.
- The major areas of specialization for AY 2018-19 are Thermal Engineering, Machine Design, Production Engineering, CAD/CAM etc.

Sl. No.	Name of the Faculty	Area of Specialization
1	Dr A.B.Srinivasa Rao	Production Engineering, Automobile Engineering
2	Dr. D. Raja Ramesh	Production Engineering
3	V. Vijaya Bhaskar	Machine Design, Production Engineering
4	V. Sridhar Reddy	Machine Design, Thermal Engineering
5	P. Satyanarayana	CAD/CAM, Production Engineering
6	K .Ravi	Thermal Engineering
7	A.Rajesh	Thermal Engineering
8	K. Sukumar	Thermal Engineering
9	P.Charitha Krishna	Thermal Engineering
10	V.Sai mounica	Machine Design
11	Ch.Anusha	Machine Design
12	T. Eswar Rao	Thermal Engineering
13	V. Satish Kumar	CAD/CAM

2. Student project batches will be formed based on their pass percentage

- Student batch will be formed for boys and girls separately
- number of batches = total number of students / 4

- Students are arranged in the ascending order based on their overall pass percentage up to 3rd year 2nd semester.
- Assign the batch numbers to the students from 1 to last batch number and last batch number to 1. This process is continued for all the students.
- Students who got same batch number will be grouped as one batch

Sl.No	Roll.No	Student Name	Agg %	Batch
1	15MQ1A0338	Pinninti Ravi Kumar	73.11	1
2	16MQ5A0305	Katta Naga Raju	70.92	2
3	15MQ1A0337	Pinniboyina Prudhviraj	70.79	3
4	15MQ1A0352	Yarlagadda Ajay Babu	69.33	4
5	15MQ1A0350	Veeranala Sai Mohan	64.55	4
6	15MQ1A0333	Pallikonda John Srinu Babu	64.2	3
7	15MQ1A0332	Nidadhavilu Naga Durga Ayyappa	63.85	2
8	16MQ5A0311	Palisetti A Manikanta Vital Sundeep	63.01	1
9	15MQ1A0319	Karre Uma Maheswara Rao	62.59	1
10	15MQ1A0320	Katragadda N V Sanjeev Kumar	61.11	2
11	15MQ1A0307	Cheveti Aadi Prathap	59.8	3
12	15MQ1A0335	Parasa Rajesh	55.95	4
13	15MQ1A0321	Kella Pavan Kumar	55.75	4
14	16MQ5A0309	Naraharisetti Sai Krishna	55.61	3
15	15MQ1A0324	Matta Mohana Sai Krishna	51.5	2
16	15MQ1A0329	Mohammed Rizwan	50.01	1
17	16MQ5A0303	Bolla Venkatesh	75.57	5
18	16MQ5A0320	Vinnakota Pavan Kalyan	72.95	6
19	16MQ5A0308	Mohammad Sharukh Aleekhan	71.83	7
20	16MQ5A0319	Vemula Phani Babu	71.66	8

21	15MQ1A0308	Chilamkurthi Balarama Krishna	70.21	9
22	16MQ5A0315	Pulligadda Sudhakar	68.77	10
23	15MQ1A0309	Chittibomma Vijaya Babu	67.52	11
24	16MQ5A0302	Avula Pavan Japanya	67.27	12
25	15MQ1A0303	Arja Prasanth Babu	67.02	13
26	15MQ1A0311	Gandham Naga Subrahmanyam	66.97	14
27	16MQ5A0310	Nikku Sai Ram	65.76	14
28	16MQ5A0317	Sambhangi Ravi Teja	65.68	13
29	15MQ1A0339	Potti Naveen	65.61	12
30	15MQ1A0325	Meer Hasnath Ali	65.33	11
31	16MQ5A0316	Puppala Lakshmi Sai Hanuman	64.77	10
32	16MQ5A0312	Pappala Sikhindar Datha Ganesh	62.41	9
33	15MQ1A0349	Vaddadi Durga Madhan Kumar	62.19	8
34	15MQ1A0327	Meka Siva Teja	61.81	7
35	16MQ5A0304	Kagitha Naga Raju	61.29	6
36	15MQ1A0342	Reddim Sairam	61.28	5
37	16MQ5A0307	Marturu Yaswanth Leela Sai Kumar	60.73	5
38	16MQ5A0314	Potnuri Sai Kumar	60.52	6
39	15MQ1A0347	Tummala Ramanarayana	60.43	7
40	16MQ5A0306	Mamidi V V Raghavendra Pavan Kalyan	60.39	8
41	15MQ1A0330	Mukku Anil Kumar	60.03	9
42	16MQ5A0318	Somagani Durga Sai Ram	59.23	10
43	16MQ5A0313	Penumudi Vijaya Babu	58.75	11

44	15MQ1A0351	Veeranki Saibabu	58.47	12
45	15MQ1A0310	Davu Veera Venkata Siva Krishna	58.44	13
46	15MQ1A0345	Thokala Durga Rao	57.58	14
47	15MQ1A0343	Singamsetti N Venkata Sai Vital	57.46	14
48	15MQ1A0346	Thummalapalli Tarun Lokesh	57.31	13
49	15MQ1A0316	Jogi Lakshmi Veera Teja	56.43	12
50	16MQ5A0301	Adapala Surendra Surya Manikanta	55.83	11
51	15MQ1A0344	Tankasala Ajay Kumar	55.25	10
52	15MQ1A0305	Bandedla Jyothi Prakash	54.57	9
53	15MQ1A0318	Kagitha V V Naga Anjaneyulu	53.38	8
54	14MQ1A0338	Rajulapati Venkateswara Rao	52.71	7
55	15MQ1A0340	Ramadeni Sirimohith	52.53	6
56	15MQ1A0302	Anumukonda Veera Brahmam	52.28	5
57	15MQ1A0304	Badde Sai Kirankumar	51.27	5
58	15MQ1A0322	Kollu V V Siva Anka Babu	50.62	6
59	15MQ1A0341	Ravi Sai Balaji	50.01	7
60	15MQ1A0326	Meesala Mahesh	49.89	8
61	15MQ1A0317	Kagita Seshu	44.13	9
62	15MQ1A0336	Peddireddy Rushikesh	41.26	10
63	15MQ1A0348	Tummalacherla Sai Kiran	40.08	11

3. Project coordinator will collect the area of interest from all the project batches.

S. No	Roll.No	Batch	Area of interest
1	15MQ1A0338	1	Manufacturing Technology, Thermal Engineering, Automobile Engineering
2	16MQ5A0311		
3	15MQ1A0319		
4	15MQ1A0329		
5	16MQ5A0305	2	Manufacturing Technology, Thermal Engineering, Machine Design
6	15MQ1A0332		
7	15MQ1A0320		
8	15MQ1A0324		
9	15MQ1A0337	3	Manufacturing Technology, Thermal Engineering, CNC
10	15MQ1A0333		
11	15MQ1A0307		
12	16MQ5A0309		
13	15MQ1A0352	4	Manufacturing Technology, Thermal Engineering
14	15MQ1A0350		
15	15MQ1A0335		
16	15MQ1A0321		
17	16MQ5A0303	5	Manufacturing Technology, Thermal Engineering, Automobile Engineering
18	15MQ1A0342		
19	16MQ5A0307		
20	15MQ1A0302		
21	15MQ1A0304		
22	16MQ5A0320	6	Manufacturing Technology, Thermal Engineering, Automobile Engineering
23	16MQ5A0304		
24	16MQ5A0314		
25	15MQ1A0340		
26	15MQ1A0322		
27	16MQ5A0308	7	Thermal Engineering
28	15MQ1A0327		
29	15MQ1A0347		
30	14MQ1A0338		
31	15MQ1A0341		
32	16MQ5A0319	8	Manufacturing Technology, Thermal Engineering
33	15MQ1A0349		
34	16MQ5A0306		
35	15MQ1A0318		
36	15MQ1A0326		
37	15MQ1A0308	9	Manufacturing Technology, Machine Design
38	16MQ5A0312		

39	15MQ1A0330		
40	15MQ1A0305		
41	15MQ1A0317		
42	16MQ5A0315	10	Thermal Engineering
43	16MQ5A0316		
44	16MQ5A0318		
45	15MQ1A0344		
46	15MQ1A0336		
47	15MQ1A0309	11	Manufacturing Technology, Thermal Engineering, CAD/CAM
48	15MQ1A0325		
49	16MQ5A0313		
50	16MQ5A0301		
51	15MQ1A0348		
52	16MQ5A0302	12	Thermal Engineering, Automobile Engineering
53	15MQ1A0339		
54	15MQ1A0351		
55	15MQ1A0316		
56	15MQ1A0303	13	Manufacturing Technology, Thermal Engineering
57	16MQ5A0317		
58	15MQ1A0310		
59	15MQ1A0346		
60	15MQ1A0311	14	Manufacturing Technology, Thermal Engineering, Machine Design
61	16MQ5A0310		
62	15MQ1A0345		
63	15MQ1A0343		

4. Project batch students will approach the faculty member with respect to their area of interest.

5. Faculty will give their approval to the project batch based on first cum first serve.

6. Every faculty will guide only one batch from each section.

7. Project batches along with their guide details will be displayed in the notice board.

8. The students will discuss with their project guide to finalize the topic. The students and project guide will share their ideas and one of the project topic will be finalized.

S. No	Roll No	Batch	Guide Name	Topic	Selected Topic	Pos
1	15MQ1A0338	1	Dr.A.B.Srinivasa Rao/ T.Eswar Rao	High temperature friction and wear behavior of tungsten copper alloys	Design and Fabrication of Go- Kart	PO1,PO2,PO3, PO4, PO6,PO7, PO8,PO9,PO10,PO11,PO12
2	16MQ5A0311					
3	15MQ1A0319			Design and fabrication of water cooler cum air conditioner		
4	15MQ1A0329					
5	16MQ5A0305	2	Dr.D.Raja Ramesh	Design and fabrication of four way hacksaw machine	Design and Analysis of Bullock cart with roatating and lifting mechanism	PO1,PO2,PO3, PO5, PO8,PO9,PO10,PO11,PO12
6	15MQ1A0332					
7	15MQ1A0320			Design and fabrication of solar operated wood cutter		
8	15MQ1A0324					
9	15MQ1A0337	3	V. Sridhar Reddy	A design and analysis of vertical axis wind turbine	Design of vibrational test fixture for Opto electronic equipment	PO1,PO2,PO3, PO8,PO9,PO10,PO11,PO12
10	15MQ1A0333					
11	15MQ1A0307			Multi purpose wheel chair for disabled persons		
12	16MQ5A0309					
13	15MQ1A0352	4	V.Vijaya Bhaskar	Design of a manually operated paper recycling machine	Part programme for cam lenses	PO1,PO2,PO3, PO4,PO8,PO9, PO10,PO11,PO12
14	15MQ1A0350					
15	15MQ1A0335			Automated and genric FEM analysis of a industrial robo design		
16	15MQ1A0321					
17	16MQ5A0303	5	P.Satyanarayana	Effect of Zr on the amorphisation of Cu-Ni-Zr alloys prepared by mechanical alloying	Design and Fabrication of Go- Kart	PO1,PO2,PO3, PO4, PO6,PO7, PO8,PO9,PO10,PO11,PO12
18	15MQ1A0342					
19	16MQ5A0307					
20	15MQ1A0302			Effect of process control agent on alloying and mechanical		

21	15MQ1A0304			behavior of $L2_1$ phase NIi-Ti-Al alloys		
22	16MQ5A0320	6	K.Ravi/ V.Satish Kumar	Comparitive analysis of different refrigerants in a water cooler test rig	Design and Fabrication of Go- Kart	PO1,PO2,PO3, PO8,PO9,PO10,PO11,PO12
23	16MQ5A0304					
24	16MQ5A0314			Imroving photovoltaic module efficiency using water cooling		
25	15MQ1A0340					
26	15MQ1A0322					
27	16MQ5A0308	7	A.Rajesh	Design and fabrication of solar cooler	Design and Fabrication of Water Cooler test rig	PO1,PO2,PO3, PO6,PO7,PO8, PO9,PO10,PO11,PO12
28	15MQ1A0327					
29	15MQ1A0347			Design and pedicab with fluid power regenerative breaking		
30	14MQ1A0338					
31	15MQ1A0341					
32	16MQ5A0319	8	K.Sukumar	Design and fabrication of motorized screw jack for a four wheeler	Design and Analysis of Domaetic refrigirator test rig	PO1,PO2,PO3, PO6,PO7,PO8, PO9,PO10,PO11,PO12
33	15MQ1A0349					
34	16MQ5A0306			Catalytic Converter for cars		
35	15MQ1A0318					
36	15MQ1A0326					
37	15MQ1A0308	9	V.Sai Mounica	Design fabrication of sand sieving machine	Design and Fabrication of Sand filter and separator	PO1,PO2,PO3, PO8,PO9,PO10,PO11,PO12
38	16MQ5A0312					
39	15MQ1A0330			Design and fabrication of sand sieving machine		
40	15MQ1A0305					
41	15MQ1A0317					
42	16MQ5A0315	10	P.Charitha Krishna	Fabrication of air condition integrated with water cooler and water heater	Design and Fabrication of	PO1,PO2,PO3, PO6,PO7,PO8,
43	16MQ5A0					

	316				Water Cooler test rig	PO9,PO10,PO 11,PO12
44	16MQ5A0 318					
45	15MQ1A0 344			Design and implementation of vehicle mounted wind turbine		
46	15MQ1A0 336					
47	15MQ1A0 309	11	Ch.Anusha	Design and analysis of clutch plate	Machining of OG main housing	PO1,PO2,PO3, PO8,PO9,PO1 0,PO11,PO12
48	15MQ1A0 325					
49	16MQ5A0 313			Design of frictionless braking system		
50	16MQ5A0 301					
51	15MQ1A0 348					
52	16MQ5A0 302	12	K.Ravi	Design and fabrication of paddy cleaner	Design and Analysis of Domestic refrigerator test rig	PO1,PO2,PO3, PO6,PO7,PO8, PO9,PO10,PO 11,PO12
53	15MQ1A0 339					
54	15MQ1A0 351			To record mass flow rate, pressures and temperatures of a house hold refrigerators during on/off cyclic mode		
55	15MQ1A0 316					
56	15MQ1A0 303	13	V.Vijaya Bhaskar	Fabrication solar power operated air cooling system	Design of vibrational test fixture for Opto electronic equipment	PO1,PO2,PO3, PO4, PO8,PO9,PO1 0,PO11,PO12
57	16MQ5A0 317					
58	15MQ1A0 310			Design and fabrication of hydraulic heavy sheet metal cutting machine		
59	15MQ1A0 346					
60	15MQ1A0 311	14	P.Satyanarayana	Ultrasonic grain refinement of die cast copper alloys	Effect of Alloying elements on Mechanical properties of Aluminum alloys.	PO1,PO2,PO3, PO8,PO9,PO1 0,PO11,PO12
61	16MQ5A0 310					
62	15MQ1A0 345			Design and fabrication of four way hacksaw machine		
63	15MQ1A0 343					

9. The finalized topic abstract will be submitted to project coordinator

10. The project coordinator will display the Project batch and corresponding guide information in the notice board

10. Head of the department will form the review committee with four members. They are Hod, project coordinator (one of the Senior faculty member in the department), Senior faculty member and guide.

11. The following faculties are nominated as the Project Review Committee members for the Academic year 2018-19.

1. Supervisor
2. Mr. V. Vijaya Bhaskar (Senior Faculty)
3. Mr. K. Sukumar (Project Coordinator)
4. Dr. D. Raja Ramesh (HOD)

12. The project coordinator will consult the HOD to finalize the Project review dates for internal project evaluation. The same will be displayed on notice board.

S.No	**Review#**	**Dates**	**Remarks**
1	Review 0	18-12-2018	Project Title Approval
2	Review 1	04-02-2019 & 05-02-2019	Analysis and Design
3	Review 2	25-02-2019 & 26-02-2019	Progress of Work, Verification of Results
4	Review 3	18-03-2019 & 19-03-2019	Result Analysis, Rough book submission

Monitoring & Evaluation of Project:

13. Review 0 will be conducted by the review committee members to finalize the project topic.

14. The finalized student topics along with their guide name will be displayed on notice board.

Roll.No	Title of the Project	Batch	Guide Name	Related PO
15MQ1A0338 16MQ5A0311 15MQ1A0319 15MQ1A0329	Design and Fabrication of Go- Kart	**1**	Dr.A.B.Srinivasa Rao/ T. Eswar Rao	PO1,PO2,PO3,PO4, PO6,PO7, PO8,PO9,PO10,PO11 ,PO12
16MQ5A0305 15MQ1A0332 15MQ1A0320 15MQ1A0324	Design and Analysis of Bullock cart with roatating and lifting mechanism	2	Dr.D.Raja Ramesh	PO1,PO2,PO3,PO5, PO8,PO9,PO10,PO11 ,PO12
15MQ1A0337 15MQ1A0333 15MQ1A0307 16MQ5A0309	Design of vibrational test fixture for Opto electronic equipment	3	V.Sridhar Reddy	PO1,PO2,PO3,PO8,P O9,PO10,PO11,PO12
15MQ1A0352 15MQ1A0350 15MQ1A0335 15MQ1A0321	Part programme for cam lenses	4	V.Vijaya Bhaskar	PO1,PO2,PO3,PO4,P O8,PO9,PO10,PO11, PO12
16MQ5A0303 15MQ1A0342 16MQ5A0307 15MQ1A0302 15MQ1A0304	Design and Fabrication of Go- Kart	5	P.Satyanarayana	PO1,PO2,PO3,PO4, PO6,PO7, PO8,PO9,PO10,PO11 ,PO12
16MQ5A0320 16MQ5A0304 16MQ5A0314 15MQ1A0340 15MQ1A0322	Design and Fabrication of Go- Kart	6	K.Ravi/V. Satish Kumar	PO1,PO2,PO3,PO8,P O9,PO10,PO11,PO12
16MQ5A0308 15MQ1A0327 15MQ1A0347 14MQ1A0338	Design and Fabrication of Water Cooler test	7	A.Rajesh	PO1,PO2,PO3,PO6,P O7,PO8,PO9,PO10,P O11,PO12

15MQ1A0341	rig			
16MQ5A0319 15MQ1A0349 16MQ5A0306 15MQ1A0318 15MQ1A0326	Design and Analysis of Domaetic refrigirator test rig	8	K.Sukumar	PO1,PO2,PO3,PO6,PO7,PO8,PO9,PO10,PO11,PO12
15MQ1A0308 16MQ5A0312 15MQ1A0330 15MQ1A0305 15MQ1A0317	Design and Fabrication of Sand filter and seperator	9	V.Sai Mounica	PO1,PO2,PO3,PO8,PO9,PO10,PO11,PO12
16MQ5A0315 16MQ5A0316 16MQ5A0318 15MQ1A0344 15MQ1A0336	Design and Fabrication of Water Cooler test rig	10	P.Charitha Krishna	PO1,PO2,PO3,PO6,PO7,PO8,PO9,PO10,PO11,PO12
15MQ1A0309 15MQ1A0325 16MQ5A0313 16MQ5A0301 15MQ1A0348	Machining of OG main housing	11	Ch.Anusha	PO1,PO2,PO3,PO8,PO9,PO10,PO11,PO12
16MQ5A0302 15MQ1A0339 15MQ1A0351 15MQ1A0316	Design and Analysis of Domestic refrigirator test rig	12	K.Ravi	PO1,PO2,PO3,PO6,PO7,PO8,PO9,PO10,PO11,PO12
15MQ1A0303 16MQ5A0317 15MQ1A0310 15MQ1A0346	Design of vibrational test fixture for Opto electronic equipment	13	V.Vijaya Bhaskar	PO1,PO2,PO3,PO4,PO8,PO9,PO10,PO11,PO12
15MQ1A0311 16MQ5A0310 15MQ1A0345 15MQ1A0343	Effect of Alloying elements on Mechanical properties of Alluminium alloys.	14	P.Satyanarayana	PO1,PO2,PO3,PO8,PO9,PO10,PO11,PO12

Project PO mapping justification

Project Title: Design and Fabrication of Multi Purpose machine tool

Name of the Supervisor: P. Satyanaraya Year & Semester: IV Year II Sem

Course Code: C425 Academic Year: 2017 – 18

Student Names:	L. Durga Prasad	15MQ5A0308
	V.Anand Srinivas	15MQ5A0317
	P. S. V Avinash	14MQ1A0337
	M. Vara Prasad	14MQ1A0325
	N. V. S. S Rama Krishna	14MQ1A0327

Name of Course from which Principles are applied in this project	Related Course Outcome Number	Description of the application	Attained PO
Main Project	C425.1	Write an abstract and explaining the requirements, design, implementation and testing strategies	PO1
CATIA	C417.2	Study the introduction about CATIA	PO2, PO5
Main Project	C426.2	Collect the related document for performance of machine tools by referring various journals, books and web references.	PO12
Design	C313.1	Identify the methodology to design machine tool	PO4
Main Project	C426.3	Develop the project in a collective manner by applying their knowledge and should not copy from others, Time duration and Cost	PO8, PO11
Fabrication, Assemble and Testing	C312.3	Fabricate, Assembly and test the Multi Purpose machine tool	PO3
Main Project	C426.4	Write the summary of the project	PO10
Main Project	C426.5	Describe the advantages and usefulness of the project over a existing project	PO6
Main Project	C426.6	Demonstrate the project individual and in a group	PO9

15. Students will meet the guide regularly and discuss the project progress.

16. Reviews will be conducted as per the dates announced earlier. The Review committee members will assess the students and give suggestions if required.

17. HoD and senior faculty member will evaluate the project based on student presentation (20M) and viva-voce (20M).

18. The project coordinator will display the marks by considering guide marks (20M) and average marks of Review (40M) and displayed on the notice board.

19. After final review, the project coordinator will average the marks of three reviews and display them in the notice board.

Project Assessment, Project outcomes:

20. The project coordinator will send a notice to submit the final project copy along with CD.

21. The project coordinator will display the external evaluation schedule after receiving the letter from the JNTUK.

22. On behalf of departmental student association a Project Expo will be conducted and prizes will be awarded.

23. Best projects are identified based on external examiner feedback, awards won and paper publication and the list will be displayed on the notice board.

Assessment Parameter with weightage	Actual attainment	**Attainment with weightage**
Academic performance (60% Weightage)	3.00	1.8
Project Outcomes (Prizes/Prototypes/Publications/Best project) (40%)	2	0.6
Overall Attainment		**2.60**

BATCH	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
1	2.20	2.20	2.20	1.47	1.47	1.47	1.47		0.73	2.20	0.73	1.47	0.73	1.00

Best Project Evaluation scheme

- Innovations and creativity of the project
- Review of literature and related studies about the project.
- Implementation strategies.
- Listening to and answering questions.

Sl. No	Roll.No	Student Name	Title of the Project	Name Of The Guide	PO
1	14MQ1A0316	KOLLIPARA N V VENKATA LAKSHMAN KRISHNA	Humanoid Robotic arm Control Using Servo Motors	Dr.D.Raja Ramesh	PO1,PO2,PO3,PO4,PO5,PO6,PO8,PO9,PO10,PO11,PO12
	14MQ1A0315	KOLLI NAGARJUNA			
	15MQ5A0309	LINGAM DHARMA TEJA			
	15MQ5A0307	KUCHARLAPATI ADITYA VARMA			
2	15MQ5A0314	TUMMA S V D VEERA BHADRA CHARI	Model and Fabricaton of Multi diameter drill bit	P.Ajaya Kumar	PO1,PO2,PO3,PO4,PO6,PO7,PO8,PO9,PO10,PO11,PO12
	14MQ1A0310	DAKUPATI VIJAYA SRI RAMA KRISHNA			
	14MQ1A0344	TUMMALACHARLA JITENDRA SIVA NAGA KUMAR			
	14MQ1A0326	MOVVA MANIKANTA			
3	15MQ5A0308	LAKANAM DURGA PRASAD	Design and fabrication of Multipurpose Machine Tools	P.Satyanarayana	PO1,PO2,PO3,PO4,PO5,PO6,PO7,PO8,PO9,PO10,PO11,PO12
	15MQ5A0317	V ANAND SRINIVAS			
	14MQ1A0337	PUVVADA SAI VENKATA AVINASH			
	14MQ1A0325	MOTHUKURI VARA PRASAD			
	14MQ1A0327	NALLAMOTHU VENKATA SAI SIVA RAMA KRISHNA			

Project Expo/ Tech fest details

S.No	Title of the project	Judge	Prize won
1	Automatic Vending Machine	B.Amar Nagendram,DMSSVHCE, Machilipatnam	First

Project Expo Photos:

DETAILS OF WORKING MODELS:

Sl.No	Roll.No	Student Name	Title of the Project	Name Of The Guide
1	14MQ1A0316	KOLLIPARA N V VENKATA LAKSHMAN KRISHNA	Humanoid Robotic arm Control Using Servo Motors	Dr.D.Raja Ramesh
2	14MQ1A0315	KOLLI NAGARJUNA		
3	15MQ5A0309	LINGAM DHARMA TEJA		
4	15MQ5A0307	K.ADITYA VARMA		
5	14MQ1A0306	BORRA VENKATA DURGA NAGENDRA BABU	Design and fabrication of Material Handling Device by Using box Transport Mechanism	P. Charitha Krishna
6	14MQ1A0348	V.V .NAGA LAKSHMI DURGA SAI RAM		
7	14MQ1A0308	C. PREM KUMAR		
8	14MQ1A0314	KATIKALA SAMPATH KUMAR		
9	14MQ1A0336	PEDAPUDI SIVA NAGA LAKSHMI KANTH		

10	15MQ5A0308	LAKANAM DURGA PRASAD	Design and fabrication of Multipurpose Machine Tools	P.Satyanarayana
11	15MQ5A0317	V ANAND SRINIVAS		
12	14MQ1A0337	PUVVADA SAI VENKATA AVINASH		
13	14MQ1A0325	MOTHUKURI VARA PRASAD		
14	14MQ1A0327	NALLAMOTHU VENKATA SAI SIVA RAMA KRISHNA		
15	15MQ5A0304	CHITTAJALLU PRABHU KUMAR	Fabriction of Remote Control Lawn Mower	K. Ravi
16	14MQ1A0324	MIRZA ZAKER HUSSAIN		
17	14MQ1A0319	KOYYANA KANTHA RAO		
18	14MQ1A0329	PAGOLU VIJAY KUMAR		
19	14MQ1A0343	TEKI NAGA MAHESH		
20	15MQ5A0319	SRAVANAM SAI KRISHNA	Manufacturing of Hump for Power Genaration	V. Sai Mounica
21	15MQ5A0306	KODURU PRAVEEN KUMAR		
22	15MQ5A0305	DASI SAI KRISHNA		
23	14MQ1A0340	SANA VIJAYKANTH		
24	14MQ1A0339	RAKKISA KIRAN KUMAR		
25	14MQ1A0333	PARASA SOWJANYA KUMAR	Fabriction of Pedal Powered Centrifugal Pump	P. SATYANARAYANA
26	15MQ5A0315	VANGARA MAHENDRA BALAJI		
27	14MQ1A0346	VITTAMSETTY SUMANTH		
28	14MQ1A0309	CH DAVALAVARUN		
29	13MQ1A0340	PAGOLU SUDHEER		

Photos:

Fabrication of Pedal Powered Centrifugal Pump

Manufacturing of Hump for Power Generation

	
Fabrication of Multipurpose Machine Tools	**Fabrication of Remote Control Lawn Mower**

Review-1

S.NO	Performance Indicator	Marks
1	Title & Feasibility	5
2	Abstract & Depth of Knowledge	5
3	Presentation	5

Review -2

S.NO	Performance Indicator	Marks
1	Design & Analysis	5
2	Implementation Strategy	5
3	Expected Results	5
4	Presentation	5

Review -3

S.NO	Performance Indicator	Marks
1	Implementation & Execution	5
2	Final Report	5
3	Overall Presentation	5

Impact analysis

- New innovative ideas from students form the basis of some projects.
- Skills or abilities of students improved.
- Knowledge on various as Mechanical engineering project management was developed.
- Confidence level of the students was boosted.

2.2.4. Initiatives related to industry interaction

(Give details of the industry involvement in the program such as industry-attached laboratories, partial delivery of appropriate courses by industry experts etc. Mention the initiatives, implementation details and impact analysis)

To strengthen interaction with industries and to keep our students updated with the latest trends in Mechanical Engineering, the Department has entered into an agreement with the following companies with

- Internship
- Project Works for Students
- Industrial Visits
- Students specific Training and Assessment
- Faculty Development Program
- Workshops

S.No	Name of the Organization	Institute/Dept.	From Date	To Date
1	TJL Technologies, Vijayawada	Institution	19.01.2016	19.01.2021
2	SSD Polymers, Machilipatnam	Departmnet	03.12.2018	03.12.2020

Invited talks and seminars from industry resource persons are arranged and department invites the participant from various departments.

SNo	**Resource person**	**Topic**	**Course Name**	**Date / Duration**	**PO/PSO**
1	R.Venkatramaiah, GM,Federal Mogul motor parts India ltd, Chennai	Automobile Braking System	Automobile Engineering	08-09-2018	PO2/PSO2

Automobile Braking System

2017-2018 I SEMESTER

Action Taken	Date	Resource Person with Designation	% of students	PO's	PSO'S
Lecture on Environmental Friendly Composites and their application	28-09-2018	K.Vidya Associate Professor Usha Rama College of Engg,Vijayawada	76	PO12	PSO2
Lecture on Mechanical & Technological properties of engineering materials.	28-07-2017	Dr.B.Amar Nagendram, Professor,DMSSVHCE,Machilipatnam.	70%	PO5	PSO1
Lecture on Factors effecting on performance of vcr cycle	3-10-18	Dr. M R CH SASTRY Professor, Gudlavalleru Engg College,Gudlavalleru	84	PO4	PSO2
Lecture on concept of supply	24-10-17	Y.Priya sagar Asst professor,DIET, Vijayawada	85%	PO5	
Lecture on Air vessels in reciprocating pump.	14-9-18	Dr.M.Srinivas Prof ,Helapuri Engineering college,West Godavari	80	2,3	PSO1
Lecture on Mechnical Vibrations	25-08-2017	Dr.K.Srinivasu Professor R.V.R & J.c College of Engineering,Guntur	80	PO6,PO12	PSO1
Lecture on Milling attachments	25-08-17	K. VIDYA , ASSOCIATE PROFESSOR, URCE,Vijayawada	82	PO4	PSO1
Lecture on Torque transmitting capacity of clutch	20-10-17	Dr.A.Kiran Kumar Prof,DIET,Vijayawada	91	1,2,3	PSO1
Field Visit	15-07-2017	VTPS, Vijayawada	80	PO3	PSO2
Lecture on Recent and emerging trends in Casting	12-12-2017	Dr.B.A.Nagendram, Professor, DMSSVHCE, Machilipatnam	80	PO6,PO12	PSO1
Conducted workshop on Automobile And IC engines	04,05-01-2018	T. Rakesh Sharma, Entrench Electronics	70	PO12	PSO2
Lecture on Flexible	16-10-	Dr.J.A.suresh	85	PO12	PSO1

manufacturing system	2017	Professor HOD Amruth sai Engg College,Paritala			
Lecture on Conversion of differential equation into functional for complex problems to apply Ritz method	03-07-2017	Prof. Kolla Srinivas,R.V.R & J.C College Of Engg,Guntur	89	PO2	PSO2
Lecture on Tool Design in EDM	31-07-2017	Dr. J. S. Sampath Kumar HOD Amrita Sai Institute of science & Technology,Paritala	86.88	PO3	PSO1
Lecture on Recent and emerging applications of Automation	28-06-2017	Dr.T.Nancharaiah Professor, ME Dept, Bapatla Engg. College,Bapatla	83	PO6	PSO1

2017-2018 II SEMESTER

Action Taken	Date	Resource Person with Designation	% of students	PO's	PSO'S
Lecture on Mechanical advantage and transmission angle of mechanisms	27-12-17	Prof.K.Srinivas, RVRJC, Guntur	86	PO4,PO5	PSO1
Lecture on Modern rocket engines	01-02-2018	Dr.P.Prashanthi Professor PVP Siddhartha Engineering college	90	PO12	PSO1
Recent and emerging trends in Casting	12-12-2017	Dr.B.A.Nagendram, Professor, DMSSVHCE, Machilipatnam	80	PO6	PSO2
Lecture on Torque transmitting capacity of clutch	16-2-18	Dr. A. Kiran Kumar Prof, DIET, Viajaywada	87	1,2,3	PSO1
Software's used in industries for assembly drawings	14-12-17	T.Vijaya Bhanu CAD Solutions Vijayawada	78	PO5, PO12	PSO1

Lecture on Standard deviation,,Variance & Probability of completion of Project	4-03-2018	P.NAGARAJU, Associate Professor, NRI College of Engg	74	PO11	PSO2
Taken a practical session to explain Line ,Circle Drawing algorithms	18-12-17	S.Sundeep Saradhi,LBRCE, Mylavaram	88	PO3	PSO1
Lecture on Design of Bevel Gears	15-11-2017	B.Suresh Babu Ramachandra College of Engineering,Eluru	89	PO9	PSO1
Conducted a lab session on designing of Robot arm	28-01-2018	Mr. P. Ajay Kumar	78	PO5	PSO2
Conduction of Heat transfer in 2-dimensions	29-12-2017	Dr.N.Seshaiah, PBR VITS,Kavali, Nellore district	83	PO4,5	PSO2
Lecture on Standard deviation,,Variance & Probability of completion of Project	4-03-2018	P.NAGARAJU, Associate Professor, NRI College of Engg,Guntur	74	PO11	PSO2
Lecture on Working of Domestic air conditioning system	05-03-2018	Dr.A. Ranga Babu, Associate Professor, GEC, Gudlavalleru	80	PO12	PSO2
Lecture on Water supply and treatment	6-02-2018	K.VIDYA ASSOCIATE PROFESSOR USHARAMA COLLEGE OF ENGG,Vijayawada	82	PO2, PO6	PSO1
Lecture on estimate the quality of the product	3-02-2018	B. Ramesh Quality engineer HAL, Banaglore	90	PO7	PSO2
Lecture on Liquid Penetrant Testing and its applications	10-01-2018	Dr. K. Sai Srinadh, Professor, NIT Warangal	75	PO12	PSO2

2.2.5. Initiatives related to industry internship/summer training

(*Mention the initiatives, implementation details and impact analysis****)***

Mechanical Engineering students have been attended the internship in various organizations.

- The students are encouraged to take internship program during their semester break.
- Faculty members give their guidelines, suggestions and scope and contact details of an internship.
- They also help the students by interacting with the industrial experts, provide the students recommendation letters and other necessary supports.
- The alumni coordinator constantly interacts with alumni those who are working in the industries and request them to provide necessary guidelines and supports for their junior's internship.

List of Student Internships:

S.No	Organization	No. of students attended	Duration	Relevance of PO,PSO
1	BEL, Machilipatnam	1	30	PO1,PO2,PO3,PO4,PO5,PO8,PO9,PO10,PO12,PSO2
2	RINL, Visakhapatnam steel plant	8	14	PO1,PO2,PO3,PO8,PO9,PO10,PO12,PSO2

List of Internship Student

S.NO	ROLL NUMBER	NAME OF THE STUDENT	COMPANY	DATE	NO.OF DAYS
1	15MQ1A0316	JOGI LAKSHMI VEERA TEJA	BEL, Machilipatnam	15/05/2018 to 14/06/2018	30
2	15MQ1A0324	MATTA MOHANA SAI KRISHNA	RINL, Visakhapatnam steel plant	04/06/2018 to 16/06/2018	14
3	15MQ1A0347	TUMMALA RAMANARAYANA	RINL, Visakhapatnam steel plant	04/06/2018 to 16/06/2018	14
4	15MQ1A0321	KELLA PAVAN KUMAR	RINL, Visakhapatnam steel plant	04/06/2018 to 16/06/2018	14
5	15MQ1A0320	KATRAGADDA N V SANJEEV KUMAR	RINL, Visakhapatnam steel plant	04/06/2018 to 16/06/2018	14
6	15MQ1A0336	PEDDIREDDY RUSHIKESH	RINL, Visakhapatnam steel plant	04/06/2018 to 16/06/2018	14

7	15MQ1A0322	KOLLU V V SIVA ANKA BABU	RINL, Visakhapatnam steel plant	04/06/2018 to 16/06/2018	14
8	15MQ1A0339	POTTI NAVEEN	RINL, Visakhapatnam steel plant	04/06/2018 to 16/06/2018	14
9	15MQ1A0340	RAMADENI SIRIMOHITH	RINL, Visakhapatnam steel plant	04/06/2018 to 16/06/2018	14

ACADEMIC YEAR : 2017-2018

S.NO	ROLL NUMBER	NAME OF THE STUDENT	COMPANY	DATE	NO.OF DAYS
1	14MQ1A0303	ADIVI SAI MANVITH	RINL, Visakhapatnam steel plant	22/05/2017 to 10/06/2017	21
2	14MQ1A0346	VITTAMSETTY SUMANTH	RINL, Visakhapatnam steel plant	22/05/2017 to 10/06/2017	21

ACADEMIC YEAR : 2016-2017

S.NO	ROLL NUMBER	NAME OF THE STUDENT	COMPANY	DATE	NO.OF DAYS
1	13MQ1A0344	P.Sohel	DRDL, Hyderabad	09/05/2016 to 08/06/2016	30
2	13MQ1A0321	K.V.N Prudhvi	Railway Wagon Workshop, Rayanapadu	11/05/2016 to 10/06/2016	30
3	13MQ1A0316	J. Sai Kumar	ONGC Ltd, Rajahmundry	18/05/2016 to 17/06/2016	30
4	13MQ1A0331	M.N.Mallikharjuna Rao	ONGC Ltd, Rajahmundry	18/05/2016 to 17/06/2016	30

5	13MQ1A0308	B.D.N. Srikanth	ONGC Ltd, Rajahmundry	18/05/2016 to 17/06/2016	30
6	13MQ1A0354	T.Rajith Bhargav	ONGC Ltd, Rajahmundry	18/05/2016 to 17/06/2016	30
7	13MQ1A0343	P. Sri Vamsi	ONGC Ltd, Rajahmundry	18/05/2016 to 17/06/2016	30
8	13MQ1A0336	M. Naga Chaitanya	ONGC Ltd, Rajahmundry	18/05/2016 to 17/06/2016	30
9	13MQ1A0307	J. Naresh	ONGC Ltd, Rajahmundry	18/05/2016 to 17/06/2016	30
10	14MQ5A0308	K. Pavan Kumar	ONGC Ltd, Rajahmundry	18/05/2016 to 17/06/2016	30
11	14MQ5A0309	K. Srinivas	ONGC Ltd, Rajahmundry	18/05/2016 to 17/06/2016	30
12	14MQ5A0313	V.N.S.D. Ravi Teja	ONGC Ltd, Rajahmundry	18/05/2016 to 17/06/2016	30
13	13MQ1A0345	P.Jyothi Krishna Kishore	ONGC Ltd, Rajahmundry	18/05/2016 to 17/06/2016	30
14	13MQ1A0330	M. Phaneedra Sai Rambabu	BEL, Machilipatnam	01/06/2016 to 26/06/2016	27

Faculty coordinator and the student coordinators will prepare a report after completion of the visit by considering the knowledge, experience and feedback for the improvements.

Sample Copy of Feedback forms from students and Employer during Industrial Visit:

FEEDBACK REPORT ON INDUSTRIAL VISIT

CLASS: SEMESTER : ODD/ EVEN A. Y:

Name and Address of Industry Visited:

Date : _____ Duration : _____

Beneficiary Dept : Year/Semester:

Total No. of Students : _____

Industrial Visit organized by:

Name of Industrial Visit in-charge and other Faculty who accompanied the students:

Contact Person at Industry:

Visit related to the subject:

During visit the students were taken to following Departments in the Industry

Names of Student who offered feedback (Feedback enclosed)

1.
2.
3.

Sign. of Industrial Visit in- charge with Seal

Encl: Please Enclose the Letter received from the Industry

Attach if any Photograph has been taken during Visit

FEEDBACK FROM EMPLOYER/INDUSTRY

a) Name of the Organization :

b) Name of the Officer and Designation:

c) Name of the Employee :

d) Please provide your comments on the following:

1.	Performance of the Students	□ Excellent	□ Good	□ Average	□ Fair
2.	Technical Skills	□ Excellent	□ Good	□ Average	□ Fair
3.	Attitude	□ Excellent	□ Good	□ Average	□ Fair
4.	Interpersonal Skills	□ Excellent	□ Good	□ Average	□ Fair
5.	Passion for Growth	□ Excellent	□ Good	□ Average	□ Fair

e) Would you like to consider our students for future employment: Yes/No.

f) What are your advices for further improvements on our candidates?

Impact Analysis of industrial training/ internship

a. Gain Valuable Work Experience
b. Have an Edge in the Job Market
c. Transition into a Job
d. Decide if this is the Right Career for You
e. Networking Opportunities
f. Apply Classroom Knowledge

g. Gain Confidence

h. Team Management

i. Communication Skill improvement

Industrial Visits

- The students are encouraged to visit industries.
- Faculty members give their guidelines, suggestions and scope and contact details of an industry.
- They also help the students by interacting with the industrial experts, provide the students recommendation letters and other necessary supports.

S.No	Organization	No. of students visited	Duration	Relevance of PO,PSO
Academic Year:2018-19: Nil				
Academic Year:2017-18:				
1	NTTPS, Vijayawada.	58	1	PO9,PO10,PSO2
Academic Year:2016-17:				
1	Kumar Pumps, Tenali.	45	1	PO9,PO10,PSO2

Impact Analysis of industrial visits

a. Decide if this is the Right Career for You

b. Networking Opportunities

c. Team Management

d. Communication Skill improvement

3. COURSE OUTCOMES AND PROGRAM OUTCOMES (120)

3.1. Establish the correlation between the courses and the Program Outcomes (POs) and Program Specific Outcomes (PSOs) (20)

(Program Outcomes as mentioned in Annexure I and Program Specific Outcomes as defined by the Program)

Program Outcomes:

1. **ENGINEERING KNOWLEDGE**: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
2. **PROBLEM ANALYSIS**: Identify, formulate, research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
3. **DESIGN/DEVELOPMENT OF SOLUTIONS**: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
4. **CONDUCT INVESTIGATIONS OF COMPLEX PROBLEMS**: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
5. **MODERN TOOL USAGE**: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.
6. **THE ENGINEER AND SOCIETY**: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
7. **ENVIRONMENT AND SUSTAINABILITY**: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
8. **ETHICS**: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
9. **INDIVIDUAL AND TEAM WORK**: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
10. **COMMUNICATION**: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, give and receive clear instructions.
11. **PROJECT MANAGEMENT AND FINANCE**: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.

12. **LIFE-LONG LEARNING**: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

Program Specific Outcomes:

PSO1. **SKILLS FOR SUCCESSFUL CAREER**: Able to apply engineering knowledge to get through the competitive examinations for employment/higher studies.

PSO2. **PROBLEM SOLVING SKILLS**: Exercise latest techniques, innovative methods and multi disciplinary knowledge in solving engineering problems of industry and serve the society.

