



**Academic Presentation**  
**DEPARTMENT**  
**OF**  
**MECHANICAL**  
**ENGINEERING**  
**VBIT**



## **PART -A**

- Review of Activities and Achievements of  
Targets Planned during 2017-18**

➤ **SAE INDIA VBIT, Mechanical team attended BAJA nation wide competition in Punjab (Chandigarh) in the month of July-2017.**

➤ In collaboration with **SAE INDIA VBIT**. Workshop was conducted in the month of **November 2017**.

➤ Two faculties with doctoral degree were appointed.

➤ The second batch of **Pradhan Manthri Koushal VikasYojana (PMKVY) for Field Mechanics in Air-Conditioning**, a programme is successfully completed with an intake of **25** students.

➤ This was conducted for 90 days.

➤ 2 Industrial visits, 2 Guest lecturer, 1 FDP on Engineering Drawing were conducted during 2017-18.

➤ Hands on work shop related to Assembly & Dis-assembly of I.C Engines and Refrigeration & Air Conditioning were conducted in the month of August-2017 and March-2018 respectively.

➤ The Following staff are Pursuing Ph.D

**R.V.Rao** (VIT Chennai), **P.Kishore Kumar** (VIT Vellore), **P. Pulsingh** (VIT Vellore), and **M. Madhavi** ( Kakatiya University Warangal )







# CERTIFICATE OF PARTICIPATION

## GROUND TO GLORY

This is to certify that

**Geet Sethy**

representing **Vignana bhharathi institute of Technology**

has participated in the Virtual BAJA SAEINDIA 2017, organized by SAEINDIA on 14th & 15th July 2017 at Chitkara University, Punjab.

We wish him/her all the best for the future endeavours.

**Shoaib Sadiq**  
Convener,  
Virtual BAJA SAEINDIA 2017

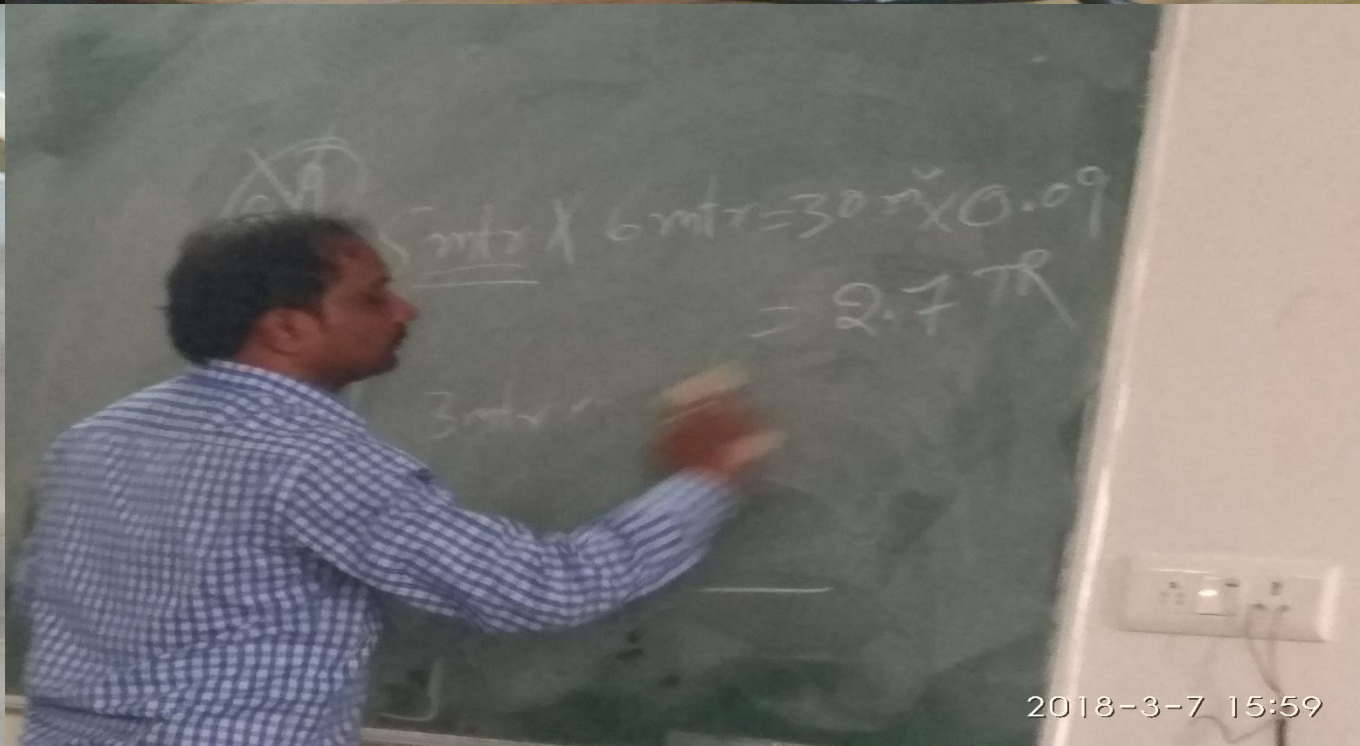
**Mukesh Tiwari**  
Convener,  
BAJA SAEINDIA 2018



