



# PVPSIT

## Mechanical Engineering Department

# NEWS LETTER

July - December 2018

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The Department of Mechanical Engineering has been in existence ever since the college started in year 1998. Department is affiliated to JNTU since 1998. B. Tech. Program is accredited by NBA-AICTE in May 2007 for 3 years and provisionally accredited for 2 years in June 2012 and is certified by ISO 9001:2015 certification. Once again it is provisionally accredited for 3 years under OBE in the year 2016.

Numerous research papers have been published in National and International Journals and Conferences. The Department arranges guest lectures by eminent professors from India and abroad, scientists from research organizations and experts from industry to bridge the gap between academics and industry. Faculty members are encouraged to improve their academic qualification and to gain experience by attending FDPs, workshops, conferences etc. They are also encouraged to present research papers at workshops and conferences, and to participate in co-curricular and extracurricular activities.

The Department promotes active industry-institute collaboration by organizing workshops and by taking part in sponsored research projects and consultancy services. Visits to the industries for faculty and students are frequently arranged to enhance the practical exposure with the real corporate world. Department also organizes programmes like Alumni interaction sessions with current students and make them familiar with specific market requirements and demands.

## DEPARTMENT OF MECHANICAL ENGINEERING

NEWS LETTER data from July to December, 2018

### 1. Workshops/Seminars/GuestLectures/TrainingPrograms/Symposiums organized:

- i. The Guest Lectures & Seminars Committee of Mechanical Engineering Department has arranged a Guest Lecture on “**PRODUCT DESIGN AND DEVELOPMENT**” by Dr. Trivikrama Bhanaji Reddy Pala, working as Staff Engineer–R&D in Becton Dickinson, New Jersey and Adjunct Professor in New Jersey Institute of Technology, USA on 20.07.2018 for IV-B. Tech. ME students and staff on 20.07.2018 from 10.00 AM to 12:00 Noon in the ECE department e-class room number 255.



- ii. The Guest Lectures & Seminars Committee of Mechanical Engineering Department has arranged a Guest Lecture on “**WELDING PROCESSES AND DEFECTOLOGY IN INDUSTRY**” by Sri. M. Thamilarasan, Rtd. Senior Manager, BHEL, Hyderabad for II and III-B. Tech. Mechanical Engineering students and staff on 03.08.2018 from 10.00 AM to 12:00 Noon in the ground floor seminar hall.





- iii. The Guest Lectures & Seminars Committee of Mechanical Engineering Department has arranged a Motivational Lecture on “**YOUTH EMPOWERMENT**” by Sri. Amit, National coordinator, Sri. Krishna, National coordinator, Smt. Bharathi, National coordinator, Sri. Sumit, National coordinator, Sri. Chandra Sekhar, National coordinator, AYUDH youth movement, powered by Amrita University (Part of MATA AMRITA NANDA MAYI MATH), Kerala. for III-B. Tech. Mechanical Engineering students on 03.08.2018 from 10.00 AM to 12:00 Noon in the III-B.tech. Section-II class room.



- iv. Two Day Workshop was conducted on “**Application of Non- Destructive Testing Methods in Various Industries**” at P.V.P.Siddhartha Institute of Technology, in association with VIDAL NDT, Vijayawada from 17<sup>th</sup> -18<sup>th</sup> September, 2018.



- v. The guest Lectures & Seminars Committee of Mechanical Engineering Department has arranged a Guest Lecture on “**NANO TECHNOLOGY: WHERE SIZE MATTERS**” by Dr. Nimai Mishra, Assistant Professor & Faculty Coordinator, Department of Chemistry, SRM University-A.P. Amaravati, Vijayawada on 17.11.2018 for III & IV-B. Tech. Mechanical Engineering students and staff from 10.00 AM to 11:30AM in the ground floor seminar hall.



- vi. The Guest Lectures & Seminars Committee of Mechanical Engineering Department has arranged a Guest Lecture on “**PLASTIC PRODUCTS MANUFACTURING TECHNOLOGY**” by Sri. N. Ravindra Reddy, Sr. Tech. Officer (Design and Tool room), Central Institute of Plastics Engineering and Technology (CIPET), New Autonagar, Vijayawada on 01.12.2018 for II-B. Tech. Mechanical Engineering students and staff from 10.00 AM to 11:30AM in the ground floor seminar hall.