3.1.1. Course Outcomes (COs) (SAR should include course outcomes of one course from each semester of study, however, should be prepared for all courses and made available as evidence, if asked) (05)

Course Name: Metallurgy & Materials Science C211 **Year of study** 2017-2018

Co No	Course Outcome	Blooms Taxonomy
C211.1	Explain the crystallization of metals; judge the effect of alloying elements on the behavior of metals.	Evaluate
C211.2	Sketch the equilibrium diagrams to describe the different phases of metals and alloys.	Apply
C211.3	Distinguish different types of cast irons and steels and their applications.	Analyze
C211.4	Interpret different heat treatment processes to get desired mechanical properties of metals.	Apply
C211.5	Describe the structure and properties of non ferrous metals and alloys.	Understand
C211.6	Compare the nature of ceramics and composite materials.	Analyze

Course Name: Design of Machine Members-I C224 **Year of study** 2017-2018

Co No	Course Outcome	Blooms Taxonomy
C224.1	Use suitable materials, tolerances and fits in critical design applications.	Apply
C224.2	Interpret stresses and utilize design data hand book and design the elements for strength, stiffness and fatigue	Understand
C224.3	Use the design procedure to engineering problems, including the consideration of technical and manufacturing constraints for Riveted and welded joints	Apply
C224.4	Design Cotter joints, Knuckle joints, Keys and Shafts.	Analyze
C224.5	Examine the design procedure for shaft couplings.	Analyze
C224.6	Examine the design procedure for Springs.	Analyze

Course Name: Metal Cutting & Machine Tools C312 **Year of study** 2017-2018

Co No	Course Outcome	Blooms Taxonomy
C312.1	Describe the fundamentals of metal removal process.	Remember
C312.2	Explain the working of principle, mechanism, and various operations performed on lathe.	Understand
C312.3	Distinguish the mechanism of shaper, planner, slotter, drilling, boring and various operations performed on them.	Analyze
C312.4	Discuss milling machines and select the appropriate cutter for the required operation.	Apply
C312.5	Describe grinding machines, various bonds, finishing and super finishing operations.	Understand
C312.6	Differentiate the manual machines from automatic machines and also relate the part programs for various operations.	Analyze

Course Name: Robotics C324 **Year of study** 2017-2018

Co No	Course Outcome	Blooms Taxonomy
C324.1	Identify various robot configuration and components.	Understand
C324.2	Compare Electric, Hydraulic and Pneumatic types of locomotion devices.	Analyze
C324.3	Solve the kinematic problems and Establish relation among the links of a robot using D-H notations	Apply
C324.4	Execute dynamic analysis for simple serial kinematic chains	Apply
C324.5	Organize trajectory planning for a manipulator by avoiding obstacles.	Analyze
C324.6	Select appropriate actuators and sensors for a robot based on specific application	Understand

Course Name: Finite Element Methods C413 **Year of study** 2017-2018

Co No	Course Outcome	Blooms Taxonomy
C413.1	Explain the concepts behind Variation methods and weighted residual methods in FEM	Understand
C413.2	Select the proper element type, element length, Stiffness matrix, Interpolation function and Boundary conditions	Evaluate
C413.3	Distinguish the application and characteristics of FEA elements such as Trusses and beams.	Analyze
C413.4	Solve two dimensional stress analysis using constant strain triangle	Apply
C413.5	Identify the higher order iso parametric elements, Implement the finite element analysis for 2D four noded element	Apply
C413.6	Solve dynamic and steady state heat transfer problems using FEM	Apply

Course Name: Non Destructive Evaluation C424 **Year of study** 2017-2018

Co No	Course Outcome	Blooms Taxanomy
C424.1	Differentiate the Non destructive and Destructive Techniques	Analyze
C424.2	Explain the principle and limitations of Ultra sonic test	Understand
C424.3	Implement the Liquid penetration test	Apply
C424.4	Compare the magnetic particle test with other ND Techniques	Apply
C424.5	Describe the effectiveness of Eddy current test	Understand
C424.6	Select the appropriate ND Technique for several industrial applications	Evaluate

3.1.2. CO-PO matrices of courses selected in 3.1.1 (six matrices to be mentioned; one per semester from 3rd to 8th semester) (05)

Course Name: Metallurgy & Materials Science C211 **Year of study** 2017-2018

Course Out Come	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C211.1	3	2	-	-	-	-	-	-	-	-	-	-	2	-
C211.2	3	-	-	-	-	-	-	-	-	-	-	-	2	-
C211.3	3	-	-	-	-	-	-	-	-	-		-	2	-
C211.4	3	-	-	-	-	-	1	-	-	-	-	-	2	--
C211.5	3	-	-	-	-	-	-	-	-	-	-	-	2	-
C211.6	3	-	-	-	-	-	-	-	-	-	-	2	2	-
C211	3	2	-	-	-	-	1	-	-	-	-	2	2	-
C211	2												2	

Course Name: Design of Machine members-I C224 **Year of study** 2017-2018

Courses Out Comes	P01	P02	P03	P04	P05	P06	P07	P08	P09	P010	P011	P012	PSO1	PSO2
C224.1	3	-	-	-	-	-	-	-	-	-	-	-	3	-
C224.2	3	-	-	-	-	-	-	-	-	-	-	-	3	-
C224.3	-	3	1	-	-	-	-	-	-	-	-	-	3	-
C224.4	-	2	3	-	-	-	-	-	-	-	-	1	3	-
C224.5	2	2	3	-	-	-	-	-	-	-	-	1	3	-
C224.6	-	-	3	-	-	-	-	-	-	-	-	1	3	-
C224	2.66	2.33	2.5	-	-	-	-	-	-	-	-	1	3	-
C224	2.13												3	

Course Name: Metal Cutting & Machine Tools C312 **Year of study** 2017-2018

Courses Out Comes	P01	P02	P03	P04	P05	P06	P07	P08	P09	P010	P011	P012	PSO1	PSO2
C312.1	-	3	-	-	2	-	-	-	-	-	-	-	3	2
C312.2	-	2	3	-	1	-	-	-	2	-	-	-	3	2
C312.3	-	-	1	-	3	-	-	-	1	-	-	-	3	2
C312.4	-	-	2	1	3	-	-	-	1	-	-	-	3	2
C312.5	-	-	1	-	3	-	-	-	1	-	-	-	3	2
C312.6	-	-	3	-	1	-	-	-	1	-	-	-	3	2
C312		2.5	2	1	2.16				1.2				3	2
C312	1.77												2.5	

Course Name: Robotics C324 **Year of study** 2017-2018

Courses Out Comes	PO 1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO 1	PSO 2
C324.1	3	-	-	-	-	-	-	-	-	-	-	3	3	2
C324.2	3	-	2	-	-	-	-	-	-	-	-	3	3	2
C324.3	3	2	1	-	2	-	-	-	-	-	-	3	3	2
C324.4	2	3	-	-	2	-	-	-	-	-	-	2	3	2
C324.5	2	3	-	-	-	-	-	-	-	-	-	2	3	2
C324.6	3	-	-	-	-	-	-	-	-	-	-	3	3	2
C324	2.67	2.67	1.50		2.00							2.67	3	2
C324	2.30												2.5	

Course Name: Finite Element Methods C413 **Year of study** 2017-2018

Courses Out Comes	P01	P02	P03	P04	P05	P06	P07	P08	P09	P10	P11	P12	PSO1	PSO2
C413.1	3	3	-	-	3	-	-	-	-	-	-	-	3	2
C413.2	3	2	-	-	3	-	-	-	-	-	-	-	3	
C413.3	3	2	-	-	3	-	-	-	-	-	-	-	3	1
C413.4	3	2	-	-	3	-	-	-	-	-	-	-	3	1
C413.5	2	2	2	-	3		-	-	-	-	1	-	3	2
C413.6	2	2	-	-	3	-	-	-	-	-	-	-	3	1
C413	2.67	2.17	2.00		3.00						1.00		3	1.4
C413	2.2												2.2	

Course Name: Non Destructive Evaluation C424 **Year of study** 2017-2018

Courses Out Comes	P01	P02	P03	P04	P05	P06	P07	P08	P09	P10	P11	P12	PSO1	PSO2
C424.1	3	-	-	2	2	1	-	-	-	-	-	1	3	2
C424.2	3	-	-	2	2	1	-	-	-	-	-	-	3	2
C424.3	3	-	-	2	3	1	-	-	-	-	-	-	3	2

C424.4	2	-	-	2	3	1	-	-	-	-	-	-	3	2
C424.5	3	-	-	2	3	1	-	-	-	-	-	-	3	2
C424.6	3	-	-	2	3	1	-	-	-	2	-	1	3	2
C424	2.83			2	2.67	1				2		1	3	2
C424	1.92												2.5	

Table 3.1.2

Note:

1. Enter correlation levels 1, 2 or 3 as defined below:

1: Slight (Low) 2: Moderate (Medium) 3: Substantial (High)

It there is no correlation, put "-"

2. Similar table for PSOs

3.1.3. Program level Course-PO matrix of all courses INCLUDING first year courses (10):

Course	*PO1*	*PO2*	*PO3*	*PO4*	*PO5*	*PO6*	*PO7*	*PO8*	*PO9*	*PO10*	*PO11*	*PO12*	Overall course	*PSO1*	*PSO2*
C111 (ENG)	1.16	-	2	-	-	2	2	2	2	3	-	2	2.02	-	-
C112 (M-I)	3	2	-	-	1	-	-	-	-	-	-	-	2.00	-	-
C113 (EC)	1.5	2	2	-	-	2	2	-	-	-	--	-	1.90	-	-
C114 (EM)	2.5	1.5	-	-	-	-	-	-	-	-	-	2	2	2	2
C115 (CP)	2.5	2.6	2.25	-	2	-	-	-	2	-	-	-	2.27	-	-
C116 (ES)	1	-	1	-	-	2	2.5	-	2	-	-	-	1.70	-	-
C117 (EC LAB)	2	0.8	2.5	2.5	1.5	2.5	2.5	2.5	-	-	-	2.6	2.16	-	-
C118 (ECS)	-	-	-	-	-	-	2	2	2	2	-	2	2.00	-	-
C119 (CP LAB)	2.33	2.2	2.25	-	2.2	-	-	-	2.2	-	-	-	2.25	-	-
C121 (ENG-II)	1.25	1	2	-	2	2	2	1	2	2.5	-	2	1.78	-	-
C122 (M-II)	3	2	-	-	1	-	-	-	-	-	-	-	2.00	-	-
C123 (M-III)	3	2	-	-	1	-	-	-	-	-	-	-	2.00	-	-
C124 (EP)	3	2	-	-	-	-	-	-	-	-	-	-	2.50	-	-
C125 (BEE)	2	3	-	-	-	-	-	-	-	-	-	-	2.50	-	-
C126 (E D)	3	1.33	-	-	-	-	-	-	1	2	-	1	1.67	3	-
C127 (ECS-2)	1	1	1	-	2	1	2	2	-	2	-	2	1.56	-	-
C128 (E/AP)La	2	1	-	-	2	-	-	-	-	-	-	-	1.67	-	-
C129 (E/AP V)	2.5	2	-	-	-	-	-	-	2.5	-	2	-	2.25	-	-
C130 (EWS)/ IT WS	1.8	2.3	2.2	-	-	-	-	-	1.7	-	-	1.3	1.86	2	2
C211(MMS)	3	2	-	-	-	-	1	-	-	-	-	2	2.00	2	-
C212(MOS)	2	1.75	2	1	2	-	-	-	-	-	-	-	1.75	3	3
C213(TD)	2.33	2.5		1		-	-	-	-	-	-	1	1.71	2	3
C214(MEFA)	2	1	-	-	2	-	-	-	-	-	3	-	2.00	3	-
C215(FMHM)	1.33	2.6	2.75	1	-	-	-	-		-	-	-	1.92	3	1.33
C216(CAEDP)	2	2	1		-	-	-	-	1	-	-	1	1.40	2	3
C217(EEE LAB)	3	2	-	-	-	-	-	-	2	-	-	-	2.33	3	2
C218(MOS & M LAB)	3	3	-	-	-	-	-	-	3	-	-	3	3.00	3	2
C221(KOM)	3	2	1	1	2	-	-	-	-	-	-	-	1.80	3	1
C222(TE-I)	2	3	1	-	-	-	1	-	-	-	-	-	1.75	3	2
C223(PT)	2.5	2.4	-	-	-	2	-	-	-	-	-	1	1.98	2.5	1.5

C224(DMM-I)	3	2.66	2.5	-	-	-	-	-	-	-	-	1	2.29	3	-
C225(MD)	1	-	3	-	2	-	-	-	-	-	-	-	2.00	2	3
C226(IEM)	2.83	2.16	-	-	-	2	-	-	-	-	1	-	2.00	2	3
C227(FMHM LAB)	3	3	-	-	-	-	-	-	3	-	-	3	3.00	3	2
C228(PT LAB)	2.5	2.33	-	-	-	-	-	-	2	-	-	-	2.28	3	3
C311(DOM)	2.33	2.66	2	-	-	1	-	-	-	-	-	2	2.00	2	3
C312(MCMT)	-	2.5	2	1	2.16	-	-	-	1.2	-	-	-	1.77	3	2
C313(DMM-I)	3	2.66	2.5	-	-	-	-	-	-	-	-	1	2.29	2.13	3
C314(ICS)	2.6	2.5	-	-	-	-	-	-	-	-	-	1	2.03	2	1
C315(TE-II)	2.52	2.66	1.5	-	-	-	1	-	-	-	-	2	1.94	3	2
C316(MET)	2.83	2.25	2	-	2	1	-	-	-	-	-	2	2.01	2.5	1.5
C317(M & I LAB)	2.33	2.5	-	-	-	-	-	-	1	-	-	2	1.96	2	3
C318(MT LAB)	3	2.5	-	-	-	-	-	-	2	-	-	2	2.38	3	3
C319(IPR&P)	2	1	-	-	2	-	-	3	-	-	-		2.00	3	2
C321(OR)	2.6	2.5	-	-	-	-	-	-	-	-	-	1	2.03	2	1
C322(ICG)	2	2.5	2	-	3	-	-	-	-	-	-	-	2.38	3	
C323(DMM-II)	1	2.17	2.2	-	-	-	-	-	1	-	-	1	1.47	2	3
C324(ROB)	2.67	2.67	1.5	-	2	-	-	-	-	-	-	2.67	2.30	3	2
C325(HT)	3	2	2	1	2	-	-	-	-	-	-	-	2.00	3	1
C326(IEM)	2.83	2.16	-	-	-	2	-	-	-	-	1	-	2.00	2	3
C327(R&AC)	2.67	2.2	1.25	-	2.5	1	2	-	-	-	-	1.33	1.85	3	2
C328(HT LAB)	2.5	2	1.25	-	2.5	1	1.5	-	-	-	-	1	1.68	3	2
C411(AE)	2.83	2	-	-	-	2	1	-	-	-	-	2.5	2.07	3	2
C412(CAD/CAM)	2.6	1.33	1	1	2	2	3	-	-	-	-	3	1.99	2.5	2.6
C413(FEM)	2.67	2.17	2	-	3	-	-	-	-	-	1	-	2.17	3	1.6
C414(UMP)	2.67	2.5	1	1	1	-	-	-	-	-	-	2.5	1.78	3	2
C415(NT)	2.33	1.6	2	-	-	-	3	-	-	-	-	1	1.99	3	3
C416(AIM)	2.33	2.5	2	-	1	2	-	-	-	-	-	1	1.81	2.5	1.33
C417(SIM LAB)	2.33	2.16	-	-	2.33	-	-	-	2	-	-	2.16	2.20	2	3
C418(DESIGN &FABRICATION)	3	3	2	2	2	2	2	1	3	1	1	2	2.00	1	2
C421(PPC)	2.16	2.8	2	-	-	-	1	-	-	-	-	-	1.99	3	2
C422(GES)	2.5	1	-	-	-	1	2	-	-	-	-	2.33	1.77	2	3
C423(PPE)	2.5	2	-	-	-	-	-	-	-	-	-	1	1.83	2	1
C424(NDE)	2.83	-	-	2	2.67	1	-	-	-	2	-	1	1.92	3	2
C425(PROJECT)	3	3	2	2	2	2	2	1	3	1	1	2	2.00	1	2
Cirriculum mapping	2.39	2.14	1.85	1.38	1.96	1.68	1.87	1.81	1.98	1.94	1.43	1.75	2.01	2.53	2.18
Count of Courses	63	60	35	12	29	20	19	8	21	8	7	38	65	49	44

Note:

1. Enter correlation levels 1, 2 or 3 as defined below:

1: Slight (Low) 2: Moderate (Medium) 3: Substantial (High)

It there is no correlation, put "-"

It may be noted that the contents of Table 3.1.2 must be consistent with information available in Table 3.1.3 for all courses.

2. Similar table for PSOs

3.2. Attainment of Course Outcomes (50)

3.2.1. Describe the assessment processes used to gather the data upon which the evaluation of Course Outcome is based (10)

(Examples of data collection processes may include, but are not limited to, specific exam/tutorial questions, assignments, laboratory tests, project evaluation, student portfolios (A portfolio is a collection of artifacts that demonstrate skills, personal characteristics and accomplishments created by the student during study period), internally developed assessment exams, project presentations, oral exams etc.)

Each program follows the assessment manual consisting of direct and indirect attainment methods for assessing Theory courses, laboratories and projects.

Internally developed excel spread sheets are used for direct assessment. Feedback forms based on COs were framed for each class and the feedback was taken from students.

Theory Courses:

Direct Attainment

Tool used	**Frequency of data collection**	**Responsible person**	**Assessment criterion**	**Rubric for Attainment Level**	**Weightage**
Internal examinations	Twice per Semester	Examinations cell	Students scored > class average mark	1: <50% students 2: 50-70% students 3: >=70% students	58.4%
Assignments	Once per semester	Course Coordinator	Students scored > class average mark	1: <50% students 2: 50-70% students 3: >=70% students	11.6%
University Examinations	Once per semester	Examinations cell	Students scored > class average mark	1: <50% students 2: 50-70% students 3: >=70% students	30%
				Total	100%

Indirect Attainment

Tool used	Frequency of data collection	Responsible person	Assessment criterion	Rubric for Attainment Level	Weightage
CO Feedback	End of semester	Assessment committee coordinator	Average of entire class for each CO	Class Average on the scale of 1-3	100%

*Overall course attainment = 0.8*Direct attainment+0.2*Indirect attainment*

Laboratories:
Direct method

Tool used	Frequency of data collection	Responsible person	Assessment criterion	Rubric for Attainment Level	Weightage
Internal Examination	Once in Semester	Lab Coordinator	Students scored > class average mark	1: <80% students 2: 80-90% students 3: >=90 students	13.3%
Day-to-day evaluation	During each lab session	Lab Coordinator	Students scored > class average mark	1: <80% students 2: 80-90% students 3: >=90 students	20%
University Examinations	Once in Semester	University appointed Examer	Students scored > class average mark	1: <80% students 2: 80-90% students 3: >=90 students	66.7%

Indirect Method:

Tool used	Frequency of data collection	Responsible person	Assessment criterion	Rubric for Attainment Level	Weightage
Lab Feedback	End of semester	Assessment committee coordinator	Average of entire class for each CO	Class Average on the scale of 1-3	100%

*Overall course attainment = 0.8*Direct attainment+0.2*Indirect attainment*

Project Work:

Tool used	Frequency of data collection	Responsible person	Assessment criterion	Rubric for Attainment Level	Weightage
Internal Reviews	Three reviews per Semester	Project Review Committee	Students scored > class average mark	1: <80% students 2: 80-90% students 3: >=90 students	3*6.67=12%
Day-to-day evaluation	During project execution (Thrice in week)	Project Guide	Batch marks	1: <80% students 2: 80-90% students 3: >=90 students	6%
External Viva	Once in Semester	University appointed Examer	Students scored > class average mark	1: <80% students 2: 80-90% students 3: >=90	42%

				students	
Project Outcomes	End of Semester	Project coordinator	Count	1: <=1 2: 2 3: >2	40%

Add-on Courses:

Tool used	**Frequency of data collection**	**Responsible person**	**Assessment criterion**	**Rubric for Attainment Level**	**Weightage**
SOFTSKILLS 1	I Semester	T&P Coordinator	Students scored > class average mark	1: <51% students 2: 51-69% students 3: >=70% students	20%
SOFTSKILLS 2	II Semester	T&P Coordinator	Students scored > class average mark	1: <51% students 2: 51-69% students 3: >=70% students	20%
Aptitude & Reasoning	Once in Semester	T&P Coordinator	Students scored > class average mark	1: <51% students 2: 51-69% students 3: >=70% students	20%
Verbal Communication	Once in Semester	T&P Coordinator	Students scored > class average mark	1: <51% students 2: 51-69% students 3: >=70% students	20%
Soft Skills &	Once in	T&P	Students	1: <51%	20%

Verbal Communication	Semester	Coordinator	scored > class average mark	students 2: 51-69% students 3: >=70% students	

Internal Tests:

Implementation of Internal Assessment Test:

After the commencement of the semester, the course coordinator conducts two internal tests as per schedule given by JNTUK University The program coordinator will inform the course coordinator to set the question papers as per university norms

Two internal exams are conducted every semester for every course, namely Test1, Test2 and (T1, T2)

Exam Name	Units Covered	CO's Attainment Extracted
T1	1,2 & 3	CO1,CO2 & CO3
T2	4,5 & 6	CO4,CO5 & CO6

Laboratory:

Example:

Table 3.2.1: Rubrics used for continuous evaluation in every lab session

Parameters	Allotted Marks	Low	Medium	High
Record	5	Record was not submitted in the lab session	Record was submitted but incomplete	Complete Record was submitted
		0 Mark	1-2 Marks	3-5 Marks
Execution	3	Given experiment was not done/ executed in the lab session	Given experiment was done but necessary Output not shown in the lab session	Given experiment was done and also necessary Output was shown in the lab session
		0 Mark	1 Mark	3 Marks
Viva Voce	2	Student did not answer any viva voce question	Student answered only a few viva voce questions	Student answered all the viva voce Questions
		0 Mark	1 Mark	2 Marks

Example:

Table 3.2.2: Rubrics used for continuous Evaluation of lab internals

Parameters	Allotted Marks	Low	Medium	High
Procedure write up	5	Student was not able to write procedure	Student was able to write the procedure but not able to show output	Student was able to write the procedure and also able to show output
		0 Mark	1-2 Marks	3-5 Marks
Execution	5	Student was not able conduct the experiment	Student was able to conduct the experiment but unable to get the output	Student was able to conduct the experiment and also able to get the output
		0 Mark	1-2 Marks	3-5 Marks
Viva Voce	5	Student did not answer any viva voce question	Student answered only a few viva voce questions	Student answered all the viva voce questions
		0 Mark	1-2 Marks	3-5 Marks

Seminar Work Evaluation:

: Seminar coordinators follow rubrics, which are set by the Department coordinator for evaluation of seminar work and report prepared by the students in VIII semester. Seminar coordinator conducts one seminar per student. It was evaluated by the seminar coordinator and marks were submitted to the university.

Project Work Evaluation:

. During project work, the evaluation process was divided into number of phases to assess the continuous progress (Minimum three phases).

: The project guides and project coordinator follows rubrics, which is set by the department for evaluation and then submit to the head of department. Each internal guide saw the statement of project, literature of work and implementation details.

3.2.2. Record the attainment of Course Outcomes of all courses with respect to set attainment levels (40):

Program shall have set Course Outcome attainment levels for all courses. (The attainment levels shall be set considering average performance levels in the university examination or any higher value set as target for the assessment years. Attainment level is to be measured in terms of student performance in internal assessments with respect to the Course Outcomes of a course in addition to the performance in the University examination)

Measuring Course Outcomes attained through University Examinations
Target may be stated in terms of percentage of students getting more than the university average marks or more as selected by the Program in the final examination. For cases where the university does not provide useful indicators like average or median marks etc., the program may choose an attainment level on its own with justification.

Example related to attainment levels Vs. targets: (The examples indicated are for reference only. Program may appropriately define levels)
Attainment Level 1: ***60%*** *students scoring more than University average percentage marks or set attainment level in the final examination.*

Attainment Level 2: ***70%*** *students scoring more than University average percentage marks or set attainment level in the final examination.*

Attainment Level 3: ***80%*** *students scoring more than University average percentage marks or set attainment level in the final examination.*

- *Attainment is measured in terms of actual percentage of students getting set percentage of marks.*
- *If targets are achieved then all the course outcomes are attained for that year. Program is expected to set higher targets for the following years as a part of continuous improvement.*
- *If targets are not achieved the program should put in place an action plan to attain the target in subsequent years.*

Measuring CO attainment through Internal Assessments: (The examples indicated are for reference only. Program may appropriately define levels)

Target may be stated in terms of percentage of students getting more than class average marks or set by the program in each of the associated COs in the assessment instruments (midterm tests, assignments, mini projects, reports and presentations etc. as mapped with the COs)

2017-2018 CO- Attainment

COURSE NAME	CO1	CO2	CO3	CO4	CO5	CO6	Overall	Set	Attained
C211(MMS)	1.72	2	1.86	1.86	1.83	1.86	1.85	1.8	Y
C212(MOS)	1.74	1.84	1.84	1.68	1.57	1.68	1.72	1.58	Y
C213(TD)	1.48	1.65	1.48	2	2	2	1.77	1.53	Y
C214(MEFA)	2	2	2	2	2	2	2	1.8	Y
C215(FMHM)	2	2	1.75	2.25	1.75	2.25	1.7	1.7	Y
C221(KOM)	1.83	2.18	1.83	2.18	2	2	2	1.62	Y
C222(TE-I)	1.83	2	1.83	1.65	1.65	1.83	1.67	1.57	Y
C223(PT)	2.16	2.02	2.16	2.58	2.3	2.58	2.3	1.78	Y
C224(DMM-I)	2	1.77	1.65	2.18	2	2	1.93	2.06	N
C225(MD)	1.3	2	1.3	1.3	2	2	1.65	1.8	N
C226(IEM)	2.18	2.23	1.72	2.18	2.18	2.23	2.12	1.79	N
C311(DOM)	1.7	1.7	2.17	2.17	1.88	1.7	1.88	1.79	Y
C312(MCMT)	2	2.18	2	1.83	1.83	1.83	1.94	1.59	Y
C313(DMM-I)	2.35	1.84	1.84	2.43	1.84	1.84	2.02	2.06	N
C314(ICS)	1.7	1.7	1.53	1.35	1.53	1.18	1.5	1.83	N
C315(TE-II)	2	2	1.82	2.23	2.17	2.17	2.06	1.71	Y
C316(MET)	1.83	1.83	2.18	1.83	2	2.23	1.98	1.81	Y
C319(IPR&P)	1.88	1.7	2.05	1.7	1.7	1.7	1.79	1.79	Y
C321(OR)	1.7	1.7	1.53	1.35	1.53	1.18	1.5	1.83	N
C322(ICG)	2.35	1.65	2	2	2.42	2.35	2.13	2.13	Y
C323(DMM-II)	1.72	2	2	2.23	2	2	1.99	1.32	Y
C324(ROB)	2.23	2.35	2.28	2	2.18	2	2.17	2.07	Y
C325(HT)	2	1.83	2	2.18	2.53	2.53	2.18	1.8	Y
C326(IEM)	1.83	2	1.83	1.53	2.18	1.53	1.82	1.79	Y
C327(R&AC)	2.175	2.175	1.86	1.65	2.35	2.175	2.06	1.66	Y
C411(AE)	2	2.175	1.825	2	2.175	1.825	2	1.85	Y
C412(CAD/CAM)	1.86	2	1.86	2	2.18	1.83	1.95	1.79	Y
C413(FEM)	1.77	1.77	1.77	2	2	2	1.88	1.95	N
C414(UMP)	1.875	1.7	1.525	1.35	1.7	1.7	1.64	1.6	Y
C415(NT)	1.65	1.87	1.87	1.87	1.87	2.08	1.87	1.78	Y
C416(AIM)	2	1.72	1.58	2.28	2.42	2.14	2.02	1.63	Y
C421(PPC)	1.8	1.8	2.4	1.6	2	2.2	1.68	1.79	N
C422(GES)	2	2	2	2.18	2.18	1.86	2.04	1.58	Y
C423(PPE)	1.7	1.7	1.53	1.35	1.53	1.23	1.51	1.65	N
C424(NDE)	2	2	2	2	2.18	2	2.03	1.73	Y

lab

COURSE NAME	CO1	CO2	CO3	CO4	CO5	CO6	Overall	Set	Attained
C216(CAEDP)	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.26	Y
C217(EE LAB)	1.92	2.09	2.12	2.12	2.1	2.1	2.1	2.1	Y
C218(MOS &M	3	3	3	3	3	3	3	2.7	Y
C227(FMHM	2.8	2.89	2.8	2.65	2.44	2.8	2.73	2.7	Y
C228(PT LAB)	2.6	2.4	2.37	2.37	2.86	2.5	2.5	2.05	Y
C317(M&I LAB)	1.6	2.23	1.6	1.95	2.65	2.5	2.08	1.76	Y
C318(MT LAB)	1.95	2.16	2.25	2.3	2.3	2.3	2.2	2.1	Y
C328(HT LAB)	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.51	Y
C417(SIM LAB)	2.65	2.86	2.89	2.65	2.65	2.65	2.73	1.98	Y

Example

Mid-term test 1 addresses C202.1 and C202.2. Out of the maximum 20 marks for this test 12 marks are associated with C202.1 and 8 marks are associated with C202.2.

Examples related to attainment levels Vs. targets:
Attainment Level 1: ***60%*** *students scoring more than 60% marks out of the relevant maximum marks.*
Attainment Level 2: ***70%*** *students scoring more than 60% marks out of the relevant maximum marks.*

Attainment Level 3: ***80%*** *students scoring more than 60% marks out of the relevant maximum marks.*

- *Attainment is measured in terms of actual percentage of students getting set percentage of marks.*

- *If targets are achieved then the C202.1 and C202.2 are attained for that year. Program is expected to set higher targets for the following years as a part of continuous improvement.*

- *If targets are not achieved the program should put in place an action plan to attain the target in subsequent years.*

Similar targets and achievement are to be stated for the other midterm tests/internal assessment instruments

Course Outcome Attainment:
For example:
Attainment through University Examination: Substantial i.e. 3
Attainment through Internal Assessment: Moderate i.e. 2
Assuming 80% weightage to University examination and 20% weightage to Internal assessment, the attainment calculations will be (80% of

University level) + (20% of Internal level) i.e. 80% of 3 + 20% of 2 = 2.4 + 0.4 = 2.8

Note: Weightage of 80% to University exams is only an example. Programs may decide weightages appropriately for University exams and internal assessment with due justification.

2017-2018 % of students attained

	Internal Examination						
COURSE NAME	**CO1**	**CO2**	**CO3**	**CO4**	**CO5**	**CO6**	**University**
C211(MMS)	32.3	48.5	48.5	55	52	54.7	52
C212(MOS)	46	36	46	52	51	56	69
C213(TD)	39	47	28	53.1	47.5	49.9	61
C214(MEFA)	32.3	48.5	48.5	55	52	54.7	52
C215(FMHM)	51.5	50	33.5	53.5	54.5	73.5	71
C221(KOM)	41.5	46	39	65	50	46	58
C222(TE-I)	55.5	65	51	64	51	62.5	55
C223(PT)	62.3	47.6	57.3	70	52	67.3	77
C224(DMM-I)	57	69	56	44	57	63	62
C225(MD)	45	52	38	34	60	60	84
C226(IEM)	56	57	44	70	58.8	55	52
C311(DOM)	48	38.5	42	77	72.5	48	48
C312(MCMT)	42	56	48	57	48	48.5	51
C313(DMM-I)	58	32.5	36	34	50.5	37.5	58
C314(ICS)	47	47	35	61	60	62	66
C315(TE-II)	36.5	43.5	43	31	66.5	60	55
C316(MET)	55.67	33.5	56	41.33	51.67	51.67	52
C319(IPR&P)	48	38.5	42	77	72.5	48	48
C321(OR)	72	61	40	62.3	64.5	40	55
C322(ICG)	77	27.5	80	60.5	75.3	75.3	54
C323(DMM-II)	39.66	54	64	56	46	29	52
C324(ROB)	57	63	58.66	40	66	56	62
C325(HT)	46	43	56	54	60	72	53
C326(IEM)	56.5	66	52	44	87	31	51
C327(R&AC)	53.58	50	40.9	45.5	62	71	56
C411(AE)	47.5	64	46.34	45.35	38.12	42.13	52
C412(CAD/CAM)	49.33	55.5	48	44	58	42.5	55
C413(FEM)	35	36	35	24	24	33	52
C414(UMP)	58.86	48.28	21.31	40.61	63.46	60.35	50
C415(NT)	55	57	51	75	67	98	50
C416(AIM)	63	42.67	37.67	65.33	71.33	67.33	52
C421(PPC)	64	58.5	77.66	36	46	76	62
C422(GES)	51	52	44	62.5	47	46	56

C423(PPE)	54	59	30.5	31	32	62	63
C424(NDE)	50	44.5	47	53	46	58.5	59

LAB

COURSE NAME	Internal Examination						University
	CO1	CO2	CO3	CO4	CO5	CO6	
C216(CAEDP)	55	40	55	48.3	48.3	43.3	57
C217(EE LAB)	76	77	75	77	76	76	98
C218(MOS &M	100	100	100	100	100	100	100
C227(FMHM	94	94	96	99	89	96	100
C228(PT LAB)	92	90	87	87	92	90	100
C317(M&I	78	75	79	84	93	90	94
C318(MT LAB)	77.61	77.45	64.93	80.6	84.58	84.58	96.97
C328(HT LAB)	63	64	61	58	66	75	98
C417(SIM	96.97	94.95	95.45	93.94	93.94	95.45	100

AY: 2017-18-Project sample Attainment for Batch

COURSE Code(NAME)	CO1	CO2	CO3	CO4	CO5	CO6	Overall Course	Set Target	Attained (Y/N)
C418(DESIGN AND FABRICATION)	3	3	3	3	3	3	3	1.8	Y
C425(PROJECT)	2.65	2.65	3	2.65	2.65	2.65	2.71	1.8	Y

Indirect Attainment

COURSE Code	CO1	CO2	CO3	CO4	CO5	CO6	Overall
C211(MMS)	2.06	2.06	1.85	2.08	1.89	1.85	1.96
C212(MOS)	1.81	2.02	1.89	1.81	2.17	2.21	1.98
C213(TD)	1.92	1.98	1.96	2.26	1.96	1.96	2.01
C214(MEFA)	1.98	2.26	1.91	2.02	1.94	2.06	2.03
C215(FMHM)	2.09	1.92	2.04	1.98	1.91	1.91	1.97
C216(CAEDP)	2.06	1.96	1.94	2.15	2.19	2.06	2.06
C217(EEE LAB)	1.81	2.04	1.96	2.00	1.85	2.04	1.95
C218(MOS & M	1.96	1.85	2.06	1.96	2.09	2.17	2.02
C221(KOM)	1.94	1.85	1.81	2.00	2.21	2.17	2.00
C222(TE-I)	2.04	1.96	1.77	2.04	2.08	2.04	1.99
C223(PT)	2.06	2.04	2.04	1.98	2.06	2.02	2.03
C224(DMM-I)	1.81	2.08	2.04	2.04	2.08	2.02	2.01
C225(MD)	2.09	1.79	1.94	1.83	2.04	2.04	1.96
C226(IEM)	1.85	2.23	2.13	2.23	1.98	1.89	2.05
C227(FMHM	2.11	1.91	1.91	2.02	1.70	2.02	1.94
C228(PT LAB)	2.06	2.00	1.92	2.11	2.02	1.77	1.98
C311(DOM)	1.98	2.15	1.91	1.96	1.98	1.68	1.94
C312(MCMT)	1.89	1.85	2.04	2.02	1.94	2.06	1.97

C313(DMM-I)	2.11	1.96	1.94	1.98	1.94	1.96	1.98
C314(ICS)	2.11	2.13	1.96	1.92	2.02	1.75	1.98
C315(TE-II)	2.04	2.21	1.92	1.94	2.26	1.92	2.05
C316(MET)	2.03	2.05	1.95	1.99	2.03	1.86	1.98
C317(M & I LAB)	2.06	2.04	2.04	2.26	2.08	1.91	2.06
C318(MT LAB)	2.00	1.98	1.91	1.79	1.91	2.11	1.95
C319(IPR&P)	2.09	1.87	1.91	2.00	2.04	1.94	1.97
C321(OR)	1.89	2.02	2.00	1.87	1.87	1.98	1.94
C322(ICG)	1.75	1.92	1.92	2.19	1.94	2.06	1.97
C323(DMM-II)	2.25	2.23	1.83	2.00	2.13	1.96	2.07
C324(ROB)	2.01	2.01	1.93	2.02	1.99	1.99	1.99
C325(HT)	2.08	2.13	2.04	1.85	2.26	2.19	2.09
C326(IEM)	2.28	2.17	1.94	2.02	2.06	1.72	2.03
C327(R&AC)	2.09	2.06	1.74	1.96	2.00	1.98	1.97
C328(HT LAB)	1.87	1.81	2.11	2.09	2.23	2.11	2.04
C411(AE)	2.13	1.92	1.87	2.02	2.04	1.98	1.99
C412(CAD/CAM)	1.87	2.04	2.02	1.96	2.00	2.06	1.99
C413(FEM)	2.05	2.02	1.95	1.98	2.10	2.01	2.02
C414(UMP)	1.98	2.13	1.83	1.89	2.00	2.02	1.97
C415(NT)	2.00	1.96	2.08	1.92	2.00	2.02	2.00
C416(AIM)	1.98	1.89	1.91	1.89	1.96	2.09	1.95
C417(SIM LAB)	1.85	1.96	2.02	2.32	2.13	1.91	2.03
C421(PPC)	1.94	1.89	2.04	2.13	2.04	2.15	2.03
C422(GES)	1.95	1.96	1.97	2.01	2.07	2.02	2.00
C423(PPE)	2.11	2.08	2.06	2.21	1.92	2.04	2.07
C424(NDE)	2.04	2.04	2.02	2.15	2.11	1.96	2.05

COURSE Code	Direct	Indirect	Overall Course
C211(MMS)	1.85	1.96	1.87
C212(MOS)	1.72	1.98	1.77
C213(TD)	1.77	2.01	1.82
C214(MEFA)	2	2.03	2.01
C215(FMHM)	1.7	1.97	1.75
C216(CAEDP)	1.3	2.06	1.45
C217(EEE LAB)	2.07	1.95	2.05
C218(MOS & M LAB)	3	2.02	2.80
C221(KOM)	2	2	2.00
C222(TE-I)	1.67	1.99	1.73
C223(PT)	2.3	2.03	2.25
C224(DMM-I)	1.93	2.01	1.95
C225(MD)	1.65	1.96	1.71
C226(IEM)	2.12	2.05	2.11
C227(FMHM LAB)	2.73	1.94	2.57
C228(PT LAB)	2.5	1.98	2.40

C311(DOM)	1.88	1.94	1.89
C312(MCMT)	1.94	1.97	1.95
C313(DMM-I)	2.02	1.98	2.01
C314(ICS)	1.5	1.98	1.60
C315(TE-II)	2.06	2.05	2.06
C316(MET)	1.98	1.98	1.98
C317(M & I LAB)	2.08	2.06	1.84
C318(MT LAB)	2.21	1.95	1.59
C319(IPR&P)	1.79	1.97	2.10
C321(OR)	1.5	1.94	1.98
C322(ICG)	2.13	1.97	2.13
C323(DMM-II)	1.99	2.07	2.16
C324(ROB)	2.17	1.99	1.85
C325(HT)	2.18	2.09	2.07
C326(IEM)	1.82	2.03	1.69
C327(R&AC)	2.06	1.97	1.99
C328(HT LAB)	1.6	2.04	1.69
C411(AE)	2	1.99	2.00
C412(CAD/CAM)	1.95	1.99	1.96
C413(FEM)	1.88	2.02	1.91
C414(UMP)	1.64	1.97	1.71
C415(NT)	1.87	2	1.90
C416(AIM)	2.02	1.95	2.01
C417(SIM LAB)	2.73	2.03	2.59
C418(DESIGN	1.31	1.99	1.45
C421(PPC)	1.68	2.03	1.75
C422(GES)	2.04	2	2.03
C423(PPE)	1.51	2.07	1.62
C424(NDE)	2.03	2.05	2.03
C425(PROJECT)	1.33	2.03	1.47

3.3. Attainment of Program Outcomes and Program Specific Outcomes (50)

3.3.1. Describe assessment tools and processes used for measuring the attainment of each of the Program Outcomes and Program Specific Outcomes (10)

(Describe the assessment tools and processes used to gather the data upon which the evaluation of each of the Program Outcomes and Program Specific Outcomes is based indicating the frequency with which these processes are carried out. Describe the assessment processes that demonstrate the degree to which the Program Outcomes and Program Specific Outcomes are attained and document the attainment levels)

PO attainments are calculated based the following tools:

Tool used	Frequency of data collection	Responsible person	Assessment criterion	Rubric for Attainment Level
Course work	Once per semester	Course coordinator	Individual PO Avg*CO Attainment/PO AVG	1: <40% students 2: 40-60% students 3: >60% students
Lab work	Once per semester	Lab Coordinator	Individual PO Avg*CO Attainment/PO AVG	1: <40% students 2: 40-60% students 3: >60% students
Project work	Once per semester	Examinations cell	Students scored > class average mark	1: <40% students 2: 40-60% students 3: >60% students
CO Feedback	Once per semester	HOD	Students scored > class average mark	1: Poor 2: Satisfactory 3: Very Good
Exit student Feedback	Once per year	HOD	Average of entire feedback	1: Poor 2: Satisfactory 3: Very Good
Alumni Feedback	Once per year	Alumni coordinator	Average of entire feedback	1: Poor 2: Satisfactory 3: Very Good
Employer feedback	Once per year	T&PCG Coordinator	Average of entire feedback	1: Poo1: Poor 2: Satisfactory 3: Very Good
Add-on Courses (Co-Curricular)	Once per year	T&PCG Coordinator	Number of Courses	1Add on Course : Poor(1) 2 Add on courses: Satisfactory(2) 3or more : Very Good(3)
Guest Lecturers (Co-Curricular)	Once per year	Dept. Association Coordinator	Number of Lectures	1-2 Lectures-Poor(1) 3-4 Lectures-Satisfactory(2) >=5 Lectures-Very Good(3)
Projects Exhibition (Co-Curricular)	Once per year	Dept. Association Coordinator	Number of Expos	Nil: Poor(1) Every Year: Satisfactory(2) Every Semester: Very Good(3)
Paper Presentations (Co-Curricular)	Once per year	Dept. Association Coordinator	Number of Publications	Nil: Poor(1) Every Year: Satisfactory(2) Every Semester: Very Good(3)
NSS Activities (Extra-Curricular)	Once per year	NSS Committee Coordinator	Number of Activities	<25% Students Participate: Poor(1) 26-50% Students Participate: Satisfactory(2) >50% Students Participate: Very Good(3)

Program on Environment/ Sustainability Organized (Co-Curricular)	Once per year	NSS Committee Coordinator	Number of Events	Nil: Poor(1) 1 or 2 events: Satisfactory(2) >=3 events : Very Good(3)
Programs on Health or Course on Human Anatomy	Once per year	NSS Committee Coordinator	Number of Events	Nil: Poor(1) 1 or 2: Satisfactory(2) 3or more: Very Good(3)
Programs on Safety Engineering	Once per year	NSS Committee Coordinator	Number of Events	Nil: Poor(1) 1 or 2: Satisfactory(2) 3or more: Very Good(3)
Programs on Intellectual Property Rights	Once per year	R&D Committee Coordinator	Number of Events	Nil: Poor(1) 1 or 2: Satisfactory(2) 3or more: Very Good(3)
Project Management & Finance Guest Lecturers (Co-Curricular)	Once per year	Project Coordinator	Number of Lectures	Nil: Poor(1) 1 or 2: Satisfactory(2) >=3: Very Good(3)
Library, Internet Hours (Co-Curricular)	Once per year	Library & IC Committee Coordinator	Number of Hours	Nil: Poor(1) Lib/Internet: Satisfactory(2) Both: Very Good(3)
Entrepreneurships – Lecturers (Co-Curricular)	Once per year	EDC Coordinator	Number of Lectures	Nil -Poor(1) 1-2 Lectures-Satisfactory(2) >=3 Lectures-Very Good(3)
Programs on Business Laws	Once per year	EDC Coordinator	Number of Events	Nil: Poor(1) 1 or 2: Satisfactory(2) 3or more: Very Good(3)
Students' Seminar & English Communication Hours (Co-Curricular)	Once per year	Professional Societies Coordinator	Number of Hours	Nil: Poor(1) Either : Satisfactory(2) Both:: Very Good(3)
Programs on Ethics (Co-Curricular)	Once per year	Arts & Cultural Coordinator	Number of Events	Nil: Poor(1) 1 or 2: Satisfactory(2) >=3: Very Good(3)
Ethical Practices – Like Honesty Shops, Yoga, etc., (Extra-Curricular)	Once per year	Arts & Cultural Coordinator	Number of Practices	Nil: Poor(1) 1 or 2: Satisfactory(2) >=3: Very Good(3)
Students' Participation in Cultural Events, Activities	Once per year	Arts & Cultural, Sports & Games Committee Coordinators	Number of Activities	Nil: Poor(1) 1 or 2: Satisfactory(2) 3or more: Very Good(3)

Weightage

Tool used	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
Course work	40	40	40	40	40	30	20	20	10	20	20	20	40	40
Lab work	10	10	10	10	10	10	10	20	20	20	20	20	10	10
Project work	10	10	10	10	10	10	10	10	20	20	20	20	10	10
CO Feedback	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Exit student Feedback	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Alumni Feedback	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Employer feedback	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Add-on Courses (Co-Curricular)	5	5	5	5	5							5		
Guest Lecturers(Co-Curricular)	5	5	5	5	5							5		
Projects Exhibition (Co-Curricular)	5	5	5	5	5	10			10			5	10	
Paper Presentations (Co-Curricular)	5	5	5	5	5					10				
NSS Activities (Extra-Curricular)						10	10		10					
Program on Environment/ Sustainability Organized (Co-Curricular)							5							
Programs on Health or Course on Human Anatomy							10	5						
Programs on Safety Engineering							10							
Programs on Intellectual Property Rights								5						
Project Management & Finance Guest Lecturers (Co-Curricular)											10		5	5
Library, Internet Hours (Co-Curricular)												5		5
Entrepreneurships – Lecturers (Co-Curricular)											5			
Programs on Business Laws											5			
Students' Seminar & English Communication Hours										5			5	5

(Co-Curricular)														
Programs on Ethics (Co-Curricular)						5	5	10						5
Ethical Practices – Like Honesty Shops, Yoga, etc., (Extra-Curricular)						5		5						
Students' Participation in Cultural Events, Sports events and annual Activities								5	10	5				

Indirect Attainment weightage

Tool used	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO Feedback	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Employer feedback	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Alumni Feedback	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Exit student Feedback	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5

Overall PO attainment

Method used
Direct (80%)
Indirect (20%)

3.3.2. Provide results of evaluation of each PO & PSO (40)

Program shall set Program Outcome attainment levels for all POs & PSOs.