Mahindra Presents **BAJA SAEINDIA 2018**











# **PART-B**

## **REGULAR ACTIVITIES DURING ACADEMIC YEAR 2017-18**



# Statistical Data of Various Activities

## Student Strength (Under Graduate)

Year (2017-2018) I Sem.	No. of Students in 'A' section	No. of Students in 'B' section	Total Strength
II	53	50	103
III	55	50	105
IV	48	44	92

## Post Graduate (CAD/CAM)

Year (II Year)	Total Strength
2017-2018	NIL
Year (2017-18)	23

## ➔ Student Strength (Under Graduate)

Year (2017-2018) II Sem.	No. of Students in 'A' section	No. of Students in 'B' section	Total Strength
II	46	46	92
III	48	44	92
IV	54	45	99

## Post Graduate (CAD/CAM)

Year (I year)	Total Strength
(2017-2018)	NIL

## No. of Teaching Staff

Year (2017-18)	25
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# Result Analysis 2017-18 (I) Semester

## II Year

<b>Name of the subject</b>	<b>Pass Percentage in Section 'A' &amp; 'B'</b>
<b>Mathematics-IV</b>	<b>69.07%</b>
<b>Mechanics of solids</b>	<b>77.32%</b>
<b>Metallurgy and material science</b>	<b>72.16%</b>
<b>Thermodynamics</b>	<b>44.33%</b>
<b>Kinematics of Machinery</b>	<b>61.86%</b>
<b>Metallurgy and material science Lab</b>	<b>96.91%</b>
<b>Gender sensitization Lab</b>	<b>100%</b>
<b>Mechanics of solids Lab</b>	<b>96.91%</b>
<b>Thermodynamics Lab</b>	<b>96.91%</b>
<b>Average</b>	<b>78%</b>

# Result Analysis 2017-18 (I) Semester

## III Year

Name of the Subjects	Pass Percentage In Section 'A' & 'B'
Design of Machine Members-I	68%
Dynamics of machinery	82%
Engineering Metrology	77%
Thermal Engineering - II	83%
Machine tools	94%
MEFA	70%
Machine tools& Metrology Lab	100%
Thermal Engineering Lab	100%
Average	84%



# Result Analysis 2017-18(I) Sem.

## IV Year

Name of the Subjects	Pass Percentage in section 'A' & section 'B'
CAD/CAM	78%
Industrial Management	91%
Instrumentation and Control System	92%
Un-Conventional Machining Process	96%
Operations Research	84%
Power plant Engineering	95%
PDP & ICS Lab	100%
CAD/CAM Lab	100%
Average	92%

# Result Analysis 2016-17(II) Semester

**II year**

Name of the Subjects	Pass Percentage in Section 'A' & 'B'
GENDER SENSITIZATION	98.98%
KINEMATICS OF MACHINERY	83.67%
MACHINE DRAWING	70.41%
MATHEMATICS - II	54.08%
MECHANICS OF FLUIDS AND HYDRAULIC MACHINES	72.45%
THERMAL ENGINEERING - I	84.69%
PRODUCTION TECHNOLOGY	65.31%
Average	73.65%



# Result Analysis 2016-17 (II) Semester

III year

Name of the Subjects	Pass percentage in section 'A' & section 'B'
AUTOMOBILE ENGINEERING	65%
DESIGN OF MACHINE MEMBERS - II	77%
DISASTER MANAGEMENT	75%
FINITE ELEMENT METHODS	58%
HEAT TRANSFER	59%
REFRIGERATION AND AIR CONDITIONING	59%
HEAT TRANSFER LAB	98%
ADVANCED COMMUNICATION SKILLS LAB	98%
Average	73.625%

# Result Analysis 2016-17(II) Sem.

## IV Year

Name of the subject	Pass Percentage in section 'A' & section 'B'
COMPREHENSIVE VIVA	100%
INDUSTRY ORIENTED MINI PROJECT	100%
PLANT LAYOUT & MATERIAL HANDLING	92%
PRODUCTION PLANNING AND CONTROL	65%
PROJECT WORK	100%
RENEWABLE ENERGY SOURCES	94%
SEMINAR	100%
Average	93%





# Status of syllabus completion 2016-17 II sem Faculty and subject wise

Sl no.	Year & sem	Subject	Faculty Name	No. Of hours Planned	No. of Hours Taken	Total Units	Units Completed
1	II – II (A)	M-II	Jithender Reddy	68	65	5	5
	(B)		Jithender Reddy	68	65	5	5
2	II – II (A)	FMHM	K.Susheela	72	74	5	5
	(B)		P.Pulsingh	72	70	5	5
3	II – II (A)	TE - I	G. Pranathi	62	65	5	5
	(B)		N.Pratap	62	60	5	5
4	II – II (A)	KOM	M.K. Sathya Sai	60	60	5	5
	(B)		P. V. Narasimha Rao	60	58	5	5
5	II – II (A)	MD	Reeti Mukherjee	61	57	5	5
	(B)		P.Pryinaka / G. Pranathi	61	57	5	5
6	II – II (A)	PT	P. Kishore Kumar	65	60	5	5
	(B)		R. Venkateshwar Rao	65	62	5	5

Sl no.	Year & sem	Subject	Faculty Name	No. Of hours Planned	No. of Hours Taken	Total No. of Expt.	Expt. Completed
7	II – II (A)	PT Lab	P. Kishore Kumar	45	32	14	14
	(B)		R. Venkateshwar Rao	45	42	14	14
8	II – II (A)	FMHM Lab	K.Susheela	45	42	12	12
	(B)		P.Pulsingh	48	32	12	12
9	II – II (A)	GS	K.Sunitha	28	24	5	5
	(B)		K.Sunitha	28	24	5	5