- vii. Department of Mechanical Engineering has organized a one week certification course on “**NON DESTRUCTIVE TESTING**” in association with FUTURE NDT, Corporate partner, of ASNT (American Society of Non Destructive Testing), Vijayawada by Sri. G. Vijay Kumar, CEO and J. Praveen Patnaik, Inspection head & Radiation Safety Officer, Future NDT, Vijayawada from 10.12.2018 to 14.12.2018 for III-B. Tech. Mechanical Engineering students from 01.00 PM to 06:00PM in the Ground floor seminar hall.



viii. The Guest Lectures & Seminars Committee of Mechanical Engineering Department has organized a Workshop on “**HVAC Applications**” by Sri. Ch. Ganesh, Director, Sri. Krishna Sai Aircon, Vijayawada, President, ISHRAE, Vijayawada Chapter and Sri. A.P. Rao, Entrepreneur, Hardhik Enterprises, Vijayawada, Student Chair, ISHRAE, Vijayawada Chapter on 14.12.2018 for III & IV-B. Tech. Mechanical Engineering students and staff from 02.00 PM to 05:00PM in the e-class room no. 123A.



ix. The Guest Lectures & Seminars Committee of Mechanical Engineering Department has organized a Seminar on “**Design and Analysis of Formula-One Car**” by Sri. G.Vijay Kumar, Chief Executive Officer, CREATUAL CAD, Patamata, Vijayawada on 20.12.2018 for I-B. Tech. Mechanical Engineering students and staff from 11.45AM to 12:45PM in the room number 427.



## 2. Workshops/Seminars/Conferences/Faculty Development Programs attended by the faculty:

i. Ch.Vidya, M.Somaiah Chowdary, Ch.Mohan Sumanth has participated in a course on “Introduction to Linear Finite Element Analysis” under quality improvement programme of AICTE ,New Delhi at center for continuing education IISc Bengaluru from 9<sup>th</sup> – 13<sup>th</sup> July, 2018.



- ii. M.Rajyalakshmi has participated in MeitY, Govt of India, sponsored a Six-Day Intensive Faculty Development Program on “Computational Research Techniques using MATLAB(CRT 2018)” at NIT Warangal from 9<sup>th</sup> – 14<sup>th</sup> July, 2018.
- iii. P.Ravi Kumar, Sd.Abdul Kalam, K.Sriram Vikas, M.Radha Devi, KIV.Vandana has participated in a 3-Day workshop on “Digital Manufacturing” at V.R.Siddhartha Engineering College from 19<sup>th</sup> -21<sup>st</sup> July, 2018.
- iv. N.Raghu Ram, K.Sri Ram Vikas have participated in A Two Day Long National Workshop on Powder Metallurgy and Advanced Ceramics-2018 at Rajiv Gandhi University of Knowledge Technologies- Basar in association with Powder Metallurgy association of India(PMAI) from 27<sup>th</sup> -28<sup>th</sup> September, 2018.
- v. P.Anusha has participated in the “ISHRAE State Level Quiz Competition” organized by Department of Mechanical Engineering and Indian Society for Refrigeration & Air-Conditioning (ISHRAE) at Dhanekula Institute of Engineering and Technology, Vijayawada on 29<sup>th</sup> September, 2018.
- vi. G.Bala Krishna has attended short term course on “3D and 4D Microscopy in Material science” at IIT Kanpur from 01<sup>st</sup> -06<sup>th</sup> Oct, 2018.
- vii. G.Bala Krishna has successfully completed the “Powder Metallurgy Short Course(PMSC-2018)” at College of Engineering , Pune from 12<sup>th</sup> -15<sup>th</sup> Oct, 2018.
- viii. K.Sri Ram Vikas has participated in 5-Day Faculty Development Program on “Product Development on 3D Experience” in association with Dassault systems and Andhra Pradesh State Skill Development Corporation(APSSDC) at Swarnandhra College of Engineering & Technology(Autonomous), Narsapur from 23<sup>rd</sup> -27<sup>th</sup> Oct, 2018.
- ix. K.Venkata Rao has participated in an AICTE Sponsored Short Term Course on “Advances in Experimental and Computational Fluid Mechanics” at IIT Madras from 29<sup>th</sup> October -03<sup>th</sup> November, 2018.
- x. P.Ravi Kumar, Sd.Abdul Kumar, M.Mounika, Dr.P.Prasanthi, P.Gopala Krishnaiah has participated in an AICTE Sponsored Short Term Course on “Applied Impact Mechanics” at IIT Madras from 31<sup>st</sup> October -05<sup>th</sup> November, 2018.
- xi. P.Gopala Krishnaiah has successfully completed the one-week AICTE-ISTE Sponsored Induction / Refresher Programme on “ Research Methodology, Design and Analysis of Experiments” at R.V.R& J.C.College of Engineering, Guntur from 12<sup>th</sup> – 17<sup>th</sup> November, 2018.
- xii. M.Radha Devi has participated in the Three Day Faculty Development Programme on “Product Development and 3D Experience” organised by Andhra Pradesh State Skill Development Corporation (APSSDC), in association with Dassault Systems and Vasireddy Venkatadri Institute of Technology (VVIT) from 20<sup>th</sup> -22<sup>nd</sup> November, 2018.