(The attainment levels by direct (student performance) and indirect (surveys) are to be presented through Program level Course – PO & PSO matrix as indicated).

2017-2018 PO Attainment

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
C211(MMS)	2.77	1.85	-	-	-	-	0.92	-	-	-	-	1.85	2	-
C212(MOS)	1.96	1.72	1.96	0.98	1.96	-	-	-	-	-	-	-	3	3
C213(TD)	2.42	2.6	-	1.04	-	-	-	-	-	-	-	1.041	2	3
C214(MEFA)	2	1	-	-	2	-	-	-	-	-	3	-	3	-
C215(FMHM)	1.18	2.3	2.43	0.89	-	-	-	-	-	-	-	-	3	1.33
C216(CAEDP)	1.86	1.86	0.93	-	-	-	-	-	0.93	-	-	0.93	2	3
C217(EEE LAB)	2.6	1.78	-	-	-	-	-	-	1.78	-	-	-	2	1
C218(MOS & M LAB)	3	3	-	-	-	-	-	-	3	-	-	3	3	2
C221(KOM)	3	2.22	1.11	1.11	2.22	-	-	-	-	-	-	-	3	1
C222(TE-I)	1.9	2.86	0.95	-	-	-	0.95	-	-	-	-	-	3	2
C223(PT)	2.91	2.79	-	-	-	2.33	-	-	-	-	-	1.16	2.5	1.5
C224(DMM-I)	2.53	2.25	2.11	-	-	-	-	-	-	-	-	0.84	3	-
C225(MD)	0.825	-	2.475	-	1.65	-	-	-	-	-	-	-	2	3
C226(IEM)	3	2.3	-	-	-	2.13	-	-	-	-	1.06	-	2	3
C227(FMHM LAB)	2.73	2.37	-	-	-	-	-	-	2.85	-	-	2.85	3	2
C228(PT LAB)	2.75	2.56	-	-	-	-	-	-	2.2	-	-	-	3	3
C311(DOM)	2.2	2.51	1.88	-	-	0.94	-	-	-	-	-	1.88	2	3
C312(MCMT)	-	2.74	2.19	1.09	2.36	-	-	-	1.31	-	-	-	3	2
C313(DMM-I)	2.64	2.35	2.2	-	-	-	-	-	-	-	-	0.88	3	-
C314(ICS)	1.2	1.8	-	-	-	-	-	-	-	-	-	-	3	2
C315(TE-II)	1.81	2.88	1.63	-	-	-	1.08	-	-	-	-	2.17	3	2
C316(MET)	2.79	2.21	1.97	-	1.97	0.985	-	-	-	-	-	1.97	2.5	1.5
C317(MET&I LAB)	2.48	2.66	-	-	-	-	-	-	1.06	-	-	2.13	2	1
C318(MT LAB)	2.652	2.21	-	-	-	-	-	-	2.21	-	-	1.768	3	3
C319(IPR&P)	1.89	0.95	-	-	1.89	-	-	2.84	-	-	-	-	3	2
C321(OR)	1.34	1.75	1.68	-	-	-	-	-	-	-	1.23	-	3	2
C322(ICG)	1.7	2.24	1.79	-	2.69	-	-	-	-	-	-	-	3	-
C323(DMM-II)	1.35	2.93	2.97	-	-	-	-	-	1.35	-	-	1.35	2	3
C324(ROB)	2.52	2.52	1.42	-	1.89	-	-	-	-	-	-	2.52	3	2
C325(HT)	3	2.18	2.18	1.09	2.18	-	-	-	-	-	-	-	3	1
C326(IEM)	2.58	1.97	-	-	-	1.82	-	-	-	-	0.91	-	2	3
C327(R&AC)	2.97	2.45	1.39	-	2.78	1.11	2.22	-	-	-	-	1.48	3	2
C328(HT LAB)	2.38	1.91	1.19	-	2.38	0.95	1.43	-	-	-	-	0.95	3	2
C411(AE)	2.74	1.94	-	-	-	1.94	0.97	-	-	-	-	2.42	3	2
C412(CAD/CAM)	2.54	1.3	0.97	0.97	1.95	1.95	2.93	-	-	-	-	2.93	2.5	2.6
C413(FEM)	2.31	1.88	1.74	-	2.6	-	-	-	-	-	0.87	-	3	1.6
C414(UMP)	2.46	2.31	0.92	0.92	0.92	-	-	-	-	-	-	2.31	3	2
C415(NT)	2.2	1.51	1.89	-	-	-	2.83	-	-	-	-	0.94	3	3
C416(AIM)	2.61	2.8	2.24	-	1.12	2.23	-	-	-	-	-	1.12	2.5	1.33
C417(SIM LAB)	2.9	2.69	-	-	2.9	-	-	-	2.49	-	-	2.69	2	3
C418(DESIGN AND FABRICATION)	1.97	1.97	1.32	1.43	1.47	1.43	0.87	0.66	1.97	0.66	1.32	0.66	1	2

C421(PPC)	1.82	2.38	1.68	-	-	-	0.844	-	-	-	-	-	3	2
C422(GES)	2.88	1.15	-	-	-	1.15	2.3	-	-	-	-	2.67	2	3
C423(PPE)	1.99	1.43	-	1.59	1.59	-	1.59	-	-	-	1.59	0.79	3	2
C424(NDE)	2.99	-	-	2.11	2.82	1.05	-	-	-	2.11	-	1.05	3	2
C425(PROJECT)	2.14	2.14	1.43	1.51	1.56	1.55	0.94	0.71	1.14	0.71	1.43	0.71	1	2
Direct Attainment	2.32	2.16	1.73	1.23	2.04	1.54	1.53	1.40	1.86	1.16	1.43	1.68	2.61	2.17

Indirect Attainment-2017-18

Course	*PO1*	*PO2*	*PO3*	*PO4*	*PO5*	*PO6*	*PO7*	*PO8*	*PO9*	*PO10*	*PO11*	*PO12*	*Overall Course*
Employer Feed Back	2.75	2.5	2.5	2.33	2.33	0	0	2.75	2.75	2.75	2.75	2.5	2.16
Alumni Feed Back	2.05	1.87	1.87	1.94	1.93	2.07	1.78	1.94	1.98	1.98	1.97	2.11	1.96
T&PCG(Addon	-	-	-	-	-	-	-	2	3	2	-	2	2.25
Dept.Association Events(Paper Presentaion,Prject Expo,Guest Lecture)	2	2	2	2	2			2.2	2.9	3	2	1.5	2.16
IIIC	-	2	3	-	3	2	2	2.3	2.6	3	2.5	2.2	2.46
Professional Societies (Student Seminar, English Comm. Skills)	-	-	-	-	-	-	-	-	-	3	-	-	3.00
R&D AND CONSULTANCY CELL(IPR,Projects)	2	2	2	3	2.3	2	2	2.6	2	2	3	2	2.24
Lib.& IC	-	-	-	-	-	-	-	-	-	-	-	2	2.00
NSS(NSS Activities, Programs on Environment, Programs on health, Programs on safety)	-	-	-	-	-	3	3	1.25	3	-	-	-	2.56
Arts & Cultural	-	-	-	-	-	2	2	2	1.4	1.86	-	2	1.88
Sports & Games	-	-	-	-	-	-	-	2	3	2	-	-	2.33
Indirect attainment	2.20	2.07	2.27	2.32	2.31	1.85	1.80	2.12	2.51	2.40	2.44	2.04	2.27

Overall PO/PSO Attainment

Tool	*P01*	*P02*	*P03*	*P04*	*P05*	*P06*	*P07*	*P08*	*P09*	*P010*	*P011*	*P012*	*PSO 1*	*PSO 2*
Direct Attainment (A)	2.32	2.16	1.73	1.23	2.04	1.54	1.53	1.40	1.86	1.16	1.43	1.68	2.61	2.17
Indirect attainment	2.20	2.07	2.27	2.32	2.31	1.85	1.80	2.12	2.51	2.40	2.44	2.04	2.57	1.95
Overall Attainment	2.30	2.14	1.84	1.45	2.09	1.60	1.58	1.54	1.99	1.41	1.63	1.75	2.60	2.13

CRITERION 4	Students' Performance	150

4. STUDENTS' PERFORMANCE(150)

Item (Information to be provided cumulatively for all the shifts with explicit headings, wherever applicable)	2018-19	2017-18	2016-17	2015-16	2014-15	2013-14	2012-13
Sanctioned intake of the program (*N*)	60	60	60	60	60	60	60
Total number of students admitted in first year *minus* number of students migrated to other programs/institutions plus no. of students migrated to this program (*N*1)	16	34	41	52	48	58	55
Number of students admitted in 2nd year in the same batch via lateral entry (*N*2)	0	33	23	20	19	14	17
Separate division students, if applicable (*N3*)	0	0	0	0	0	0	0
Total number of students admitted in the Program (*N*1 + *N*2 + N3)	16	67	64	72	67	72	72

Table B.4a

Year of entry	*N*1 + *N*2 + N3 (As defined above)	Number of students who have successfully graduated without backlogs in any semester/year of study (Without Backlog means no compartment or failures in any semester/year of study)			
		I Year	II Year	III Year	IV Year
2018-19	16				
2017-18	67	1			
2016-17	64	3	9		
2015-16	72	12	10	6	
2014-15	67	7	12	10	9
2013-14	72	11	18	14	13
2012-13	72	9	12	12	9

TableB.4b

Year of entry	*N*1 + *N*2 + N3 (As defined above)	Number of students who have successfully graduated (Students with backlog in stipulated period of study)			
		I Year	II Year	III Year	IV Year
2018-19	16				
2017-18	67	26			
2016-17	64	37	54		
2015-16	72	48	67	62	
2014-15	67	48	67	65	30
2013-14	72	57	70	67	34
2012-13	72	53	68	67	43

TableB.4c

4.1.Enrolment Ratio (20) Enrolment Ratio=N1/N=91/180=**50.55%**

Academic year	N	N1	N1/N(%)
2018-19	60	16	26.67
2017-18	60	34	56.67
2016-17	60	41	68.33
Average assessment			**50.55**

Table B.4.1

4.2.Success Rate in the stipulated period of the program(40)

4.2.1. Success rate without backlogs in any semester/year of study(25)

SI= (Number of students who have graduated from the program without backlog)/ (Number of students admitted in the first year of that batch and actually admitted in 2nd year via lateral entry and separate division, ifapplicable)

Average SI = Mean of Success Index (SI) for past three batches Success rate without backlogs in any year of study = 25 × Average SI=**3.625**

Item	2014-18	2013-17	2012-16
Number of students admitted in the corresponding First Year + admitted in 2nd year via lateral entry and separate division, ifapplicable	67	72	72
Number of students who have graduated without backlogs in the stipulated period	9	13	9
Success Index (SI)	0.13	0.18	0.125
Average SI	0.145		

Table B.4.2.1

4.2.2. Success rate with backlog in stipulated period of study (15)

SI= (Number of students who graduated from the program in the stipulated period of course duration)/ (Number of students admitted in the first year of that batch and actual admitted in 2nd year via lateral entry and separate division, if applicable)

*Average SI = mean of Success Index (SI) for past threebatches Success rate = 15 × Average SI=***7.53**

Item	2014-18	2013-17	2012-16
Number of students admitted in the corresponding First Year + admitted in 2nd year via lateral entry and separate division, if applicable	67	72	72
Number of students who have graduated with backlog in the stipulated period	30	34	43
Success Index (SI)	0.44	0.47	0.596
Average Success Index	0.502		

Table B.4.2.2

4.3. Academic Performance in Third Year(15)

*Academic Performance = 1.5 * Average API (Academic Performance Index)=***8.205**

***API** = ((Mean of 3rd Year Grade Point Average of all successful Students on a 10 point scale) or (Mean of the percentage of marks of all successful students in Third Year/10)) x (number of successful students/number of students appeared in theexamination)*

Successful students are those who are permitted to proceed to the final year.

Academic Performance	2017-18	2016-17	2015-16
Mean of CGPA or Mean Percentage of all successful students (X)	5.65	5.38	5.57
Total no. of successful students (Y)	62	65	67
Total no. of students appeared in the examination (Z)	62	65	69
API = x* (Y/Z)	5.65	5.38	5.40
Average API = (AP1 + AP2 + AP3)/3	5.47		

Table B.4.3

4.4. Academic Performance in Second Year(15)

*Academic Performance Level = 1.5 * Average API (Academic Performance Index)*=**9.18**

***API** = ((Mean of 2nd Year Grade Point Average of all successful Students on a 10 point scale) or (Mean of the percentage of marks of all successful students in Second Year/10)) x (number of successful students/number of students appeared in the examination)*

Successful students are those who are permitted to proceed to the Third year.

Academic Performance	2017-18	2016-17	2015-16
Mean of CGPA or Mean Percentage of all successful students (X)	7.22	5.77	5.76
Total no. of successful students (Y)	54	67	67
Total no. of students appeared in the examination (Z)	57	67	67
API = X* (Y/Z)	6.83	5.77	5.76
Average API = (AP1 + AP2 + AP3)/3	6.12		

Table B.4.4

4.5. Placement, Higher Studies and Entrepreneurship(40)

Assessment Points = 40 × average placement=**40*0.4274=17.096**

Item	2017-18	2016-17	2015-16
Total No. of Final Year Students (N)	65	67	66
No. of students placed in companies or Government Sector (x)	16	37	22
No. of students admitted to higher studies with valid qualifying scores (GATE or equivalent State or National Level Tests, GRE, GMAT etc.) (y)	1	4	4
No. of students turned entrepreneur in engineering/technology (z)	0	1	0
x + y + z =	17	42	26
Placement Index : (x + y + z)/N	0.2615	0.6268	0.3939
Average placement	0.4274		

Table B.4.5

4.5 a Students Placed in the academic year 2017-2018

S.No	NAME OF THE STUDENT	Regd.No.	Name of the employer	Appointment no reference with date
1	SAYINA VENU MAHESH	14MQ1A0341	HYOSEONG ELECTRIC CO., LTD	4/2/2018
2	TUMMALACHARLA JITENDRA SIVA NAGA KUMAR	14MQ1A0344	SURYA TECH SOLUTIONS	STS/ OFR 7-12-2017
3	KUCHARLAPATI ADITYA VARMA	15MQ5A0307	ALIENS	10/23/2017
4	TUMMA S V D VEERA BHADRA CHARI	15MQ5A0314	TECHSOSYS	1/27/2018
5	BASA VEERANJANEYULU	14MQ1A0305	NUCON AEROSPACE PVT.LTD	EMP ID 521050
6	VANGARA MAHINDRA BALAJI	15MQ5A0315	WICKEDRIDE ADVENTURE SERVICES PVT.LTD	27/8/2018
7	MUKKU VAMSI KUMAR	15MQ5A0310	MTAR	HR/cont. APPT/2018-19
8	ADIVI SAI MANVITH	14MQ1A0303	AUTOMOTIVE MANUFACTURERS PRIVATE LIMITED	ESTT/230/AMPL/APL/3569
9	KOLLIPARA N V VENKATA LAKSHMAN KRISHNA	14MQ1A0316	SRINIVASA ENGINEERS (P) LTD	20/6/2018
10	A MUKESH TEJA	14MQ1A0303	SSD POLYMERS	22/6/2018
11	BVD NAGENDRA BABU	14MQ1A0306	SSD POLYMERS	22/6/2018
12	DV SRI RAMA KRISHNA	14MQ1A0310	SSD POLYMERS	22/6/2018
13	GBN HARI KISHORE	14MA1A0312	SRINIVASA ENGINEERS (P) LTD	20/6/2018
14	K RAMANJANEYULU	14MQ1A0320	SRINIVASA ENGINEERS (P) LTD	20/6/2018
15	L DURGA PRASAD	15MQ5A0308	SRINIVASA ENGINEERS (P) LTD	20/6/2018
16	S SAI KRISHNA	15MQ5A0319	SRINIVASA ENGINEERS (P) LTD	

Students Placed in the academic year 2016-2017

S.No	NAME OF THE STUDENT	Regd.No.	Name of the employer	Appointment no reference with date
1	BULASARA SIVA KUMAR	13MQ1A0309	ONEGENE	12/18/2016
2	K G V SIVA SAI	13MQ1A0320	ONEGENE	12/18/2016
3	KOLLIPARA V N PRUDHVI	13MQ1A0321	ONEGENE	12/18/2016
4	M P SAI RAMBABU	13MQ1A0330	ONEGENE	12/18/2016
5	M N MALLIKHARJUNA RAO	13MQ1A0331	ONEGENE	12/18/2016
6	MOHAMMAD ASIF	13MQ1A0332	ZOOMCAR	2/25/2017
7	MOHAMMED SHOUKATH	13MQ1A0333	NEWTECH	4/4/2017
8	N SAI KUMAR	13MQ1A0338	ONEGENE	12/18/2016
9	PEDDI SRI VAMSI	13MQ1A0343	ONEGENE	12/18/2016
10	P RAJESH	13MQ1A0346	NEWTECH	
11	T MANIKANTA SRINIVAS	13MQ1A0351	NEWTECH	4/4/2017
12	T RAJITH BHARGAV	13MQ1A0354	ONEGENE	12/18/2016
13	TUMU NAVEEN KUMAR	13MQ1A0356	ZOOMCAR	2/25/2017
14	YASAM GUMMADI NAIDU	14MQ5A0314	ONEGENE	12/18/2016
Outside the college				
15	J SAI BABU	13MQ1A0315	ZENEX	22/3/2018
16	G RAJESH BABU	14MQ5A0304	ANEWA	HR/27/2017/396
17	G NAGA SREE RAM	13MQ1A0314	ICLEAN	588/17
18	ARAJA SAI PAVAN	13MQ1A0303	CLAIR	EMP NO TR 0041
19	JOGI SAI KUMAR	13MQ1A0316	MI PVT LTD	T-333
20	LAKANAM HARISH	13MQ1A0327	DGS TECHNICS	ES11509
21	LAKANAM SIVA PRASAD	13MQ1A0328	E- ZONE	EMP CODE 801
22	S VENKATA RAMANA	13MQ1A0349	NS ENGINEERS	NSE/APP-LTTR/K51/280818
23	V N SAI DURGA RAVI TEJA	14MQ5A0313	MEIL	MEIL 12007634
24	JOGI NARESH	14MQ5A0307	AKD MANPOWER SOLUTIONS	5/9/18
25	BVN NAVEEN BABU	13MQ1A0303	SSD POLYMERS	10.5.2017
26	CH UDAY SAI KUMAR	13MQ1A03310	SSD POLYMERS	10.5.2017
27	DVD SAI PRASAD	13MQ1A03313	SSD POLYMERS	10.5.2017
28	KKCH VIJAY KUMAR	13MQ1A0323	SRINIVASA ENGINEERS (P) LTD	20.6.2017
29	K SIVA NAGARJUNA	13MQ1A0324	SRINIVASA ENGINEERS (P) LTD	20.6.2017

30	MPNVS GANESH	13MQ1A0335	SRINIVASA ENGINEERS (P) LTD	20.6.2017
31	N VENKATA RAMANA	13MQ1A0339	SRINIVASA ENGINEERS (P) LTD	20.6.2017
32	ABDUL AZEEM	14MQ5A0301	SRINIVASA ENGINEERS (P) LTD	20.6.2017
33	CH JEEVAN SAGAR	14MQ5A0303	AUTOMOTIVE MANUFACTURERS PRIVATE LIMITED	24.5.2017
34	K SRINIVAS	14MQ5A0309	AUTOMOTIVE MANUFACTURERS PRIVATE LIMITED	24.5.2017
35	MD. TIMRAN	14MQ5A0310	AUTOMOTIVE MANUFACTURERS PRIVATE LIMITED	24.5.2017
36	T SUBRAMANYAM	14MQ5A0311	AUTOMOTIVE MANUFACTURERS PRIVATE LIMITED	24.5.2017
37	V RAJASEKHAR	14MQ5A0312	AUTOMOTIVE MANUFACTURERS PRIVATE LIMITED	24.5.2017

Students Placed in the academic year 2015-2016

S.No	NAME OF THE STUDENT	Regd.No.	Name of the employer	Appointment no reference with date
1	B.S.M Swami	12MQ1A0310	EDAC ENGINNERING Ltd	5/7/2016
2	GORLE VASU	12MQ1A0322	EDAC ENGINNERING Ltd	5/7/2016
3	J SUBRAMANIYAM	12MQ1A0327	EDAC ENGINNERING Ltd	EMP NO TM 549 5/7/2016
4	MOHAMMED DILDAR SHARIF	12MQ1A0339	EDAC ENGINNERING Ltd	EMP NO TM 548 5/7/2016
5	P ANIL KUMAR	12MQ1A0346	EDAC ENGINNERING Ltd	5/7/2016
6	P HEMANTH RAM	12MQ1A0348	EDAC ENGINNERING Ltd	5/7/2016
7	B MAHESH BABU	13MQ5A0303	EDAC ENGINNERING Ltd	5/7/2016
Outside the college				
8	SUBRAMANYAM GUTTI	12MQ1A0323	PITTI ENGINEERING LIMITED	EMP ID 305006
9	KANDULA RAJESH	12MQ1A0330	IX & A R(I)	5/11/2016

			Pvt.Ltd.Mumbai	
10	B ASWINI KUMAR	12MQ1A0313	RAK CERAMICS	7/10/18
11	SHAIK HASEENA	12MQ1A0307	SISRB	EMP ID 70814
12	CH SUGUNA	13MQ5A0302	AANMVVRSR POLYTECHNIC	6/6/2017
13	P SUSHMITHA	12MQ1A0305	MEIL	MEIL/APP 3371/2018-19
14	MURALA SREEKANTH	13MQ5A0309	BEVCON WAYORS PVT.LTD	HR/ 009 REV 0-W.E.F 1/10/2016
15	KOMMU DURGA RAO	12MQ1A0331	SYNNAT PHARMA PVT LTD	5/5/2017
16	N HARI SAI SRINIVAS	12MQ1A0344	COGNIZANT	625051
17	Y DURGA RAO	12MQ1A0355	THE ADARSH CO OPERATIVE URBAN BANKLTD	EMP CODE 1134
18	OLLI KUMAR SAI	12MQ1A0345	SHIVAN TECHNOLOGIES (O) PVT LTD	5/9/2018
19	T. RAJAVARDHAN RAO	12MQ1A0352	SSD POLYMERS	15.5.2017
20	S. NAGA JYOTHI	13MQ5A0301	SSD POLYMERS	15.5.2017
21	P RAMESH	13MQ5A0311	SSD POLYMERS	15.5.2017
22	V SAMBA SIVA RAO	13MQ5A0315	SSD POLYMERS	15.5.2017

4.6. Professional Activities (20)

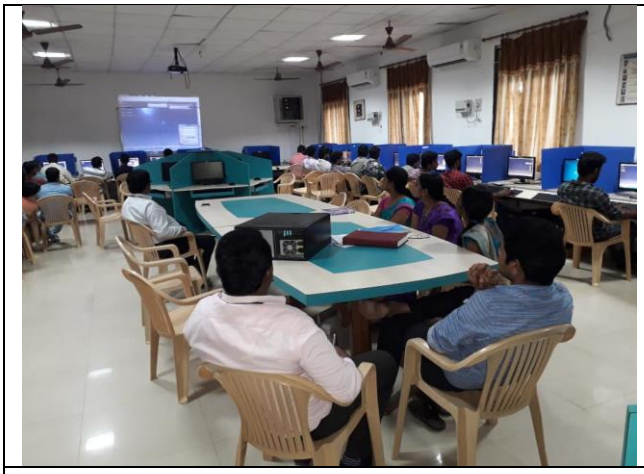
4.6.1. Professional societies/chapters and organizing engineering events (5)

The Department has xxxx Professional Society Membership
Xxxx Intuitional membership with Membership no :xxxx

Technical Events:

Academic Year 2018-2019:

Sl. No.	Name of the Guest Lecture/Seminar/Workshop	Date	Resource Person	No of participants
1	Expert Lecture on Thermodynamics	7th & 8th May 2018	Dr.D.Nageswara Rao, Ex Vice Chancellor, Centurian University of Technology and Management	11 Faculty Members
2	Automobile Braking System	8th September,2018	Sri R.Venkataramaiah,GM, Federal Mogul Motors India Limited,Chennai.	90
3	A two Day Workshop on PRO-e & CATIA	27-28TH December,2018	ECTC,VIJAYAWADA	50
4	Paper Presentation	11th,23rd Jan,18th Feb,2018	Mr.P.Satyanarayana	32
5	Poster Presentation	18th ,28th Jan, 20th Feb	Mr.V.Sreedhar Reddy	12
6	Technical Exhibition	4th,6th,15th Feb,2018	Mr.V. Vijaya Bhaskar	10
7	Technical quiz	1st ,11th,13th Feb,2018	Mr.T.Eswara Rao	62

	
Students practicing in Workshop on Ansys &Creo3.0	**Resource person explaining in guest lecture on Automobile Braking System**

Academic Year :2017-2018:

Sl. No.	Name of the Guest Lecture/Seminar/Workshop	Date	Resource Person	No of participants
1	Non Destructive Testing	4th , 5th September 2017	VIDAL – NDT	70
2	Automobile & Ic Engine Design	4th , 5th January 2018	- Entrench Electronics	70
3	Mechanical Vibrations	28th August 2017	Dr. Meera Saheb, JNTUK	80
4	Paper Presentation	24th January2018	Mr.V.Vijaya Bhaskar/ Mr.K.Sukumar	24
5	Poster Presentation	27th January2018	Mr. P.Satyanarayana/ Mr.K.Ravi	14
6	Technical Exhibition	30thJanuary 2018	Mr.V.Vijaya Bhaskar / Mr. P. Satyanarayana / Mr. K. Sukumar	12
7	Technical quiz	4th February 2018	Ms.P.Charitha Krishna/ Ms.V.Sai Mounica	78

	
Students testing during workshop on Non Destructive Testing	**Students testing during workshop on Non Destructive Testing**
	
Students assembling the engine during Automobile & IC Engine Design workshop	**Resource person explaining during Automobile & IC Engine Design workshop**
	
Felicitation of resource person during expert lecture on Vibration Engineering Applications	**Students testing during workshop on Non Destructive Testing**

Academic Year:2016-2017

Sl. No.	Name of the Guest Lecture/Seminar/Workshop	Date	Resource Person	No of participants
1	Recent trends in Mechanical Engineering	28th August 2017	Dr. Meera Saheb, JNTUK	90
2	Non Destructive Testing	24th January2017	Sky High Institutions	67
3	NDT of Castings,Forging and Weldments	27th January2017	Dr K.V.Sai Srinadh, Professor of NITW	67
4	Paper Presentation	30thJanuary 2017	Mr.V.Vijaya Bhaskar / Mr. P. Satyanarayana	21
5	Poster Presentation	4thFebruary 2017	Mr B.Suresh Babu/Mr K.Srinivasulu	15
6	Technical Exhibition	7thFebruary 2017	Mr.P.Ajay Kumar/Mr P Chinna Ganga Raju	11
7	Technical quiz	8thFebruary 2017	Mr D.Sri Ram Prasad/ Mrs Ch.Sirisha	72

Recent trends in Mechanical Engineering

Academic Year:2015-2016

Sl. No.	Name of the Guest Lecture/Seminar/Workshop	Date	Resource Person	No of participants
1	2 day workshop on Ansys Workbench	4-5th march 2016	Brilliant Tech Academy	60
2	Paper Presentation	16thFebruary 2016	Mr.P.Ajay Kumar	15
3	Poster Presentation	17thFebruary 2016	Mr B.Suresh Babu	10
4	Technical Exhibition	18thFebruary 2016	Mr.V.Vijaya Bhaskar	10
5	Technical quiz	19thFebruary 2016	Mr. P. Satyanarayana	60

4.6.2. Publication of technical magazines, newsletters, etc. (5)
Department Magazine – MANA ARMS
Faculty Coordinators: Sri.P. Satyanarayana ,Sri. V. Vijaya Bhaskar

Student Members: Pappala Sikhindar Datha Ganesh -IV-B.tech.,,Pinniboyina Prudhviraj -IV-B.tech.
2017-18: Sayina Venu Mahesh -IV-B.tech.Tumma S V D Veera Bhadra Chari-IV-B.tech.
2016-17: Balla Mohana Vamsi Krishna -IV-B.tech. Lakanam Harish-IV-B.tech.

SI.No.	Student Memebrs	Date
1.	Pappala Sikhindar Datha Ganesh -IV-B.tech., Pinniboyina Prudhviraj -IV-B.tech.	Volume-12,Issue-4,October-2018
2.		Volume-11,Issue-3,July-2018
3.	Sayina Venu Mahesh -IV-B.tech. Tumma S V D Veera Bhadra Chari-IV-B.tech.	Volume-10,Issue-2,April-2018
4.		Volume-9,Issue-1,January-2018
5.	Sayina Venu Mahesh -IV-B.tech. Tumma S V D Veera Bhadra Chari-IV-B.tech.	Volume-8,Issue-4,October-2017
6.		Volume-7,Issue-3,July-2017
7.	Balla Mohana Vamsi Krishna -IV-B.tech. Lakanam Harish-IV-B.tech.	Volume-6,Issue-2,April-2017
8.		Volume-5,Issue-1,January-2017
9.		Volume-4,Issue-4,October-2016
10.		Volume-3,Issue-3,July-2016
11.		Volume-2,Issue-2,April-2016
12.		Volume-1,Issue-1,January-2016

MANA ARMS **A Technical Magazine…..**

DEPARTMENT OF MECHANICAL ENGINEERING
SRI VASAVI INSTITUTE OF ENGINEERING & TECHNOLOGY
NANDAMURU. PEDANA. 521 369.

Volume 1 **March 2018**

Rapid prototyping is a group of techniques used to quickly fabricate a scale model of a physical part or assembly using three-dimensional computer aided design (CAD) data. Construction of the part or assembly is usually done using 3D printing or "additive layer manufacturing" technology.

Today, they are used for a wide range of applications and are used to manufacture production-quality parts in relatively small numbers if desired without the typical unfavorable short-run economics. This economy has encouraged online service bureaus. Historical surveys of RP technology start with discussions of simulacra production techniques used by 19th-century sculptors. Some modern sculptors use the progeny

technology to produce exhibitions. The ability to reproduce designs from a dataset has given rise to issues of rights, as it is now possible to interpolate volumetric data from one-dimensional images

An agricultural drone is an unmanned aerial vehicle applied to farming in order to help increase crop production and monitor crop growth. Sensors and digital imaging capabilities can give farmers a richer picture of their fields. This information may prove useful in improving crop yields and farm efficiency. The use of agricultural drones has ethical and social implications. One benefit is that they are able to monitor and control the use of pesticides properly. This allows minimizing the environmental impact of pesticides. However, drones don't need access authority to flying overs someone's property at under 400 feet (130 m) altitude. They may have microphones and cameras attached, and the resulting concern for potential privacy violation has caused some opposition towards drones.

Submitted by
16MQ5A0306Mamidi V V Raghavendra Pavan Kalyan

Remote Control Lawn Mower

The remote control lawn mower is a machine used to make the process of grass cutting easier. The lawn mowers movement is controlled using RF remote control where the transmitter circuit will be placed at the remote control while the receiver circuit will be placed at the lawn mower. This would be beneficial because man power is not required in moving the lawn on those hot summer days. The remote will allow the user to control the speed and direction of the lawn mower by moving the Joy-sticks.

Submitted by
15MQ5A0304CHITTAJALLU PRABHU KUMAR

Multipurpose Machine Tools

In the early stages of industrialization, a dedicated machines and machine tool are allotted to perform a specific job. As a part of optimizing the resources like number of operators required, lead time and an improvement was made by designing multi operated machine tools like Drilling, Grinding, Milling and Cutting so because these operations are the heart of any work shop/machine shop and they are especially indispensible. The problem with these kind of machines is the power has to given all the associated tools of multipurpose machine tools, even some of the tools are inactive for the current operation.

It is better to idealize the unused tools from the machine to save the power and other resources. In this connection a new idea was proposed by incorporating a special attachment to the multipurpose machine will enhance its performance in this work the effect of these special attachments on the performance of machine was analyzed. It can be used in small scale industries/work shop to work upon metal plates and on wood in carpentry shop.

Submitted by
15MQ5A0308 LAKANAM DURGA PRASAD

Techincal Events:

Sl.No	Name Of The Student	Event Name	Place	Academic Year	Prize
1	K.N.V.Sanjeev Kumar	Poster Presentation	Guntur Engg College	2018	First
2	T.Ram Narayana	Poster Presentation	Guntur Engg College	2018	First
3	Knvvl Krishna	Gecfest'18(National Level Tachnical Paper Contest)	Gudlavalleru Engg College	2017	First
4	Dvs Ramakrishna	Gecfest'18 (National Level Tachnical Paper Contest)	Gudlavalleru Engg College	2017	First
5	D.V.S. Ramakrishna	Project Expo	Sri Sunflower College Of Engg	2018	First
6	D.V.S. Ramakrishna	Paper Presentation	Sri Sunflower College Of Engg	2018	First
7	T.S.V.D. Bhadrachari	Techvilla	S.R.K.R Engg College	2018	First
8	T.S.V.D. Bhadrachari	Project Expo	Sri Sunflower College Of Engg	2018	First
9	K.N.V.V.L Krishna	Project Expo	Sri Sunflower College Of Engg	2018	First
10	K.N.V.Sanjeev Kumar	Poster Presentation	Sri Sunflower College Of Engg	2018	First
11	T.Ram Narayana	Poster Presentation	,Sri Sunflower College Of Engg	2018	First

Campus Placements:

S.No	Reg No	Company Name
1	14MQ1A0303	ALIENS
2		TECHSOSYS
3		AUTOMOTIVE MANUFACTURES PVT LTD
4	15MQ5A0307	ALIENS
5		VEE TECHNOLOGIES
6	14MQ1A0301	SURYA TECH SOLUTIONS
7	14MQ1A0302	SURYA TECH SOLUTIONS
8	14MQ1A0314	SURYA TECH SOLUTIONS
9	14MQ1A0336	SURYA TECH SOLUTIONS
10	14MQ1A0344	SURYA TECH SOLUTIONS
11	14MQ1A0346	SURYA TECH SOLUTIONS
12	14MQ1A0305	NUCON AEROSPACE PVT LTD
13	14MQ1A0316	TECHSOSYS
14		SRINIVASA ENGINEERS PVT LTD
15	15MQ5A0314	TECHSOSYS
16	14MQ1A0341	HYOSEONG ELECTRIC CO., LTD
17	15MQ5A0315	WICKEDRIDE ADVENTURE SERVICES PVT.LTD
18	15MQ5A0310	MTAR

Institute News Letter - VIBES

VOLUME -9 **DECEMBER – 2018** **ISSUE-9**

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4.6.3 Participation in inter-institute events by students of the program of study (10)

Technical, Cultural, Sports events attended by Students & prize won (if any)

PRIZES WON(2018-2019)

Sl. No.	Name of the Participant	Name of the Event	Date & Venue	Prize won (if any)
1	P.MANOHAR GANESH	TECHNO-CULTURAL SYMPOSIUM,(theme ballet)	14th,15th Dec 2018, DIET	First
2	K.EASWAR KUMAR	TECHNO-CULTURAL SYMPOSIUM,(theme ballet)	14th,15th Dec 2018, DIET	First
3	RAVI PRASANTH KUMAR	TECHNO-CULTURAL SYMPOSIUM,(ENGINE ASSEMBLING)	14th,15th Dec 2018, DIET	First

PARTICIPATED(2018-2019)

Sl. No.	Name of the Participant	Name of the Event	Date & Venue	Prize won (if any)
1	A.R.B.N RAJU	VIKASET FEST-2018,VIKALPA QUIZ	15TH DEC.	-
2	R PRASANTH KUMAR	TECHNO-CULTURAL SYMPOSIUM(TECHNICAL QUIZ)	14th,15th Dec 2018, DIET	-
3	R PRASANTH KUMAR	TECHNO-CULTURAL SYMPOSIUM(LAB VIEW)	14th,15th Dec 2018, DIET	-
4	T.HEMANTH	TECHNO-CULTURAL SYMPOSIUM,(ENGINE ASSEMBLING)	14th,15th Dec 2018 DIET	-
5	P.JAGADEESH	TECHNO-CULTURAL SYMPOSIUM,(ENGINE ASSEMBLING)	14th,15th Dec 2018 DIET	-
6	A.SANDEEP	TECHNO-CULTURAL SYMPOSIUM(PAPER PRESENTATION)	14th,15th Dec 2018, DIET	-
7	K.PREM KUMAR	TECHNO-CULTURAL SYMPOSIUM(LAB VIEW)	14th,15th Dec 2018, DIET	-
8	A.BHASKAR KALI	TECHNO-CULTURAL SYMPOSIUM(LAB VIEW)	14th,15th Dec 2018, DIET	-

2017-2018

Sl. No.	Name of the Participant	Name of the Event	Date & Venue	Prize won (if any)
1	P.RAVIKUMAR	PAPER PRESENTATION	Mecharena 2k18, University College of Engineering Osmania University, Hyderabad, Telangana, 9-10th March 2018	SECOND
2	M.V.V.R PAVAN KALYAN	PAPER PRESENTATION	Mechnovate 18, VIT University, Vellore, Tamil Nadu, 22-25th March 2018	THIRD
3	K.N.V.SANJEEV KUMAR	POSTER PRESENTATION	8-9th Jan,18,Guntur Engg College	FIRST
4	T.RAM NARAYANA	POSTER PRESENTATION	8-9th Jan,18,Guntur Engg College	FIRST
5	KNVVL KRISHNA	GECFEST'18(National Level Tachnical Paper Contest)	15-17th feb,Gudlavalleru Engg College	FIRST
6	DVS RAMAKRISHNA	GECFEST'18 (National Level Tachnical Paper Contest)	15-17th feb,Gudlavalleru Engg College	FIRST
7	D.V.S. RAMAKRISHNA	PROJECT EXPO	22-24th Feb'18,Sri Sunflower College of Engg	FIRST
8	D.V.S. RAMAKRISHNA	PAPER PRESENTATION	22-24th Feb'18,Sri Sunflower College of Engg	FIRST
9	T.S.V.D. BHADRACHARI	TECHVILLA	8-9th Feb,18,S.R.K.R Engg College	FIRST
10	T.S.V.D. BHADRACHARI	PROJECT EXPO	22-24th Feb'18,Sri Sunflower College of Engg	FIRST
11	K.N.V.V.L KRISHNA	PROJECT EXPO	22-24th Feb'18,Sri Sunflower College of Engg	FIRST
12	K.N.V.SANJEEV KUMAR	POSTER PRESENTATION	22-24th Feb'18,Sri Sunflower College of Engg	FIRST
13	T.RAM NARAYANA	POSTER PRESENTATION	22-24th Feb'18,Sri Sunflower College of Engg	FIRST

2016-2017

Sl. No.	Name of the Participant	Name of the Event	Date & Venue	Prize won (if any)
1	A.AKHIL	PAPER PRESENTATION	4,5TH MARCH,17. CBIT,HYD	SECOND
2	L.HARISH	PAPER PRESENTATION	Mechnovate 17, March 2017, VIT University,Vellore, Tamilnadu, India.	FIRST
3	D.V.S. RAMAKRISHNA	POSTER PRESENTATION	23-12-2016, SVIT,HYD	THIRD
4	T.S.V.D.V BHADRACHARI	TRUSS CHAMP	8th& 9th Feb 2017,S.R.K.R engg College	FIRST
5	A.SAI MANVITH	PAPER PRESENTATION	09-02-2017,P.V.P Sidhartha Institute of Technology	FIRST

Sl. No.	Name of the Participant	Name of the Event	Date & Venue	Prize won (if any)
1	J.SAI KUMAR	PAPER PRESENTATION	GREENICS 2016, College of Engineering Guindy Anna University, Agricultural Symposium, Chennai, Tamil Nadu, 25-27th March 2016	
2	P.SUDHEER	PAPER PRESENTATION	14,15TH ,Feb,Pondicherry University, Pondicherry	
3	M.Naga MAllikharjuna Rao	INNOVAZIONE	17th& 18th December 2015,JNTUK	First
4	Y.Durga Rao	Project	25th& 26th Feb,2016, Sri Sunflower College of Engg	First
5	K.Nikhil Varma	Project	25th& 26th Feb,2016, Sri Sunflower College of Engg	First
6	Y.Durga Rao	PPT	25th& 26th Feb,2016, Sri Sunflower College of Engg	First
7	S.Gopi Nadh	Paper Presentation	4th& 5th March 2016,MVR college of Engg & Technology	Second
8	Y.Durga Rao	Paper Presentation	4th& 5th March 2016,MVR	Second

			college of Engg & Technology	
7	S.Gopinadh	Poster Presentation	11th& 12th March 2016,Malineni Perumallu Educational Societies Group of Institutions	First
8	Y.Durga Rao	Poster Presentation	11th& 12th March 2016,Malineni Perumallu Educational Societies Group of Institutions	First