Sl no.	Year & sem	Subject	Faculty Name	No. Of hours Planned	No. of Hours Taken	Total Units	Units Completed
1	III-II (A)	AE	M.Sujan Kumar	62	60	5	5
	(B)		N.Pryinaka	62	61	5	5
2	III-II (A)	DMM-II	Dr.T.G.Raja Swamy	62	60	5	5
	(B)		Dr.T.G.Raja Swamy	62	58	5	5
3	III-II (A)	HT	Dr. G.A .Rao	64	61	5	5
	(B)		K.Ramu	64	62	5	5
4	III-II (A)	RAC	P. Kishore Kumar	65	62	5	5
	(B)		M. Madhavi	65	63	5	5
5	III-II (A)	DM	Dr. C.R.N.Sharma	60	58	5	5
	(B)		Dr. C.R.N.Sharma	60	60	5	5
6	III-II (A)	FEM	K.Phanindra Kumar	65	68	5	5
	(B)		R. Harika	65	58	5	5



Sl no.	Year & sem	Subject	Faculty Name	No. Of hours Planned	No. of Hours Taken	Total No. of Expt.	Expt. Completed
7	III-II (A)	HT LAB	K. Ramu	45	32	12	12
	(B)		K. Ramu	45	32	12	12
8	III-II (A)	AECS LAB	Ashwini	48	32	5	5
	(B)		K. Sunitha	48	32	5	5

Sl no.	Year & sem	Subject	Faculty Name	No. Of hours Planned	No. of Hours Taken	Total Units	Units Completed
1	IV-II (A)	PLMH	S. Ugender	54	50	5	5
	(B)		S. Ugender	54	54	5	5
2	IV-II (A)	PPC	K. Susheela	55	50	5	5
	(B)		P. Narayana	55	52	5	5
3	IV-II (A)	RES	S. S. Murthy	50	48	5	5
	(B)		S. S. Murthy	50	47	5	5

## No. of Tutorials , Assignments, Seminars and AV's Conducted During 2016-17 II sem:

IV Mech		Sec-A		Sec- B	
Sl.No.	Subject	Tutorial	Assignment	Tutorial	Assignment
1	PRODUCTION PLANNING& CONTROL	3	2	3	2
2	RENEWABLE ENERGY SOURCES	3	2	4	2
3	PLANT LAOUT & MATERIAL HANDILING	3	2	3	2
II Mech					
Sl.No.	Subject	Tutorial	Assignment	Tutorial	Assignment
1	THERMAL ENGINEERING -I	5	2	4	2
2	PRODUCTION TECHNOLOGY	3	3	5	2
3	KINEMATICS OF MACHINERY	4	2	2	2
4	MACHANICS OF FLUIDS &HYDRAULIC MACHINES	5	2	2	2
5	MACHINE DRAWING	NA	NA	NA	NA
6	MATHEMATICS-II	5	5	5	5
7	Seminar(M.Rajshekar& M.Sujan Kumar)	26		35	
8	AV Classes (Ms.Harika & Ms.Usha)	12		12	
III Mech					
Sl.No.	Subject	Tutorial	Assignment	Tutorial	Assignment
1	HEAT TRANSFER	1	2	4	2
2	DISASTER MANAGEMENT	5	5	5	5
3	FINITE ELEMENT METHODS	4	4	4	4
4	REFRIGERATION AND AIR CONDITIONING	3	3	4	4
5	DESIGN OF MACHINE MEMBERS-II	4	4	4	4
6	AUTOMOBILE ENGINEERING	4	2	4	4



## Status of syllabus completion 2017-18, I Sem Faculty & Subject wise (Theory)

Sl. no.	Year & sem	Subject	Faculty Name	No. Of hours Planned	No. of Hours Taken	Total Units	Units Completed
1	II – I (A)	MMS	M. Madhavi	60	58	5	5
	(B)		A. Anusha	60	55	5	5
2	II – I (A)	M-IV	Dr. B.Chandra Shekar	65	60	5	5
	(B)		Dr.B.Chandra Shekar	65	63	5	5
3	II – I (A)	KOM	CH. Rama Krishna	62	58	5	5
	(B)		N. Reeti Mukherjee	62	59	5	5
4	II – I (A)	MOS	B. Devendar	60	58	5	5
	(B)		K. Susheela	60	59	5	5
5	II – I (A)	TD	G.Pranathi	62	60	5	5
	(B)		N. Pratap	62	59	5	5

## Status of syllabus completion 2017-18 , I Sem Faculty and Subject wise (Labs)

Sl no.	Year & sem	Subject	Faculty Name	No. Of hours Planned	No. of Hours Taken	Total No. of Expt.	Expt. Completed
7	II – I (A)	MOS Lab	B.Devender	36	32	10	10
	(B)		K.Susheela	36	33	10	10
8	II – I (A)	MMS Lab	M.Madhavi	38	36	10	10
	(B)		A.Anusha	38	35	12	12
9	II – I (A)	GS Lab	Ashwini	28	24	5	5
	(B)		Ruth Livingston	28	27	5	5
10	II-1 (A)	FUELS LAB	Krishna Srujith	36	32	8	8
	(B)		Krishna Srujith	36	32	8	8