- xiii. E.Kavitha, P.Anusha, M.Naga Swapna Sri, M.Radha Devi have participated in One week National Workshop on “Applications of Radiation and Radioisotopes in Industry and Material Science at NIT Warangal from 26<sup>th</sup> – 30<sup>th</sup> November,2018.

### **3. Publications by the faculty (National/International Journals/ Conferences):**

#### **International Journals**

##### **Scopus indexed:**

- i. M. Naga Swapna, & V. Chittaranjan Das published a paper entitled, "Mechanical Characterization Of Lm25/ Copper Powder Reinforced Metallic Composites" in International Journal of Mechanical Engineering and Technology, Volume 9, Issue 7, July 2018, p. 844–851, ISSN: 0976-6359.
- ii. Ch Hemanth Kumar , T. Srinag , P. Srikant , P. Mastan Rao & V. Naga Prasad Naidu published a paper entitled, "Experimental Investigation Of Mechanical And Physical Properties of Pine Apple Leaf Fibre/ Carbon Powder Reinforced Hybrid Polyester Composite Using Taguchi Method" in International Journal Of Mechanical And Production Engineering Research And Development (Ijimperd) Issn (P): 2249-6890; Issn (E): 2249-8001 Vol. 8, Special Issue 6, Aug 2018, 730-741.
- iii. Dr. B. Raghu Kumar published a paper in IOP Conference Series: Materials Science and Engineering titled, “Fine Texture Enhancement of Al-Mg-SC alloy by Using Cross Accumulative Roll Bonding Technique” with doi:10.1088/1757-899X/455/1/012117.
- iv. P. Gopala Krishnaiah published a paper titled, "Multiple Process Parameter Optimization of roll forming on high strength steel using TOPSIS" in International Journal of Engineering and Technology(UAE), Vol: 7, Issue: 7, ISSN: 2227-524X, p: 199-202,December, 2018.
- v. P. Gopala Krishnaiah published a paper titled, “Modeling and Optimization of WEDM Parameters Using DOE” International Journal of Engineering and Technology(UAE), , Vol: 7, Issue: 7, ISSN: 2227-524X, p:47-49, December, 2018.

##### **Non - Scopus indexed:**

- i. Karun Kumar R, and U. Koteswara Rao, Vibration control of a simply Supported beam using piezoelectric Materials, Journal of Emerging Technologies and Innovative Research, Volume 5, Issue 6, ISSN: 2349-5162, July, 2018, pp 432-440, UGC approved.
- ii. P. Pradeep Raju, Dr P.Phani Prasanthi, Effectiveness of Carbon Nanotubes on the Boron Fiber Reinforced Composites using Finite Element Method, Journal of Emerging Technologies and Innovative Research, July 2018, Volume 5, Issue 7, ISSN-2349-5162, pp. 109-113, UGC approved.
- iii. B. Naga Krishna Sai, G. Bala Krishna, Effect Of Process Parameters On Mechanical Properties Of Additive Manufacturing Al- Alloy, Journal of Emerging Technologies and Innovative Research , August 2018, Volume 5, Issue 8, ISSN-2349-5162, UGC approved.