CRITERION 5	Faculty Information and Contributions	200

5. Faculty Information and Contributions (200): 2018-2019 Faculty list.

S.NO	Name of the Faculty Member	Qualification			Association with the Institution	Designation	Date on which designation as professor/Associate Professor	Date of Joining the Institution	Department	Specialization	Academic Research				Currently Associated(Y/N) Date of Leaving (In Case Currently Associated is ('No')	Nature of Association (Regular /Contract)
		Degree (Highest Degree)	University	Year of attending higher qualification							Research Paper Publications	Ph.D. Guidance	Faculty receiving Ph.D. during assessment Years	work load % of first year		
1.	Dr.A.B.Srinnivas Rao	Ph.D	OU	2013	Yes	Professor	01/10/2014	01/10/2014	Mech	Production Engineering	1	3	-		Yes	Regular
2.	Dr. D.Raja Ramesh	Ph.D	JNTUH	2015	Yes	Professor	01/07/2016	01/07/2016	Mech	Production Engineering			-		Yes	Regular
3.	P.Ajaya kumar	M.Tech	JNTUH	2003	NO	Associate Professor	03/12/2009	03/12/2009	Mech	Machine Design		-	-		NO 31/10/2018	Regular
4.	V.Vijaya Bhaskar	M.Tech	JNTUK	2010	Yes	Associate Professor	29/05/2013	29/05/2013	Mech	Machine Design	1	-	-		Yes	Regular
5.	V.Sridhara Reddy	B.E,M.E	JNTUK	2000	Yes	Associate Professor	05/11/2018	05/11/2018	Mech	Manufacturing Technology		-	-	77	Yes	Regular
6.	P Satyanarayana	M.Tech	ANU	2010	Yes	Assistant Professor	-	16/05/2011	Mech	CAD/CAM		-	-	13	Yes	Regular
7.	K Ravi	M.Tech	JNTUK	2017	Yes	Assistant Professor	-	08/03/2017	Mech	Thermal Engineering		-	-	13	Yes	Regular
8.	A Rajesh	M.Tech	JNTUK	2013	Yes	Assistant Professor	-	02/06/2017	Mech	Thermal Engineering		-	-		Yes	Regular
9.	K Sukumar	M.Tech	NIT	2016	Yes	Assistant Professor	-	02/06/2017	Mech	Thermal Engineering	-	-	-		Yes	Regular
10.	P Charitha Krishna	M.Tech	JNTUK	2017	Yes	Assistant Professor	-	03/10/2016	Mech	Thermal Engineering	-	-	-	31	Yes	Regular
11.	V Sai Mounica	M.Tech	JNTUK	2018	Yes	Assistant	-	05/06/2017	Mech	Machine		-	-	27	Yes	Regular

						Professor				Design							
12.	Ch.Anusha	M.Tech	ANU	2015	Yes	Assistant Professor	-	15/06/2018	Mech	Machine Design		-	-	65	Yes	Regular
13.	V.Satish Kumar	M.Tech	JNTUK	2016	Yes	Assistant Professor	-	21/07/2015	Mech	CAD/CAM		-	-	38	Yes	Regular

First year Faculty list

S.NO	Name of the Faculty Member	Qualification			Association with the Institution	Designation	Date on which designation as professor/Associate Professor	Date of Joining the Institution	Department	Specialization	Academic Research				Currently Associated(Y/N) Date of Leaving (In Case Currently Associated is ('No')	Nature of Association (Regular /Contract)
		Degree (Highest Degree)	University	Year of attending higher qualification							Research Paper Publications	Ph.D. Guidance	Faculty receiving Ph.D. during assessment Years	work load % of first year		
1	T.Eswara Rao	M.Tech	JNTUK	2016	Yes	Assistant Professor	-	05/11/2018	Mech	Thermal Engineering		-	-	95	Yes	Regular

2017-2018 Faculty list

S.NO	Name of the Faculty Member	Qualification			Association with the Institution	Designation	Date on which designation as professor/Associate Professor	Date of Joining the Institution	Department	Specialization	Academic Research				Currently Associated(Y/N) Date of Leaving (In Case Currently Associated is ('No')	Nature of Association (Regular /Contract)
		Degree (Highest Degree)	University	Year of attending higher qualification							Research Paper Publications	Ph.D. Guidance	Faculty receiving Ph.D. during assessment Years	work load % of first year		
1.	Dr.A.B.Srinnivasa Rao	Ph.D	OU	2013	Yes	Professor	01/10/2014	01/10/2014	Mech	Production Engineering	3		-		Yes	Regular
2.	Dr. D.Raja Ramesh	Ph.D	JNTUH	2015	Yes	Professor	01/07/2016	01/07/2016	Mech	Production Engineering			-		Yes	Regular
3.	P.Ajaya kumar	M.Tech	JNTUH	2003	Yes	Associate Professor	03/12/2009	03/12/2009	Mech	Machine Design		-	-	10	No 31/10/2018	Regular
4.	V.Vijaya Bhaskar	M.Tech	JNTUK	2010	Yes	Associate Professor	29/05/2013	29/05/2013	Mech	Machine Design	1	-	-	14	Yes	Regular
5.	P Satyanarayana	M.Tech	ANU	2010	Yes	Assistant Professor	-	16/05/2011	Mech	CAD/CAM	1	-	-		Yes	Regular
6.	P Chinna Ganga Raju	M.Tech	JNTUK	2016	Yes	Assistant Professor	-	10/06/2016	Mech	Machine Design		-	-	35	No	Regular
7.	V.Satish Kumar	M.Tech	JNTUK	2016	Yes	Assistant Professor	-	21/07/2015	Mech	CAD/CAM		-	-	31	Yes	Regular
8.	K.Ravi	M.Tech	JNTUK	2017	Yes	Assistant Professor	-	08/03/2017	Mech	Thermal Engineering		-	-	41	Yes	Regular

9.	A Rajesh	M.Tech	JNTUK	2013	Yes	Assistant Professor	-	02/06/2017	Mech	Thermal Engineering		-	-		Yes	Regular
10.	K Sukumar	M.Tech	NIT	2016	Yes	Assistant Professor	-	02/06/2017	Mech	Thermal Engineering		-	-	45	Yes	Regular

First year Faculty list

S.NO	Name of the Faculty Member	Qualification			Association with the Institution	Designation	Date on which designation as professor/Associate Professor	Date of Joining the Institution	Department	Specialization	Academic Research			work load % of first year	Currently Associated(Y/N) Date of Leaving (In Case Currently Associated is ('No')	Nature of Association (Regular /Contract)
		Degree (Highest Degree)	University	Year of attending higher qualification							Research Paper Publications	Ph.D. Guidance	Faculty receiving Ph.D. during assessment Years			
1	K.Sreenivasulu	M.Tech	JNTUK	2000	Yes	Associate Professor	03/06/2013	03/06/2013	Mech	Machine Design		-	-		No 07/11/2017	Regular
2	V Sai Mounica	M.Tech	JNTUK	2018	Yes	Assistant Professor	-	05/06/2017	Mech	Machine Design		-	-	85	Yes	Regular
3	P Charitha Krishna	M.Tech	JNTUK	2017	Yes	Assistant Professor	-	03/10/2016	Mech	Thermal Engineering		-	-	61	Yes	Regular

2016-2017 Faculty Lists

S. No.	Name of the Faculty Member	Qualification			Association with the Institution	Designation	Date on which designation as professor/Associate Professor	Date of Joining the Institution	Department	Specialization	Academic Research				Currently Associated(Y/N) Date of Leaving (In Case Currently Associated is ('No')	Nature of Association (Regular /Contract)
		Degree (Highest Degree)	University	Year of attending higher qualification							Research Paper Publications	Ph.D. Guidance	Faculty receiving Ph.D. during assessment Years	work load % of first year		
1.	Dr.A.B.Srinnivasa Rao	Ph. D	OU	2013	Yes	Professor & Principal	01/10/2014	01/10/2014	Mech	Production Engineering	4		-		Yes	Regular
2.	Dr. D.RajaRamesh	Ph. D	JNTUH	2015	Yes	Professor	01/07/2016	01/07/2016	Mech	Production Engineering			-		Yes	Regular
3.	P.Ajaya kumar	M.Tech	JNTUH	2003	Yes	Associate Professor	03/12/2009	03/12/2009	Mech	Machine Design		-	-	38	No 31/10/2018	Regular
4.	K.Sreenivasulu	M.Tech	JNTUK	2000	Yes	Associate Professor	03/06/2013	03/06/2013	Mech	Machine Design		-	-	26	No	Regular
5.	B.Suresh Babu	M.Tech	NIT	2003	Yes	Associate Professor	01/06/2012	01/06/2012	Mech	AMP		-	-		No	Regular
6.	V.Vijaya Bhaskar	M.Tech	JNTUK	2010	Yes	Associate Professor	29/05/2013	29/05/2013	Mech	Machine Design	1	-	-	55	Yes	Regular
7.	D S Ram Prasad	M.Tech	ANDHRA	2005	Yes	Associate Professor	11/09/2015	11/09/2015	Mech	Thermal Engineering		-	-	18	No	Regular

8.	P Satyanarayana	M.Tech	ANU	2010	Yes	Assistant Professor	-	16/05/2011	Mech	CAD/CAM		-	-		Yes	Regular
9.	A.Rahul Kumar	M.Tech	KLU	2012	Yes	Assistant Professor	-	01/10/2012	Mech	Thermal Engineering		-	-	28	No	Regular
10.	V.Satish Kumar	M.Tech	JNTUK	2016	Yes	Assistant Professor	-	21/07/2015	Mech	CAD/CAM	-	-	-	52	Yes	Regular
11.	Ch.Sirisha	M.Tech	JNTUK	2016	Yes	Assistant Professor	-	02/06/2014	Mech	Thermal Engineering	-	-	-		No	Regular

First year Faculty list

S.NO	Name of the Faculty Member	Qualification			Association with the Institution	Designation	Date on which designation as professor/Associate Professor	Date of Joining the Institution	Department	Specialization	Academic Research				Currently Associated(Y/N) Date of Leaving (In Case Currently Associated is ('No')	Nature of Association (Regular /Contract)
		Degree (Highest Degree)	University	Year of attending higher qualification							Research Paper Publications	Ph.D. Guidance	Faculty receiving Ph.D. during assessment Years	work load % of first year		
1	P Chinna Ganga Raju	M.Tech	JNTUK	2016	Yes	Assistant Professor	-	10/06/2016	Mech	Machine Design	-	-	-	90	No	Regular
2	P Charitha Krishna	M.Tech	JNTUK	2017	Yes	Assistant Professor	-	03/10/2016	Mech	Thermal Engineering		-	-	95	Yes	Regular

5.1 Student- Faculty Ratio (SFR) (20)

(To be calculated at Department Level)

No. of UG Programs in the Department (n): 01

No. of PG Programs in the Department (m): 01

No. of Students in UG 2nd Year= u1

No. of Students in UG 3rd Year= u2

No. of Students in UG 4th Year= u3

No. of Students in PG 1st Year= p1

No. of Students in PG 2nd Year= p2

No. of Students = Sanctioned Intake + Actual admitted lateral entry students

(The above data to be provided considering all the UG and PG programs of the department)

S=Number of Students in the Department = UG1 + UG2 +.. +UG3 + PG1 + ...PG2

F = Total Number of Faculty Members in the Department (excluding first year faculty)

Student Teacher Ratio (STR) = S / F

Year	**2018-19**	**2017-18**	**2016-17**
u1.1(II Yr)	72	72	72
u1.2(III Yr)	72	72	72
u1.3(IV Yr)	72	72	72
UG1	216	216	216
p1.1(I Yr)	0	0	0
p1.2(II Yr)	0	0	0
PG1	0	0	0
Total No. ofStudents in the Department**(S)**	216	216	216
No. of Faculty in the Department(F)	13	10	11
Student Faculty Ratio (SFR)	16.62	21.60	19.64
Average SFR	19.29		

Note: Minimum 75% should be Regular/ full time faculty and the remaining shall be Contractual Faculty/Adjunct Faculty/Resource persons from industry as per AICTE norms and standards.

The contractual faculty will be considered for assessment only if a faculty is drawing a salary as prescribed by the concerned State Government for the contractual faculty in the respective cadre and who have taught over consecutive 4 semesters.

Marks to be given proportionally from a maximum of 25to a minimum of 10 for average SFR between 15:1 to 25:1, and zero for average SFR higher than 25:1.

5.1.1. Provide the information about the regular and contractual faculty as per the format mentioned below:

	Total number of regular faculty in the department	Total number of contractual faculty in the department
2018-19	14	-
2017-18	13	-
2016-17	13	-

Table 5.1.1

5.2 Faculty Cadre Proportion (25)

The reference Faculty cadre proportion is 1(F1):2(F2):6(F3)

F1: Number of Professors required = 1/9 x Number of Faculty required to comply with 20:1 Student-Faculty ratio based on no. ofstudents (N) as per 5.1

F2: Number of Associate Professors required=2/9xNumberofFacultyrequiredtocomplywith 20:1Student-Faculty ratio based on no. ofstudents (N) asper5.1

F3: Number of Assistant Professors required =6/9xNumberofFacultyrequiredtocomplywith 20:1Student-Faculty ratio based on no. ofstudents (N) as per 5.1

Year	**Professors**		**Associate Professors**		**Assistant Professors**	
	Required F1	Available	Required F2	Available	Required F3	Available
2018-2019	2	2	3	3	8	8
2017-2018	2	2	3	3	8	5
2016-2017	2	2	3	5	8	4
Average Numbers	RF1=2	AF1 =2	RF2=3	AF2= 3.66	RF3=8	AF3= 5.66

Cadre Ratio Marks = $\left(\left[\frac{AF1}{RF1} \right] + \left[\frac{AF2 \times 0.6}{RF2} \right] + \left[\frac{AF3 \times 0.4}{RF3} \right] \right) \times 12.5$ = (2/2) + (3.66*0.6/3) + (5.66*0.4/8) = (1 +0.36 +0.28) =1.64*12.5=20.5

- If AF1=AF2=0 then zero marks
- Maximum marks to be limited if it exceeds 25.

Example: Student No. = 180; Required number of Faculty: 12; RF1=1, RF2=2, and RF3=9
Case 1: AF1/RF1=1; AF2/RF2=1; AF3/RF3=1; Cadre proportion marks=(1.34+0.25+1.29)*12.5=36
Case 2: AF1/RF1=1; AF2/RF2=3/2; AF3/RF3=8/9; Cadre proportion marks=(+0.9+0.3)*12.5 =limited to 25
Case 3: AF1/RF1=0; AF2/RF2=1/2; AF3/RF3=11/9; Cadre proportion marks= (0+0.3+0.49)*12.5 = 9.87

5.3 Faculty Qualifications (25)

FQ=2.5x[(10X+4Y)/F)]wherexisno.ofregularfacultywithPh.D.,Yisno.ofregularfacultywithM.Tech.,Fisno.ofregularfacultyrequiredtocomply20:1Facultystudentratio(no.offacultyandno.ofstudentsrequiredaretobecalculatedasper 5.1)

Year	X	Y	F	FQ=2.5*[(10X+4Y)/F]
2018-2019	2	9	11	12.72
2017-2018	2	9	11	12.72
2016-2017	2	9	11	12.72
Average Assessment				12.72

5.4 Faculty Retention (25):

No. of regular faculty members 2016-17 =11 2017-18 =10 2018-19 =13

Item Retention of Faculty members joined before June 2015	Max Marks	2018-19	2017-18	2016-17
>=90% of required Faculty members retained during the period of assessment keeping 2014-15 as base year	25			
>=75% of required Faculty members retained during the period of assessment keeping 2014-15 as base year	20			
>=60% of required Faculty members retained during the period of assessment keeping 2014-15 as base year	15			
>=60% of required Faculty members retained during the period of assessment keeping 2014-15 as base year	10			
<50% of required Faculty members retained during the period of assessment keeping 2014-15 as base year	0	4/13=30.77	4/10=40.00	4/11=36.36

Assessment= 0

5.5 Innovations by the Faculty in Teaching and Learning (20)

Innovations by Faculty in teaching and learning shall be summarized as per the following description.

Contributions to teaching and learning are activities that contribute to the improvement of student learning. These activities may include innovations not limited to, use of Information and Communications Technology (ICT) instruction delivery, instructional methods, assessment evaluation and inclusive class rooms that lead to effective, efficient and engaging instruction. Any contributions to teaching and learning should satisfy the following criteria:

The work must be made available on Institute website

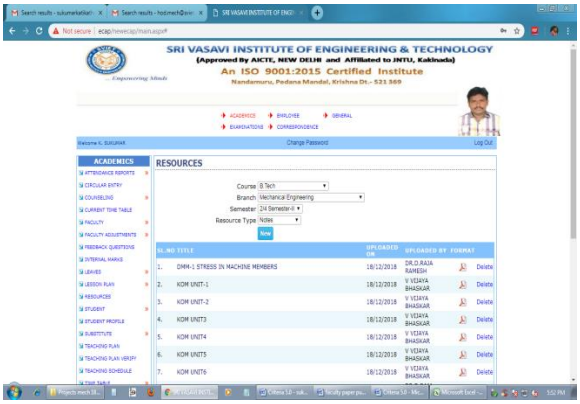
- The work must be available for peer review and critique
- The work must be reproducible and developed further by other stakeholders

The department/Institution may set up appropriate processes for making the contributions available to the public, getting them reviewed and for rewarding. These may typically include statement of clear goals, adequate preparation, use of appropriate methods, and significance of results, effective presentation and reflective critique.

- Students can access lecture notes uploaded on ecaphttp://117.239.54.69/newecap/main.aspx
- Students can access the lecture notes on online attendance portal
- Students can access the course material through the website named NPTEL (https://nptel.ac.in/courses) From this website we can have video lecture, Specially Prepared reading material, Self assessment test, online discuss on forum.

Faculty Name	Course Name	Innovative Teaching Method	Remarks/additional details
V. Sai Mounica	DMM-II	NPTEL	https://nptel.ac.in/courses/112106137/
V. Vijaya Bhaskar	FEM	NPTEL	https://nptel.ac.in/courses/112104115/
K.Sukumar	AE	NPTEL	https://nptel.ac.in/courses/107106080/
Dr. D. Raja Ramesh	DMM-I	NPTEL	http://www.nptelvideos.in/2012/12/design-of-machine-elements.html
K. Ravi	Machine Drawing	NPTEL	nptel.ac.in/syllabus/112106075/
Dr. D. Raja Ramesh	FM & HM	NPTEL	nptel.ac.in/courses/112105046/
K.Sukumar	AE	Guest Lecture	Given by R.Venkatramaiah, GM,Federal Mogul motor parts India ltd, Chennai , on 08.09.2018
Ch.Anusha	DOM	NPTEL	nptel.ac.in/courses/112104114/
K.Ravi	MCMT	NPTEL	https://nptel.ac.in/courses/112105127/pdf/LM-06.pdf
K. Ravi	TD	NPTEL	https://nptel.ac.in/courses/112104113/
P. Charitha Krishna	EM	NPTEL	https://nptel.ac.in/courses/112103109/
V. Sridhar Reddy	ED	NPTEL	https://nptel.ac.in/courses/112103019/
V. Vijaya Bhaskar	HT	NPTEL	https://nptel.ac.in/courses/112108149/
Ch. Anusha	IEM	NPTEL	https://nptel.ac.in/courses/112107142/
P. Satyanarayana	PT	NPTEL	https://nptel.ac.in/courses/112107144/
K. Sukumar	RAC	NPTEL	https://nptel.ac.in/courses/112105129/
P. Charith Krishna	Robotices	NPTEL	https://nptel.ac.in/courses/112101098/

- Instructional materials:
- ECAP/NEWECAP/MAIN.ASPX# website is used to upload the study material of all subjects by the faculty. Students can download it.



The list of subjects whose study material is available in the Ecap is given below

SNo	Name of the Subject	URL Links
1.	Thermodynamics	http://117.239.54.69/newecap/main.aspx#./thermodynamics-notes-pdf
2.	Mechanics of Solids	http://117.239.54.69/newecap/main.aspx#./mechanics of solids-notes-pdf
3.	Kinematics Of Machinery	http://117.239.54.69/newecap/main.aspx#./ kinematics of machinery-notes-pdf
4.	Metallurgy and Material Science	http://117.239.54.69/newecap/main.aspx#./ metallurgy and material science -notes-pdf
5.	Dynamics Of Machinery	http://117.239.54.69/newecap/main.aspx#./ dynamics of machinery-notes-pdf
6.	Design Of Machine Members-I	http://117.239.54.69/newecap/main.aspx#./ design of machine members-1-notes-pdf
7.	Manufacturing Process	http://117.239.54.69/newecap/main.aspx#./ manufacturing process-notes-pdf
8.	Fluid Mechanics And Hydraulic Machines	http://117.239.54.69/newecap/main.aspx#./ fluid mechanics and hydraulic machines-notes-pdf
9.	Thermal Engineering -I	http://117.239.54.69/newecap/main.aspx#./ thermal engineering-1-notes-pdf-te1
10.	Engineering Metrology	http://117.239.54.69/newecap/main.aspx#./ engineering metrology -notes-pdf
11.	Machine Tools	http://117.239.54.69/newecap/main.aspx#./ machine tools-notes-pdf-mt
12.	Managerial Economics	http://117.239.54.69/newecap/main.aspx#./ managerial economics

	and Financial Analysis	and financial analysis-notes
13.	Thermal Engineering-II	http://117.239.54.69/newecap/main.aspx#./ thermal engineering-2-notes-pdf
14.	Automobile Engineering	http://117.239.54.69/newecap/main.aspx#./ automobile engineering-notes-pdf
15.	Finite Element Methods	http://117.239.54.69/newecap/main.aspx#./ finite element methods -notes-pdf
16.	Refrigeration and Air Conditioning	http://117.239.54.69/newecap/main.aspx#./ refrigeration and air conditioning -notes-pdf
17.	Heat Transfer	http://117.239.54.69/newecap/main.aspx#./ heat transfer-notes-pdf
18.	Disaster Management	http://117.239.54.69/newecap/main.aspx#./ disaster management-notes-pdf
19.	Design Of Machine Members-II	http://117.239.54.69/newecap/main.aspx#./ design of machine members-2 -notes-pdf
20.	Operations Research	http://117.239.54.69/newecap/main.aspx#./ operations research-notes-pdf-
21.	Computer Aided Design And Manufacturing	http://117.239.54.69/newecap/main.aspx#./ computer aided design and manufacturing-notes-pdf-
22.	Power Plant Engineering	http://117.239.54.69/newecap/main.aspx#./ power plant engineering-notes-pdf-
23.	Instrumentation and Control Systems	http://117.239.54.69/newecap/main.aspx#./ instrumentation and control systems -notes-pdf
24.	Unconventional Machining Processes	http://117.239.54.69/newecap/main.aspx#./ unconventional machining processes -notes-pdf
25.	Production Planning And Control	http://117.239.54.69/newecap/main.aspx#./ production planning and control -notes-pdf
26.	Plant Layout And Material Handling	http://117.239.54.69/newecap/main.aspx#./ plant layout and material handling -notes-pdf

5.6 Faculty as participants in Faculty Development / Training Activities / STTPs (15)

A Faculty scores maximum five points for participation

- Participation in 2 to 5 days Faculty development program: 3 Point
- Participation>5 days Faculty development program: 5 points

Name of the Faculty	Max. 5 per Faculty		
	2018-19	2017-18	2016-17
Dr.A.B.Srinnivasa Rao			
Dr. D.RajaRamesh	5	5	
P.Ajaya kumar		5	
K.Sreenivasulu			
B.Suresh Babu			
V.Vijaya Bhaskar	5	3	5
D S Ram Prasad			
P Satyanarayana	5	3	
A.Rahul Kumar			
P Chinna Ganga Raju			
V.Satish Kumar			
Ch.Sirisha			
K.Ravi		5	
A Rajesh	5	5	
K Sukumar	5	5	
V Sai Mounica			
P Charitha Krishna	5		
Ch.Anusha	5		3
V. Sridhar Reddy	3		
T. Eswar Rao			
Sum	38	31	8
RF= No. of Faculty required to comply with 20:1 student-faculty ratio as per 5.1	11	11	11
Assessment = 3x(Sum / 0.5RF) (Marks limited to 15)	15	15	4.36
Average Assessment over three years (Marks limited to 15)	12		

FACULTY DEVELOPMENT PROGRAMME(FDP) / TRAINING ACTIVITIES

Academic Year: 2018-19

S.No	Name of the Faculty	Institution/Organization	Name of the Topic	Date
1	V. Sridhar Reddy	Dhanekula Institute of Engineering & Technology, Ganguru, Vijayawada	Practical applications of Computational Fluid Dynamics	23.11.2018 to 25.11.2018
2	K.Sukumar	NPTEL	Laws of thermodynamics	Aug- Sep 2018
3	Ch. Anusha	NPTEL	Strength of materials	Jul – Oct 2018
4	V. Vijaya Bhaskar	NPTEL	Principles of hydraulic machines and system Design	Aug- Sep 2018
5	P. Satyanarayana	NPTEL	Fundamentals of manufacturing processes	Jul – Oct 2018
6	Dr. D. Raja Ramesh	NPTEL	Laws of thermodynamics	Aug- Sep 2018
7	P. Charitha Krishna	NPTEL	Robotics	Aug- Sep 2018
8	Abburi. Rajesh	NPTEL	Laws of thermodynamics	Aug- Sep 2018

Academic Year: 2017-18

S.No	Name of the Faculty	Institution/Organization	Name of the Topic	Date
1	K. Sukumar	CADD Solutions Vijayawada	Training on CATIA & ANSYS	17.05.2018 to 10.06.2018
2	K. Ravi	CADD Solutions Vijayawada	Training on CATIA & ANSYS	17.05.2018 to 10.06.2018
3	Dr. D. Raja Ramesh	NPTEL	Fluid machines	Feb-March 2018
4	Abburi. Rajesh	NPTEL	Fluid machines	Feb-March 2018

Academic Year: 2016-17

S.No	Name of the Faculty	Institution/Organization	Name of the Topic	Date
1	V. Vijay Bhaskar	RAMACHANDRA College of Engineering, Eluru.	Computational Research Using MAT LAB	10.11.2016 to 12.11.2016
2	V. Vijay Bhaskar	RVR & JC College of Engineering, Guntur	March to Make in India through Engineering Advancements	29.09.2016 to 30.09.2016
3	V. Vijay Bhaskar	St. Ann's college of Engineering & Technology, Chirala	RECENT ADVANCES IN FIBRE REINFORCED POLYMER	14.04.2017 to 15.04.2017

5.7 Research and Development (30)

5.7.1 Academic Research (10)

Academic research includes research paper publications, Ph.D. guidance and faculty receiving Ph.D. during the assessment period.

- No. of Quality Publications in referred/SCI Journals, citations, books/book Chapters etc. (6)
- Ph. D guided / Ph. D awarded during the assessment period while working in the Institute (4)

All relevant details shall be mentioned.

Name of the Faculty	Details of Publications		
	2018-19	2017-18	2016-17
Dr.A.B.Srinnivasa Rao		10	10
Dr. D.RajaRamesh	6		
P.Ajaya kumar			
K.Sreenivasulu			
B.Suresh Babu			
V.Vijaya Bhaskar	6	6	6
D S Ram Prasad			
P Satyanarayana			
A.Rahul Kumar			
P Chinna Ganga Raju			

V.Satish Kumar			
Ch.Sirisha			
K.Ravi			6
A Rajesh			
K Sukumar			
V Sai Mounica			
P Charitha Krishna			
Ch.Anusha			
V. Sridhar Reddy			
T. Eswar Rao			
Sum	12	22	22
Average	19		

Academic Year: 2018-2019

S.No.	Name Of The Faculty	Titple Of The Paper	Name Of The Journal/ Conference	Volume , Issue No& Page No	Issn Number And Year Of Publication
1	Dr. D. Raja Ramesh	Implementation Of Taguchi Technique For Optimization Of Performance Parameters Of Turning Process	International Research Journal Of Engineering & Technology (Irjet)	Volume 5, Issue 6 June 2018	2395-0056
2	V. Vijaya Bhaskar	Effect Of Fiber Parameters On Mechanical Behavior Of Banana-Palmyrahybrid Fiber Reinforced Epoxy Composites	Advanced Materials & Applications	26 July 2018	

Academic Year: 2017-2018

S.No.	Name Of The Faculty	Title Of The Paper	Name Of The Journal/ Conference	Volume ,Issue No& Page No	Issn Number And Year Of Publication
1.	V. Vijaya Bhaskar	Mechanical Characterisation Of Glass Fibre (Woven Roving/Chopped Strand Mat E-Glass Fiber) Reinforced Polyester Composites	American Institute Of Physics	020108 (2017)	
2.	Venkata Kamesh Vinjamuri, Kuchibhotla Mallikarjuna Rao,	Topological Synthesis Of Epicyclic Gear Trains Using Vertex Incidence Polynomial	ASME	June, 2017	0161-8458 0738-0666

	Annambhotla Balaji Srinivasa Rao				
3.	Venkata Kamesh Vinjamuri, Kuchibhotla Mallikarjuna Rao, Annambhotla Balaji Srinivasa Rao	Detection Of Degenerate Structure In Single Degree-Of-Freedom Planetary Gear Trains	ASME	August, 2017	0161-8458 0738-0666
4.	Venkata Kamesh Vinjamuri, Kuchibhotla Mallikarjuna Rao, Annambhotla Balaji Srinivasa Rao	An Innovative Approach To Detect Isomorphism In Planar And Geared Kinematic Chains Using Graph Theory	ASME	Decem ber 2017	0161-8458 0738-0666
5.	V.Srinivasa Rao, K.Mallikarjuna Rao, A.B.Srinivasa Rao	Application Of Fuzzy Entropy For The Rating Of Epicyclic Gear Trains	Australian Journal Of Mechanical Engineering, (Taylor & Francis)	02 May 2018	1448-4846

Academic Year: 2016-2017

S.No.	Name Of The Faculty	Title Of The Paper	Name Of The Journal/ Conference	Volume ,Issue No& Page No	Issn Number And Year Of Publication
1.	K. Ravi	Thermal And Static Analysis On A Ceramic Coated Diesel Engine Piston	Ijsetr	Vol.05, Issue.29 September-2016, Pages: 6014-6021	2319-8885

2.	M.Sreenivasa Reddy, K.Mallikarjuna Rao, A.B.Srinivasa Rao	A Novel Algorithm For The Generation Of Distinct Kinematic Chain	J. Inst. Eng. India Ser. C (Springer)	Volume 99, Issue 3, Pp 261–270	2250-0553
3.	V.Srinivasa Rao, K.Mallikarjuna Rao, A.B.Srinivasa Rao,	Application Of Fuzzy Entropy For The Rating Of Kinematic Chains	International Journal Of Engineering & Technology	Vol. 9(2), Apr-May 2017 , Pp.1540-1552.	2319-8613
4.	V.V.Kamesh, K. Mallikarjuna Rao, A.B.Srinivasa Rao	A Novel Method To Detect Isomorphism In Epicyclic Gear Trains	Imanager's Journal Of Future Engineering And Technology	Vol. 12(1), Aug-Oct 2016, Pp.28-35	2230-7184
5.	V.Srinivasa Rao, K.Mallikarjuna Rao, A.B.Srinivasa Rao	A Fuzzy Logic Approach For Structural Comparison Rating And Finding Distinct Inversions Of Kinematic Chains	I-Manager's Journal On Future Engineering & Technology	Vol.12 (2), November 2016-January 2017	2249-0744
6.	M.Sreenivasa Reddy, K.Mallikarjuna Rao, A.B.Srinivasa Rao	A Novel Index For The Rating Of Kinematic Chains Using Residual Chain Index Value	I-Manager's Journal On Future Engineering And Technology	Vol. 12(1), Aug-Oct 2016	2249-0744
7.	V.V.Kamesh, K. Mallikarjuna Rao, A.B.Srinivasa Rao	A Novel Approach To Detect Isomorphism In Geared Kinematic Chains	Advancements in Mechanical Engineering(TAME-16)	22nd& 23rd, July 2016, pp: 171-175	

8.	V.Srinivasa Rao, K.Mallikarjuna Rao, A.B.Srinivasa Rao	A Fuzzy Logic Approach Towards Finding Distinct Inversions Of A Kinematic Chain	Proceedings of the National Conference on Technological Advancements in Mechanical Engineering(TAME-16)	22nd&23rd , July 2016.	
9.	M.Sreenivasa Reddy, K.Mallikarjuna Rao, A.B.Srinivasa Rao	An Innovative Approach Towards Structural Comparison Of Kinematic Chains	Proceedings of the National Conference on Technological Advancements in Mechanical Engineering(TAME-16	22nd&23rd , July 2016	
10	Thota Naga Sushma, Dr. Doradla Raja Ramesh, P.S.NagaSree	Optimizing the process parameters for surface finish using grey based taguchi method	Recent advances in Mechanical Engineering (NCRAME-17)	2nd December, 2017	

S.No	Name of the faculty	Status of Ph.D		No. of Ph.D Guided
		Completed	In progress	
Academic Year 2016-17 :				
	Dr. A. B. Srinivasa Rao	2	-	2
Academic Year 2017-18 :				
	Dr. A. B. Srinivasa Rao	1	-	1
Academic Year 2018-19 :				
	Dr. A. B. Srinivasa Rao	-	2	

Ph. D Completed faculty details (last 3 years): Nil

Faculty Name	Guide Name	University / Insititute of registration	Date of Completion	Topic	Area of Research

Ph.D Pursuing faculty details:

Faculty Name	Guide Name	University / Insititute of registration	Year of Registration	Topic	Area of Research
V. Vijaya Bhaskar	Dr. Kolla Srinivas	ANU	2014	Mechanical and thermal characterization of natural fiber polymer composites	Natural fiber polymer composites
P. Satya Narayana	Dr. T. Nancharaiah	JNTUK	2013	Optimization of process parameters in selective laser sintering	Additive Manufacturing

5.7.2 Sponsored Research (5)

Funded Research:

(Provide a list with Project Title, Funding Agency, Amount and Duration)

Funding amount (Cumulative during the assessment years)

Amount > 20 Lacs – 5 Marks

Amount>=16 Lacs and <20 lacs – 4 Marks

Amount>=12 Lacs and <16 lacs – 3 Marks

Amount>=8 Lacs and <12 lacs – 2 Marks

Amount>=4 Lacs and <8 lacs – 1 Marks

Amount < 4 lacs – 0 Mark

Academic Year: 2017-18

SNo	Name Of The Faculty	Project Title	Project Type Research/ Consultancy	Amount	Duration

Academic Year: 2016-17

SNo	Name Of The Faculty	Project Title	Project Type Research/ Consultancy	Amount	Duration

5.7.3 Development Activities (10)

Provide details

- Product Development:
- Research laboratories:
- Instructional materials:
- Working models/charts/monograms etc.:

Products Development:

Academic Year	Name of the faculty	Project Title	Development Activities	Amount	Durations
2018-19	Dr.A.B.Srinivasa Rao, P. Satyanarayana, K. Ravi	Design and Fabrication of GO-KART	Working Model	1,50,000	Six months
2018-19	K. Sukumar, K.Ravi	Design and Fabrication of Domestic Refrigerator test rig	Working Model	25,000	Six months
2018-19	A.Rajesh, P. Charitha Krishna	Design and Fabrication of Water cooler test rig	Working Model	30,000	Six months
2017-18	K. Ravi	Design and Fabrication of Remote Control Lawn Mower	Working Model	20,000	Six months

- **RESEARCHLABORATORIES:**

Fabrication of Pedal Powered Centrifugal Pump

Pedal powered centrifugal pump (PPCP) is eco friendly water pump The PPCP works on mechanical energy without electricity. The objective of this work was to fabricate and investigate the working of Pedal powered centrifugal pump (PPCP) which is used in small drinking water supply and garden irrigation. PPCP consists of a centrifugal pump operated by pedal power.

Manufacturing of Hump for Power Generation

This project includes how to utilize the energy which is wanted the vehicle passes over a speed breaker. Lot of energy is generated and produces power by using the speed breaker as power generating unit. The reciprocating motion of rack is converted into rotary motion which rotates the output shaft produces electricity. Power plants are mainly dragging out lots of pollutions. So we are implementing this mechanism with the help of speed breaker to produce electricity which is a non-pollutant.

Fabrication of Multipurpose Machine Tools

In the early stages of industrialization, a dedicated machines and machine tool are allotted to perform a specific job. As a part of optimizing the resources like number of operators required, lead time and an improvement was made by designing multi operated machine tools like Drilling, Grinding, Milling and Cutting so because these operations are the heart of any work shop/machine shop and they are especially indispensible. The problem with these kind of machines is the power has to given all the associated tools of multipurpose machine tools, even some of the tools are inactive for the current operation.

Fabrication of Remote Control Lawn Mower

The remote control lawn mower is a machine used to make the process of grass cutting easier. The lawn mowers movement is controlled using RF remote control where the transmitter circuit will be placed at the remote control while the receiver circuit will be placed at the lawn mower. This would be beneficial because man power is not required in moving the lawn on those hot summer days. The remote will allow the user to control the speed and direction of the lawn mower by moving the Joy-sticks.

5.7.4 Consultancy (from Industry) (5)

(Provide a list with Project Title, Funding agency, Amount and Duration)

Funding amount (Cumulative during the assessment years)

Amount > 10 Lacs – 5 Marks

Amount>=8 Lacs and <10 lacs– 4 Marks

Amount>=6 Lacs and <8 lacs– 3 Marks

Amount>=4 Lacs and <6 lacs– 2 Marks

Amount>=2 Lacs and <4 lacs– 1 Marks

Amount < 2 lacs – 0 Mark

5.8 Faculty Performance Appraisal and Development System (FPADS) (30)

Faculty members of Higher Engineering Institutions today have to perform a variety of tasks pertaining to diverse roles. In addition to instruction, Faculty members need to innovate and conduct research for their self-renewal, keep abreast with changes in technology, and develop expertise for effective implementation of curricula. They are also expected to provide services to the industry and community for understanding and contributing to the solutions of real life problems in industry. Another role relates to the shouldering of administrative responsibilities and co-operation with other faculty, Head-of-Departments and the Head of the Institution. An effective performance appraisal system for faculty is vital for optimizing the contribution of individual Faculty to institutional performance.

The assessment is based on:

- Awell-definedsystemforfacultyappraisalforalltheassessmentyears(10)
- Its implementation and effectiveness (20)

The performance appraisal system of the staff is evaluate and ensure informationon multiple activities appropriately captured and considered for better appraisal through the following steps

Step1: Yearly self appraisal

- Based on academic results
- Faculty achievements such as research contribution (paper publications and funded R&D projects and consultancy)
- Number of workshops and training programs conducted.

- Memberships in professional societies.
- Additional responsibilities contributing towards administration.

Step2: Student feedback on faculty.

Step3: HOD recommendations.

FACULTY SELF ASSESSMENT FOR THE ACADEMIC YEAR 2017-18

1. General Information:

(a) Name in full (in block letters) :

(b) Department :

2. Academic Qualifications:

Qualification	Year of passing	Institution
UG :		
PG :		
Ph.D :		

(a) Additional Qualifications / Fellowships/Memberships/certificate courses :

(b) Area of specialization, if any :

(c) Date of Joining :

(d) Present designation and date of Appointment to that designation :

3. Experience :

(a) Industrial experience if any :

(b) Teaching experience total :

Name of the college	From (Date/Month/Year)	To (Date/Month/Year)	Experience in years
SVIET			
Other Colleges			

4. Subjects Average Pass Percentage:

S. No	Subject Name	Year-Sem-Branch-Sec	No.of students appeared (A)	Passed (B)	Pass Percentage (B/A*100)	Average %	Self Assessment Marks
1							
2							
3							
4							
5						>= 90 - 20 >= 80&<90 -15 >=70&<80 -10 >=60&<70 - 5 <60 - 0	
6							
7							
8							

5. Average Academic Classes (Theory only) :

S. No	Subject Name	Year-Sem-Branch-Sec	No.of periods as per lesson plan (A)	No.of periods conducted (B)	Percentage of classes taken in allotted subjects (B/A*100)	Average %	Self Assessment Marks
1							
2							
3							

4							
5						>=100 - 20	
6						>=95&<100 - 10	
7						>=90&<95 - 5	
8						< 90 - 0	

6. Proctoring Students Average pass percentage:

S. No	No.of students allotted for proctoring	Year-Sem-Branch-Sec	No.of students eligible for end exams (A)	No.of students passed (B)	Pass percentage (B/A)*100	Average %	Self Assessment Marks
1							
2						>=70 - 10	
3						>=65&<70 - 8	
4						>=60&<65 - 6 >=55&<60 - 5 <55 - 0	

7. Proctoring Students Average Attendance percentage:

S. No	No.of students allotted for proctoring (A)	Year-Sem-Branch-Sec	Total Attendance (Add final attendance of all proctoring students (B)	Attendance Percentage (B/A)	Average %	Self Assessment Marks
1						
2					>=90 - 10	
3					>=85&<90 - 8	
4					>=80&<85 - 6 >=75&80 - 5 <75 - 0	

8. Proctoring Students Average Value additions:

S. No	No.of students allotted for proctoring	Year-Sem-Branch-Sec	No.of students participated in Paper presentations/Posters presentations/Technical exhibitions etc outside the campus (A)	No.of students won prizes (B)	percentage (B/A)*100	Average %	Self Assessment Marks
1							
2						>=95&<100 - 20 >=90&<95 - 15 >=85&<90 - 10 >=80 &<85 – 5 >=75 &<80 – 2 < 75 - 0	
3							
4							

9. Student feedback: (Theory subjects only)

S. No	Year-Sem-Branch-Sec	Subject Name	No.of students	Percentage	Average %	Self Assessment Marks
1						
2						
3						
4						
5					>=90 &<100 - 20 >=85&<90 - 15 >=80&<85 - 10 >=75&80 - 5 <75 - 0	
6						
7						
8						

10. Research Publications and Academic Contributions
[50M]

a) Incentives/Award/Reward (2M)
b) Member of external bodies (2M)
c) ISTE-Professional memberships (2M)
d) CSI/IETE/IE/IEEE or any other (2M)
e) FDP organized (2M)
f) Faculty Development programs attended/resource person(6 days every year) (2M)
g) Conferences/seminars/workshop organized (2M)
h) Conferences/seminars/workshop attended (4M)
i) Invited Lectures(Expert/conference/etc) (2M)
j) Responsibility in Committees (2M)
k) List of Projects guided; Cover/certificate Page (2M)
l) List of In-house R&D projects; documentation (2M)
m) List of Funded R&D projects; documentation (2M)
n) List of Consultancy activities; documentation (2M)
o) List of Instructional materials like course files, lab manuals; cover page (2M)
p) List of working models/Products developed/Incubation (2M)
q) Research Publications(paper/Poster/book/book chapters/citations/etc) (6M)
r) Ph.D enrolled (4M)
s) Ph.D awarded (2M)
t) Ph.D guided (4M)

11. Staff Appraisal – Points Earned:

Subjects Average Pass % (20M)	Average Academic Classes % (20M)	Proctoring Students Average pass %(10M)	Proctoring Students Average Value additions % (20M)	Proctoring Students Average Attendance % (10M)	Students feedback % (20M)	Research Publications and Academic Contributions (50M)		Total out of (150M)

12. Additional responsibilities in the Department / College:

S.No	Responsibility	Assigned by	Duration
1			
2			
3			
4			

Date: **Signature of Faculty**

Remarks of the HOD:

Signature

Remarks of the Principal:

Signature

The outcome of the review of the performance appraisal reports

The decision taken is based on the outcome of the review of the performance appraisal reports by the management. It is conveyed by

1) one-one interaction

2) Discussions of general issues in departmental meetings

Decisions

- The increments are given at the end of the academic year.
- Knowing the status and capabilities of the faculty.
- Identify the areas in which training is required.
- Check the loopholes, if any, in the system or policies.
- Taking the output of the performance appraisal, as basis to plan for the future to ensure right man to right job.
- Enforced the training program me.
- Repositioned the employees according to their performances in their roles assigned to them.
- Good performers are appreciated and encouraged further for better performance.
- Reward/Award to the outstanding performers.