## Status of syllabus completion 2017-18 , I Sem Faculty and Subject wise (Theory)

Sl no.	Year & sem	Subject	Faculty Name	No. Of hours Planned	No. of Hours Taken	Total Units	Units Completed
1	III-I (A)	MEFA	T. Sowmya	68	65	5	5
	(B)		T. Sowmya	68	67	5	5
2	III-I (A)	EM	P. V. Narasimha Rao.	65	62	5	5
	(B)		Y. Anuradha	65	64	5	5
3	III-I (A)	DOM	R. Harika	64	70	5	5
	(B)		M. K. Satya Sai	64	62	5	5
4	III-I (A)	MT	P. Kishore Kumar	65	60	5	5
	(B)		A. Padma	65	62	5	5
5	III-I (A)	DMM-I	K. Ramu	68	65	5	5
	(B)		K. Ramu	68	65	5	5
6	III-I (A)	ATD-II	G. Pranathi	62	60	5	5
	(B)		N. Pratap	62	55	5	5

## Status of syllabus completion 2017-18 , I Sem Faculty and Subject wise (Labs)

Sl no.	Year & sem	Subject	Faculty Name	No. Of hours Planned	No. of Hours Taken	Total No. of Expt.	Expt. Completed
7	III-I (A)	MMT Lab	Padma/Jagadeesh	45	39	10	10
	(B)		P.Kishore Kumar / P.V.Narasimha Rao	45	39	10	10
8	III-I (A)	TE Lab	Pranathi /K.Ramu	45	39	10	10
	(B)		Pranathi / K.Ramu	45	39	10	10

## Status of syllabus completion 2017-18 , I Sem Faculty and Subject wise (Theory)

Sl no.	Year & sem	Subject	Faculty Name	No. Of hours Planned	No. of Hours Taken	Total Units	Units Completed
1	IV-I (A)	PPE	A. Krshna Srujith	58	54	5	5
	(B)		G. Amarendar Rao	58	52	5	5
2	IV-I (A)	ICS	P. Pulsingh	54	52	5	5
	(B)		P. Pulsingh	54	50	5	5
3	IV-I (A)	UCMP	M. Sujan Kumar	58	57	5	5
	(B)		M. Sujan Kumar	58	56	5	5



## Status of syllabus completion 2017-18 , I Sem Faculty and Subject wise (Theory)

Sl no.	Year & sem	Subject	Faculty Name	No. Of hours Planned	No. of Hours Taken	Total Units	Units Completed
1	IV-I (A)	IM	M. Madhavi	55	52	5	5
	(B)		B. Karthik Anand	55	50	5	5
2	IV-I (A)	CAD\CAM	R.Venkateswara Rao	60	58	5	5
	(B)		R.Venkateshwara Rao	60	54	5	5
3	IV-I (A)	OR	K. Phanindra Kumar	62	54	5	5
	(B)		K. Phanindra Kumar	62	55	5	5

## Status of syllabus completion 2017-18 , I Sem Faculty and Subject wise (Labs)

Sl no.	Year & sem	Subject	Faculty Name	No. Of hours Planned	No. of Hours Taken	No. of Exp.	Exp.Completed
1	IV-I (A)	ICS LAB	P.Pulsingh/ Mr.Karthik Anand	39	39	10	10
	(B)			39	39	10	10
2	IV-I (A)	CAD\CAM LAB	R.Venkateshwara Rao/K.Phanindra/ A.Padma	45	45	10	10
	(B)		R.Venkateshwara Rao/K.Phanindra/ Karthik Anand	45	45	10	10
3	IV-I (A)	PDP LAB	Mr. KarthikAnand	36	36	12	12
	(B)		B. Devender	36	36	12	12

# No. of Tutorials ,Assignments,Seminars and AV's conducted in 2017-18, I Sem:



IV MECH		Sec-A		Sec- B	
Sl.No.	Subject	Tutorial	Assignment	Tutorial	Assignment
1	PPE	2	2	2	2
2	ICS	4	2	4	2
3	IM	3	2	3	2
4	UCMP	2	2	2	2
5	CAD / CAM	2	2	2	2
6	OR	2	2	3	2

III MECH					
Sl.No.	Subject	Tutorial	Assignment	Tutorial	Assignment
1	Dynamics of Machinery	2	2	3	2
2	MEFA	2	2	2	2
3	Machine Tools	1	2	2	2
4	Engineering Metrology	3	2	4	2
5	ATD-II	2	2	2	2
6	DMM-I	2	2	2	2

## No. of Tutorials ,Assignments, Seminars and AV's conducted in 2017-18 I Sem :

II MECH- A& B					
Sl.No.	Subject	Tutorial	Assignment	Tutorial	Assignment
1	Metallurgy and Material Science	2	2	3	2
2	Kinematics of Machinery	5	2	5	2
3	Mathematics-IV	3	2	3	2
4	Mechanics of Solid	4	2	5	2
5	Thermodynamics	5	2	5	2
6	Seminar (M.Madhavi&A.Anusha)		25		32
7	AV Classes ( G.Pranathi )		5		5