- iv. V. Sridhar, B.Raghu Kumar , P. Phani Prasanthi, N. Ramesh; Natural Frequency of Composite Beams with different shapes Using Finite Element Method, International Journal of Research and Analytical Reviews, August 2018, Volume 5, Issue 3, ISSN 2348-1269, UGC approved.
- v. Uday Kumar , Sd. Abdul Kalam , P. Ravi Kumar, Experimental study on the Mechanical Properties of E-Glass Reinforced Polymer Composite based on Carbon Nano Powder Percentage, Journal of Emerging Technologies and Innovative Research, JETIR August 2018, Volume 5, Issue 8, ISSN-2349-5162, pp. 411 - 416, UGC approved.
- vi. B.Yugandhar, Dr.G.Vijay Kumar, G.Vijay Kumar, S. Venu Gopal Reddy, "Analysis Of Super heater Pipe Weld Defects In 270 MW Thermal Power Plant By Using NDT Codes and Simulation Softwares", IJRAR - International Journal of Research and Analytical Reviews (IJRAR), E-ISSN 2348-1269, P- ISSN 2349-5138, Volume.5, Issue 4, Page No pp.732-744, October 2018. UGC approved journal.
- vii. M.V.H.Satish Kumar, Published a Paper "Experimental Analysis of Natural and Forced Convective Heat Transfer through Cylindrical Pin Fin , Experimental Analysis of Natural and Forced Convective Heat Transfer through Cylindrical Pin Fin", In International Journal of Management, Technology And Engineering, ISSN NO : 2249-7455, Volume 8, Issue XI, November/2018 ISSN NO : 2249-7455 Page No:440.
- viii. M.V.H.Satish Kumar, Published a paper "Augmentation of Heat Transfer Using Turbulators International Journal of Management, Technology And Engineering" ISSN NO : 2249-7455, Volume 8, Issue XI, November/2018 ISSN NO : 2249-7455 Page No:440.
- ix. Ch. Vidya, and P. Gopala Krishnaiah published a Paper titled, "Application of nanofluids to improve performance of a Flat plate solar collector: A Review, International Research" in Journal of Engineering and Technology (IRJET), e-ISSN: 2395-0056 Volume: 05 Issue: 12 December, 2018.

### **International Conferences**

- i. Venkateswara Rao T., Somaiah Chowdary M., Siva Sanakara Babu C., and Mohan Sumanth C. published a paper entitled, "Effect of Bamboo Fiber on Mechanical Properties of Fly Ash with Polypropylene Composites" Online ISBN 978-981-13-1780-4, [https://doi.org/10.1007/978-981-13-1780-4\\_42](https://doi.org/10.1007/978-981-13-1780-4_42), Springer, Singapore, Advances in Materials and Metallurgy p. 437-446, September, 2018.
- ii. Gopala Krishnaiah published a Paper titled, "Modeling and Optimization of WEDM Parameters Using DOE" is accepted publication in the ICECNS-2018: International Conference on Engineering, Computers and Natural Sciences, October, 2018.
- iii. P. Gopala Krishnaiah published a paper titled, "Multiple Process Parameter Optimization of roll forming on high strength steel using TOPSIS" has been accepted for the oral



presentation and publication in the ICECNS-2018: International Conference on Engineering, Computers and Natural Sciences, October, 2018.

- iv. Dr. K. Sivaji Babu published a Paper titled, “Review Paper on Optimization of Robot Welding Process Parameters” in the International Conference on Recent Advances in Civil and Mechanical Engineering Practices, 16 & 17th November, 2018, VVIT, Guntur, Andhra Pradesh.

**4. Faculty Achievements (Higher Qualification awarded, guest lectures given, awards and rewards, acted as a Judge or Resource person etc.):**

- i. P. Srikanth received a certificate for organizing the State level Koushal Quiz competition conducted by APCOST and Bharatiya Vijnana Mandali on the eve of 26th Children Science Congress at K.L.University on 2nd and 3rd December, 2018.