5.9 Visiting / Adjunct / Emeritus Faculty etc. (10)

Adjunct faculty also includes Industry Experts. Provide details of participation and contribution in teaching and learning and / or research by visiting / adjunct / Emeritus faculty etc. for all the assessment years:

- Provision of inviting/having visiting/adjunct/emeritus faculty(1)
- Minimum50hoursperyearinteractionwithadjunctfacultyfromindustry/retiredprofessorsetc. (Minimum 50 hours interaction in a year will result in 3 marks for that year; 3 marks * 3 years = 9 marks)

Academic Year: 2018-2019

S.No	Visiting Faculty	Course	Class	Topics	Hours of program
1.	P. V. Saidattu, GM, SSD Polymers, Machilipatnam	Production Technology	II/III/IV	Polymers	20
2.	R.Venkatramaiah, GM,Federal Mogul motor parts India ltd, Chennai	Automobile Engineering	II/III/IV	Automobile Braking System	5
3.	V. K. V. Gupta, AGM, BEL, Machilipatnam	CAD/CAM	III	Part programming on CNC lathe	10
Total					35

Academic Year: 2017-2018

S. No	Visiting Faculty	Course	Class	Topics	Hours of program
1	P. V. Saidattu, GM, SSD Polymers, Machilipatnam	Production Technology	II/III	Powder Metallurgy	20
2	R.Venkatramaiah, GM,Federal Mogul motor parts India ltd, Chennai	Automobile Engineering	II/III	Automobile Braking System	5
3	V. K. V. Gupta, AGM, BEL, Machilipatnam	CAD/CAM	III	Part programming on CNC lathe	25
Total					50

Academic Year: 2016-2017

S. No	Visiting Faculty	Course	class	Topic	Hours of program
1.	P. V. Saidattu, GM, SSD Polymers, Machilipatnam	Production Technology	II	Polymers	25
2.	N. Siva Prasad, DORMA India LTD, Hyderabad	MMS	II	Composite Materials	25
Total					50

CRITERION 6	Facilities and Technical Support	80

6. FACILITIES AND TECHNICAL SUPPORT (80)

6.1 Adequate and well equipped laboratories, and technical manpower (30)

Sr. No.	Name of the Laboratory	No. of students per setup(Batch Size)	Name of the Important equipment	Weekly utilization status (all the courses for which the lab is utilized)	Technical Manpower support		
					Name of the technical staff	Designation	Qualification
1	Thermal Engineering Lab	3	1. 4 Stroke diesel engine cut section model 2. 2 Stroke petrol engine cut section model 3. Single cylinder 4 stroke petrol engine test rig with variable compression ratio head. 4. Multi cylinder 4 stroke petrol engine test rig 5. Single cylinder 4 stroke diesel engine test rig with retardation equipment 6. Single cylinder 4 stroke diesel engine test rig with eddy current dynamometer 7. 2 stage air compressor 8. Models of Bobcock Wilcox and boiler	25%	Sayed.Ibrrahhim	Technician	DME

2	Fluid mechanics & hydraulic machines lab	3	1. Apparatus for verification of Bernoulli's theorem 2. Calibration of venture and orifice meter 3. Determination of loss of head due to sudden contraction and friction factor in a given pipe 4. Equipment for determination of flow through notches 5. Francis turbine 6. Impact of jet on vanes 7. Performance test on reciprocating pump 8. Performance test on multistage centrifugal pump 9. Performance test on single stage centrifugal pump 10. Performance test on pelton wheel with oil seal pump 11. Turbine flow meter	25%	Sayed.Ibrrahhim	Technician	DME
3	Production Technology Lab	3	1. Wood working lathe machine 2. Spot welding equipment 3. Manual metal arc welding equipment 4. Gas welding equipment 5. Spot welding equipment 6. Electrical furnace 7. Injection molding 8. Blow molding 9. Universal sand tester 10. Permeability apparatus 11. Sand molding equipment 12. Fly Press	16.66	V. Narayana Murthy	Technician	DME

4	Engineering Workshop	1	1. Carpentry vices 2. Bench vices 3. Impellers (black smithy furnace fans) 4. Bench grinder 5. Shearing machine 6. Swage block 7. Anvil 8. Portable drilling machine 9. Chisels 10. Hammers 11. Test panel boards 12. Furnaces for Black smithy	41.66%	p. pavan kumar	Technician	DME
5	Machine Tools Lab	3	1. Lathe machines 2. All geared lathe 3. Shaping machine 4. Slotting machine 5. Surface grinding machine 6. Universal gear head milling machine 7. Portable Cut off saw	16.66%	J.sivaji sharma	Technician	DME
6	Mechanics of Solids & Metallurgy Lab	3	1. Analog torsion testing machine 2. Electronic universal testing machine with attachments 3. Hand operated spring testing machine 4. Impact testing machine 5. Rockwell cum Brinell hardness tester 6. Binocular microscope with co-axial & lieca optics 7. Dry and wet Linisher 8. Muffle Furnace 9. Specimen mounting press 10. Jominy End Quench apparatus 11. Double disc polishing machine	33.33%	CH. Sudha Rani	Technician	DME

7	Heat Transfer Lab	3	1. Boiling point / Critical heat flux apparatus 2. Condensation (Drop wise & Film wise) apparatus 3. Demonstration of Heat pipe apparatus 4. Forced convection apparatus 5. Pin – fin apparatus 6. Heat exchanges (Parallel & Counter flow) 7. Natural convection apparatus 8. Emissivity measurement apparatus 9. Stefan- Boltzmann's apparatus 10. Metal rod apparatus 11. Composite wall apparatus 12. Lagged pipe apparatus	16.66%	M.venkateswararao	Technician	DME

6.2 Additional facilities created for improving the quality of learning experience in laboratories (25)

Sr. No.	Facility Name	Details	Reason(s) for creating facility	Utilization	Areas in which students' are expected to have enhanced learning	Relevance to POs/PSOs
1	Pensky Martin Flashpoint Apparatus	Flash point above 70°C and below 300°C	To study and calculate flash and fire point of a fuel.	Open to utilize in working hours.	Fuels, I.C Engines	PO1,PO2, PO3, PSO1
2	Carbon Residue Test Apparatus	Heating Power: 1500W Voltage: 220V Driven Type: Electric	To measure the amount of carbonaceous residue remaining after evaporation of oil.	Open to utilize in working hours.	Fuels, I.C Engines	PO1,PO2, PO3, PSO1
3	Say Bolt's Viscometer	Heating Power of Bath 1000W Frequency: 50Hz	To study and calculate viscosity of the fuel.	Open to utilize in working hours.	Fuels, I.C Engines	PO1,PO2, PO3, PSO1

4	Vapor Compression Refrigeration Test Rig	Capacity: 500 Watt at rated test conditions, Compressor: Hermetically sealed. Condenser: Forced convection Air cooled condenser. Refrigerant – R-134a	To study vapor compression cycle and to calculate COP.	Open to utilize in working hours.	Refrigeration & Air conditioning	PO1, PO2, PO3, PO4, PSO1
5	Water Cooler Test Rig	Capacity: 40 liters, Compressor: Hermetically sealed Equivalent. Condenser: Forced convection Air cooled condenser. Refrigerant – R-134a	To study Refrigeration effect and calculate COP.	Open to utilize in working hours.	Refrigeration & Air conditioning	PO1,PO2, PO3, PO4, PSO1
6	Bernoulli's apparatus	Head 6 – 28mts Discharge – 3200 to 750 Lph Power 370w/0.5hp	To study Bernoulli's applications	Open to utilize in working hours	Fluid Mechanics	PO1,PO2, PO3, PO4, PSO1
7	Notch apparatus	Size 25x25mm Head 6 – 28mts Discharge – 3200 to 750 Lph Power 370w/0.5hp	Flow throw channel	Open to utilize in working hours	Fluid Mechanics	PO1,PO2, PO3, PO4, PSO1
8	Digital Tachometer	190x72x37mm 5 – 99999 rpm	To measure the rotation of the shaft up to 99999 rpm	Open to utilize in working hours	I.C engines	PO1,PO2, PO3, PO4, PSO1

9	Digital Vernier caliper	6 inch 0 – 150mm and 0.01mm	It can be used to measure internal and external distances extremely accurately	Open to utilize in working hours	Engineering Workshop	PO1,PO2, PO3, PO4, PSO1
10	Three wire set with micrometer holder for thread measurement	30 size – 0.20 mm – 10.00 mm	To measure fast and accurate thread measurement on a variety of measuring instruments	Open to utilize in working hours	Metrology and instrumentation Lab	PO1,PO2, PO3, PO4, PSO1
11	Lab Manuals along with instruction classes for all the labs	All the laboratories are having Lab Manuals.	1.To create an awareness about the experiment . 2. Students can understand concept of the experiment better.	Throughout the semester	Better usage of Mechanical tools and euqipments	PO1

6.3 Laboratories: Maintenance and overall ambiance (10)

Maintenance

1. Regular checkup of equipment is carried out at the end of every day by the lab technical staff.
2. Preventive maintenance is carried out to reduce the possibility of breakdown.
3. Breakdown register is maintained in the laboratories.
4. As per the requirement minor repairs are carried out by the lab technical staff.
5. Major repairs are outsourced.

Ambiance

1. Department has Full furnished State of Art laboratories with well-equipped equipment which shall cater to UG course as per curriculum requirements.
2. Conditions of chairs/benches are in good condition.
3. Department has experienced faculty to educate them in all the fields of engineering.
4. Laboratories are conducted every week. As per the university curriculum.

5. Laboratory manual are distributed to students.
6. Lighting system is very effective in every room.
7. Each Lab is equipped with white/black board.
8. Exclusively, a project lab has been provided for the students to carry out their mini and major project work.

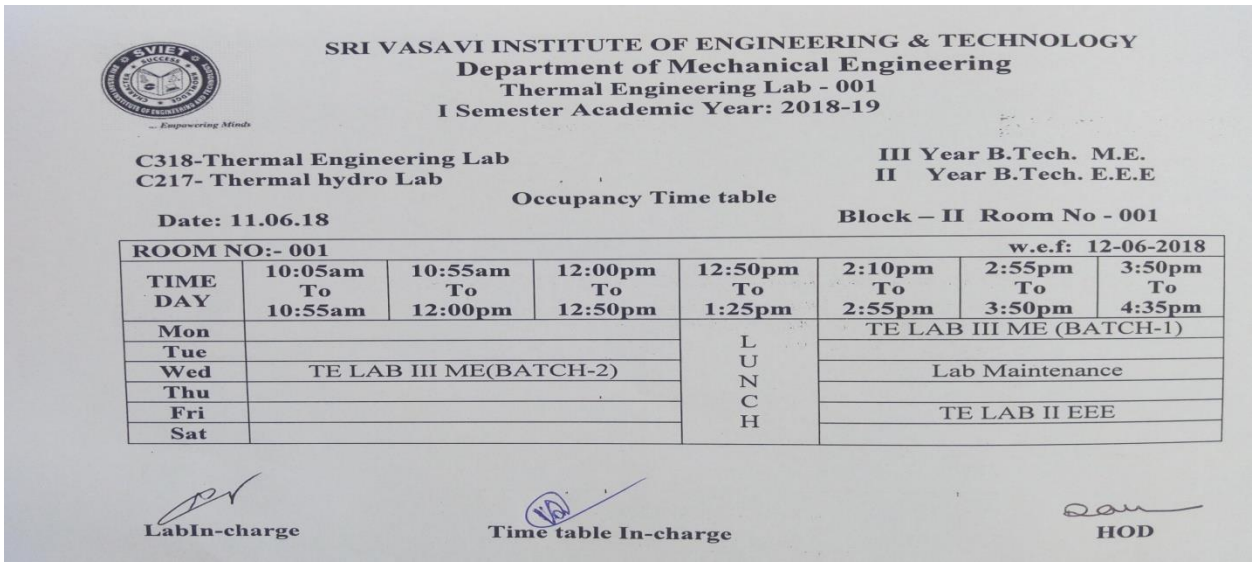
<table>
<tr><td> 
</td><td> 
</td></tr>
<tr><td>Engineering Work Shop</td><td>Production Technology Lab</td></tr>
<tr><td> 
</td><td> 
</td></tr>
<tr><td>Metallurgy Lab</td><td>Machine Tools Lab</td></tr>
</table>

	
Thermal Engineering Lab	Simulation Lab

Lab Details:

S.No	Name of the lab	Area in Sq.m
1	Thermal engineering	80.79
2	Production technology	81.37
3	Machine tools	171.5
4	Mechanics of Solids & Metallurgy Lab	171.5
5	Engineering Workshop	142.65
6	Fluid mechanics & hydraulic machines lab	83.12
7	Heat Transfer	116.3

Thermal Engineering laboratory occupancy time table:



SRI VASAVI INSTITUTE OF ENGINEERING & TECHNOLOGY
Department of Mechanical Engineering
Thermal Engineering Lab - 001
I Semester Academic Year: 2018-19

C318-Thermal Engineering Lab
C217- Thermal hydro Lab

III Year B.Tech. M.E.
II Year B.Tech. E.E.E

Occupancy Time table

Date: 11.06.18

Block – II Room No - 001

ROOM NO:- 001 w.e.f: 12-06-2018

TIME / DAY	10:05am To 10:55am	10:55am To 12:00pm	12:00pm To 12:50pm	12:50pm To 1:25pm	2:10pm To 2:55pm	2:55pm To 3:50pm	3:50pm To 4:35pm
Mon				LUNCH	TE LAB III ME (BATCH-1)		
Tue							
Wed	TE LAB III ME(BATCH-2)				Lab Maintenance		
Thu							
Fri					TE LAB II EEE		
Sat							

LabIn-charge Time table In-charge HOD

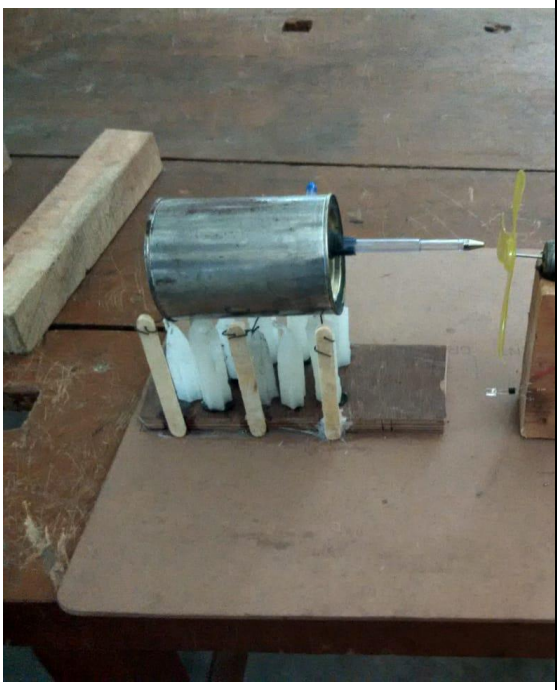
6.4 Project laboratory (5)

1. The department is equipped with project laboratory with an area of 80.54 Sq.m.
2. Student project models are displayed in the project laboratory.

Sr. No	Facility Name	Details	Reason(s) for creating facility	Utilization	Areas in which students are expected to have enhanced learning	Relevance to POs/PSOs
1.	Lathe machine	Range of spindle speed =45 to 1000 rpm	Machining operations	60%	MCMT	PO3, PO 9, PO12
2.	Welding Machine	Arc Welder,220V	Fabrication work	85%	PT	PO3, PO9
3.	Cutter	335mm dia cut off saw,220-240V	Cutting operation	50%	MCMT	PO3
4.	Drilling Machine	0.5hp,220V,0.37 KW	Drill holes	60%	Workshop	PO3,PO9,PO12

Student project models:

S.No	Name of the model	Model description	Model purpose
1	360 degrees drilling machine	D.C motor, 4000 rpm, 12 volts, 2 mm dia drill bit.	To make drill hole horizontally, vertically and any direction.
2	Bullock cart	200x300 cm flat form with axle wheels, 500kg weight capacity	To carry loads up to 500kg.
3	Steam power generator	3v motor, 3v lead bulb and fan	Used to generate heat energy in to mechanical energy.
4	Humanoid Robotic arm Control	16x2 LCD module, 2.2V – 3.6V, 1024 Bytes, EEPROP	Used in office work, military tasks, hospitals and agriculture
5	Hump for Power Genaration	6v motor, 3v lead bulb and impeller vanes	Used to generate mechanical energy in to electrical energy.
6	Solar screen	60X40 cm flat plate collector and 12V capacity	Used to generate solar energy in to electrical energy.

	
360 degrees drilling machine	Bullock cart
	
Steam power generator	Humanoid Robotic arm Control

	
Hump for Power Genaration	Solar screen

List of Major Project done in this lab:

S. No	Roll.No	Name Of The Guide	Title of the Project
1	14MQ1A0341	Dr.A.B.Srinivasa Rao	Design and fabrication of Scissor lift
	14MQ1A0307		
	14MQ1A0330		
	14MQ1A0303		
2	14MQ1A0316	Dr.D.Raja Ramesh	Humanoid Robotic arm Control Using Servo Motors
	14MQ1A0315		
	15MQ5A0309		
	15MQ5A0307		
3	15MQ5A0314	P.Ajaya Kumar	Model and Fabricaton of Multi diameter drill bit
	14MQ1A0310		
	14MQ1A0344		
	14MQ1A0326		
4	14MQ1A0306	P. Charitha Krishna	Design and fabrication of Material Handling Device by Using box Transport Mechanism
	14MQ1A0348		
	14MQ1A0308		
	14MQ1A0314		
	14MQ1A0336		
5	15MQ5A0308	P.Satyanarayana	Design and fabrication of Multipurpose Machine Tools
	15MQ5A0317		

	14MQ1A0337		
	14MQ1A0325		
	14MQ1A0327		
6	15MQ5A0304	K. Ravi	Fabriction of Remote Control Lawn Mower
	14MQ1A0324		
	14MQ1A0319		
	14MQ1A0329		
	14MQ1A0343		
7	15MQ5A0310	A. Rajesh	Performance test on 4-Stroke 1-Cylinder Computerised Diesel Engine By Using Rubber Seed Oil
	14MQ1A0302		
	15MQ5A0301		
	14MQ1A0301		
	14MQ1A0345		
8	15MQ5A0302	K. Sukumar	Performance test on 4-Stroke 1-Cylinder Computerised Diesel Engine By Using Jatropha Oil
	14MQ1A0332		
	14MQ1A0318		
	14MQ1A0323		
	14MQ1A0331		
9	15MQ5A0319	V. Sai Mounica	Manufacturing of Hump for Power Genaration
	15MQ5A0306		
	15MQ5A0305		
	14MQ1A0340		
	14MQ1A0339		
10	14MQ1A0333	P. SATYANARAYANA	Fabriction of Pedal Powered Centrifugal Pump
	15MQ5A0315		
	14MQ1A0346		
	14MQ1A0309		

List of mini Project done in this lab:

Batch	Guide Name	Roll.No	Title of the Project
1	Dr.A.B.Srinivasa Rao	15MQ1A0338	Design or Fabrication of Go- Kart
		16MQ5A0311	
		15MQ1A0319	
		15MQ1A0329	
2	Dr.D.RajaRamesh	16MQ5A0305	Design or Fabrication of Bullock cart with roatating and lifting mechanism
		15MQ1A0332	
		15MQ1A0320	
		15MQ1A0324	
3	P.Ajaya Kumar	15MQ1A0337	Design or Fabrication of Flywheel bicycle
		15MQ1A0333	
		15MQ1A0307	

		16MQ5A0309	
4	V.Vijaya Bhaskar	15MQ1A0352	Design or Fabrication of Elliptical tramneel and Geneva Mechanism
		15MQ1A0350	
		15MQ1A0335	
		15MQ1A0321	
5	V.Sai Mounica	15MQ1A0308	Design or Fabrication of stream power electricity generator
		16MQ5A0312	
		15MQ1A0330	
		15MQ1A0305	
		15MQ1A0317	

6.5 Safety measures in laboratories (10)

S.	Name of the Laboratory	Safety measures
1	Thermal Engineering Lab	1. General Rules of Conduct & Safety Rules are displayed. 2. First aid kit is provided 3. Avoiding the use of damaged equipment and providing needful equipment and components. 4. Safety guard is provided for reciprocating air compressor. 5. Floor markings are provided for pedestrian safety.
2	Fluid mechanics & hydraulic machines lab	1. General Rules of Conduct & Safety Rules are displayed. 2. First aid kit is provided 3. Avoiding the use of damaged equipment and providing needful equipment and components. 4. Safety guard is provided for reciprocating air compressor. 5. Floor markings are provided for pedestrian safety
3	Production Technology Lab	1. General Rules of Conduct & Safety Rules are displayed. 2. First aid kit is provided. 3. Avoiding the use of damaged equipment and providing needful equipment and components. 4. Hand gloves, Goggles & Shield are provided for welding. 5. Floor markings are provided for pedestrian safety.
4	Engineering Work Shop	1. General Rules of Conduct & Safety Rules are displayed. 2. First aid kit is provided. 3. Avoiding the use of damaged equipment and providing needful equipment and components. 4. Hand gloves are provided for Black Smithy.

5	Machine Tools Lab	1. General Rules of Conduct & Safety Rules are displayed. 2. First aid kit is provided. 3. Protecting guard is provided for belt drive in Planner machine. 4. Chip collecting tray is provided for lathe. 5. Protecting shield is provided for grinding machine. 6. Floor markings are provided for pedestrian safety.
6	Mechanics of Solids & Metallurgy Lab	1. General Rules of Conduct & Safety Rules in Laboratories are displayed. 2. Avoiding the use of damaged equipment and providing needful equipment and components. 3. Hand gloves are provided for operating furnace.
7	Heat Transfer Lab	1. General Rules of Conduct & Safety Rules are displayed. 2. Avoiding the use of damaged equipment and providing needful equipment and components.

CRITERION 7	Continuous Improvement	50

7.1. Actions taken based on the results of evaluation of each of the POs & PSOs (20)

Identify the areas of weaknesses in the program based on the analysis of evaluation of POs & PSOs Attainment levels. Measures identified and implemented to improve POs & PSOs attainment levels for the assessment years.
Actions to be written as per table in 3.3.2.

POs & PSOs Attainment Levels and Actions for improvement – CAY

<table>
<tr><td>POs</td><td>Target Level</td><td>Attainment Level</td><td>Observations</td></tr>
<tr><td colspan="4">PO1: Statement as mentioned in Annexure I</td></tr>
<tr><td>PO1</td><td>((0.9*curriculum mapping)/3)*100
71.7%</td><td>(overall attainment/3)*100
76.67%</td><td>Low attainment is observed in C215, C216, C224, C225, C318, C323

Observations:
1.Attainment level is 76.67%, we need to improve
2.Solving dynamic problems found to be difficult
3.Solving problems found to be difficult</td></tr>
<tr><td colspan="4">Action 1:1. Additional classes to be conducted for courses
2. Practical approach of teaching program is to be adopted
3.More problems will be given for practice</td></tr>
<tr><td colspan="4">PO2:Statement as mentioned in Annexure I</td></tr>
<tr><td>PO2</td><td>64.2%</td><td>71.33%</td><td>Low attainment is observed in C214, C216, C217, C319, C412, C422

Observations:
1.Attainment level is 71.33%, we need to improve
2.Solving dynamic problems found to be difficult
3.Solving problems found to be difficult</td></tr>
<tr><td colspan="4">Action 1:1. Additional classes to be conducted for courses
2. Practical approach of teaching program is to be adopted
3.More problems will be given for practice</td></tr>
<tr><td colspan="4">PO3: Statement as mentioned in Annexure I</td></tr>
</table>

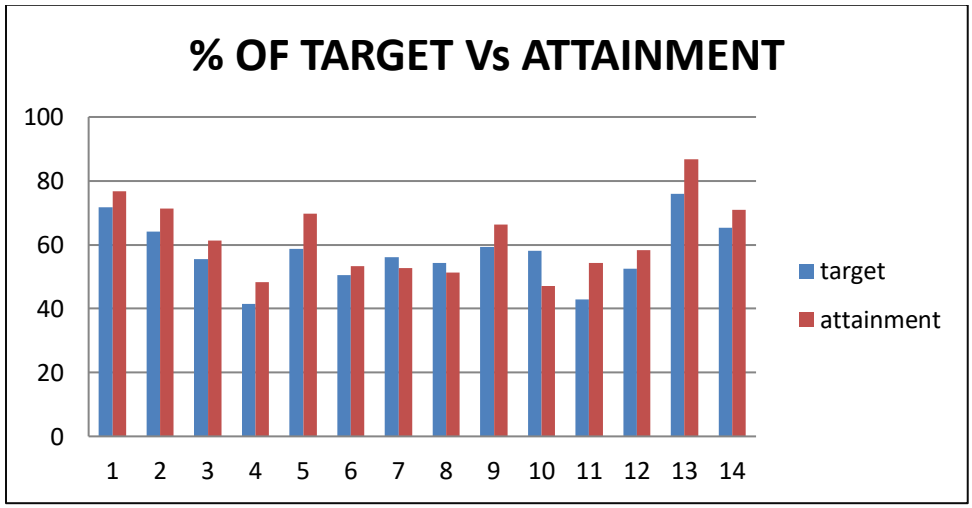
PO3	55.50%	61.33%	Low attainment is observed in C216, C222, C324, C328, C412, C414 Observations: 1.Attainment level is 61.33%, we need to improve 2.Solving dynamic problems found to be difficult 3.Solving problems found to be difficult
Action 1:1. Additional classes to be conducted for courses 2. Practical approach of teaching program is to be adopted 3.More problems will be given for practice			
PO4: Statement as mentioned in Annexure I			
PO4	41.40%	48.33%	Low attainment is observed in C212, C412, C414 Observations: 1.Attainment level is 48.33%, we need to improve 2.Solving dynamic problems found to be difficult 3.Solving problems found to be difficult
Action 1:1. Additional classes to be conducted for courses 2. Practical approach of teaching program is to be adopted 3.More problems will be given for practice			
PO5: Statement as mentioned in Annexure I			
PO5	58.80%	69.67%	Low attainment is observed in C414, C416 Observations: 1.Attainment level is 69.67%, we need to improve 2.Solving dynamic problems found to be difficult 3.Solving problems found to be difficult
Action 1:1. Additional classes to be conducted for courses 2. Practical approach of teaching program is to be adopted 3.More problems will be given for practice			
PO6 :Statement as mentioned in Annexure I			
PO6	50.40%	53.33%	Low attainment is observed in C311, C316 Observations: 1.Attainment level is 53.33%, we need to improve 2.Solving dynamic problems found to be difficult 3.Solving problems found to be difficult
Action 1:1. Additional classes to be conducted for courses 2. Practical approach of teaching program is to be adopted 3.More problems will be given for practice			
PO7:Statement as mentioned in Annexure I			

PO7	56.10%	52.67%	Low attainment is observed in C411, C222, C425 Observations: 1.Attainment level is 52.67%, we need to improve 2.Solving dynamic problems found to be difficult 3.Solving problems found to be difficult
Action 1:1. Additional classes to be conducted for courses 2. Practical approach of teaching program is to be adopted 3.More problems will be given for practice			
PO8:Statement as mentioned in Annexure I			
PO8	54.30%	51.33%	Low attainment is observed in C418, C425 Observations: 1.Attainment level is 51.33%, we need to improve 2.Solving dynamic problems found to be difficult 3.Solving problems found to be difficult
Action 1:1. Additional classes to be conducted for courses 2. Practical approach of teaching program is to be adopted 3.More problems will be given for practice			
PO9 :Statement as mentioned in Annexure I			
PO9	59.4%	66.33%	Low attainment is observed in C228, C328 Observations: 1.Attainment level is 66.33%, we need to improve 2.Solving dynamic problems found to be difficult 3.Solving problems found to be difficult
Action 1:1. Additional classes to be conducted for courses 2. Practical approach of teaching program is to be adopted 3.More problems will be given for practice			
PO10 :Statement as mentioned in Annexure I			
PO10	58.2%	47%	Low attainment is observed in C425 Observations: 1.Attainment level is 47%, we need to improve 2.Solving dynamic problems found to be difficult 3.Solving problems found to be difficult
Action 1:1. Additional classes to be conducted for courses 2. Practical approach of teaching program is to be adopted 3.More problems will be given for practice			

PO11 :Statement as mentioned in Annexure I			
PO11	42.9%	54.33%	Low attainment is observed in C413, C326, C226 Observations: 1.Attainment level is 54.33%, we need to improve 2.Solving dynamic problems found to be difficult 3.Solving problems found to be difficult
Action 1:1. Additional classes to be conducted for courses 2. Practical approach of teaching program is to be adopted 3.More problems will be given for practice			
PO12 :Statement as mentioned in Annexure I			
PO12	52.5%	58.33%	Low attainment is observed in C215, C313, C314, C321, C425 Observations: 1.Attainment level is 58.33%, we need to improve 2.Solving dynamic problems found to be difficult 3.Solving problems found to be difficult
Action 1:1. Additional classes to be conducted for courses 2. Practical approach of teaching program is to be adopted 3.More problems will be given for practice			
PSO1 :Statement as mentioned in Annexure I			
PSO1	75.9%	86.67%	Low attainment is observed in C313, C418, C425 Observations: 1.Attainment level is 86.67%, we need to improve 2.Solving dynamic problems found to be difficult 3.Solving problems found to be difficult
Action 1:1. Additional classes to be conducted for courses 2. Practical approach of teaching program is to be adopted 3.More problems will be given for practice			
PSO2 :Statement as mentioned in Annexure I			
PSO2	65.4%	71%	Low attainment is observed in C423, C325, C321, C221, C217 Observations: 1.Attainment level is 71%, we need to improve 2.Solving dynamic problems found to be difficult 3.Solving problems found to be difficult

Action 1:1. Additional classes to be conducted for courses 2. Practical approach of teaching program is to be adopted 3.More problems will be given for practice

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
TARGET,%	71.7	64.2	55.5	41.4	58.8	50.4	56.1	54.3	59.4	58.2	42.9	52.5	75.9	65.4
ATTAINED,%	76.67	71.33	61.33	48.33	69.67	53.33	52.67	51.33	66.33	47.00	54.33	58.33	86.67	71.00



7.2. Academic Audit and actions taken thereof during the period of Assessment (10)
(Academic Audit system/process and its implementation in relation to Continuous Improvement)

The process of Academic Auditing intends to monitor and enhance the quality of technical education through proper guidelines for both teaching faculty and students, so as to ensure qualified engineers/researchers passing out from Sri Vasavi Institute of Engineering & Technology.

Committee composition

- One Senior Faculty as co-coordinator
- Second person from each department as members

Committee Members

S.No	Name	Designation & Department	Position
1	SVC.Gupta	Professor, CSE	Coordinator
2	Ch.Giri Phani Kumar	Assistant Professor, CE	Member
3	P.Srikanth	Assistant Professor, EEE	Member
4	V.Vijaya Bhaskar	Associate Professor, ME	Member
5	GSVNV.Babu	Professor, ECE	Member
6	Sri M.Srinivasa Rao	Associate Professor, CSE	Member
7	Dr P.Seshu Babu	Associate Professor, S&H	Member

OBJECTIVES OF ACADEMIC AUDITING:

(i) To ensure academic accountability.

(ii) To define quality of each component of the functionalities and to ensure quality of technical education throughout the system.

(iii) To safeguard functionalities of technical education.

(iv) To define effectiveness of teaching – learning process and to devise methodology to confirm maximum output from faculty members as well as students.

S.No	Audit Parameter	Frequency	Documents to be verified	Expected Outcome
1	Course File	Three times per Semester	Phase-I, Phase-II, Phase-III	Phase-I - Gaps to be identified Phase II – Remedial and Make up classes for Weak Students Phase III – Analysation of Question paper Qualities
2	Syllabus Monitoring	Monthly Once	As per Instruction Plan in Course File	Up to date
3	Faculty Development Programmes	Yearly Once	Participation Certificates	Every Faculty should Participate
4	Faculty Development Programmes conducted	Yearly Once	As per the year planner	To be Conducted
5	Guest lectures & work shops	Yearly once	As per the year planner	To be Conducted

DOCUMENTS TO BE PRODUCED FOR AUDITING

In the institution all programs maintain the details of various academic activities in the form of documents given below. These documents shall be made available to the auditor as and when required.

1. Class Time Table & Faculty Time Table
2. Students Roll List
3. Students Batch List (for practical courses, projects)
4. Course File for all the theory courses including lab courses
5. Log register used in Laboratory
6. Consolidated Attendance statement of students
7. Consolidated statement of marks of internal tests
8. Project (Mini project/Design project/Final semester project) progress review reports
9. Register of internal evaluation marks
10. Result Analysis

A course file is to be maintained by each staff of the department for each course handled by him/her.

A sample of course file check list is given below:

Course File First Check List

Program Name: Academic Year:

Faculty Name: Course Name:

S.No.	Item	Description	Remarks
1	Course syllabus	Preferably the University provided document (without college name/header)	
2	Course Outcomes (CO)	6 outcomes covering entire syllabus, easily explainable by the faculty (with unique numbering for each CO)(with TL - Taxonomy Level)	
3	Lesson plan	Topic wise, with references, teaching aid/methodology matching with Time Table; Also, reflect tutorials, topic beyond syllabus in planning	
4	Topics beyond syllabus (TBS)	List of topics taught other than university specified syllabus (Topic, mapped CO, justification/Curriculum Analysis)	
5	Web references	List of web links for the course (preferably .ac.xx, .edu, .org, .gov, ocw.)	
		Topic wise web links for entire syllabus	
6	Self-learning resources	ICT based material, Online certifications, MOOCs etc.	
7	Lecture notes	Module wise, hand written and easily traceable – topic wise (aligned to Lesson plan)	
8	Power point presentations / Videos	Presentations list (topic and file name)	
		CD should be present in the box file itself.	
9	Result Analysis to identify Weak and advanced learners	List of Weak and advanced learners based on	
		1). BEFORE THE SEMESTER START: A).Students performance up to previous semester; B). Their Performance of pre-requisite course	
		2). AFTER 3 weeks of instruction observation	
		3). Based on Internal Examination marks.	

Signature of Faculty IQAC Member HOD

Course File Second Check List

Program Name: Academic Year:

Faculty Name: Course Name:

S.No.	Item	Description	Remarks
1	University Question papers	3 years papers taken from exam branch (marked with CO, TL for each question)	
2	Internal Question papers with with Key	3 years papers taken from exam branch (marked with CO, TL for each question); Answers written by faculty	
3	Assignment Question papers	Assignment question papers taken from exam branch (marked with CO, TL for each question);	
4	Tutorial evidence	List of tutorial topics as per time table	
		Notes / material for tutorials	
5	Result Analysis to identify Weak and advanced learners	List of Weak and advanced learners based on	
		1). BEFORE THE SEMESTER START: A).Students performance up to previous semester; B). Their Performance of pre-requisite course	
		2). AFTER 3 weeks of instruction observation	
		3). Based on Internal Examination marks.	

Signature of Faculty IQAC Member HOD

Course File Third Check List

Program Name: Academic Year:

Faculty Name: Course Name:

S.No.	Item	Description	Remarks
1	Result Analysis to identify Weak and advanced learners	List of Weak and advanced learners based on	
		1). BEFORE THE SEMESTER START: A).Students performance up to previous semester; B). Their Performance of pre-requisite course	
		2). AFTER 3 weeks of instruction observation	
		3). Based on Internal Examination marks.	
2	Result Analysis at the end of the course	University examination result of the previous year and the present year	
3	Course Assessment	1). Internal exams marks list with attainment level calculation	
		2). University exam marks with attainment level calculation	
		3). Feedback on faculty from students – Analysis page	
		4). Course outcome feedback, Analysis	
		5). PO attainment page	
		6). Improvements identified based on the assessment	
4	Guest talks, field visits, Trainings, Certifications etc.	Details, if any	
5	Attendance register	Attendance for all students (as per Time Table)	
		Periodic monitoring of HoD / Principal	
		Teacher log update (As per Lesson Plan, having evidence for TBS)	
		Internal marks, Assignment marks updated	
6	Course file (Digital form)	Page mentioning the availability of the entire course file availability to students (web site link or common location detail)	
		All Self-Learning materials list with the location details	
7	IQAC Verification	Evidence that Cource file verified and certified with IQAC observations	

Signature of Faculty IQAC Member HOD

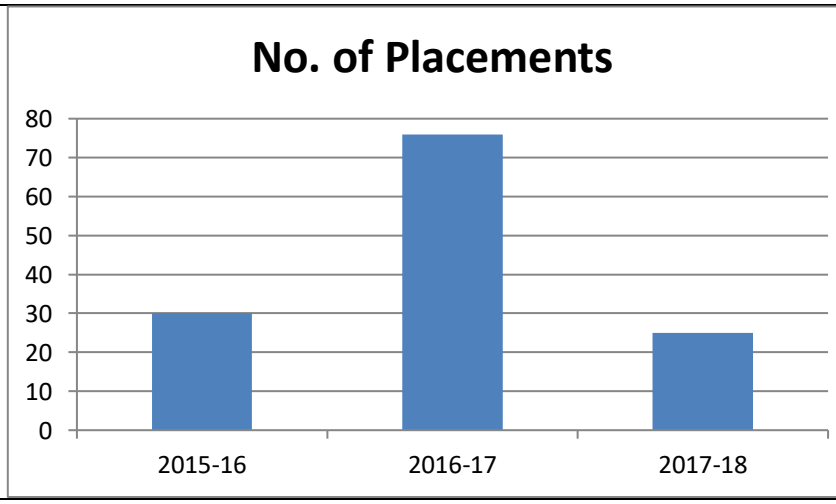
7.3 Improvement in Placement, Higher Studies and Entrepreneurship (10)

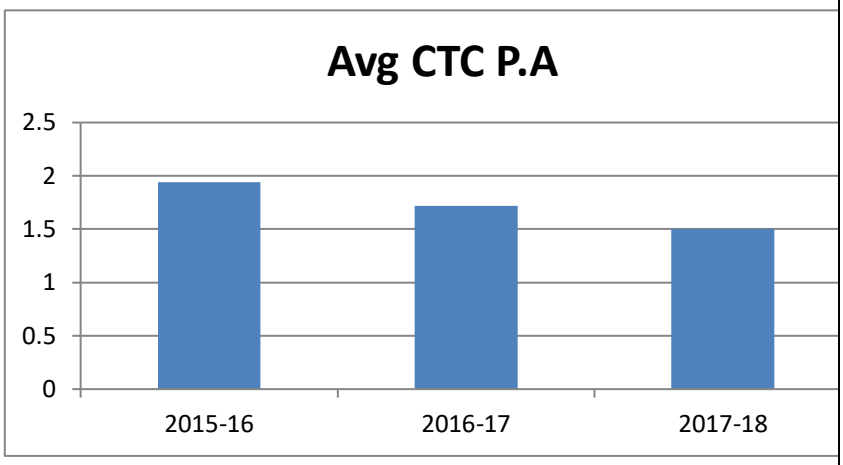
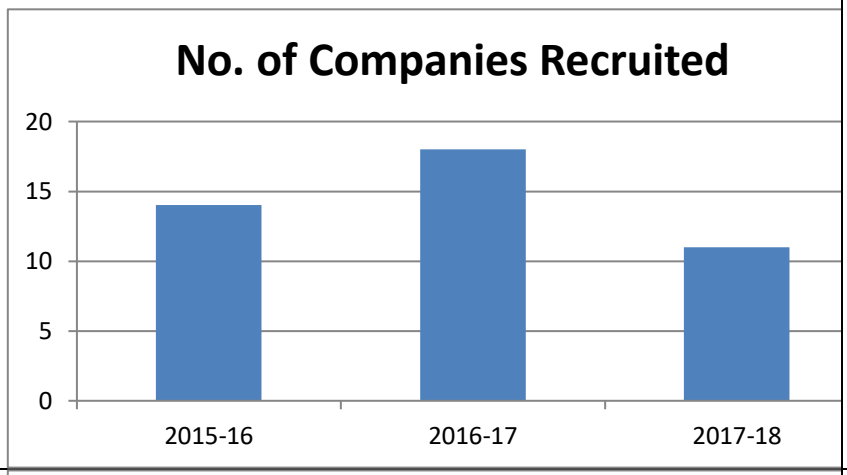
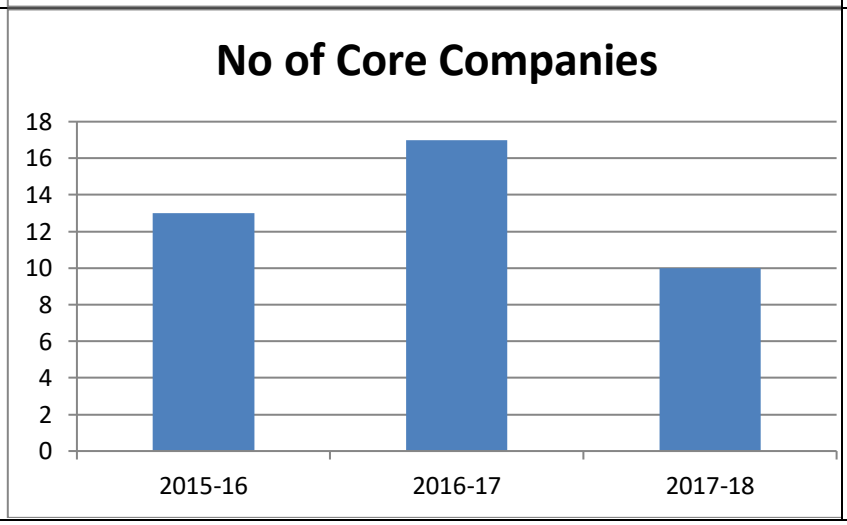
Assessment is based on improvement in:

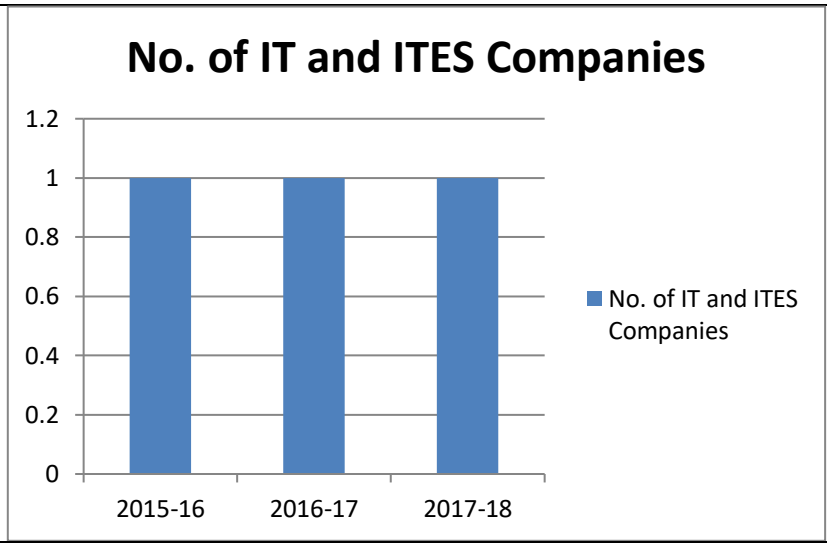
- Placement: number, quality placement, core industry, pay packages etc.
- Higher studies: performance in GATE, GRE, GMAT, CAT etc., and admissions in premier institutions
- Entrepreneurs

7.3.1 Placement data analysis for three assessment years

A. Y	No. of Companies Recruited	Avg CTC P.A	No. of Placements	No of Core Companies	No. of IT and ITES Companies
2015-16	14	1.94	30	13	1
2016-17	18	1.72	76	17	1
2017-18	11	1.50	25	10	1

SNO.	Representation	Trend Description
1.		No. of placements increased in A.Y 2016-17

2.		Slight reduction in Avg CTC in BatchWise
3		No. of Companies Recruited increased in A.Y 2016-17
4		No. of core Companies increased in A.Y 2016-17

5		Same no. of IT & ITES Companies for Last 3 years

7.3.2 Higher studies details:

S no.	Academic Year	No. of Students joined in Higher Education	No. of students admitted through GATE, PGECET etc…	No. of Students opted for Higher studies Abroad
1	2015-16	04	01	3
2	2016-17	04	04	0
3	2017-18	01	01	0

Table 7.3.2.1 Higher studies enrolment details

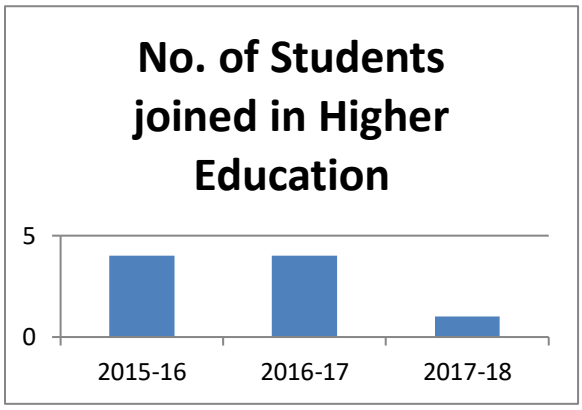


Figure 7.3.2.1 higher studies data analysis for 3 years

7.3.3 Entrepreneur details:

S no.	Academic Year	No. of Students registered and started
1	2016-17	01

Table 7.3.3.1 Entrepreneur details

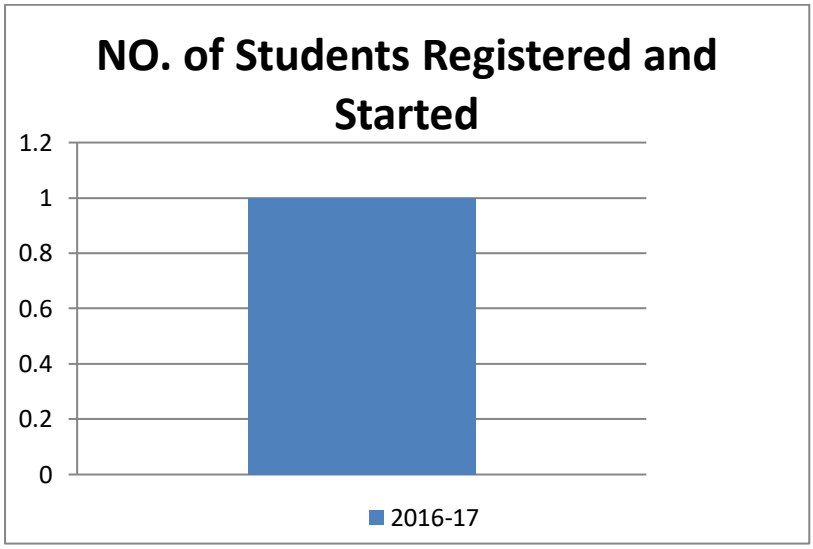


Figure 7.3.3.1 Entrepreneur data analysis for 3 years

7.4. Improvement in the quality of students admitted to the program (10)

Assessment is based on improvement in terms of ranks/score in qualifying state level/national level entrances tests, percentage marks in Physics, Chemistry and Mathematics in 12th Standard and percentage marks of the lateral entry students.