## Status of syllabus completion 2017-18 , II Sem Faculty and subject wise (Theory)

Sl no.	Year & sem	Subject	Faculty Name	No. Of hours Planned	No. of Hours Taken	Total Units	Units Completed
1	II – II (A)	DOM	Mr. P Pul Singh	68	65	5	5
	(B)		Mr. B. H. Sridhar	68	65	5	5
2	II – II (A)	MFHM	Mr. B Devender	72	74	5	5
	(B)		Mr.P.V.Narasimha Rao	72	70	5	5
3	II – II (A)	MP	Mrs. M.Madhavi	62	65	5	5
	(B)		Mr.R.Venkateshwar Rao	62	60	5	5
4	II – II (A)	MD	Mr. Gopala Swamy/ Mrs. P. Priyanka	60	60	5	5
	(B)		Mr. B.H.Sridhar/ Mr.Veeranjaneyulu	60	58	5	5
5	II – II (A)	ES	Mr. Srikanth	61	57	5	5
	(B)		Ms. Srivani	61	57	5	5
6	II – II (A)	BEFA	Mr. C. Raju	65	60	5	5
	(B)		Mr. C. Raju	65	62	5	5



## Status of syllabus completion 2017-18 , II Sem Faculty and subject wise (Labs)

Sl no.	Year & sem	Subject	Faculty Name	No. Of hours Planned	No. of Hours Taken	No. of Exp.	Expt. Completed
1	II-II(A)	KDM LAB	P.Pulsingh	39	39	10	10
	(B)		Mr. B. H. Sridhar	39	39	10	10
2	II-II(A)	FMHM LAB	Mr. B Devender	45	45	10	10
	(B)		Mr.P.V.Narasimha Rao	45	45	10	10
3	II-II(A)	MPLAB	Mrs. M Madhavi/ Mr. P. Kishore Kumar	36	36	12	12
	(B)		Mr.R.Venkateshwar Rao	36	36	12	12

## Status of syllabus completion 2017-18 , II Sem Faculty and subject wise (Theory)

Sl no.	Year & sem	Subject	Faculty Name	No. Of hours Planned	No. of Hours Taken	Total Units	Units Completed
1	III-II(A)	R&AC	Mr. Pratap	60	39	5	5
	(B)		Mr. Pratap	65	39	5	5
2	III-II(A)	DMM-II	Dr. Ajit Kumar Khatua	65	72	5	5
	(B)		Mr.Rama Krishna	60	65	5	5
3	III-II(A)	HT	Dr.G.Amarendar Rao	65	63	5	5
	(B)		Mr.K.Ramu	60	58	5	5

## Status of syllabus completion 2017-18 , II Sem Faculty and subject wise (Theory)

Sl no.	Year & sem	Subject	Faculty Name	No. Of hours Planned	No. of Hours Taken	No. of Exp.	Exp.Completed
1	III-II(A)	FEM	Mr.P.Kishore Kumar	61	57	5	5
	(B)		Mrs.K.Susheela	61	57	5	5
2	III-II (A)	AE	Ms. G.Pranathi	65	60	5	5
	(B)		Ms. G.Pranathi	65	62	5	5
3	III-II(A)	DM	Mrs. N. Vijaya Laxmi	61	57	5	5
	(B)		Mrs. N. Vijaya Laxmi	61	57	5	5

## Status of syllabus completion 2017-18 , II Sem Faculty and subject wise (Theory)

Sl no.	Year & sem	Subject	Faculty Name	No. Of hours Planned	No. of Hours Taken	Total Units	Units Completed
1	IV-II(A)	PPC	Mrs.K.Susheela	60	57	5	5
	(B)		Mrs. P. Priyanka	60	58	5	5
2	IV-II(A)	PLMH	Mr. B. Krathik Anand	60	55	5	5
	(B)		Mr. B. Krathik Anand				
2	IV-II(A) (B)	RES	Mr. Veeranjanyulu Mr. Ramu	60	55	5	5

## Status of syllabus completion 2017-18 , II Sem Faculty and subject wise (Labs)

<b>Sl no.</b>	<b>Year &amp; sem</b>	<b>Subject</b>	<b>Faculty Name</b>	<b>No. Of hours Planned</b>	<b>No. of Hours Taken</b>	<b>No. of Expt.</b>	<b>Expt. Completed</b>
<b>1</b>	<b>III-II(A)</b>	<b>HT LAB</b>	<b>Mr. Pratap/ Mr. Ramu /Mr. Devender</b>	<b>39</b>	<b>39</b>	<b>10</b>	<b>10</b>
	<b>(B)</b>		<b>Mr.K.Ramu/ Mr. Ramakrishna</b>	<b>39</b>	<b>39</b>	<b>10</b>	<b>10</b>
<b>2</b>	<b>III-II (A)</b>	<b>AECS LAB</b>	<b>Mrs. Sunitha</b>	<b>45</b>	<b>45</b>	<b>10</b>	<b>10</b>
	<b>(B)</b>		<b>Mrs. Sunitha</b>	<b>45</b>	<b>45</b>	<b>10</b>	<b>10</b>



## Status of Syllabus Completion 2017-18 , II Sem Faculty and subject wise (Theory)

Sl no.	Year & sem	Subject	Faculty Name	No. Of hours Planned	No. of Hours Taken	Total Units	Units Completed
1	IV-II(A)	PPC	Mrs.K.Susheela	60	57	5	5
	(B)		Mrs. P. Priyanka	60	58	5	5
2	IV-II(A)	PLMH	Mr. B. Krathik Anand	60	55	5	5
	(B)		Mr. B. Krathik Anand	60	55	5	5
3	IV-II(A)	RES	Mr. Veeranjanyulu	60	55	5	5
	(B)		Mr.k.Ramu	60	55	5	5