**5. Industrial Visits:**

**III B. Tech students:**

S.No	Year of Study	Name of the Industry Visited	Date(s) of visit
1	III (section-1) B.Tech II semester	Lorry Owners Driving Institute & Research Centre	18-07-2018
2	III (section-2) B.Tech II semester	Lorry Owners Driving Institute & Research Centre	17-07-2018



**II B. Tech students:**

S.No	Year of Study	Name of the Industry Visited	Date(s) of visit
1	II(section-1) B.Tech II semester	Kristna Engg Works	18-09-2018
2	II(section-2) B.Tech II semester	Kristna Engg Works	19-09-2018



S. No	Year of Study	Name of the Industry Visited	Date(s) of visit
1	III B.Tech II semester (section-2)	CIPET, Vijayawada.	27-11-2018
2	III B.Tech II semester (section-1)	CIPET, Vijayawada.	28-11-2018



S.No	Year of Study	Name of the Industry Visited	Date(s) of visit
1	II(section-2) B.Tech II semester	Better Castings, Vijayawada.	18-12-2018
2	II(section-2) B.Tech II semester	Neeraj Industries, Vijayawada.	18-12-2018





S.No	Year of Study	Name of the Industry Visited	Date(s) of visit
1	II(section-1) B.Tech II semester	Better Castings	19-12-2018
2	II(section-1) B.Tech II semester	Neeraj Industries	19-12-2018



## 6. MOUs Signed:

- i. The department signed an MOU with Andhra Pradesh Power Generation Corporation Limited, Training Institute, Dr. NTPS, Ibrahimpatnam in July, 2018.



- ii. The department signed an MOU with VIDAL NDT, Vijayawada in month of August, 2018.





- iii. The college signed an MoU with APSSDC (Dassault Systems) for conducting AP skill development programmes in Mechanical Engineering department on 11.10.2018.



## 7. Students' achievements:

### a) Literary and Cultural Activities/Academic awards:

Name of the student	Name of the Game Participated	Name of the tournament	Date of participation
Shaik Sameer sohail 16501A0389	Singing	National Level Musical (RAAGA 2K18) Competition	29/10/2018

### b) Presentation/Participation in Seminars/Conferences/Workshops:

- i. N.Venkateswara Rao of III B.Tech participated in Technical Paper Presentation and presented a paper on “Non Destructive Testing” and **won the 1<sup>st</sup> Prize** on Engineers day organized by ISTE Student Chapter at P.V.P.Siddhartha Institute of Technology, Kanuru, Vijayawada on 15<sup>th</sup> September, 2018.
- ii. V.R.S.S.Sumanth of III B.Tech. participated in Technical Paper Presentation and presented a paper on “Smart Materials” and **won the 2<sup>nd</sup> Prize** on Engineers day organized by ISTE Student Chapter at P.V.P.Siddhartha Institute of Technology, Kanuru, Vijayawada on 15<sup>th</sup> September, 2018.
- iii. G.Ashok Kumar, & B.Sai Sundar of II B.Tech participated in Technical Paper Presentation and presented a paper on “Bio Diesel Tomorrow’s Fuel” and **won the 3<sup>rd</sup> Prize** on Engineers day organized by ISTE Student Chapter at P.V.P.Siddhartha Institute of Technology, Kanuru, Vijayawada on 15<sup>th</sup> September, 2018.
- iv. K.Rohith of III B.Tech participated in Design contest and **won the 1<sup>st</sup> prize** on Engineers day organized by ISTE Student Chapter at P.V.P.Siddhartha Institute of Technology, Kanuru, Vijayawada on 15<sup>th</sup> September, 2018.