Item		**2018-19**	**2017-18**	**2016-17**	**2015-16**
National Level Entrance Examination (Name of the Entrance Examination)	No. of Students admitted	--	--	--	
	Opening Rank	--	--	--	
	Closing Rank	--	--	--	
EAMCET State Level Entrance Examination	No. of Students admitted	8	25	30	45
	Opening Rank	99411	66680	56747	6340
	Closing Rank	127461	136856	128400	126060
ECET Entrance Examination for Lateral Entry	No. of Students admitted	23	23	13	16
	Opening Rank	1373	772	592	684
	Closing Rank	9338	9248	7790	3792
Average CBSE/Any other Board Result of admitted students (Physics, Chemistry & Maths)		129.12	152.57	134.48	146.76

Table B.7.4

CRITERION 8	FIRST YEAR ACADEMICS	50

8. FIRST YEAR ACADEMICS (50) MECHANICAL

8.1. First Year Student-Faculty Ratio (FYSFR) (5)

Data for first year courses to calculate the FYSFR:

Year	Number of students (approved students strength)	Number of faculty members (considering fractional load)	FYSFR	*Assessment = (5 ×20)/ FYSFR (Limited to Max. 5)
2018-19	420	21	20	5
2017-18	420	22	19.09	5
2016-17	420	22	19.09	5
Average	420	21.6	19.39	5

Table B.8.1

***Note:** If FYSFR is greater than 25, then assessment equal to zero.

8.2. Qualification of Faculty Teaching First Year Common Courses (5)

Assessment of qualification = $(5x + 3y)/RF$, x= Number of Regular Faculty with Ph.D, y = Number of Regular Faculty with Post-graduate qualification RF= Number of faculty members required as per SFR of 20:1, Faculty definition as defined in 5.1

Year	x	y	RF	Assessment of faculty qualification (5x + 3y)/RF
2018-19	04	17	21	3.38
2017-18	03	19	21	3.42
2016-17	04	18	21	3.52
Average assessment				3.44

Table B.8.2

8.3. First Year Academic Performance (10)

Academic Performance = ((Mean of 1st Year Grade Point Average of all successful Students on a 10 point scale) or (Mean of the percentage of marks in First Year of all successful students/10)) x *(number of successful students/number of students appeared in the examination)*

Successful students are those who are permitted to proceed to the second year.

Academic Performance	2017-18	2016-17	2015-16
Mean of CGPA or Mean Percentage of all successful students (X)	7.07	6.93	5.75

Total no. of successful students (Y)	26	37	48
Total no. of students appeared in the examination (Z)	26	37	48
API = X* (Y/Z)	7.07	6.93	5.75
Average API = (AP1 + AP2 + AP3)/3	6.58		

8.4 Attainment of Course Outcomes of First year courses (10)

8.4.1 Describe the assessment processes used to gather the data upon which the evaluation of Course Outcomes of first year is done (5)

C114:Engineering Mechanics I Sem	**Year of study: 2017-18**	
CO#	CO Statement	Blooms Taxonomy level
C114.1	Determine the resultant force and moment for a given system of forces	apply
C114.2	Analyze bodies in equilibrium of bodies, trusses, frames and problems incorporated with friction	Analyze
C114.3	Determine the physical properties like centroid,CG, second moment of area for different planes	evaluate
C114.4	Determine the physical properties like centre of gravity and mass moment of inertia of Solids	Apply
C114.5	Calculate the motion characteristics of a body without the consideration of the effect of Force.	Apply
C114.6	Calculate the motion characteristics of a body with the consideration of the effect of Force.	Apply
C126:Engineering Drawing II sem	**Year of study: 2017-18**	
C126.1	use of drawing instruments and to draw polygons, Engg. Curves	**Apply**
C126.2	draw scales and understand orthographic projections, projections of points & simple lines	**Apply**
C126.3	draw the projections of the lines inclined to both the planes.	**Apply**
C126.4	draw the projections of the plane inclined to both the planes.	**Apply**
C126.5	draw the projections of the various types of solids in different positions inclined to one of the planes.	**Apply**

C126.6	visualize and convert the isometric view to orthographic view and vice versa.	**Apply**

Table – 8.1.1

C211 is the second course in second year and '.1' to '.6' are the outcomes of this course.

C114:Engineering Mechanics I Sem							**Year of study: 2017-18**				
CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C114.1	2	1	-	-	-	-	-	-	-	-	-	3
C114.2	2	1	-	-	-	-	-	-	-	-	-	3
C114.3	3	2	-	-	-	-	-	-	-	-	-	1
C114.4	3	2	-	-	-	-	-	-	-	-	-	1
C114.5	3	1	-	-	-	-	-	-	-	-	-	1
C114.6	2	1	-	-	-	-	-	-	-	-	-	3
C114	2.5	1.5	-	-	-	-	-	-	-	-	-	2
C126:Engineering Drawing II sem							**Year of study: 2017-18**				
CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C126.1	3	1	-	-	-	-	-	-	1	2	-	1
C126.2	3	1	-	-	-	-	-	-	1	2	-	1
C126.3	3	1	-	-	-	-	-	-	1	2	-	1
C126.4	3	1	-	-	-	-	-	-	1	2	-	1
C126.5	3	3	-	-	-	-	-	-	1	2	-	1
C126.6	3	1	-	-	-	-	-	-	1	2	-	1
C126	3	1.33	-	-	-	-	-	-	1	2	-	1

Table 8.1.2

Note:

1. Enter correlation levels 1, 2 or 3 as defined below:

1: Slight (Low) 2: Moderate (Medium) 3: Substantial (High)

It there is no correlation, put "-"

2. Similar table for PSOs

8.1.3. Program level Course-PO matrix of all courses INCLUDING first year courses (10):

Course	*PO1*	*PO2*	*PO3*	*PO4*	*PO5*	*PO6*	*PO7*	*PO8*	*PO9*	*PO10*	*PO11*	*PO12*	*Overall course*	*PSO 1*	*PSO2*
C111 ENG	1.16	-	2	-	-	2	2	2	2	3	-	2	2.02		
C112 M-I	3	2	-	-	1	-	-	-	-	-	-	-	2.00		
C113 EC	1.5	2	2	-	-	2	2	-	-	-	--	-	1.90		
C114 EM	2.5	1.5	-	-	-	-	-	-	-	-	-	2	2.00	2	2
C115 CP	2.5	2.6	2.25		2				2				2.27		
C116 ES	1	-	1	-	-	2	2.5	-	2	-	-	-	1.70		
C117 EC LAB	2	0.8	2.5	2.5	1.5	2.5	2.5	2.5	-	-	-	2.6	2.16		
C118 ECS	-	-	-	-	-	-	2	2	2	2	-	2	2.00		
C119 CP LAB	2.33	2.22	2.25	-	.	-	-	-	2.2	-	-	-	2.25		
C121 ENG-II	1.25	1	2	-	2	2	2	1	2	2.5	-	2	1.78		
C122 M-II	3	2	-	-	1	-	-	-	-	-	-	-	2.00		
C123 M-III	3	2	-	-	1	-	-	-	-	-	-	-	2.00		
C124 EP	3	2	-	-	-	-	-	-	-	-	-	-	2.50		
C125 BEE	2	3	-	-	-	-	-	-	-	-	-	-	2.50		
C126 E D	3	1.33	-	-	-	-	-	-	1	2	-	1	1.67	3	

C127 ECS-2	1	1	1	-	2	1	2	2	-	2	-	2	1.56		
C128 E/AP La	2	1	-	-	2	-	-	-	-	-	-	-	1.67		
C129 E/AP V	2.5	2	-	-		-	-	-	2.5	-	2	-	2.25		
C130 EGG	1.8	2.3	2.2	-	-	-	-	-	1.7	-	-	1.3	1.86	2	2
curriculum Mapping	2.14	1.80	1.91	2.50	1.56	1.92	2.14	1.90	1.93	2.30	2.00	1.86	2.00	2.33	2.00
Number of courses	18	16	9	1	8	6	7	5	9	5	1	8	19	3	2

Note:

1 Enter correlation levels 1, 2 or 3 as defined below:
1: Slight (Low) 2: Moderate (Medium) 3: Substantial (High)

It there is no correlation, put "-"
It may be noted that the contents of Table 312 must be consistent with information available in Table 313 for all courses

2. Similar table for PSOs

(Examples of data collection processes may include, but are not limited to, specific exam questions, laboratory tests, internally developed assessment exams, oral exams, assignments presentations, tutorial sheets etc)

Each program follows the assessment manual consisting of direct and indirect attainment methods for assessing Theory couses, laboratories and projects. Internally developed excel spread sheets are used for direct assessment. Feedback forms based on COs were framed for each class and the feedback was taken from students.

Theory Courses:
Direct Attainment

Tool used	Frequency of data collection	Responsible person	Assessment criterion	Rubric for Attainment Level	Weightage
Internal examinations	Twice per Semester	Examinations cell	Students scored > class average mark	1: <50% students 2: 50-70% students	58.4%

				3: >=70% students	
Assignments	Once per semester	Course Coordinator	Students scored > class average mark	1: <50% students 2: 50-70% students 3: >=70% students	11.6%
University Examinations	Once per semester	Examinations cell	Students scored > class average mark	1: <50% students 2: 50-70% students 3: >=70% students	30%
				Total	100%

Indirect Attainment

Tool used	Frequency of data collection	Responsible person	Assessment criterion	Rubric for Attainment Level	Weightage
CO Feedback	End of semester	Assessment committee coordinator	Average of entire class for each CO	Class Average on the scale of 1-3	100%

*Overall course attainment = 0.8*Direct attainment+0.2*Indirect attainment*

Laboratories:
Direct method

Tool used	Frequency of data collection	Responsible person	Assessment criterion	Rubric for Attainment Level	Weightage
Internal Examination	Once in Semester	Lab Coordinator	Students scored > class average mark	1: <80% students 2: 80-90% students 3: >=90 students	13.3%
Day-to-day evaluation	During each lab session	Lab Coordinator	Students scored > class average mark	1: <80% students 2: 80-90% students	20%

				3: >=90 students	
University Examinations	Once in Semester	University appointed Examer	Students scored > class average mark	1: <80% students 2: 80-90% students 3: >=90 students	66.7%

Indirect Method:

Tool used	Frequency of data collection	Responsible person	Assessment criterion	Rubric for Attainment Level	Weightage
Lab Feedback	End of semester	Assessment committee coordinator	Average of entire class for each CO	Class Average on the scale of 1-3	100%

*Overall course attainment = 0.8*Direct attainment+0.2*Indirect attainment*

8.4.2. Record the attainment of course outcomes of first year courses

ATTAINMENTS OF COURSES

Course	CO1	CO2	CO3	CO4	CO5	CO6	OVERALL	TARGET	Y/N
C111(ENG-I)	1.53	2.05	1.53	1.70	1.53	1.47	1.64	1.82	N
C112(M-I)	1.53	1.70	1.70	1.70	1.53	1.53	1.64	2.03	N
C113(EC)	1.70	1.53	1.70	1.35	1.53	1.53	1.62	1.71	N
C114(EM)	1.35	1.88	1.70	1.70	1.53	1.70	1.56	1.80	N
C115(CP)	1.70	1.70	1.53	1.70	1.70	1.56	1.64	2.04	N
C116(ES)	1.53	1.70	1.53	2.23	1.88	1.70	1.65	1.53	Y
C117(ECL-I)	1	1	1	1	1	1	1.76	1.94	N
C118(ECL)	2.07	1.83	2.07	1.83	1.60	1.83	1.00	1.80	Y
C119(CPL)	2.06	2.06	2.61	2.18	1.83	2.02	1.87	2.03	N
C121(ENG-II)	2.83	2.48	2.30	2.83	2.53	2.30	2.13	1.59	Y
C122(M-II)	2.05	2.05	1.70	1.88	1.70	1.70	2.55	1.80	Y

C123(M-III)	1.35	1.47	1.35	1.35	1.53	1.35	1.85	1.80	Y
C124(EP)	1.88	1.70	1.88	1.35	1.53	1.53	1.40	2.25	N
C125(BEEE)	1.65	1.65	1.49	1.87	1.87	2.08	1.65	2.25	N
C126(ED)	1.0	1.0	1.0	1.7	1.0	1.7	1.77	1.50	Y
C127(ECL-II)	1.60	1.60	1.83	1.60	1.83	1.83	1.23	1.40	N
C128(EPL)	1	1	1	1	1	1	1.72	1.50	Y
C129(EPVL)	2	3	3	2	3	2	1.00	2.03	N
C12A(ETWS/ITWS)	2.2	2.1	2.1	2.8	2.9	2.4	2.50	1.67	Y

8.5. Attainment Program Outcomes of courses from first year courses

PO Attainment:

Course	***PO1***	***PO2***	***PO3***	***PO 4***	***PO5***	***PO 6***	***PO 7***	***PO8***	***PO9***	***PO 10***	***PO 11***	***PO12***
C111	0.94		1.62			1.6	1.6	1.62	1.62	2.4		1.62
C112	2.27	1.51			1.51							1.51
C113 EC	1.34	1.79	1.79			1.7	1.7					
C114	1.95	1.17										1.56
C115 CP	1.88	1.95	1.69		1.50		0.0		1.50			0.00
C116 ES	1.02		1.02			2.0	2.5		2.03			
C117 EC	1.68	0.67	2.09	2.0	1.26	2.0	2.0	2.09				2.18
C118							1.1	1.19	1.19	1.1		1.19
C119 CP	1.97	1.88	1.90						1.86			
C121	1.48	1.19	2.38		2.38	2.3	2.3	1.19	2.38	2.9		2.38
C122 M-	3.64	2.42			1.21							
C123 M-	2.77	1.85			0.925							
C124 EP	1.86	1.24										
C125	1.39	2.09										
C126 E	2.20	0.979							0.73	1.4		0.736
C127	0.89	0.89	0.89		1.78	0.8	1.7	1.78		1.7		1.78
C128	2.14	1.07			2.14							
C129	1.32	1.06			0.00				1.32		1.0	
C130	2.32	2.97	2.84						2.20			1.68
Direct	1.84	1.55	1.80	2.09	1.44	1.80	1.67	1.57	1.65	1.97	1.06	1.45

Indirect Attainment-2017-18

Course	*PO1*	*PO2*	*PO3*	*PO4*	*PO5*	*PO6*	*PO7*	*PO8*	*PO9*	*PO10*	*PO11*	*PO12*	*Overall Course*
Employer Feed Back	2.75	2.5	2.5	2.33	2.33	0	0	2.75	2.75	2.75	2.75	2.5	2.16
Alumni Feed Back	2.05	1.87	1.87	1.94	1.93	2.07	1.78	1.94	1.98	1.98	1.97	2.11	1.96
T&PCG(Addon	-	-	-	-	-	-	-	2	3	2	-	2	2.25
Dept.Association Events(Paper Presentaion,Prject Expo,Guest Lecture)	2	2	2	2	2			2.2	2.9	3	2	1.5	2.16
IIIC	-	2	3	-	3	2	2	2.3	2.6	3	2.5	2.2	2.46
Professional Societies (Student Seminar, English Comm. Skills)	-	-	-	-	-	-	-	-	-	3	-	-	3.00
R&D AND CONSULTANCY CELL(IPR,Projects)	2	2	2	3	2.3	2	2	2.6	2	2	3	2	2.24
Lib.& IC	-	-	-	-	-	-	-	-	-	-	-	2	2.00
NSS(NSS Activities, Programs on Environment, Programs on health, Programs on safety)	-	-	-	-	-	3	3	1.25	3	-	-	-	2.56
Arts & Cultural	-	-	-	-	-	2	2	2	1.4	1.86	-	2	1.88
Sports & Games	-	-	-	-	-	-	-	2	3	2	-	-	2.33
Indirect attainment	2.20	2.07	2.27	2.32	2.31	1.85	1.80	2.12	2.51	2.40	2.44	2.04	2.27

INDIRECT ATTAINMENT THEORY

Course	**CO1**	**CO2**	**CO3**	**CO4**	**CO5**	**CO6**	**OVERALL**
C111 (ENG-I)A	2.04	2.35	2.12	1.88	2.27	1.96	2.10
C112 (M-I) A	2.00	2.12	1.85	2.00	1.92	1.77	1.94
C113 (EC)A	2.04	2.12	1.77	1.96	2.12	2.12	2.02
C114 (EM)A	2.00	1.77	2.08	2.27	1.65	1.88	1.94
C115 (CP)A	2.19	2.08	2.00	1.69	1.77	2.08	1.97
C116 (ES)A	2.23	1.81	2.15	2.12	1.85	2.04	2.03
C121 (ENG-II)A	1.92	2.08	1.96	2.15	2.08	1.77	1.99
C122 (M-II)A	2.31	1.92	2.08	1.92	1.73	1.58	1.92

C123 (M-III)A	2.00	1.88	1.96	2.00	2.12	2.08	2.01
C124 (EP)A	2.04	2.04	2.19	2.19	2.08	2.38	2.15
C125 (BEE)A	2.00	2.08	2.12	1.96	2.08	2.31	2.09
C126 (ED)A	2.04	2.19	2.00	2.23	2.04	1.85	2.06

INDIRECT ATTAINMENT lab

Course	**CO1**	**CO2**	**CO3**	**CO4**	**CO5**	**CO6**	**OVERALL**
C117 (E CHE-I)	1.92	2.19	1.96	2.04	2.08	1.85	2.01
C118 (ECS-I)	2.12	1.85	1.96	2.08	1.88	1.92	1.97
C119 (CPLAB)	1.96	2.12	1.85	2.08	2.31	1.96	2.04
C127 (ECS-2)	2.08	1.88	1.77	2.12	2.15	2.04	2.01
C128 E/AP LAB	1.88	2.42	1.85	1.92	2.15	2.12	2.06
C129 (A/EVAL	1.85	2.04	1.81	2.08	1.81	2.08	1.94
C130 (EGG/IT	1.96	1.92	2.08	2.04	2.08	1.96	2.01

% OF STUDENTS ATTAINED

Course	CO1	CO2	CO3	CO4	CO5	CO6	UNIV
C111 (ENG-I)	55.25	73.21	51.69	57.33	38.72	27	50
C112 (M-I)	53.12	52	63.06	35.60	35.38	41.87	15
C113 (EC)	57.14	41.41	58.57	40.05	53.57	47.77	19
C114 (EM)	36	49	60	59	50	50	15
C115 (CP)	61	60	50	60	44	58	50
C116 (ES)	48.68	47.77	47.77	78	75	53.19	23
C117	63.66	63.66	63.66	63.66	63.66	63.66	84.61

(ECL-I)							
C118 (ECL)	65.38	60.26	67.95	65.38	79.49	88.46	100
C119 (CPL)	80.76	80.76	89.74	82.69	73.07	78.46	100
C121 (ENG-II)	71.1	66.8	47	81.6	60	46.7	74
C122 (M-II)	84.2	84.8	63.9	65.2	60	60.9	33
C123 (M-III)	47.91	52	27.08	33.33	58.33	39.70	8
C124 (EP)	66.19	54.01	59.59	51.66	33.33	66.07	24
C125 (BEEE)	78	47	58	62	50	64	42
C126 (ED)	44	35	20	54	22	50	4
C127 (ECL-II)	43.59	50	57.69	51.28	57.69	74.36	100
C128 (EPL)	51.92	44.87	62.82	60.26	44.87	43.59	88.46
C129 (EPVL)	100	100	100	100	100	100	100
C12A (ETWS/ITWS)	76	76	65	65	95	99	96

Tool	*PO 1*	*PO 2*	*PO 3*	*PO 4*	*PO 5*	*PO 6*	*PO 7*	*PO 8*	*PO 9*	*PO1 0*	*PO1 1*	*PO1 2*	*PS O1*	*PS O2*
Direct Attainment (A)	1.84	1.55	1.8	2.09	1.44	1.8	1.67	1.57	1.65	1.97	1.06	1.45	2.61	2.17
Indirect attainment	2.2	2.07	2.27	2.32	2.31	1.85	1.8	2.12	2.51	2.4	2.44	2.04	2.57	1.95
Overall Attainment	1.91	1.65	1.89	2.14	1.61	1.81	1.70	1.68	1.82	2.06	1.34	1.57	2.60	2.13

course	***direct***	***indirect***	***Overall***
C111 ENG	1.64	1.96	***1.70***
C112 M-I	1.64	1.77	***1.67***
C113 EC	1.62	2.12	***1.72***
C114 EM	1.56	1.88	***1.62***
C115 CP	1.64	2.08	***1.73***
C116 ES	1.65	2.04	***1.73***
C117 EC LAB	1.76	1.85	***1.78***
C118 ECS	1	1.92	***1.18***

C119 CP LAB	1.87	1.96	***1.89***
C121 ENG-II	2.13	1.77	***2.06***
C122 M-II	2.55	1.58	***2.36***
C123 M-III	1.85	2.08	***1.90***
C124 EP	1.4	2.38	***1.60***
C125 BEE	1.65	2.31	***1.78***
C126 E D	1.77	1.85	***1.79***
C127 ECS-2	1.23	2.04	***1.39***
C128 E/AP Lab	1.72	2.12	***1.80***
C129 E/AP V	1	2.08	***1.22***
C130 ENGG/ITWS	2.5	1.96	***2.39***

8.5.2. Actions taken based on the results of evaluation of each of the POs (5)

Identify the areas of weaknesses in the program based on the analysis of evaluation of POs & PSOs Attainment levels. Measures identified and implemented to improve POs & PSOs attainment levels for the assessment years.

Actions to be written as per table in 3.3.2.

POs & PSOs Attainment Levels and Actions for improvement 2017-18

PO1: Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.			
PO1	64.20%	63.67%	Not attained
POs	**Target**	**Attainment**	**Observations**
PO2: Problem analysis: Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.			
PO2	54.00%	55.00%	Attained
Action 1:Visual learning can enhance the understanding and more examples from real physical processes to be given Action 2:Practical approach of teaching programming to be adapted			
POs	**Target**	**Attainment**	**Observations**
PO3: Design/development of solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.			
PO3	57.30%	63.00%	Attained
Action 1: Students focus on more complex problems which can be related to designing engineering problems in later stage Action 2: Encourage to take up NPTEL courses and MOOC's			
POs	**Target**	**Attainment**	**Observations**
PO4: Conduct investigations of complex problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.			
PO4	75.00%	71.33%	Not Attained
Action 1: More Computer programming classes. Action 2:Lectures about modern computing to inspire the students for adopting research based knowledge			

POs	Target	Attainment	Observations
PO5: Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modelling to complex engineering activities with an understanding of the limitations			
PO5	46.80%	53.67%	Attained
Action 1: Computer Lab sessions to expose students to various new software's and tools Action 2: Organizing Lectures about modern tool usage.			
POs	**Target**	**Attainment**	**Observations**
PO6: The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.			
PO6	57.60%	60.33%	Attained
Action 1: Encouraging students to NSS and other social activities Action 2: Organizing lectures by prominent personalities to motivate the students about societal, health, safety, legal and cultural issues			
POs	**Target**	**Attainment**	**Observations**
PO7: Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development			
PO7	64.20%	56.67%	Not attained
Action 1: Environment awareness to be spread among students through various NSS activities, set up various go-green programs Action 2: Lectures on professional engineering solutions in societal and environmental contexts			
POs	**Target**	**Attainment**	**Observations**
PO8: Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.			
PO8	57.00%	56.00%	Not attained
Action 1: Faculty spread the message of ethical principles while delivering lectures and explaining experiments in laboratory classes Action 2: Students are given bridge course on Soft Skills and personality development			

POs	Target	Attainment	Observations
PO9: Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.			
PO9	57.90%	60.67%	Attained
Action 1: Students work in groups in Laboratory and projects Action 2: Students are allowed to organize and participate in various events such as Tech Fest, Cultural Fest, Language Fest etc Action 3: Institute encourages students in every way to function effectively as an individual, and as a member or leader			
POs	**Target**	**Attainment**	**Observations**
PO10: Communication: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.			
PO10	69.00%	68.67%	Not attained
Action 1: Well-equipped Language laboratory helps the students to enhance their communication skills Action 2: Interaction with students, group discussions and presentations arranged Action 3: Grooming sessions and soft skill training.			
POs	**Target**	**Attainment**	**Observations**
PO11: Project management and finance: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.			
PO11	60.00%	44.67%	Not attained
Action 1: Assignments and Projects are assigned which requires management skills Action 2: Tech Fest and other events are organized by the students			
POs	**Target**	**Attainment**	**Observations**
PO12: Life-long learning: Recognize the need for, and have the preparation and ability to engage in			

independent and life-long learning in the broadest context of technological change.			
PO12	55.80%	52.33%	Not attained
Action 1: Seminars and Lectures to make the students understand the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change. Action 2: Exposure to the applications of the basic courses in the higher areas of learning and research to motivate the students			
PSO1	**Target**	**Attainment**	**Observations**
PSO1. **SKILLS FOR SUCCESSFUL CAREER**: Able to apply engineering knowledge to get through the competitive examinations for employment/higher studies.			
PSO1	69.9%	86.67%	Students are doing well in overall academic performance but they have to recognize the need for the ability to engage in independent and life-long learning
Action 1: Seminars and Lectures to make the students understand the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change. Action 2: Exposure to the applications of the basic courses in the higher areas of learning and research to motivate the students			
PSO2	**Target**	**Attainment**	**Observations**
PSO2. **PROBLEM SOLVING SKILLS**: Exercise latest techniques, innovative methods and multi disciplinary knowledge in solving engineering problems of industry and serve the society			
PSO2	60.00%	71.00%	Students need to improve the ability to manage projects and other events as individual or as a member of a team
Action 1: Seminars and Lectures to make the students understand the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change. Action 2: Exposure to the applications of the basic courses in the higher areas of learning and research to motivate the students			

Criterion 9	Student Support Systems	50

9. Student Support Systems (50)

9.1. Mentoring system to help at individual level (5)

Type of mentoring: Professional guidance/ career advancement/ course work specific/ laboratory specific all-round development. Number of faculty mentors, Number of students per mentor, Frequency of meeting.

(The institution may report the details of the mentoring system that has been developed for the students for various purposes and also state the efficacy of such system)

Type of Mentoring: All-round development

- An effective Student mentoring system (SMS) has already been implemented in our college.
- All the students of the college are coming under this system from the date of joining the college.
- Each faculty is allocated with 15-20 students under the mentoring system.
- Each mentor maintains a record with all details like parents/guardian's name, addresses, contact numbers, attendance and academic details.
- Faculties will have a meeting with the students periodically and their Academic progress and all his activities are discussed and noted in the record.
- Academically weak students are counseled and support is provided for their improvement.
- Meritorious students for all the years are felicitated for their scholastic achievement, which motivates other potential students towards such excellence.
- Apart from academic guidance, all mentors encourage the students' participation in co-curricular, extra-curricular and other professional activities to motivate and stimulate their overall growth.
- Mentors will be submitting the record to the high level Mentoring /Counseling committee at the end of the semester.

Counselling/ Mentoring System:

All Departments do maintain Mentoring system at three levels. HOD monitors the mentoring of entire department. Class In charges monitor the mentoring of their assigned classes and mentors do the actual mentoring of the assigned students. Each class is headed by a class in charge to monitor the mentoring of each and every student.

Mentoring mainly focuses on the course work, attendance, and professional guidance. Its main objective is the overall development of students.

Number of students allotted per mentor: 20 (Maximum)

Total number of mentors: 18 (CSE)

Frequency of meeting: Fortnight

Sample Mentor Allotment Table of II CSE II Semester

Sl.No	Range of Students	Mentor Name	No. Of Students
1	17MQ1A0501 to 17MQ1A0520	Sri S.Anil Kumar	20
2	17MQ1A0521 to 17MQ1A0540	Sri M.Anand Kumar	20
3	17MQ1A0541 to 17MQ1A0560	Sri K.Rama Rao	20

Objectives of mentoring and roles of mentor:

- Students can freely interact with their counsellor to express their problems.
- Provide support, encouragement, and positive perspectives.
- Give feedback on observed behaviour and report performance.
- Encourage students to utilize campus resources.
- Notify the attendance of the students and intimate to their parents and alert them to be regular to the classes.
- Notify the backlogs if any and alert the students to focus on academics.
- Motivate students to achieve academic excellence by guiding them to set goals.

Outcome: As the mentoring program has enhanced and implemented in the academic year there was lot of change in the academic performance and regularity of the students.

Case Study:

V. Chaitanya of III year Bearing Register Number 16MQ1A05B8 is pursuing B.Tech in Computer Science and Engineering. He is one such person who got benefited by mentoring. By the end of second year first semester he has 7 arrears, after counselling and continuous monitoring by mentor he cleared all the courses in second year second semester and third year first semester.

Sample Proforma of Counselling Record

Counsellor collects the student's initial details in a well-structured bio data which helps in understanding the key details about the student.

SRI VASAVI
INSTITUTE OF ENGINEERING & TECHNOLOGY
NANDAMURU - 521 369, Pedana Mandal, Krishna Dist.

COUNSELLING RECORD

Regd. No. :

Passport Photo

Name of the Student :
Course :
Department :
Date of Birth : Blood Group :
EAMCET / ECET Rank :
Percentage of Marks 10th : Intermediate :
Day Scholar / Hostler : Room No. In case of Hostler
Mode of Travel :
Hobbies : Music / Sports & Games / Other :
Special Talents :
Prizes Won :

Address : Communication Permanent

Pin Pin
Tel. : Tel.:
Mobile : Mobile:
E-mail: E-mail:

1

PERFORMANCE IN EXAMS :

I YEAR

	First Semester								Second Semester							
	Theory Subjects	Quiz I	Quiz II	Mid I	Mid II	Tut.	Ass.	Int. 30	Univ. 70	Theory Subjects	Quiz I	Quiz II	Mid I	Mid II	Tut.	Ass.	Int. 30	Univ. 70
		5 M	5 M	15 M	15 M	5M	5M				5 M	5 M	15 M	15 M	5M	5M		
1										1								
2										2								
3										3								
4										4								
5										5								
6										6								
	LABORATORY SUBJECTS							Int. 25	Univ. 50	LABORATORY SUBJECTS							Int. 25	Univ. 50
1										1								
2										2								
3										3								
4										4								
	PERCENTAGE									PERCENTAGE								

II YEAR

	First Semester								Second Semester							
	Theory Subjects	Quiz I	Quiz II	Mid I	Mid II	Tut.	Ass.	Int. 30	Univ. 70	Theory Subjects	Quiz I	Quiz II	Mid I	Mid II	Tut.	Ass.	Int. 30	Univ. 70
		5 M	5 M	15 M	15 M	5M	5M				5 M	5 M	15 M	15 M	5M	5M		
1										1								
2										2								
3										3								
4										4								
5										5								
6										6								
	LABORATORY SUBJECTS							Int. 25	Univ. 50	LABORATORY SUBJECTS							Int. 25	Univ. 50
1										1								
2										2								
3										3								
4										4								
	PERCENTAGE									PERCENTAGE								

2

ATTENDANCE (Cumulative) :

Year	Month	June	July	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May
1st Year	Attendance %												
2nd Year	Attendance %												
3rd Year	Attendance %												
4th Year	Attendance %												

DATE OF INTIMATION TO PARENTS:

I Year		II Year		III Year		IV Year	
1st Sem	2nd Sem	1st Sem	2nd Sem	1st Sem	2nd Sem	1st Sem	2nd Sem
1.	1.	1.	1.	1.	1.	1.	1.
2.	2.	2.	2.	2.	2.	2.	2.
3.	3.	3.	3.	3.	3.	3.	3.
4.	4.	4.	4.	4.	4.	4.	4.

PARENT'S ACKNOWLEDGEMENT

	I Year		II Year		III Year		IV Year	
	1st Sem	2nd Sem	1st Sem	2nd Sem	1st Sem	2nd Sem	1st Sem	2nd Sem
Signature								
Date								
Signature								
Date								
Signature								
Date								
Signature								
Date								

4

SRI VASAVI
INSTITUTE OF ENGINEERING & TECHNOLOGY
NANDAMURU - 521 369, Pedana Mandal, Krishna Dist.

COUNSELLING RECORD

Regd. No. : 1 7 M Q 1 A 0 5 7 0

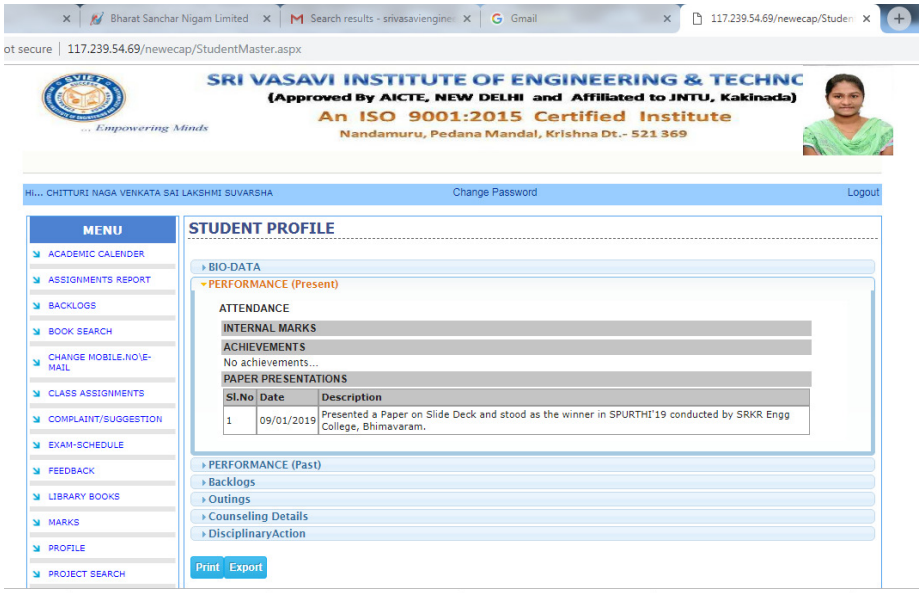
Name of the Student : GAMIDI RUPA SOWJANYA
Course : B-TECH
Department : C.S.E
Date of Birth : 10-07-2000 Blood Group :
EAMCET / ECET Rank : 71858
Percentage of Marks 10th : 9.3 Intermediate : 948
Day Scholar / Hostler : Room No. In case of Hostler
Mode of Travel : COLLEGE BUS
Hobbies : Music / Sports & Games / Other :
Special Talents :
Prizes Won :

Address : Communication Parmanent

D.NO-14-310,
EDEPALLI,
MACHILIPATNAM
Pin 521001 Pin
Tel. : Tel.:
Mobile : 8143378463 Mobile:
E-mail: E-mail:

1

Co-curricular and extra-curricular activities related achievements are tracked through ECAP software for the students. A sample profile of student is shown below



9.2. Feedback analysis and reward / corrective measures taken, if any (10)

Feedback collected for all courses: YES/NO; Specify the feedback collection process; Average Percentage of students who participate; Specify the feedback analysis process; Basis of reward/ corrective measures, if any; Indices used for measuring quality of teaching & learning and summary of the index values for all courses/teachers; Number of corrective actions taken.

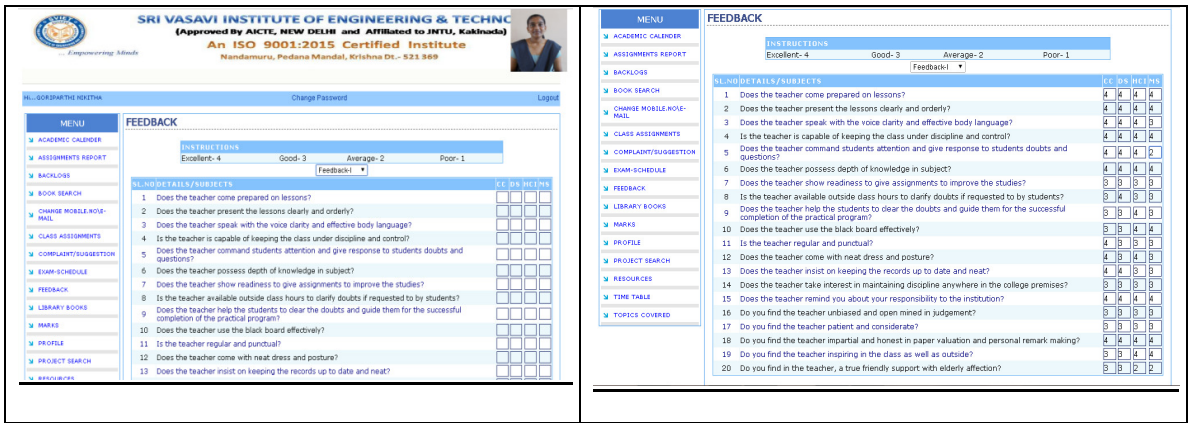
Feedback system is well-organized in this institute. The students can give their online feedback by logging in to the Feedback software using their ID. Once they log in to the software, list of courses and corresponding faculty members for that student is displayed. Students give their feedback according to a questionnaire which enables them to give their opinion as Excellent, Good, Average or Poor., which is analysed through the software.

- A feedback index (in a scale of 4) is calculated for each course for all faculty members, which may be considered as a measure of student's satisfaction.
- Various parameters of course-wise feedback report is graphically plotted for different faculty members which gives an overall idea of the quality of teaching-learning process for different courses.
- The students are also allowed to write whatever comments they want to make about the teachers which will be finally checked by Principal and HOD and is forwarded to the faculty concerned.
- The feedback report is shared with each individual faculty member for further improvement.
- Report of recommendation for improvement of individual faculty members of different departments are shared with concerned HODs for necessary action.

S.No.	Item	Response
1	Feedback collected for all	Yes

	courses	
2	Specify the feedback collection process	Online feedback is collected
3	Frequency	Twice per Semester
3	Who collects the feedback	Feedback is collected centrally at the Institutional level
4	When feedback is collected	In the 3rd Week of semester and after first mid of the semester.
5	Percentage of students participating	70% on an average
6	Basis of reward / corrective measures	Faculty members with feedback index below a pre-defined value are forwarded to higher authorities for corrective actions. This feedback index is also considered as one of the parameters for identifying faculty for felicitation.

Format for Feedback on Faculty/Teaching & Learning



Sample of feedback analysis on teaching – class

Academic Year: 2017-2018 Semester: I

Program/Department: B.Tech CSE, Feedback taken from: III Year

S.No.	Subject Name	Name of the Faculty	Feedback %
1	COMPILER DESIGN	P.ASHOK KUMAR	77
2	PRINCIPLES OF PROGRAMMING LANGUAGES	JVN.RAJU	84
3	DATABASE MANAGEMENT SYSTEMS	M.SRINIVASA RAO	85
4	OPERATING SYSYEMS	MD AMEER RAZA	86
5	DATA COMMUNICATIONS	D.V. SRIDHAR	85
Department Feedback on Teaching(Average)			83.4

Academic Year: 2017-2018 Semester: I

Program/Department: B.Tech ECE, Feedback taken from: III Year

S.No.	Subject Name	Name of the Faculty	Feedback %

1	Computer Architecture And Organization	K.G.V.NAGESWARA RAO	84
2	Linear I C Applications	K.P.R.RATNA RAJU	88
3	Digital I C Applications	K.SAI SUDHEER	83
4	Digital Communications	G.S.V.N.V.BABU	73
5	Antenna And Wave Propagation	A.CHANDRA SURESH	91
6	Professional Ethics & Human Values	K.BHAVANI	85
Department Feedback on Teaching(Average)			84

Academic Year: 2017-2018 Semester: I
Program/Department: B.Tech Mech, Feedback taken from: III Year

S.No.	Subject Name	Name of the Faculty	Feedback %
1	Dynamics Of Machinery	CH.ANUSHA	79
2	Metal Cutting & Machine Tools	K.RAVI	80
3	Design Of Machine Membersâ€“II	V.SAI MOUNICA	80
4	Operations Research	P.AJAY KUMAR	71
5	Thermal Engineering -II	A RAJESH	69
	IPR & Patents	K.BHAVANI	79
Department Feedback on Teaching(Average)			76.33

For the Academic Year 2017-2018, appreciation was given to faculty members on the basics of feedback from students, Academic results, overall contribution to the department and Institution, From the Head of the department and Principal

Sl. No.	Faculty Name	Designation	Overall Rating	Academic Year/Sem
1.	Sri M.Srinivasa Rao	Associate Professor	85	2017-2018 III/II

Number of corrective actions taken:

After taking feedback on teaching and learning few faculty members were questioned and suggested to improve their performance based on the feedback obtained from the students and other aspects. The suggestion led to improvements in their performance and quality of teaching by sending the concerned faculty members to Faculty Development Programs and Suggesting them to watch NPTEL videos available in central library.