# Faculty Responsibilities 2017-18

Activity	Name of the Faculty
PG Academics	Mr. M.K.Satya Sai
UG Academics	Ms. K.Susheela
Time Table	Mr .P. Pulsingh
Examination	Mr. K. Phanindra
Attendance and Mentoring	Ms. A. Anusha
Library	Mr. K. Ramu
AV Co-ordinator	Ms. G. Pranathi
Seminar Co-ordinator	Mr. B. Devender
Projects Co-ordinator	Mr. R. Venkateswar Rao
Training & Placement	Mrs. Y.Anuradha, & Ms. A. Padma
Branch Association	Mrs. M. Madhavi
E-Cap	Mr. P.V.Narsimha Rao

# Faculty Responsibilities: 2017-18

Activity	Name of the Faculty
Solid Edge Tutorials	Mr. P. Pul Singh
Purchase In-Charge	Mr. BH. Sridhar
Feed Back	Mr. B. Karthik Anand
R & D Coordinator	Mr. CH. Ramakrishna
SAE Club	Mr. P. Pulsingh
NBA Co-ordinator	Mr. M. K. Satya Sai

## Paper Publications in Journals:

Faculty Name	Topic	Paper Published Journal
P Kishore Kumar	Drilling of Fiber Reinforced Polymer/Nano polymer composites laminates : a review.	Journal of Materials Research & Technology (Elsevier) 2018.
P Kishore Kumar	Improvement of GFRP composite Mechanical Properties by an addition of Multi-Walled Carbon Nanotubes	Journal of Materials Research & Technology (Elsevier) 2018.
R. Venkateswara Rao,	Optimize the process parameters of friction stir welded AA 2014 and AA 6061 dissimilar aluminum alloys by Minitab Software.	IOSR- JMCE , E-ISSN -2278- 1684, pp-66-71 (2017).
B. Karthik Anand	Finite Element Analysis of a fractured Mandible fixed with micro plates	International journal of Engineering Science and Technology (IJEST) Vol-9, No-7, July-2017. ISSN-0175-5462

# Paper Publications in Conferences(2017-18)

Faculty	Name of Conference	Name of the Paper
Ajit Kumar Khatua	International Conference on Advances in Refrigeration and Energy System, April-2018.	Measurement of Pressure drop during condensation of R-245fa using Twisted Tape Insert.
P. Kishore Kumar	ICMMM conference (2017)	P. Online Monitoring of Delamination Mechanisms in Drilling of MWCNTs Reinforced GFRP Nano Composites by Acoustic Emission.
K. Susheela, M.Madhavi, M.Sujan Kumar	Attended International Conference in Advances in Materials and Manufacturing (2017)	Participation
R.Venkateswara Rao	ICMMM conference (2017)	Experimental Investigation on Effect of Welding parameters on the Friction Stir Welding of 6061-T6
K. Susheela	International Conference on innovations in Mechanical Engineering, January-2018	Nano Component properties and its application.



# STTPs/Work-Shops/FDPs Attended

Faculty Name	STTPs/Work Shops/ FDP Attended
Ajit Kumar Khatua	One week STTP on Recent Advances in Machining Process at VSSUT, Burla. 7 <sup>th</sup> -12 <sup>th</sup> May -2018.
Y.Anuradha, B. Karthik & G. Pranathi	5 Days FDP on Recent Advances in Mechanical Engineering at MVSR College of Engineering, 17 <sup>th</sup> -22 <sup>nd</sup> December 2017.
R. Venkateswar Rao	One week course on applications of FEM for engineers from all disciplines. 25 <sup>th</sup> – 31 <sup>st</sup> march -2018, IIT, Madras.
Y.Anuradha, M. K. S. Sai, P.V. N. Rao	One day work shop on MAT Lab , 24 <sup>th</sup> April -2018 at NOVOTEL HOTEL , Maghapur.
All faculties of Mech. Engg. Dept.	One day FDP on Engineering Drawing organized by Mechanical Engineering Department at VBIT 12 <sup>th</sup> January-2018.
A. Padma, A. Anusha & M. Madhavi	Three days Seminar on Navigation Techniques on Manufacturing Process, 4 <sup>th</sup> -6 <sup>th</sup> December -2017 at SNIST, Hyderabad.

# Department Activities (2017-18)

Sl no.	Month	Name of the Event	Organized by	Date(s)	No. of Participants
1	September	Industrial Visit CIPET, Hyderabad	AUTOMAAC	1 <sup>st</sup>	60
2	October	Two days W/S on IC Engines by VAAHAN Motors hyd.	AUTOMAAC	27 <sup>th</sup> & 28 <sup>th</sup>	90
2	November	Guest Lecture by Dr. L. Sivaram Krishna, Professor , OU, Hyd, on 3-D Printing & Un-conventional Maching Processes	AUTOMAAC	3 <sup>rd</sup>	110
3	February	Industrial Visit to Jain Irrigation Systems, Hyderabad	AUTOMAAC	3 <sup>rd</sup>	95
4	February	1-Day FDP on Engineering Drawing	AUTOMAAC	18 <sup>th</sup>	50
5	March	Guest Lecture by Dr. P. Ravi Kumar, Professor NIT, Warangal	AUTOMAAC	8 <sup>th</sup>	110
6	March	Two days Work shop cum Hands on Practice on Refrigeration and Air-conditioning ,	AUTOMAAC	9 <sup>th</sup> and 10 <sup>th</sup>	120

# Students Participation:

## Technical:

- ❖ Students of all years were offered CISCO courses through TASK registrations. Out of which the following number of students have successfully completed
  - 2<sup>nd</sup> year — IT Essentials –50 students
  - 3<sup>rd</sup> year --- IOT -- 65 students
  - 4<sup>th</sup> year --- C language –34 students
- ❖ **Students of III year**
  - (a) T. Ajay, K.L.N. Bhanu Teja have participated in **Smart City Hackathon** organised by IoT in collaboration with J-hub and won “**Public Choice Award**”. They have prepared a prototype for “Electricity generation in reservoirs and sewage control in man holes”.
  - (b) Kudari Joel , Ebin Prakash were selected for **Smart India Hackathon** organised by AICTE, which is an all India Competition for Innovations in rural development. The Prototype for “Tracking Drinking water tankers through Smart phones” was designed by them. Out of 1,40,000 ideas which were submitted , 44 ideas of water sector were selected and these two students are a part of them.
  - (c) 17 students have attended technical fest conducted by CVSR College of Engineering.
  - (d) T.Ajay, Kudari Joel, Ebin Prakash, K.L.N. Bhanu Teja , Akhil, Praveen have attended a seminar on Entrepreneurship conducted by JNTUH in collaboration with T-hub.

## Students Participation:

- ❖ Sandeep, III ME have attended 6-Week Exide program at J-HUB, JNTUH
  1. He is working on “ Water Management Systems” to find out leakage in water pipe.
  
- ❖ Two students of II ME have attended BOOT CAMP at J-HUB, JNTUH.
  1. Deepak from II ME-B has won III prize for the app he developed “ Students Showcase Skills”
  2. Raghu Teja from II ME-A has won Best Utility Award for the app he has developed “ Smart Invitation Card”.

# Students Participation:

## Sports:

(a) D. Rishi, IV year was a part of Cricket team and have won 1<sup>st</sup> Prize in D-Zone tournament conducted by JNTUH at VBIT and also was a part of Runner-up team in Central –Zone tournament at TKR College of Engineering, Hyd.

(b) Athyush Maharana, IV year was a part of football team and have won Runner-up prize in D-Zone tournament conducted by JNTUH at VBIT.

## Placements:

❖ All 17-18 batch students have taken CRT classes for complete 2 weeks and have attended various exams like **Amcat**, **Cocubes** and **TASK**. These exams open a gateway for students to get recruited in various companies. The following number students could get shortlisted in above mentioned exams: Co- Cubes-56 , Amcat -33 , TASK-39

# Students Placement (2017-18)

❖ Total 17 students of the department have been placed in various companies:

<b>Company Name:</b>	<b>No. of Students:</b>	<b>Job Role:</b>
<b>Zen Q</b>	<b>1</b>	<b>Test Engineer</b>
<b>H-Bots Robotics</b>	<b>2</b>	<b>Product Manager</b>
<b>Amazon Development Center(India) Pvt. Ltd.</b>	<b>2</b>	<b>D2TS Associate/ Customer Service Associate</b>
<b>Silver peak Global Pvt. Ltd.</b>	<b>12</b>	<b>Graduate Engineer Trainee</b>

## **PART- C**

**NEW INITIATIVES TO BE TAKEN DURING  
THE ACADEMIC YEAR 2018-19**



Description of Initiative	No. of Beneficiaries	Achievements	Amount Spent
New Place for Kinematic & Dynamics Lab has been Set-up in the Department.	120	Lab is enriched with all experiments given by JNTUH	Rs. 5,00,000
Nano Technology & Mechatronics as New ELECTIVE for Final years	120	Students are exposed to advanced technology	NA
Prdhan Mantri Khoushal Vikas Yojna	25	2 <sup>nd</sup> batch has successfully completed with support of management.	NA

Sl. No	Description		Target	Achieved	Remarks		
1	Result	Without any Backlog (4 <sup>th</sup> ,3 <sup>rd</sup> & 2 <sup>nd</sup> )		100%	77%,, 56% & 54%	To be Improved	
2	Placement	On Campus		98	11	To be Improved	
		Off Campus		NIL	NIL		
3	Extra Curricular Activities	Workshops		2	2		
		Guest Lecture		2	2		
		FDP	Participated		15	11	
			Conducted/ Organized		1	1	
		Conferences Organized			1	NIL	
4	Research	Proposal Uploaded		2	Pending		
		Proposal Approved		NIL	NIL		
		Paper Published	Students		5	NIL	
			Faculty		10	08	