Sl. No.	Faculty Name	Designation	Overall Rating	Academic Year/Sem
1	K.Sowmya Sri	Assistant Professor	64%	2017-2018 II/I
2	P.L.N.SAROJA	Assistant Professor	67%	2017-2018 II/I

9.3. Feedback on facilities (5)

Assessment is based on student feedback collection, analysis and corrective action taken.

Introduction:

Management provides excellent infrastructural and general facilities to the students. Still Feedback is taken on facilities from the student to serve them better. It is analysed at the department level and further improvement is done in the area where the feedback is low. Generally feedback is taken from the Final Year students of the department since they have much exposure to all the facilities of the college. Suggestions given by them can be considered and implemented. Institution regularly takes feedback on the following facilities.

1. Department facilities
2. Lab facilities
3. Library facilities
4. Engineering computing center
5. Training & Placement Cell
6. General facilities

Feedback Collection

1. The students are given questions concerning all the above said facilities. The questionnaire is designed to enable them to give their opinion as Excellent, Very Good, or Satisfactory.
2. Feedback on facilities is collected generally one time in a year from final year students, faculty and external stake holders of the institution

Sample External Stakeholders Feedback form

SRI VASAVI INSTITUTE OF ENGINEERING & TECHNOLOGY
Nandamuru, Pedana Mandal, Krishna Dist – 521369

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

FINAL YEAR STUDENTS – EXIT FEED BACK

Academic Year: 2017-18 **Batch: 2014-18**
Name: **Hall Ticket No:**
Date:

NOTE: Please write appropriate levels1, 2, 3 as defined below for each parameter:
1. Slight (Low) 2. Moderate (Medium) 3. Substantial (High)

Feedback on Facilities:

Facility	Your Rating
Library	
Laboratories in Curriculum	
Additional Laboratories & Project Lab	
Common Computer Center / Internet facilities	
Software facilities	
Sports & Games	
Counseling / Mentoring Facilities	
T & P Facilities	
Canteen	
Entrepreneurship cell	
Hostel (for Girl students)	
Transport	
Self-Learning Facility such as NPTEL, e-Journals, JNTU	
Overall rating on Infrastructure	

Feedback on Teaching-Learning-Evaluation Process:

Parameter Description	Your Rating
Academic Performance	
Innovative methods in Teaching	
Student Seminars	
Faculty guidance in Laboratories	
Industrial visits / internships	
Quality of projects – Technology, Social Relevance, industry	
Annual Sports Meet	
Department Association Activities	
Cultural Activities	
Support for self-learning	
Student peer learning opportunities	

Exit Feedback

Guidance provided by the Faculty members	
Training Courses beyond the University syllabus - Soft skills	
Training Courses beyond the University syllabus - Technical	
Quality of Exam paper evaluation	
Student feedbacks implementation	
Syllabus & its relevance to meet the objectives	
Annual Project Exhibition (SAPIENCE)	
Technical Paper presentation (SAPIENCE)	
Overall Experience at SVIET	

Feedback on Faculty & Staff:

Parameter Description	Your Rating
Depth of knowledge possessed by the faculty members	
Guidance by the Faculty & staff members in labs, projects & courses	
All faculties of the college are cooperative.	
Faculty treating students with respect.	
Faculty support & encouragement in extra & co curricular activities	
Course material provided by the faculty	
Student mentoring by the faculty	
Student Problem addressed by the faculty towards solution	
Faculty inspiring in the class as well as outside	
Syllabus covered in time by the faculty	

Feed Back on Curriculum:

Parameter Description	Your Rating
Quality of curriculum & syllabi	
Additional topics taught in the courses	
Additional Experiments in the Laboratories	
Gaps identified & covered in the curriculum	

Any Other Comments / Suggestions:

Signature of the student

Exit Feedback (Contd..)

Assessment is based on student feedback collection, analysis and corrective action taken

Corrective action taken

1. Department library is arranged with a provision of seating arrangement is done.
2. Space is allotted for students in library with proper seating and ventilation.
3. Journal access is provided to students in main library.
4. Fire safety Equipment is provided for emergency purpose.
5. Greenery is increased by a way of plantation.
6. Wheel chair facility is provided.

9.4. Self-learning (5)

To encourage self-learning for the students the following facilities are made available to students

Introduction

The college believes that self-learning and learning beyond syllabus have a great scope in the development of the career of an engineer. Everything in engineering cannot be taught in the class room or laboratories. The explosion in knowledge related to applied science and engineering during the last century has been so much that four years is too short period even to cover one branch of engineering. This fact calls for the relevance for self-learning for young engineers. What an institution should do is to provide adequate facilities for self-learning to the students so that they get motivated to learn more and more and ultimately become life-long learners and innovators. Library, Internet and Sports hours are included in time tables to improve learning ability by using facilities available.

SRI VASAVI INSTITUTE OF ENGINEERING & TECHNOLOGY (Code: MQ)
Approved By AICTE, NEW DELHI ., Affiliated to JNTUK, Kakinada
An ISO 9001:2015 Certified Institute Nandamuru, Pedana Mandal, Krishna Dt.- 521 369
Tel : 08672 241387

TIME TABLE

Course : B.Tech
Branch : ComputerScience & Engineering
Semester : 2/4 Semester-II
Section : 1
w.e.f : 19/11/2018
Room.No : B1-308

Day of week	Period 1 09:15 AM 10:05 AM	Period 2 10:05 AM 10:55 AM	10:55 AM 11:10 AM	Period 3 11:10 AM 12:00 PM	Period 4 12:00 PM 12:50 PM	12:50 PM 01:25 PM	Period 5 01:25 PM 02:10 PM	Period 6 02:10 PM 02:55 PM	02:55 PM 03:05 PM	Period 7 03:05 PM 03:50 PM	Period 8 03:50 PM 04:35 PM
Mon	PPL	ADS	B	CO	JAVA	L	FLAT(E)	INT	B	DP/CO-C-1	DP/CO-C-1
Tue	JAVA	FLAT	R	ADS	SE	U	PPL(E)	CO	R	ADS(T)	JAVA(T)
Wed	SE	CO	E	FLAT	ADS	N	SEM	Java Lab\ADS Lab	E	Java Lab\ADS Lab	Java Lab\ADS Lab
Thu	FLAT	PPL	A	SE	PPL	C	JAVA	SE(E)	A	FLAT(T)	PPL(T)
Fri	ADS	FLAT	K	JAVA	PPL	H	SE(T)	CO(T)	K	ADS(E)	SPORT/CON
Sat	CO	ADS Lab\Java Lab		ADS Lab\Java Lab	ADS Lab\Java Lab		SE	JAVA(E)		LIB	CO(E)

Allocation of Subjects

Subject Code	Subject	Name of Faculty	Faculty Initials
SE	Software Engineering	S ANIL KUMAR	
JAVA	Java Programming	P. SIVA NAGA RAJU	
ADS	Advanced Data Structures	K.RAMA RAO	
CO	Computer Organization	M.NAGAVAMSI	
FLAT	Formal Languages And Automata Theory	M ANANDA KUMAR	
PPL	Principles Of Programming Languages	DR.B.RAJA SRINIVASA REDDY	
ADS Lab	Advanced Data Structures Lab	K.RAMA RAO,M ANANDA KUMAR	
Java Lab	Java Programming Lab	P. SIVA NAGA RAJU	
SEM	SEMINAR	M ANANDA KUMAR	
CO/JAVA(T)	CO/JAVA(T)	P. SIVA NAGA RAJU	
JAVA/CO(T)	JAVA/CO(T)	P. SIVA NAGA RAJU	
FLAT/PPL-T	FLAT/PPL(T)	M ANANDA KUMAR,DR.B.RAJA SRINIVASA REDDY	
ADS/SE(T)	ADS/SE(T)	K.RAMA RAO,S ANIL KUMAR	
SE/ADS(T)	SE/ADS(T)	K.RAMA RAO,S ANIL KUMAR	
PPL/FLAT-T	PPL/FLAT(T)	M ANANDA KUMAR,DR.B.RAJA SRINIVASA REDDY	
LIB	Library	P.V.L.NARASIMHA RAO	
INT	Internet	MD.AHMED	
DP/CO-C-1	DP/CO-C-1	DR.B.RAJA SRINIVASA REDDY	
SPORT/CON	SPORTS/COUNSELLING	M ANANDA KUMAR	
SE(E)	SE(E)	S ANIL KUMAR	
PPL(E)	PPL(E)	DR.B.RAJA SRINIVASA REDDY	
ADS(E)	ADS(E)	K.RAMA RAO	
FLAT(E)	FLAT(E)	M ANANDA KUMAR	
JAVA(E)	JAVA(E)	P. SIVA NAGA RAJU	
CO(E)	CO(E)	M.NAGAVAMSI	

Motivation for self-learning should be provided in the classrooms. A teacher has a great role to play in this. Discussing subject beyond the syllabus, providing exposure to exciting developments in science and technology around the globe, attempting solutions to problems in daily life etc. are the ways to motivate students for self-learning. They should also be motivated to do things themselves so that they gain confidence to try anything with their own hands.

Facilities provided for the continuity of self-learning:

1. Central library:

Central Library supports the teaching and research programs of the institute and provides facilities for general reading and disseminates information according to the requirement of the user. The services and operations in the central library are fully computerized. The library is always open from 08:00 A.M to 06:00 P.M for use. The collection comprises textbooks, general reference material and small selections of serials and CD ROMs. For continual improvement Students are allocated with a library hour in the curriculum.

	
Central Library	**Books**
	
Digital Library	Books Issue
	
Reading Hall	Journals & Periodicals

BRANCH-WISE DISTRIBUTION OF BOOKS AND JOURNALS

S. No	Branch	Titles	Volumes	Interactional Journals	National Journals	Magazines	E-Journals	E-Books

1	CIVIL	332	2932	3	2	2	112	46
2	EEE	320	2288	6	1	1	43	
3	MECH	357	2962	6	3	0	74	78
4	ECE	447	3581	3	2	1	43	152
5	CSE	659	4906	3	2	2	170	1313
6	BS&H	530	4492	1	5	6	465	
TOTAL		**2645**	**21161**	**22**	**15**	**12**	**907**	**1589**

2. Digital Library:

1. Digital Library is also provided for the continuous updating of recent techniques. Internet facility is available for Staff & Students. 1589 e-books, 907 e-journals.

Students Accessing Digital Library

Students Accessing Digital Library

3. NPTEL (National Program Technical Enhanced Learning)

NPTEL Classes are also regularly conducted to the students in order to upgrade their technical knowledge on various courses. The main objectives of NPTEL (national programme on technology enhanced learning) is to enhance the quality of engineering & science education in the country by developing contents for undergraduate and post graduate curricula using web based background.

These courses cover the syllabi prescribed by universities and approved by AICTE. Course contents will be useful for teachers training and through them the quality of students. These can be used by professionals for updating their academic background.

NPTEL Online Certification Course:

NPTEL started offering certification on courses offered in the open online mode with an objective of enabling students to obtain certificates from courses is to, make students employable in the industry or to purchase a suitable higher education programme.

The Features Are

1. The Course Enrolment and Learning Is Free While the Exam Comes For normal Fee.

2. The Courses are offered by the faculty of IIT'S, CMI and IMSC etc. which are of duration 10, 20 or 40 hrs.
3. Lessons and assignments are released every week. Also there is a discussion forum in which student gets a certificate.

Benefits for a student who participates in an NPTEL online certification course:

1. Students gain tangible end results.
2. Students can review and assess their own progress through Assignments (weekly).
3. Continuous assessment and interaction with course faculty.
4. Discussion forum of like minds to discuss problem areas.
5. Students get access to mentors certificate from the IITs, to improve job prospects

NPTEL Local Chapter:

It is partnership between the college and NPTEL. To take this initiative forward and to encourage more students across colleges to participate in this initiative, NPTEL are setting up NPTEL chapter in colleges (with the approval of the management) which will be under the headship of a faculty member of the college, who would be single point of contact (SPOC).

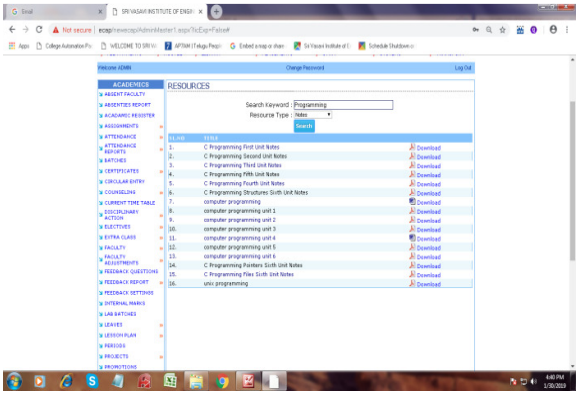
NPTEL will keep the SPOC updated about all the latest NPTEL initiatives and give him/her information which he/she can disseminate among the students. He/ she can identify suitable mentors for various courses, who can ensure that students are active in a course, are submitting their assignments on time and also clarify the doubts they may have.

S.No.	Students enrolled	Students appeared for examination	Top 5%	Gold	Elite	Overall Success percentage
1.	873	105	2	3	54	97.14

4. ECAP Explanation

Engineering College Automation Package software, this aims at immediate availability of Student academic subject related information and availability of data in required formats that Ease the work of staff and management. Here Student can view and download the resources (EBooks, Question banks) uploaded by the faculty**.**

E Books Information & Question Banks Information:



9.5 Career Guidance, Training and Placement (10)

The standard of any educational institution is generally measured by its academic excellence and the success in placements. To be able to get placed in various companies, students are required to have a good grip and proficiency in Aptitude, Reasoning, Verbal and Communication Skills.

It is to meet this vital requirement and the competitive standard and achieve this target, the Training placement & Career Guidance Cell was established with team of potential and professional trainers in the areas of Aptitude, Reasoning, verbal and Soft Skills.

The prime objective of the Training and Placement Career Guidance Cell is to create premier opportunities for the SVIET students by promising jobs in reputed organizations. To accomplish this objective, the Placement Cell identifies corporate companies in various sectors and initiates the process of building a mutually rewarding relationship with them. The Placement Cell has been instrumental in associating itself with corporate giants to conduct various Industry Institute initiatives. Various technical and literary events are conducted to practically enhance their communicative abilities and to equip them also with a holistic potential which will help them to face emerging challenges in the context of globalization. Over the time it has proved itself most successful with outstanding success in the ascendance of success in placements.

1. FUNCTIONS OF THE TRAINING CELL:

1. Collects and maintains the students' database for the purpose of T&P activities
2. Enables the training need analysis for all the students basing on the same, plans for imparting the necessary skills such as soft skills and technical skills.
3. Arranges for an interaction with industry and bridges the gap between Institute and industry.
4. Arranges the special sessions for providing the contemporary trends and developments in the technology and tools to the students
5. The Training Cell conducts lectures on personality development, communication skills and conducts mock sessions for improving presentation skills.
6. Assists companies in the recruitment process by conducting interviews, group
7. Discussions, Written tests etc. in the Campus. Training given exclusively to the students for the MNC's

PLACEMENT CELL:

8. Collects and maintains the students' database for the purpose of Placement activities
9. Holds the responsibility for identifying placement opportunities across reputed Organizations.
10. Inviting the corporate companies to the College Campus for recruitments
11. Coordinates with Training Head for identifying the training requirements related to Soft and communication skills
12. Conducts Campus Drives with help of department coordinators and volunteers

CAREER GUIDANCE CELL:

13. To give training and guidance to students on career related matters and assist them in exploring new opportunities.
14. To organize Career guidance and motivational lectures by Alumni, entrepreneurs, External guests and faculty
15. To display various job advertisements coming in employment news, opportunities and Career columns in leading news papers.

Functions	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
F1	-	-	3	-	-	-	1		2	3		2
F2	-	3	-	-	-	-	1		2	3		1
F3	-	3	-	-	-	-	1		2	2		2
F4	-	3	-	2	3	-	1		2	2		2
F5	-	-	-	2	-	-	1		2	3		2
F6	-	-	-	-	-	-	1		3	2		2
F7	-	-	-	2	-	-	1		2	3		2
F8	-	-	3	-	-	-	1		2	3		2
F9	-	-	-	3	-	-	1		2	3		2
F10	-	-	-	2	-	-	1		2	3		2
F11	-	-	-	3	-	-	1		2	3		2
F12	-	-	-	-	-	3	1		2	1		2
F13	-	-	-	-	-	-	1	2	2	3		3
F14	-	-	-	-	-	-	1	2	2	3		3
F15	-	-	-	-	-	-	1	2	2	2		2

2. FACILITIES OF THE CELL

1. Seminar Hall (B1-114) with seating capacity of 200 to conduct Pre-placement Talk
2. Two notice boards are available on the both sides of the room for displaying circulars, updating press clippings & year Planners etc.,
3. One room (B1-007) for training the Group Discussion Activities.
4. 2 LCD projectors for conducting digital classes
5. Motivational posters and images of famous quotes to encourage the students.
6. Integrated Labs with around 100 computers having robust Internet connection for online tests
7. Vast space for offline tests
8. Separate rooms (B1-007) for conduction of Group Discussion and Personal Interview
9. Enthusiastic team of volunteers for assistance

3. MANAGEMENT OF THE CELL

A. COMMITTEE COMPOSITION

The composition of the committee comprises

1.One Training Head
2.Four Faculty members of T&P Cell
3 One faculty member and two students from Department of Mechanical Engineering.
4.One faculty member and two students from Department of Electronics and Communications Engineering.
5.One faculty member and two students from Department of Civil Engineering.
6.One faculty member and two students from Department of Computer Science Engineering.
7.One faculty member and two students from Department of Electrical and Electronics Engineering

B. COMMITTEE MEMBERS

S.NO	NAME	DESIGNATION & DEPARTMENT	POSITION
1	D Adithya Kumar	Associate Professor, EEE	Coordinator
2	K.Sreekanth	Asst. Professor, S&H	Member
3	J S PhaniRam	Asst. Professor, CSE	Member
4	G Srikanth	Asst. Professor, S&H	Member
5	R Jithin Kumar	Asst. Professor,EEE	Member
6	K Soma Sekhar	Asst. Professor, CE	Member
7	A Srinivasa Rao	Asst. Professor, EEE	Member
8	N Chandra Sekhar Reddy	Asst. Professor, ECE	Member
9	K Venkatesh	Asst. Professor, CSE	Member
10	K Ravi	Asst. Professor, ME	Member
11	Majeti Sruthi Madhuri	15MQ1A0102	Student Member
12	Gudavalli Vamsi Krishna	16MQ5A0110	Student Member
14	Putta Hema Devika	15MQ1A0210	Student Member
15	Vikruthi Naga Venkata Indra Prasad	16MQ5A0216	Student Member
16	Katta Naga Raju	16MQ5A0305	Student Member
17	Yarlagadda Ajay Babu	15MQ1A0352	Student Member
18	Chilamkurthy Lakshmi Thanuja	15MQ1A0449	Student ember
19	Ambati Pavan Kumar	15MQ1A0482	Student Member
20	Jalluri Naga Venkata Haneesha	15MQ1A0576	Student Member
21	Jupudi Manikanta Swamy	16MQ5A0501	Student Member

4. ROLES & RESPONSIBILITIES OF COMMITTEE MEMBERS

A. COORDINATOR

1. To coordinate Training activities in accordance with the student's ability and their demands.
2. To coordinate internal resources available in the form of teaching expertise of teachers for enhancing the knowledge and skills of the students in implementation of the scheme.
3. To coordinate various external resources available in the forms of personality development programs & Student Interactive Sessions.
4. To coordinate with company delegates and inviting them to College for recruiting students.
5. To Schedule the Recruitment-drive based on HR Availability
6. To disclose the list of students eligible for the campus drive
7. To Coordinate during campus drive
8. To collect results from company and issuing the offer letters to the selected candidates
9. To coordinate internal resources available for the smooth conduction of the Recruitment Drive
10. To collect the feedback with Stake Holders and forward it to training department
11. To coordinate Career Guidance activities in accordance with the student's ability and their demands.

B. FACULTY MEMBER

1. To prepare orientation programme for the students, identifying their skills required for achieving the objectives of the scheme.
2. To promote community education through meetings, talks, news bulletins and discussions.
3. To help in formulating Training programmes this will have direct relationship with the academic curriculum.
4. To inform the students about campus drive schedules.
5. To organize the campus drive with help of volunteers
6. To assist companies in the recruitment process in interviews, group Discussions, Written tests on the Campus.

C. STUDENT MEMBER

1. Understand the community in which they work
2. Understand themselves in relation to their community
3. Identify the needs and problems of the community and involve them in problem-solving
4. Utilize their knowledge in finding practical solutions to individual and community problems
5. To inform the students about campus drive schedules
6. To inform the students about mandatory credentials as per the placement cell instruction
7. To check the process of student registrations for the drive and other miscellaneous formalities

EVENTS /ACTIVITIES ORGANIZED TRAINING (A.Y :: 2017-18)

S. No	Date	Name of the Events	No of Participants	Remark
1	26-02-2018 to 06-03-2018	Training Conducted for INFOSYS drive	29	Training program conducted for IV - CIVIL, MECH EEE, ECE & CSE students
2	22-02-2018 to 28-02-2018	Training Conducted for RISING STAR MOBILES Drive	48	Training program conducted for IV – EEE & ECE students
3	04-12-2017 to 09-12-2017	Training Conducted for BIZTIME Drive	50	Training program conducted for IV-CSE students
4	12-12-2017 to 02-01-2018	Training Conducted for EDUREKHA Drive	19	Training program conducted for IV-CSE students
5	11-10-2017 to 14-10-2017	Training Conducted for APPS ASSOCIATES off campus drive	7	Training program conducted for IV-CSE students
6	11-09-2017 to 16-09-2017	Training Conducted for WEBNOO drive	10	Training program conducted for IV – ECE & CSE students
7	04-09-2017 to 05-09-2017	Training Conducted for MAPLE drive	17	Training program conducted for IV- CIVIL students
8	27-08-2017 to 31-08-2017	Training Conducted for ELEATION drive	39	Training program conducted for IV- CIVIL & MECH students
9	25-09-2017	CO CUBES PRE-ASSES ONLINE Assessment test-1	156	Test conducted for IV - EEE, MECH, ECE & CSE registered students
10	22-09-2017	AMCAT -ASSES ONLINE Assessment test-2	134	Test conducted for IV – EEE, ECE & CSE registered students
11	06-02-2018	CO CUBES PRE-ASSES ONLINE Assessment test-2	147	Test conducted for IV - EEE, MECH, ECE & CSE registered students
12	02-02-2018	AMCAT -ASSES ONLINE Assessment test-3	69	Test conducted for IV – EEE, ECE & CSE registered students
13	29.07.2017	TCS CodeVita-2018 Contest Round 1	94	Online Coding Challenge Conducted for CSE registered Students

EVENTS /ACTIVITIES ORGANIZED CAREER GUIDANCE (A.Y :: 2017-18)

1	30-06-2017	Interactive session with Mr. Chaitanya Vaddi, CEO& Founder, CVCORP, Hyderabad	95	Interactive Session Conducted for IV- EEE, ECE & CSE Students
2	11-12-2017	Interactive Session with Mr. Abdul Director BIZTIME, Bangalore	78	Interactive Session Conducted for III - ECE & CSE Students

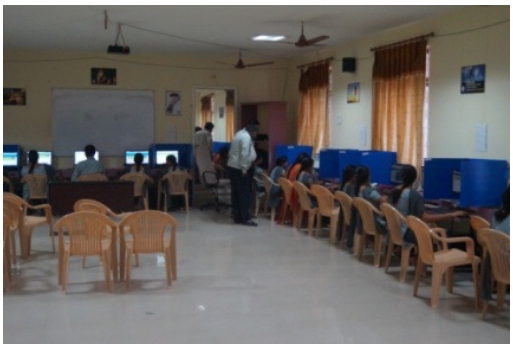
3	05-02-2018	Interactive Session with Mr Prasad, Director EE SCIENCE & TECHNOLOGICAL SERVICES ,Hyderabad	21	Interactive Session Conducted for III - EEE & ECE Students.
4	08-09-2017	Interactive session by Mr. D Dayanidhi, Technical lead, JUSPAY, Bangalore	34	Interactive Session Conducted for III CSE Students

S. No	Date	Name of the event	No of Participants	Remark
TRAINING Academic Year :2016-17				
1	27/04/2016 to 23/05/2016	Campus Recruitment Training Programme 2017 (Summer Special Class - Aptitude, Reasoning, verbal & softskills)	100	ALL BRANCHES
2	24/05/2016 to 18/06/2016	Campus Recruitment Training Programme 2017 (Summer Special Class - Technical Skills C, Cpp)	64	ALL BRANCHES
3	23/07/16 to 30/07/2016	TCS CODE VITA first Round Training by APSSDC (Including Codevita First Round Exam)	64	EEE,ECE & CSE
4	18/08/16 to 20/08/16	TCS CODE VITA Second Round Training by APSSDC (Including Codevita Second Round Exam)	8	Codevita First Round Selected Student
5	23-11-16 to 24-11-2016	Special Training Classes for Mobius Company	73	Training Conducted for Eligible students of EEE,ECE & CSE
CAREER GUIDANCE Academic Year :2016-17				
1	16/07/2016	Motivational Seminar By Squdrenleader Jayasimha	283	III & IV Years All Branches
2	22/10/2016	Interactive session by Mr.K N Anand Group Director -Hr Mobius Knowledge Service	95	All Branches
3	28-01-2017	Interactive Session with SAP team , Mr Venkata Subba Rao Tech Mahindra For 2018 batch students	116	EEE,ECE & CSE
4	11/3/2017	Interactive session with IBM International Team For 2018 batch students	135	EEE,ECE & CSE
5	12/3/2016	Interactive session with III Forum's Andhra Chapter Third Event For 2018 batch students	121	III & IV Years All Branches

S. No	Date	Name of the event	No of participants	Remark
TRAINING - AY 2015-16				
1	30-09-2015 to 04-10-2015	Verbal Training Program by seventh sesnse Banglore	118	Training Conducted for Interested EE,EC,ME,EC & CSE students
2	14-08-2015 to 21-08-2015	Odessy Technologies Special Training Classes	150	Training Conducted for Eligible EE,EC,ME,EC & CSE students
3	09-12-2015 to 16-12-2015	Aptitude Reasoning & Technical Training Classes by Seventh Sense Banglore	112	Training Conducted for Interested EE,EC,ME,EC & CSE students
4	30-10-15 to 11-02-15	Amcat Special Training Classes	92	Training conducted for registred EEE,ECE & CSE students
5	16-12-2015 to 18-12-2015	Apps Associates Special Training Classes	22	Training Concudted for Eligible CSE students
6	21-12-2015	Full Creative Company Special Training Class	48	Training Conducted for Eligible ECE & CSE Students
7	2-01-2016 tO 07-01-2016	Infosys Special Training Classes by Seventh Sense Banglore	47	Trainig Conducted for eligible EE,EC & CSE Students
8	19-01-2016 to 20-01-2016	Infoview Company Special Training Classes	35	Trainig Conducted for eligible EE,EC & CSE Students
9	09-02-2016 to 12-02-2016	Capgemini Special Training Classes	6	Trainig Conducted for eligible EE,EC & CSE Students
10	09-02-2016 to 26-02-2016	TCS Special Training Classes	92	Trainig Conducted for eligible EE,EC & CSE Students
11	18-02-2016 to 29-02-2016	Infoview Company Round 2 Special Training Classes	12	Trainig Conducted for eligible EC & CSE Students

CAREER GUIDANCE AY 2015-16				
1	20-07-2015	Intaractive Session Mr Eswar,AVISO, GM	99	Ineractrive Session Condcuted for Interested Students of EEE,ECE & CSE
2	31-10-2015	Interctive Session with Mohan Das Genral Manager	128	Ineractrive Session Condcuted for Interested Students of CIVIL & MECH
3	18-12-2015	Interctive Session with Mr Dinesh Project Manager COUNTUS Company	80	Ineractrive Session Condcuted for Interested Students of EEE,ECE & CSE
4	23-12-2015	Interactive Session with K KALYAN RAM SENIOR PROGRAM MANAGER MICROSOFT	127	Ineractrive Session Condcuted for Interested Students of III & IV Years EEE,MECH,ECE & CSE
5	29-12-2015 to 30-1-2015	2days Soft Skills workshop by John Kenedy Babu for JKC Registred Students	138	Work Shop Condcuted for Interested Students of EE,EC,MECH & CSE

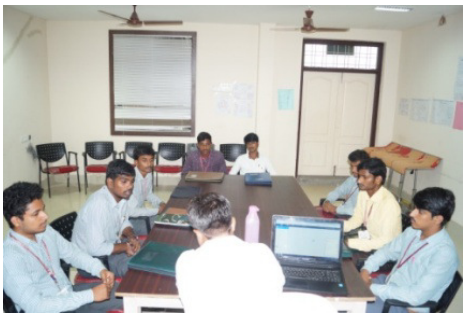
7. YEARLY PHOTO GALLERY – TRAINING



Training Conducted for APPS ASSOCIATES off campus drive

Training Conducted for INFOSYS drive

Conducted Training Program TCS Eligible Students



Training Conducted for Maple drive

YEARLY PHOTO GALLERY – CAREER GUIDANCE

Interactive Session with Mr. Abdul Director BIZTIME, Bangalore on 11-12-2017

Interactive session by Mr.K N Anand Group Director -Hr Mobius Knowledge Service on 22/10/2016

Interactive session with IBM International Team For 2017 batch students on 11/3/2017

9.6. Entrepreneurship Cell (5)

Introduction

Entrepreneurship Development Cell (EDC) is established and various events will be organized to know the importance of being an entrepreneur and ways to get financial assistance to become an entrepreneur and to motivate students to start their own venture instead of queuing up in the job market.

Functions of the cell:

1. To organize Entrepreneurship awareness camps, Entrepreneurship development programs.
2. To guide & assist prospective entrepreneurs on various aspects such as preparing project reports, obtaining project approvals, loans and facilities from agencies of support systems and information on various technologies.

3. To organize guest lectures, webinars, seminars etc. for promotion and growth of Entrepreneurship.
4. To arrange visits to industries for prospective entrepreneurs.
5. To extend necessary guidance and escort services to the trainees in obtaining approval and execution of their projects.
6. To render advice to stick enterprises and assist the entrepreneurs in rehabilitating them.

Facilities of the cell:

1. One Discussion room (B1-009B).
2. Two internet connected PCs.
3. MOU (Memorandum of Understanding) with Incubators.
4. We provide maximum infrastructural facilities to the students, including various laboratories, hardware and software.
5. Special focus will be on early stage ideas and innovations which can be definitely converted to the products.
6. To arrange interaction with entrepreneurs and create a mentorship scheme for student entrepreneurs.

Management of the cell:

Cell comprises of one senior faculty as institution level coordinator, faculty as committee members along with student coordinators from each department.

S.No	Name of the Member	Department	Role
1	K.P.R.R.Raju	ECE	Co-Ordinator
2	M.Neeraj Kumar	Civil	Member
3	K.V.N.Bhaskar	EEE	Member
4	N.Venu	ECE	Member
5	K.Ravi	Mech	Member
6	V Jayasri	ECE	Student Member
7	Ch.Swarna Latha	CSE	Student Member
8	Ch.Balarama Krishna	Mech	Student Member

YEAR PLANNER – MAPPING WITH PO – ENTREPRENEUR DEVELOPMENT CELL (A.Y :: 2017-18)

S.NO	NAME OF THE ACTIVITY	ACTIVITY DATE	Remarks
1.	Guest Lecture	26-10-2017	Guest Lecturer on Entrepreneurship Development
2	Industrial Visit	14-03-2018	Industrial Visit on Entrepreneurship Development

Year Planner	PO1	PO2	P03	P04	P05	P06	P07	P08	P09	P10	P11	P12
1	-	-	-	-	-	2	2	2	2	2	3	2

2	**-**	**-**	**-**	**-**	**-**	2	2	3	2	2	2	2

S. No	Date	Name of the Events	No of Participants	Remark
1.	20-10-2017	Guest Lecture	150	Final year ECE, CSE and Mechanical students attended a Guest Lecturer on "Entrepreneurship Development"
2	10-02-2018	Industrial Visit	90	Industrial Visit to "EFFTRONICS" Vijayawada as part of Entrepreneurship Development.

Guest Lecturer on "Entrepreneurship Development"

Industrial Visit to "EFFTRONICS" Vijayawada

9.7. Co-Curricular And Extra –Curricular Activities (10)

Co-Curricular Activities:

The Department Association Cell has been conducting the various activities for all years of students to motivate them to excel in the communication and presentation skills. DAC motivates the students to actively participate in various events like Quiz Paper presentation, Poster presentation competitions inside the college. DAC schedule events in consultation with the Student's representatives.

Facilities of the Committee:

1. The Institution is provided with an air-conditioned Seminar Hall with a fully sound proof set up and equipped with latest technology for all types of audio/video presentations.
2. Class rooms

Management of the Committee:

The committee composition is as follows

S.No	Name of the Member	Department	Role
1	A.Chandra Suresh	E.C.E	Co-Ordinator
2	P.Soma sekahar	CIVIL	Member
3	P.Srikanth	EEE	Member
4	K.Ravi	MECH	Member
5	P.Annapurna	E.C.E	Member
6	M.Srinivasa Rao	C.S.E	Member
7	M.Sruthi Madhuri	CIVIL	Student Member
8	G.Vamsi Krishna	CIVIL	Student Member
9	D. Jagadeeswari	EEE	Student Member
10	S. Naga bhanu	EEE	Student Member
11	Nnd Ayyapappa	MECH	Student Member
12	Sai Mohan	MECH	Student Member
13	K.Srininivas Rao	ECE	Student Member
14	D.Naga Swetha	ECE	Student Member
15	B.Kalpana	CSE	Student Member
16	P.Srikanth	CSE	Student Member

Year Planner with relevance to PO's

S.no	Name of the event	DATE	Relevance to PO's
1	Fresher's day	July 2017	PO6,PO9,PO10
2	Essay writing	August 2017	PO2,PO8,PO9,PO10
3	ENGINEER'S DAY	15th September 2017	PO6,PO9,PO10
4	Elocution	October 2017	PO6,PO9,PO10
5	QUIZ	December 2017	PO6,PO8
6	Youth day	12th January 2018	PO6,PO9,PO10
7	Video making	February 2018	PO2,PO8,PO9,PO10
8	Farewell Party	March 2018	PO6,PO9,PO10

CSE

Sr.No.	NAME OF THE EVENT	DATE	No of participants
1.	Project Expo	15-03-2018	30
2	Women's day	08-03-2018	80
3	Hack with Hint	06-03-2018	25
4	Technical Jam	01-03-2018	56
5	Paper presentation	27-02-2018	40
6	Tech Geeks	09-02-2018	20
7	Code hunt competition	28-12-2017	25
8	Innovation for Digitalization of India (poster)	08-12-2017	26
9	Quiz Master	23-09-2017	80

CIVIL

S.No	Name of the events	DATE	No of Participants
1.	QUIZ	22-12-2017	15
2.	ENGINEER'S DAY	15-09-2018	150
3.	FAREWELL DAY	07-03-2018	150
4	YOUTH DAY	12-01-2019	150

EEE

S.NO	NAME OF THE EVENT	DATE	No of Participants
1	Quiz	15-12-17	30
2	Poster presentation	19-1-18	20
3	Paper presentation	16-2-18	20
4	Video making	16-3-18	8

MECH

S.No	Date	Name of the Event	No of participants
1.	5-8-17	ELOCUTION	10
2.	5-1-18	DEBATE	12
3.	20-1-18	ESSAY WRITING	15
4.	4-2-18	QUIZ	20
5	28-8-17	SEMINAR	100
6	5-9-17	TEACHERS DAY	120
7	15-9-17	ENGINEERS DAY	120
8	15-3-18	FAREWELL DAY	100
9	12-1-18	YOUTH DAY	120
10	24-6-17	FRESHERS DAY	80

ECE

S.No	Date	Name of the Event	No of participants	Remarks
1.	**27-07-2017**	Freshers Day	200	Motivational speech given by Senior students
2.	**28-07-2017**	Elocution	20	What is your favourite career field, something that make all the difference
3.	**22-09-2017**	Debate	25	Indian Economy
4.	**27-10-2017**	Essay Writing	50	How are graduate system compare to other countries
5	**22-01-2018**	Quiz	23	Current affairs
6	**22-02-2018**	Seminar	19	Interested topics

7	**05-09-2017**	Teachers day	210	Speech given by Senior students
8	**15-09-2017**	Engineers day	280	Speech given by Senior students
9	**03-03-2018**	Farewell day	195	Suggesions given by Senior students
10	**12-01-2018**	Youth Day	290	Speech given by Senior students

Photo Gallery

EEE DEPARTMENT CONDUCTED PAPER PRESENTATION

CIVIL DEPARTMENT CONDUCTED PROJECT EXPO

EEE DEPARTMENT CONDUCTED POSTER PRESENTATION

CIVIL DEPARTMENT CONDUCTED POSTER PRESENTATION

CSE DEPARTMENT CONDUCTED PAPER PRESENTATION

CSE DEPARTMENT CONDUCTED QUIZ

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<u>ECE DEPARTMENT CONDUCTED YOUTH DAY</u></td>
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<u>ECE DEPARTMENT CONDUCTED POSTER PRESENTATION</u></td>
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<td> 
<u>ECE DEPARTMENT CONDUCTED QUIZ PRESENTATION</u></td>
<td> 
<u>ECE DEPARTMENT CONDUCTED FRESHERS DAY</u></td>
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Extra-Curriculum Activities

Arts and Cultural Activities

Every academic year college organizes a sports and cultural events for students. All the students are participated very actively. In this program spot events are also conducted in different branches to encourage the students. Prizes are given to the winners of various competitions that are conducted during the event.

Facilities of the Cell:

1. Seminar Hall (B1-114)
2. Dias & Podium
3. Over Head Projector, Audio and video system.
4. Speakers, cord less mikes, stand Mikes and collar mikes
5. Systems with Internet connection.
6. Printer & scanner.
7. Digital camera

Events/ Activities of the cell:

1. Essay Writing
2. Extempore (Telugu,English)
3. Singing(Solo)
4. Singing (Group)
5. Instrumental Music
6. Dance (Solo).
7. Dance (Group).
8. Pot Decoration
9. Debate
10. Mimicry
11. Mime
12. Skit

Art, Literary and Cultural Event:

A.Y 2017-18

Sr. No.	Name of the event organised	Date	No of students participated	Venue
1	ART & LIFE SKILLS	12-01-2018	50	College campus
2	DANCE COMPITITION	23-03-2018	25	College campus
3	SINGING COMPITITION	23-03-2018	10	College campus
4	POSTURES DISPLAYING	12-01-2018	20	College campus
5	SKITS ON STAGE	05-09-2017	30	College campus
6	MIMICRY	23-03-2018	10	College campus
7	MONO-ACTION	23-03-2018	05	College campus
8	RANGOLI COMPITITION	12-01-2018	50*2	College campus
9	ESSAY-WRITING COMPITITION	15-09-2017	50	College campus
10	ELOCUTION	15-09-2017	50	College campus
11	EXTEMPORE	15-09-2017	50	College campus
12	GROUP DISCUSSIONS.	15-09-2017	30	College campus

Technical fest

Sr. No.	Name of the event organised	Date	No of students participated	Venue
1	Poster presentation	12-01-2018	30	College campus

A.Y 2017-18

Sr.No.	Name of the event organised	Date	No of students participated	Venue
1	Skit competition	05/09/2017	30	College campus
2	Literary competition	15/09/2017	230	College campus
3	Art exhibition	12/01/2018	50	College campus
4	Poster presentation	12/01/2018	20	College campus
5	Women's Day	08/03/2018	160	College campus
6	Dance competition	23/03/2018	30	College campus
7	Singing competition	23/03/2018	30	College campus
8	Mimicry	23/03/2018	20	College campus
9	Mono action	23/03/2018	25	College campus

	
CONDUCTED DANCE COMPETITION ON ANNUAL DAY	CONDUCTED DANCE COMPETITION ON ANNUAL DAY
	
DANCE CONDUCTED ON ANNUAL DAY CELEBRATIONS	SKIT CONDUCTED ON ANNUAL DAY CELEBRATIONS
	
ESSAY WRITING	ESSAY WRITING

TELUGU AMMAYI

ESSAY WRITING

GOT 1ST PRIZE IN POSTER PRESENTATION

GROUP DISCUSSION

RANGOLI

Bhogi Mantalu

Sports & Games:

Physical fitness plays an important role in developing the overall personality of a student since a physically balanced student is mentally balanced too. SVIET equally emphasizes the need to develop physical activities and encourages Sports and games making it an integral part of the curriculum various sports facility is provided to the students within the campus. Various sports

competitions such as inter departmental, Inter collegiate, etc help in developing team spirit among students. Their interpersonal relationship is enhanced a very healthy manner.

Students are provided with Travel Concessions, Physical Director of college is deputed to accompany students participation in outside and also registration fee is sponsored if any. Students representing university in various sports / Games will be honoured with trophies and certificates.

Functions of the cell:

The Games & Sports Cell shall be responsible for all the sports and games related activities within and outside campus concerned with the college. The coordinator of the Games & Sports Cell shall organize, coordinate and execute all the sports and games related activities both within as well as outdoor of the college. The responsibilities and functions shall include (but not limited to) the followings.

i. To encourage the students to participate very actively in organising and conducting various sports and games in the college.
ii. To motivate the students to actively participate in various sports and games competitions outside the college.
iii. To develop the spirit of sportsmanship among students.
iv. To make the students aware about the benefits of physical exercise to maintain a good physical and mental health
v. To sort out any sports related issues.
vi. To schedule events/planner for the academic year in consultation with the Student's representative and management.
vii. To inculcate the value of keeping good health and mind by participating in lectures / seminars related to Sports & Games.
viii. To develop students with a variety of activity that will enhance lifelong learning and participation

Functions- PO mapping:PO/FO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
F1						3	2	3	3	3	2	2
F2						3	2	3	3	3		2
F3						3	2	3	3	3		2
F4						3	2	3	3	3	1	3
F5						1	1	3	3	3		1
F6						1	1	3	3	3	3	2
F7						3	1	3	3	3	1	3
F8										2	1	3

The Games & Sports Cell Coordinator shall work in coordination with other Cell Coordinators and HODs. Further, he shall be responsible for suggesting budgetary provision for activities related to the Cell.