# Feedback

Sl. No	Name of Faculty	Remarks	Suggestions
1	Dr. G. Amarendar Rao	Good Presentation	Major Project of Students to be Added in PPT,
2	P. Pul Singh	Good Presentation	Placement of Students to be Improved
3	Dr. Ajit Kumar Khatua	Good Presentation	Guest lecture on Entrepreneur development to be arranged.
4	M. Madhavi	Good Presentation	Requirement of Drawing table for PDP Lab
5	R. Venkateswar Rao	Good Presentation	Inter disciplinary Projects for Final year students
6	M. K. S. Sai	Good Presentation	Drawing examinations to be included in Mid Sem.
7	Y. Anuradha	Good Presentation	Requirement of Seminar hall with Audio System.
8	Ch. Rama Krishna	Good Presentation	Circulation of departmental academic plan to faculties .
9	Dr. Pradeep Mallick	Good Presentation	More research is required.
10	Dr. Ch. Sridhar	Good Presentation	Placement and Alumni association to be strengthen.
11	Dr. S. K. Rao	Good Presentation	
12	Dr. Y. Srinivas	Good Presentation	
13	Dr. Gopa Dutta	Good Presentation	

# ***PART-D***

## ***PLANNING FOR ACADEMIC YEAR 2018-19***

# Composition of Departmental Advisory Committee (DAC)

- ▶ **The Departmental advisory committee is going to be formed with principal, HOD and senior faculty including an outside academician and industrialist as shown below. The 1<sup>st</sup> meeting of DAC is going to be held on 5<sup>th</sup> July 2018.**
- ▶ **Dr. G. Amarendar Rao (Principal)**
- ▶ **Dr. G. Poshal (Professor & HOD)**
- ▶ **Dr. Ajit Kumar Khatua (Professor)**
- ▶ **Mr. P. Narayana (Professor)**
- ▶ **Ms. Y. Anuradha (Associate Professor)**
- ▶ **Mr. M. K. Satya Sai (Associate Professor)**
- ▶ **Mr. S. Janaki Ram (Industrialist)**
- ▶ **Dr. T. Rajagopalachary (Academician)**

# Planning for Activities & Budget for the Academic Year 2018-19

Month	Approximate Dates	UG/PG	Type of activity	Target Audience with number of participants	Budget	Amount Excepected through registration fee/sponsorship	Net Contribution excepted from Institute
June - 2018	22/6/2017 to 23/6/2017	Faculty	Work Shop	40	15000	5000	10000
July - 2018	27/7/2018	UG	Industrial Visit	120	2000	-----	2000
August - 2018	14/8/2018	UG	Guest Lecturer	120	4000	-----	-----
September-2018	03/9/2018 to 04/09/2018	Faculty & UG	STTP	30	6000	2000	4000
January- 2019	19/01/2019	UG	Industrial Visit	120	2000	1000/-	2000
February-2019	18/02/19 to 19/02/2019	UG	Work Shop	120	5000		5000
March -2019	04/03/2019	UG	Guest Lecturer	120	5000		5000
March -2019	23/03/2019	UG	Guest Lecturer	120	5000		5000
June-2019	7days	Faculty	FDP	50	25000	5000	20000

# Budget for Laboratories for 2018-2019

<b>Name of the Lab</b>	<b>Amount in Rupees</b>
<b>CAD/CAM Lab</b>	<b>58000</b>
<b>Thermal Engineering Lab</b>	<b>23460</b>
<b>Metrology Lab</b>	<b>5000</b>
<b>Mechanics of Solid Lab</b>	<b>14100</b>
<b>Fluid Mechanics and Hydraulics machinery lab</b>	<b>30000</b>
<b>Instrumentation Lab</b>	<b>20000</b>
<b>Metallurgy Lab</b>	<b>2500</b>
<b>Production Technology Lab</b>	<b>26700</b>
<b>Engineering Workshop</b>	<b>58600</b>
<b>Machine Tools Lab</b>	<b>7500</b>
<b>Heat Transfer Lab</b>	<b>1920</b>
<b>Kinematics and Dynamics Lab</b>	<b>45600</b>
<b>Thermodynamics Lab</b>	<b>4800</b>
<b>Total (Consumables &amp; Non Consumables )</b>	<b>298180</b>
<b>Total Departmental Budget Submitted to Purchase Section (2018-19): (Consumables &amp; Non Consumables + Calibration &amp; maintenance + FDP + Work Shops +Student Training Programme + Guest Lecture)</b>	<b>Rs. 3,68,180.00</b>



# Targets for Major Activities in Annexure –I (2018-19)

- To counsel the students to improve concentration and motivate them towards studies.
- Informing the respective guides all the project groups of final year students to complete their projects in I semester itself.
- To complete the seminar schedule of II-Year students by improving faculty support.
- Continuing of SAP (Material Management ) program with the support of Training and Placement.
- C and C++ programming knowledge of students to be improved under IOT essentials with the help Training and Placement.

# Targets for Major Activities in Annexure –I (2018-19)

- To Strengthen the Departmental Academic Activity.
- Conducting two days work shop on Engineering Drawing on 25<sup>th</sup> to 26<sup>th</sup> June-2018 for faculty.
- Participation of faculties and Students in the National Seminar on 13<sup>th</sup> and 14<sup>th</sup> July-2018 to be conducted by Institution of Engineers (India), Hyderabad.
- Opening of I.E. (I) and IWS Chapters in the Department.
- Campaigning and Awareness among staffs and students to be initiated not to use Plastic in the department.
- One Sunday outing of staffs and students to be arranged for the protection of monuments.
- One day programme on Rudiments on Entrepreneurship to be conducted.
- To invite Brig. Ganeshan and his team for an invited lecture on Innovation to help farmers in rural areas.

Thank You