Committee Members

S.NO	NAME	DESIGNATION & DEPARTMENT	POSITION
1	Dr. A.B.Srinivasa Rao	Principal	Chairman
2	CH.Giri Phani Kumar	Asst. Professor, CE	Convener
3	K.V.G.Sree Ram	Asst. Professor, CE	Member
4	A.Srinivasa Rao	Asst. Professor, EEE	Member
5	A.Rajesh	Asst. Professor, ME	Member
6	B.Phanindra Kumar	Asst. Professor, ECE	Member
7	Md.Ahmed	Asst. Professor, CSE	Member
8	P.Seshu Babu	Assoc. Professor, S&H	Member
9	Chinnakesava	Physical Director	Member
10	V.V.Muralinadh	Physical Director	Member
11	T.Abinay CIVIL	14MQ1A0152	Student Member
12	A.Likitha	14MQ1AO101	Student Member
13	P.Sridhar ECE	14MQ1A0492	Student Member
14	K.Vedavathi	14MQ1A0471	Student Member
15	CH.Subramanayam EEE	14MQ1A0208	Student Member
16	S.rajeswari	14MQ1A0202	Student Member
17	M.Murali krishnaCSE	14MQ1A0587	Student Member
18	V.Jothirmai	14MQ1A529	Student Member
19	S.Venu MaheshMEC	14MQ1A0341	Student Member
20	T.Veera Badrachari	15MQ5A0314	Student Member

Facilities of the Cell:

1. Sports Room (B2-006):

Number	Dimensions
1	9.15m x 5.5m

2. Sports Material:

Outdoor Facilities:

Sl. No	Name of the Facility	Quantity	Dimensions
1	Basket ball	1	28mtsx15mts
2	Cricket net practice	1	100ft
3	Ball badminton	1	24mts x12mts
4	Volley ball	2	18mts x9mts
5	Throw ball (women)	1	60ftx40ft
6	Kabbadi	2	13mts x10mts
7	Tennikoit	2	12.20mts x5.50mts

Indoor Facilities:

Sl. No	Name of the Facility	Quantity
1	Chess	8
2	Carroms	6
3	Table –Tennis	1

3. Athletics:

Sl. No	Name of the Facility	Quantity
1	Discous throw	2
2	Shotput	2
3	High jump apparatus	1 Set
4	Running	100mt

Year planner

S.No	Tentative Date	Name of the events
1	June, 2017	Interest student and Identify the talent player from various department to SPORTS & GAMES
2	July,2017	Train the student to SPORTS & GAMES
3	August,2017	Seeking permission from Jntuk (slection trial prospal to conduct on the campus)
4	29 August,2017	National Sports Days
5	September2017 to Decmber2017	Train the student to SPORTS & GAMES and participate to JntuK Selection Trials
6	Jan 2018	Practice to JntuK C-Zone men tourament
7	February,2018	Participate to JntuK C-Zone men tourament
8	February,2018	Annual Day Sports & Games
	February,2018	Ball Badminton Tournament(Boys)
		Table Tennis Tournament(Boys)
		Kabaddi Tournament (Boys)
		Volley ball Tournament (Boys)
		Basket ball Tournament (Boys)
		Chess Tournament (Boys & Girls)
		Throw ball Tournament (Girls)
		Tennicoit Tournament (Girls)
		Carroms Tournament (Girls)
		Shotput Tournament (Girls)
9	March, 2018	Annual Day Distribution of certificates to Winners and Runners for Boy's & Girls

Events / Activities Organized

S.NO	NAME OF THE EVENT	DATE	DEPARTMENT(S)	No of Students

				Participated
1	Kabaddi (Boys)	23-3-2017	CE,ME,EEE,ECE,CSE	90
2	Volley ball(Boys)	24-3-2017	CE,ME,EEE,ECE,CSE	81
3	Basket ball(Boys)	25-3-2017	CE,ME,EEE,ECE,CSE	30
4	Shot-put(Boys)	25-3-2017	CE,ME,EEE,ECE,CSE	35
5	Throw ball(girls)	23-3-2017	CE,ME,EEE,ECE,CSE	36
6	Tennicoit(Girls)	24-3-2017	CE,ME,EEE,ECE,CSE	14
7	Carroms(Girls)	25-3-2017	CE,ME,EEE,ECE,CSE	18
8	Shot-put(Girls)	25-3-2017	CE,ME,EEE,ECE,CSE	35

List of Students participation outside of college

S. No	Date	Name of the student	Regd.No	Name of the event	Venue
1	16-10-2017	P.Krishna Murthy	17MQ1A0317	Kabbadi-Jntuk Selection Trial	Gudlavalleru Engineering college
2	22-12-2017	CH.MAHESH	15MQ1AO109	EenaduCricket Champions cup 2017	V R Siddhardha Engineering College Vijayawada
		P.RUSHIKESH	15MQ1AO336		
		G.SAI KRISHNA	15MQ1AO115		
		P.SANTOSH	15MQ1AO491		
		B.VAMSI	17MQ1AO5B1		
		E.PHANI KIRAN	16MQ1AO441		
		P.SAI KUMAR	16MQ5AO314		
		K.SESHU	15MQ1AO317		
		D.PRAVEEN	15MQ1AO113		
		S.K.AMAR	15MQ1AO130		
		K.PAVAN KUMAR	17MQ1AO437		
		A.VAMSI KIRSHNA	17MQ1AO101		
		P.GURUPAVAN	18MQ1AO425		
		K.HARIHARAN	18MQ1AO433		
		P.KRISHNA MURTHY	17MQ1AO317		
3	23-12-2017	J.L.V.TEJA	15MQ1AO316	Hockey-Jntuk Selection Trial	Baba Institute of Technology & science-vizag
		P.RUSHIKESH	15MQ1AO336		
4	28-1-2018 TO 30-1-2018	Kabbadi		Kabadi & Volley ball - Jntuk C Zone Tournment	P V P Siddhardha Engineering College
		B.VENKANA BABU	15MQ5AO302		
		K.PAVAN	16MQ5AO209		

		KUMAR			
		P.KRISHNA MURTHY	17MQ5AO317		
		T.SRINIVASA RAO	15MQ1AO226		
		K.GANI KUMAR	15MQ1AO221		
		P.SAI VAMSI	17MQ1AO5B1		
		K.MAHESH	14MQ1AO585		
		P.SRIDHAR	14MQAO492		
		G.RAVI KUMAR	17MQ1AO487		
		K.RAJESH	16MQ5AO208		
		N.SAI KRISHNA	16MQ5AO309		
		CH.MANIKANTA	14MQ1A0A116		
		VOLLEY BALL			
		K.NAGA SRI AKHIL	14MQ1Q0583		
		G.BALA NAGA HAR KISHORE	14MQ1A0312		
		B.VENKANA BABU	15MQ5A0302		
		P.GOWITHAM	14MQ1A0543		
		K.MAHESH	14MQ1A0585		
		P.SRIDHAR	14MQ1A0492		
		K.PAVAN KUMAR	16MQ5A0209		
		K V V SATYANARAYANA	16MQ1A0112		
		G.NAGA KANNESWARA RAO	15MQ5A0213		
5	15-2-2018	K.N.S.AKHIL	14MQ1A0583	National level fest volley ball	Gudlavalleru Engineering college
		V.GOWITHAM	14MQ1A0543		
		K.MAHESH	14MQ1A0585		
		B.VENKANA BABU	15MQ5A0302		
		P.SRIDHAR	14MQ1A0492		
		G B N H KISFHORE	14MQ1A0312		
		K.PAVAN	16MQ5A0209		
		S K SUDHEER	14MQ1A0590		
		S.SOWMYA	17MQ1A0422		

Photographs

	
Kabaddi	**Table Tennis**
	
Volley Ball	**Throw ball**
	
Basket Ball	**Carroms**

National Service Scheme

Functions of the Cell

1. Developing the civic and social responsibility.
2. Utilizing the knowledge in finding practical solutions to individual and community problems.
3. Developing the required competence to mingle with others and sharing the responsibilities.
4. Making to obtain the skills for mobilizing the community participation.
5. Preparing the students to acquire leadership qualities and democratic attitudes.
6. Developing the strengths to meet emergencies and natural disasters.
7. Create awareness among the public about the Government Schemes for their welfare.

Functions- PO mapping

Functions	PO1	PO2	P03	P04	P05	P06	P07	P08	P09	P10	P11	P12
F1						**2**	**3**	**3**		**2**	**1**	**1**
F2									**3**			
F3									**3**			
F4										**3**		
F5									**3**			
F6							**3**			**2**	**1**	
F7												**2**

Facilities of the Cell:

1. One room (B1-312) for the students and faculty members to discuss about the activities.
2. Having a good no.of chairs and space to discuss / conduct the committee meetings.
3. Motivational posters and images of philanthropists to encourage the students for social service. Care must be taken to see that necessary facilities are available to girl students to maintain their privacy and meet their needs.
4. Transportation**.**
5. Food and accommodation.

Management of the Committee:

The committee composition is as specified below

S.NO	NAME	DESIGNATION & DEPARTMENT	POSITION
1	**Dr. A.B.Srinivasa Rao**	Principal	Chairman, NSS
2	**P.SatyaNarayana**	Asst. Professor, ME	NSS Programme Officer
3	K.Pithamber	Asst. Professor, ECE	Member
4	P.Siva Naga Raju	Asst. Professor, CSE	Member
5	K.Soma Sekhar	Asst. Professor, CE	Member
6	A.Srinivasa Rao	Asst. Professor, EEE	Member
7	T.Eswara Rao,	Asst. Professor, ME	Member
8	B.Srinivasa Rao,	Asst. Professor, S&H	Member

9	Ch. Ajay	16MQ1A0104	Student Member
10	Ch.Mahesh	15MQ1A0109	Student Member
11	K.Pravallika	16MQ1A0205	Student Member
12	V.N.V.Indra Prasad	15MQ1A0216	Student Member
13	Y.N.V.S.Vara Prasad	16MQ1A0334	Student Member
14	N.N.D.Ayyappa	15MQ1A0332	Student Member
15	G.P.V.S.Shanmukhi	16MQ1A0415	Student Member
16	V.Srujana Sri	16MQ1A0485	Student Member
17	S.Bhavani	16MQ1A0592	Student Member
18	A.Vikas Konda	16MQ1A0547	Student Member
19	K Lakshmi Venkat	17MQ1A0110	Student Member
20	G Geepthika Nandini	17MQ1A0202	Student Member

Roles & Responsibilities of Committee Members

Roles & Responsibilities of NSS Programme Officer:

- To coordinate NSS activities in accordance with the students' ability and community demands.
- To coordinate internal resources available in the form of teaching expertise of teachers for enhancing the knowledge and skills of the students in implementation of the scheme; and
- To coordinate various external resources available in the forms of government services; welfare agencies and voluntary bodies for the success of the NSS programme.

Roles & Responsibilities of Faculty Members:

- To prepare orientation programme for NSS volunteers, explain them about the concept of social service, and teach them methods and skills required for achieving the objectives of the scheme;
- To promote community education through meetings, talks, news bulletins discussions etc.; and
- To help in formulating NSS programmes which will have direct relationship with the academic curricula.

Roles & Responsibilities of Student Members:

- Understand the community in which they work
- Understand themselves in relation to their community
- Identify the needs and problems of the community and involve them in problem-solving
- Develop among themselves a sense of social and civic responsibility
- Utilize their knowledge in finding practical solutions to individual and community problems

Records and Registers

The following Records and Registers are to be maintained by the NSS units at the Institution level.

1. Enrolment Register of volunteers.
2. Cash Register.
3. Registers for blood grouping – 8 in number.
4. Minutes Book

Year Planner (2017-18)

S.NO	NAME OF THE ACTIVITY	ACTIVITY DATE
1.	International Yoga Day	21-06-2017
2.	Vanamahotsavam	02-07-2017
3.	Blood Donation Camp	11-07-2017
4.	World Youth Skill Day	15-07-2017
5.	Vanam-Manam	02-08-2017
6.	Independence Day	15-08-2017
7.	Teacher's Day	05-09-2017
8.	International Literacy Day	08-09-2017
9.	NSS Foundation Day Celebrations	25-09-2017
10.	SwachhBharath	01-10-2017
11.	Fire Prevention Day	09-10-2017
12.	World Polio Day	24-10-2017
13.	World AIDS Day	01-12-2017
14.	International Volunteer's Day	05-12-2017
15.	National Youth Day	12-01-2018
16.	National Voters Day	25-01-2018
17.	Republic Day	26-01-2018
18.	International Day Of Zero Tolerance to female genital mutilation	06-02-2018
18.	Women's Day	08-03-2018
20.	World Health Day	07-04-2018

Note: - Dynamic Activities would be done according to the Community demands and needs

Events Organized (2017-18)

S.No	Name of the Activity	Date	No of Students Participated	Organizations Associated	Who are Benefited
1	International yoga day	21-06-2017	120	Divya Yoga Mandir, Machilipatnam	SVIET Staff & Students
2	Distribution of Clothes to poor people	26-06-2017	50	SVIET	Jayanthi Colony, Pedana
3	Anti plastic rally	03-07-2017	90	SVIET	Gokavaram
4	Blood donation camp	13-12-2017	70	SVIET & APVVP, Govt. hospital, MTM	Machilipatnam People
5	Vanam-manam	02-08-2017	50	SVIET	Nandamuru
6	International literacy day	08-09-2017	50	SVIET	Kakarlamudi
7	Eco ganesh idols distributed	12-09-2017	15	SVIET	Pedana Muncipality People
8	Swachhbharath	01-10-2017	90	SVIET NSS Unit	Chinna Nandamuru
9	End polio rally	24-10-2017	75	SVIET, Rotary Club	Nandamuru
10	World AIDS day	01-12-2017	55	SVIET	Madaka village
11	Distribution of fruits to elders	26-01-2018	20	SVIET	Snehalayam, Machilipatnam

Photo Gallery

YOGA Day was celebrated on every year June 21st from 2015onwards. In this connection every year we conduct yoga classes to our students with help of Yoga instructor.	As a responsible citizen of India, we believe the nature is our god. In this connection, every year students of our college will do the plantation activity.
	
Conducted an awareness rally on "AIDS Day" to bring awareness on HIV to all public in madaka village.	Conducted a blood donation camp in association with APVVP, Govt.hospital, Machilipatnam
	
Conducted Swatch Bharath Progamme at Chinna nandamuru	Distributed Fruits and Blankets to elders at Snehalayam oldage home, Machilipatnam
	
Distributed Clothes to Poor people, Jayanthi colony, Pedana	Conducted an awareness rally on "Anti Plastic" to bring awareness on Environment sustainability to

	all public in Gokavaram village.
	
Conducted Vana mahotsavam at Munjuluru Village	Conducted Literacy Programme at Kakarlamudi village
	

CRITERION 10	Governance, Institutional Support and Financial Resources	120

10. GOVERNANCE, INSTITUTIONAL SUPPORT AND FINANCIAL RESOURCES (120)

10.1 Organization, Governance and Transparency (40)

10.1.1. State the Vision and Mission of the Institute (5)

Institute Vision

To emerge as a premier engineering institution in rural India imparting values based education for socio-economic upliftment

Institute Mission

- Provide the most creative learning environment for Technical Excellence of stakeholders
- Promote industry-institute interaction for skill enhancement and to meet the industry needs
- Create an environment to the stakeholders to be good citizens with integrity and morality.
- Committed to improve technical excellence, ethical values continuously.

10.1.2 Governing Body, Administrative setup, functions of various bodies, service rules, procedures, recruitment and promotional policies (10)

Governance: The Promoter Society is the highest authority formed conforming to the statutory regulations of all the regulatory agencies. Governing Body of the Institution is formed fully adhering to the vision and philosophy of the promoter society taking into the statutory regulations of all the regulatory bodies like AICTE, State Government and Affiliating University.

Governing Body:

The Institute shall have a Governing body consisting of nine members from the promoting society, two faculty members, two academicians of high academic excellence, one representative of the state government and one representative from the affiliating university. The principal shall be the member secretary of Governing Body responsible for arranging Governing Body meeting and recording the resolutions of the same. The Governing Body shall meet at least once in a year.

Correspondent

The Correspondent is the chief executive of the Institute. He co-ordinates between the sponsoring Society, Governing Body and the other systems of management in the college. Correspondent shall see

1. To represent SVIET in all transactions with the Governments, statutory bodies, other institutions or individuals concerned in all matters.

2. To authorize a person or a team of persons to represent him at University, CTE, AICTE, SRO and A.P State Government wherever necessary when he cannot attend in person.
3. To activate all the Programs of various cells formed in the Institute.
4. To issue the appointment orders to the Principal, teaching staff and other staff.

5. To sanction all kinds of leaves to the Principal.

6. (a) To open and operate the Bank accounts individually (or) jointly to accommodatethe remittance of the college tuition fee and other fee collected from students.

   (b) To maintain books of accounts in this regard.

7. (a) To maintain the Bank account jointly with Principal for students scholarships And staff salaries.

   (b) To maintain the books of accounts in this regard.

8. (a) To open and operate a bank account jointly with the Principal for special fee

   (b) To maintain the books of accounts in this regard

9. To pay salary bills and other bills of expenditure.

10. (a) Authorized to take decisions on such matters that need immediate compliance of action.

    (b) To present such actions to the Governing Body in the subsequent meetings.

Executive Directors (ED's)

ED'S mainly helps the college in the areas of Development of Education and Growth of Institution and they will be assisting the Correspondent in carrying out the duties assigned to him.

i) ED'S will advise the Correspondent and Principal on the matters, focusing on development of education and growth of the college.

ii) ED'S shall visit various departments and facilities and interact with the in-charges for on-hand assessment of the same.

iii) ED'S shall address the staff, students and other stake holders if required, preferably through Principal.

iv) ED'S shall actively participate in the visits of experts from regulatory authorities / inspection committees and important visitors

v) ED'S shall represent the college in various forums duly authorized by the Correspondent.

vi) ED'S shall involve in any other work incidental to carrying out the above functions

vii) ED'S shall also involve any other work of the college assigned to him in the interest of the college by the Correspondent or on his own initiative after duly informing and taking the permission of the Correspondent.

PRINCIPAL

The Principal is the chief ACADEMIC ADMINISTRATOR and a bridge between the Management, Staff and Students. He should be preferably of good academic, administrative personal standing with sufficient experience in engineering colleges. The Principal shall be a source of inspiration to the staff and students particularly in matters of discipline and commitment to the institution.

Functions of the Principal:

1. To assist the G.B and Correspondent in formulation of academic programmes, administrative policies, action plans for infrastructural development and schemes for institutional development.

2. To implement all decisions of the Correspondent with regard to academic affairs and administrative matters that are entrusted to him.

3. To ensure effective academic management, monitoring all academic activities like day-to-day academic work, periodical evaluation, achievement of good annual results etc.

4. a) To recommend the formation of various cells/committees for active pursuit of curricular, co-curricular and extra-curricular activities for the approval of the G.B.
   b) To ensure the effective functioning of such activity cells/committees.

5. To enforce discipline among the students on the campus or off the campus as the situation demands, taking necessary measures with the help of the staff; and the guidance/help of the Management when needed.

6. To inculcate work culture and discipline among the staff so as to keep them as models for students as envisaged by the sponsoring society/G.B/Correspondent.

Note: While enforcing discipline among the staff, the principal should act with due caution to protect the image and interests of the institution. The principal need to consult the Correspondent and take his consent regarding disciplinary measures particularly in cases of senior faculty members in higher cadres.

7. To spend the amount in consultation with respective ACTIVITY CELL / COMMITTEE on the approval of the correspondent
8. a)To open and operate a Bank account for Scholarships received from different sources including the State Government.

   b) To maintain Books of Account for the scholarships.

9. The deans shall report to the Principal.

10. To prepare the budget for consideration and approval of the Governing Body.

11. To prepare salary statement and present it every month for the approval of the correspondent for disbursement.

12. To sanction leaves to staff as per leave rules, maintaining leave account.

13. To take steps for promotion of INDUSTRY-INSTITUTION INTERACTION and R&D work on his own or on the suggestions of the concerned Deans and Heads of the Department.

14. To provide consultancy services as can be offered by the members of faculty in their respective fields of specialization to the outside individuals or institutions as per their guideline from the correspondent.

15. To participate in Quality planning at University / Government / AICTE level for development of technical education.

16. a) To allow the individual members of faculty for participation in the orientation programs, refresher courses, spot evaluation, curriculum development sessions etc.

    b) To permit the members of faculty and students for participation in inter-collegiate, inter-university competitions and festivals, talent and personality development programmes at various levels.

17. To be the CHIEF WARDEN of hostels under the management of the college.

18. To sanction annual increment to the staff as approved by the G.B.

19. To make periodical review on the performance of the staff department wise or Individually, taking the help of the Heads of Departments and presenting it to GB.

Deans

To help the Principal in academic administration, there shall be two Deans working in the Institute viz.,

1. Dean – Academics and Planning.
2. Dean – Monitoring and Student affairs.

The Designation Dean shall be used only when Professors hold these posts. In other cases they are called 'Officers'

I) **Dean –** Academics and Planning.

He shall look after

a) Time Tables
b) Central Library & Information Centre
c) Website/ICT/Internet Cell
d) NSS Cell
e) Sports and Games
f) IQAC (Internal Quality Assurance Cell)
g) Arts & Cultural Cell
h) Dept. Association Coordination
i) Industry - Institution Interaction

II) **Dean-** Monitoring and Student affairs shall look after

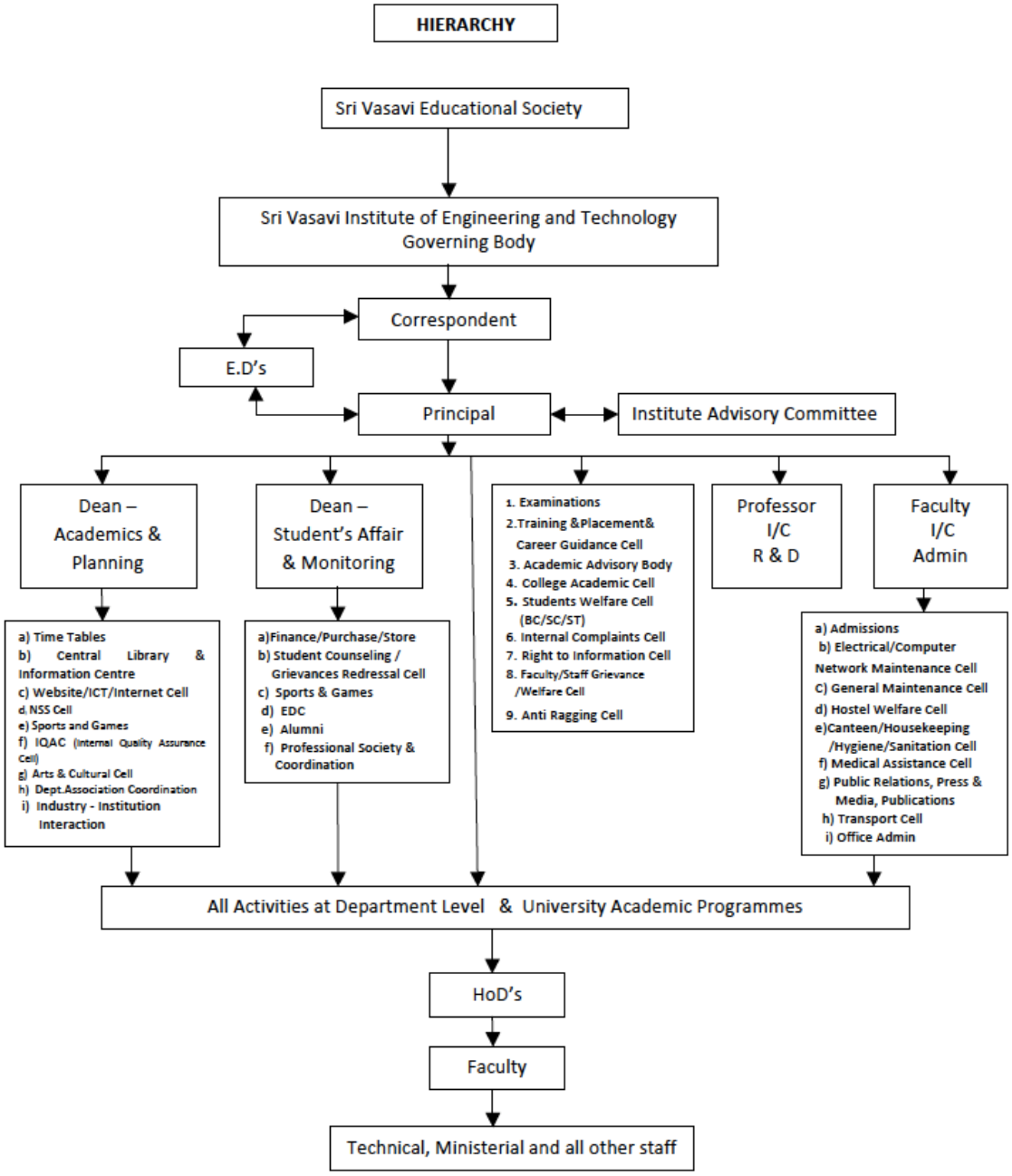
a) Finance/Purchase/Store
b) Student Counseling / Grievances Redressal Cell
c) Sports & Games
d) EDC
e) Alumni

f) Professional Society & Coordination

Deans – Functions:

1. He is the overall in charge for the respective areas under him and he shall ensure the success of these programmes.
2. He will make recommendations to Principal on formulation of various cells for different areas he is in charge of.
3. He will convene meetings of those committees at least once in two months.
4. He shall submit reports to the Principal twice in a semester on the programs he is in charge of.
5. All the information, correspondence regarding the programmes coming under the purview of the dean shall be routed to him through principal.
6. Whenever necessary he shall convene a meeting of HODs concerning those programmes/Cells

In the hierarchical order the Deans are between the Principal and HODs.



Coordinators:

Coordinators of all cells will report to their respective Deans/Principal. HODs shall report to the Principal through Dean on matters that come under the purview of Dean.

The Deans will be guided by the policies of the college in the matters that come under their purview.

Committees:

Every committee shall have a coordinator and two or more members. Coordinator will be in charge of the committee and its programs. These committees assist the Deans/Principal in the discharge of their duties. Each activity given under the Dean will have a committee/Cell.

Duties of HODs

HOD is responsible for the functioning of that Department as per the laid down policies of the college. He will be consulting with Deans and reporting to Principal, in technical matters coming under the purview of the dean.

HOD will prepare budget estimation for the Department for its operation, maintenance and development. HOD will constitute various committees to help in various matters.

Preparing and submitting a report to the Principal on all matters. He will be in-charge of all the academic and other Departmental activities of the department and will be reporting on this at the end of every semester.

HODs are given an imprest money of Rs.5,000/- and they will utilize this for emergencies and unforeseen expenditures only.

He will allocate academic and other duties to the faculty/supporting staff members of his department.

HODs enjoy a level of autonomy to utilize the services of his faculty and supporting staff.

10.1.3 Decentralization in working and grievance redressal mechanism (10)

Decentralization: A Senior member is deployed as Coordinator to look after each cell listed below:

Sl.No.	Name of the Committee	Name of the Coordinator
1	Finance/Purchase/Stores Cell	Dr.D.Raja Ramesh
2	R & D and Consultancy Cell	Dr.S.Koteswara Rao
3	Training & Placement& Career Guidance Cell	D.Adithya Kumar
4	Examinations Time Tables Admissions	A.Pavan Kumar V.Vijaya Bhaskar P.Meher Kumar
5	Central Library & Information Centre	B.Jyothilal Nayak
6	Website/ICT/Internet Cell	K.Venkatesh
7	Student Counselling /Grievances Redressal Cell	G S N V N Babu
8	Hostel Welfare Cell	P.Meher Kumar
9	Canteen/Housekeeping/Hygiene /Sanitation Cell	P.Meher Kumar
10	NSS Cell	P.Satyanarayana

11	Sports & Games Cell	Ch.Giri Phani Kumar
12	Transport Cell	P.Meher Kumar
13	Arts/Cultural Cell	B.R Nagavalli
14	Department Associations Coordination Cell	A.Chandra Suresh
15	Industry Institute Interaction Cell	Dr.M.Srinivasa Rao
16	E D C	K P R Ratna Raju
17	Alumni Coordination Cell	A.V.Raghu Ram
18	Professional Societies Coordination	Dr. B.Raja Srinivasa Reddy
19	Electrical/ComputerNetwork Maintenance Cell	B.D.S.Prasad & Dr. B.Raja Srinivasa Reddy
20	Medical Assistance Cell	P.Meher Kumar
21	Academic Advisory Body	Dr.A.B.Srinivasa Rao
22	College Academic Cell	Dr.A.B.Srinivasa Rao
23	Public Relations, Press & Media, Publications	P.Meher Kumar
24	Students Welfare Cell (BC/SC/ST)	Dr.A.B.Srinivasa Rao
25	General Maintenance Cell	P.Meher Kumar
26	Internal Quality Assurance Cell	S V C Gupta
27	Internal Complaints Cell	Dr.A.B.Srinivasa Rao
28	Right to Information Cell	Dr.A.B.Srinivasa Rao
29	Faculty/Staff Grievance/Welfare Cell	Dr.A.B.Srinivasa Rao
30	Anti Ragging Cell	Dr.A.B.Srinivasa Rao

Following committee coordinators have been delegated powers for taking administrative decisions in respect of redressel mechanism.

a). Grievances Redressel Cell

Sl.No.	Name of the Person	Designation
1.	G.S.V.N.V.Babu, Prof of ECE	Coordinator
2.	A.Chandra Suresh, Assoc.Prof of ECE	Member
3.	V. Sridhar Reddy, Assoc.Prof of Mech	Member
4.	K.Rama Rao, Asst.Prof of CSE	Member
5.	Ch.Giri Phanikumar, Asst.Prof of Civil	Member

b). Anti Ragging Committee

Sl.No.	Name of the Faculty	Designation
1	Dr.A.B.Srinivasa Rao, Principal	Coordinator
2	A.V.Raghu Ram, S & H HoD	Member
3	P.Mehar Kumar, Assoc.prof &Faculty i/c Admin	Member
4	V.Srinivasa Rao, Civil HoD	Member
5	B.Jyothilal Nayak, EEE HoD	Member
6	Dr.D Raja Ramesh, Mech HoD& Dean-SAM	Member
7	Dr.M.Sreenivasulu, ECE, HoD	Member
8	S V C Gupta, Prof & Dean-Academic & Planning	Member
9	D.Adithya Kumar, CSS HoD	Member
10	V V Muralinadh, P.D	Member

11	V.Bhagya Lakshmi, Girls Hostel Warden	Member
12	Dr.M.Srinivasa Rao, Prof & HoD CSE	Member
13	V.Vijaya Bhaskar, Assoc.Prof of Mech	Member
14	Ch.Giri Phani Kumar, Asst.Prof of Civil	Member
15	D.V.Sridhar, Asst.Prof of ECE	Member
16	P.Srikanth, Asst.Prof of EEE	Member
17	Dr.P.Govardhan, Prof of S & H	Member
18	Dr.P.Seshu Babu, Assoc.Prof of S & H	Member
19	Dr.V N S R V Rao, Assoc.Prof of S & H	Member
20	P.Ram Babu, Asst.Prof of S & H	Member
21	K Narasimha Swamy, Asst.Prof of S & H	Member
22	P.Vasudeva Rao, Asst.Prof of S &H	Member
23	M L L Phanikanth, Asst.Prof of S & H	Member
24	B.Ranga Nagavalli, Asst.Prof of S & H	Member
25	Sk.Hidayatullah, Asst.Prof of S & H	Member
26	K.Bhavani, Asst.Prof of S & H	Member
27	P.Charitha Krishna, Asst.Prof of Mech	Member
28	G D Vijaya Lakshmi, Asst.Prof of CSE	Member
29	G.Sita Annapurna, Asst.Prof of ECE	Member

c). Internal Complaints Committee (ICC)

Sl.No.	Name of the Faculty	Designation
1	Dr.A.B.Srinivasa Rao, Principal	Coordinator
2	Dr.D.Raja Ramesh, Mech HoD& Dean- SAM	Member
3	B.Bala Subrahmanyam, Asst.prof of Civil	Member
4	P.Hemanth Kumar, Asst.Prof of EEE	Member
5	K.Meena Anusha, Asst.Prof of ECE	Member
6	P.Siva Naga Raju, Asst.Prof of CSE	Member
7	K.Narasimha Swamy, Asst.Prof of S &H	Member
8	A.Rajesh, Asst.Prof of Mech	Member

d). Sexual Harassment Committee

Sl.No.	Name of the Faculty	Designation
1	Dr.A.B.Srinivasa Rao, Principal	Coordinator
2	Ms.G.Sita Annapurna, Asst.Prof of ECE	Member
3	Mrs.K.Bhavani, Asst.Prof of S & H	Member
4	Mrs.B.Ranga Nagavalli, Asst.Prof of S &H	Member
5	Ms.V.Sai Mounica, Asst.Prof of Mech	Member
6	Ms.G.D.Vijaya Lakshmi, Asst.Prof of CSE	Member

10.1.4 Delegation of Financial Powers

The Principal is empowered with a financial power up to Rs.10,000/- and all the Head of the departments are allocated with an amount of Rs.2,000/- towards imprest amount.

10.1.5 Transparency and availability of correct/unambiguous information in public domain

Yes, all the policies, rules, processes and discrimination of the information is made available on the college website for the benefit of all our stake holders. The same can be viewed with the following link in **HR Policy** http://sviet.edu.in/hrpolicy.php

Website- http://sviet.edu.in/ Coordinator-Mr.K.Venkatesh

Transparency

- **HR Policy**http://sviet.edu.in/hrpolicy.php
- **RTI**http://sviet.edu.in/rightact.pdf
- **B Category Admission**http://sviet.edu.in/BCategoryAdmission.php
- **Financial Information** http://sviet.edu.in/FinancialInformation.php
- **Vision** http://sviet.edu.in/vision.php
- **Mission** http://sviet.edu.in/mission.php
- **Facilities in Campus** http://sviet.edu.in/campus.php
- **Placement**http://sviet.edu.in/tpcell.php
- **Examination** http://sviet.edu.in/Examination.php
- **R&D**-http://sviet.edu.in/r&d.php
- **Contact Us** http://sviet.edu.in/contactus.php

E-Resources

- **N Digital Library (Noble Info Tech)** http://ndigitalonline.com/
- **National Digital Library of India** https://ndl.iitkgp.ac.in/
- **Del Net** http://www.delnet.in/
- **NPTEL** https://onlinecourses.nptel.ac.in/
- **Institute Local Chapter (NPTEL)**

https://nptel.ac.in/LocalChapter/college_homepage.php?collegeid=1380

Interactive Website

Parent, Student, Faculty Login

http://117.239.54.69/newecap/default.aspx

Alumni

http://sviet.edu.in/registration.php

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10.2 Budget Allocation, Utilization, and Public Accounting at Institute level (30)

Summary of current financial year's budget and actual expenditure incurred (for the institution exclusively) in the three previous financial years.

Total Income at Institute level: For CFY, CFY*m*1, CFY*m*2 & CFY*m*3

CFY: Current Financial Year, CFY*m*1 (Current Financial Year minus 1), CFY*m*2 (Current Financial Year minus 2) and CFY*m*3 (Current Financial Year minus 3)

For CFY (2017-18)

Total Income: 79600940				**Actual expenditure :79690346**			**Total No.of Students: 1421**
Fee	**Govt.**	**Grant(s)**	**Other Sources(specify)**	**Recurring including Salaries**	**Non recurring**	**Special Projects/ Any other, Specify**	**Expenditure per Student:**
79556440	**-**	**44500**	**-**	**70519575**	**9170771**	**-**	**56080**

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. **Note: Similar tables are to be prepared for CFYm1,CFYm2 & CFYm3**

Items	Budgeted in CFY	Actual Expenses In 2018-19(till Dec 2018.)	Budgeted in CFYm1	Actual Expenses In 2017-18	Budgeted in CFY m2	Actual Expenses In 2016-17	Budgeted in CFY m3	Actual Expenses In 2015-16
Infra-Built up	4293000	2035716	3902000	3902590	3503000	3503240	4660000	4665789
Library	1547000	298486	1406000	1406139	2141000	2141917	1673000	1673505
Laboratory equipment	3679000	960000	3344000	3344947	4587000	4587872	3464000	3464221
Laboratory consumables	755000	431836	686000	686557	854000	854064	574000	574730
Teaching and non-teaching staff salary	51700000	33768902	47000000	47001261	43144000	43144056	39170000	39178239
Maintenance and spares	4176000	1029823	3796000	3796028	4085000	4085565	3807000	3807958
R&D	2116000	96934	1923000	1923234	3260000	3260803	1869000	1869260
Training and travel	5256000	1531908	4778000	4778365	4335000	4335348	5600000	5526730
Miscellaneous Expenses	650000	25344	590000	590500	454000	454200	977000	977775
Others specify	13486000	8022854	12260000	12260725	12938000	12938303	12640000	12726697
Total	87658000	48201803	79685000	79690346	79301000	79305368	74434000	74464904

* **Items to be mentioned.**

10.2.1. Adequacy of budget allocation (10)

The budget allocated during the assessment years is adequate.

10.2.2. Utilization of allocated funds (15)

The Budget utilization details are placed in the website with link http://sviet.edu.in/financialinformation.php.

10.2.3 Availability of the audited statements on the institute's website (5)

The financial information including audited statement were placed in the website with link http://sviet.edu.in/financialinformation.php.

10.3. Program Specific Budget Allocation, Utilization (30)

Total Budget at program level: For CFY, CFY*m*1, CFY*m*2 & CFY*m*3

CFY: Current Financial Year, CFY*m*1 (Current Financial Year minus 1), CFY*m*2 (Current Financial Year minus 2) and CFY*m*3 (Current Financial Year minus 3).

For CFY

Total Budget: 2791000		Actual expenditure (31-12-2018): 1112093		Total No. of students: 197
Non recurring	Recurring	Non Recurring	Recurring	Expenditure per student
1130000	1661000	654078	458015	5645

Note: Similar tables are to be prepared for CFYm1, CFYm2 & CFYm3

Items	Budgeted in CFY	Actual expenses in CFY(Dec 2018)	Budgeted in 2017-18	Actual expenses in CFYm1	Budgeted in 2016-17	Actual expenses in CFYm2	Budgeted in CFYm3	Actual expenses in 2015-16
Laboratory equipment	800000	639500	0	0	15000	19262	10000	9672
Software	-	-	-	-	-	-	-	-
Laboratory consumable	90000	68966	19000	19500	75000	76751	25000	25147
Maintenance and spares	655000	154865	595000	595718	600000	644659	600000	625042
R&D	330000	14578	300000	301817	510000	514520	300000	306823
Training and Travel	814000	230372	740000	749877	680000	684072	1100000	1125646
Miscellaneous expenses *	102000	3812	92000	92667	70000	71668	150000	160493
Total	2791000	1112093	1746000	1759579	1950000	2010932	2185000	2252823

- **Items to be mentioned**
-

10.3.1. Adequacy of budget allocation (10)

The budget allocated during the assessment years is adequate.

10.3.2. Utilization of allocated funds (20)

The Budget utilization details are placed in the website with link http://sviet.edu.in/financialinformation.php.

10.4Library and Internet (20)

10.4.1 Quality of learning resources (hard/soft) (10)

The Central Library of the Sri Vasavi Institute of Engineering & Technology (SVIET) was established in the year 2008. The library has a rich collection of Books, National and International Journals, Technical and other Magazines, CD ROMs on different engineering subjects. This Library follows open access system; student & faculty library card based circulation process and OPAC Literature Search. The college central library timings during working days is from 8.00 AM – 6.00 PM. The central Library in the college provides facilities to edify the research for faculty /students for seeding research work. The following are the facilities provided:

Central Library

Volumes at Library

Studnets and Faculty at Library

Journals & Periodicals

Issuing Books at Library

Books

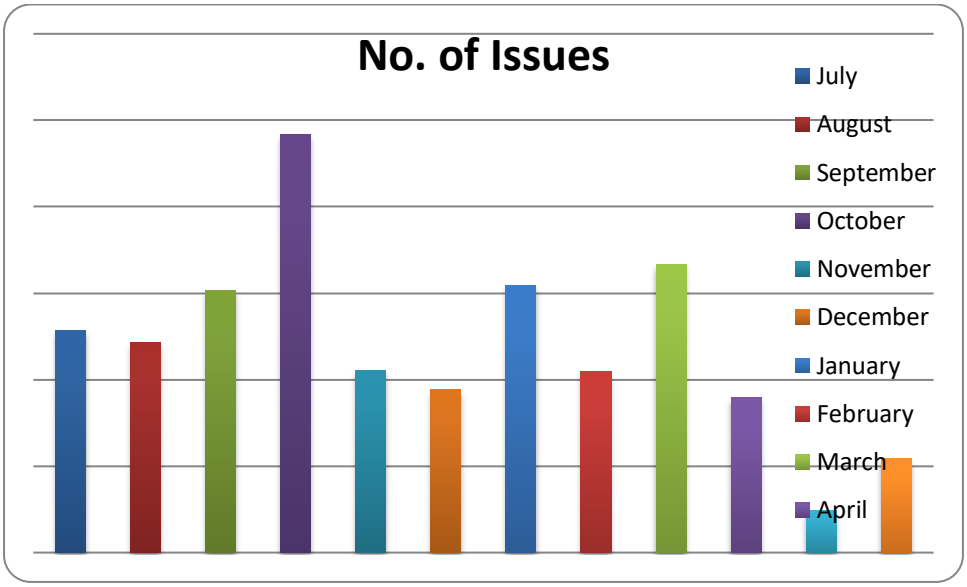
The central Library in the college provides facilities to edify the research for faculty /students for seeding research work. The following are the facilities provided:

1. The library has a collection of 2645 titles, 21161 volumes of books, 1589 e-books, 37 journals, 907 e-journals, .
2. Digital Library has been set up with 20 systems connected with high-speed network connectivity to access all e-resources and video streaming e-learning program.
3. The faculty and students can procure the books on loan from the library.
4. The Library E-Resources can be accessed by the students and faculty members anywhere in the campus during working hours.
5. The Institute subscribes for the electronic journals/ magazines from Noble Infotech, DelNet and NDL every year. The resources are being used by staff for research work and by students for their project works.

Students Accessing Digital Library

Students Accessing Digital Library

Library Utilization for the Academic Year 2017-18



10.4.2 Internet (10)

Name of the Internet provider: BSNL, Airtel

Available bandwidth: 48 mbps

Wi-Fi availability: Yes,

Internet Access in all labs, classrooms, library and offices of all departments: Yes

Security arrangements: Yes

Tele - Fax : 08672 - 241387

SRI VASAVI
INSTITUTE OF ENGINEERING & TECHNOLOGY
(Approved by AICTE, New Delhi. Affiliated to JNTUK, Kakinada)
An ISO 9001 : 2008 Certified Institute
NANDAMURU, Pedana Mandal, Krishna Dist. - 521 369. (A.P.)

... Empowering Minds

Ref :-

Date: .....

Declaration

I undertake that, the institution is well aware about the provisions in the NBA's accreditation manual concerned for this application, rules, regulations, notifications and NBA expert visit guidelines in force as on date and the institute shall fully abide by them.

It is submitted that information provided in this Self Assessment Report is factually correct. I understand and agree that an appropriate disciplinary action against the Institute will be initiated by the NBA, in case any false statement/information is observed during pre-visit, visit, post visit and subsequent to grant of accreditation.

Date: 05-02-2019
Place: Nandamuru

(Dr.A.B.Srinivasa Rao)
Principal
Sri Vasavi Institute of
Engineering & Technology
NANDAMURU