- v. Anub Babu Thomas, K.Venkata Krishna of III B.Tech participated in Design contest and won the 2<sup>nd</sup> prize on Engineers day organized by ISTE Student Chapter at P.V.P.Siddhartha Institute of Technology, Kanuru, Vijayawada on 15<sup>th</sup> September, 2018.
- vi. K.Venkata Krishna, K.Anjaneyulu, D.Lokeshwar participated in Technical Quiz and won the 1<sup>st</sup> prize on Engineers day organized by ISTE Student Chapter at P.V.P.Siddhartha Institute of Technology, Kanuru, Vijayawada on 15<sup>th</sup> September, 2018.
- vii. K.Sai Phaneendra, V.R.S.S.Sumanth, G.Venkata Ramana participated in Technical Quiz and won the 2<sup>nd</sup> prize on Engineers day organized by ISTE Student Chapter at P.V.P.Siddhartha Institute of Technology, Kanuru, Vijayawada on 15<sup>th</sup> September, 2018.
- viii. Sk.Shoib Akther, K.Bala Sai Narendra, A. Ravi Teja, N.Yuva Mani Kumar of II B.Tech participated in the event Contraption and won the 1<sup>st</sup> prize on Engineers day organized by ISTE Student Chapter at P.V.P.Siddhartha Institute of Technology, Kanuru, Vijayawada on 15<sup>th</sup> September, 2018.
- ix. P.Nagendra Reddy, P.V.S.Sunil Bhattar, T.Venkata Sai, T.Adithya Raghu, and Sai Pavan of II B.Tech participated in the event Contraption and won the 2<sup>nd</sup> prize on Engineers day organized by ISTE Student Chapter at PVP Siddhartha Institute of Technology, Kanuru, Vijayawada on 15<sup>th</sup> September, 2018.
- x. V.R.S.S.Sumanth of III B.Tech. participated in the event. 'Group Discussion' and won the 1<sup>st</sup> prize on Engineers day organized by ISTE Student Chapter at PVP Siddhartha Institute of Technology, Kanuru, Vijayawada on 15<sup>th</sup> September, 2018.
- xi. G.Ashok Kumar of II B.Tech participated in the event Group Discussion and won the 2<sup>nd</sup> prize on Engineers day organized by ISTE Student Chapter at PVP.Siddhartha Institute of Technology, Kanuru, Vijayawada on 15<sup>th</sup> September, 2018.
- xii. K Gopi Krishna, MV Sita Rama Anjaneyulu of III B.Tech. participated in the event Project Expo and presented a model on “Vehicle for Handicapped People” and won the 1<sup>st</sup> prize on Engineers day organized by ISTE Student Chapter at PVP.Siddhartha Institute of Technology, Kanuru, Vijayawada on 15<sup>th</sup> September, 2018.
- xiii. P. Nagendra Reddy, PVS Sunil Bhattar, S Siva Hemanth of II B.Tech. participated in the event Project Expo and presented a model on “Line Follower Robot” and won the 2<sup>nd</sup> prize on Engineers day organized by ISTE Student Chapter at PVP Siddhartha Institute of Technology, Kanuru, Vijayawada on 15<sup>th</sup> September, 2018.
- xiv. Md.Salman of II B. Tech. participated in the event Idea Contest with “Electrical Geared Wheel” and won the 1<sup>st</sup> prize on Engineers day organized by ISTE Student Chapter and EDC Cell at PVP Siddhartha Institute of Technology, Kanuru, Vijayawada on 15<sup>th</sup> September, 2018.
- xv. N.Tarun of III B.Tech. participated in the event Idea Contest with Title as “Farm 24” and won the 2<sup>nd</sup> prize on Engineers day organized by ISTE Student Chapter and EDC Cell at PVP Siddhartha Institute of Technology, Kanuru, Vijayawada on 15<sup>th</sup> September, 2018.
- xvi. VRSS.Sumanth, V.Sailesh, V.Sreemannaryana, Y.Praveen Kumar, R.V.Chaitanya Reddy, TTNV.Phani Kumar, R.Dyaneeswar, and R.Sai Kumar of III B.Tech participated in the Ayudh India Leaders Training summit 2018 at Amritapuri, Kerala from 22<sup>nd</sup> to 25<sup>th</sup> December, 2018.

xvii. Y.Kalyan Sai of II B.Tech. participated in the Ayudh India Leaders Training summit 2018 at Amritapuri, Kerala from 22<sup>nd</sup> to 25<sup>th</sup> December, 2018.

xviii. The Students of Mechanical engineering participated in the Tech-expo conducted by AP council of science and technology on 3-12-2018 at KL University. One of the students explained Eco- Friendly Refrigerator to Honourable Speaker of A.P., Dr. Kodela Siva Prasada Rao.



## 8. Others:

### On going Minor Projects Sanctioned By UGC:

S.NO	Funding Agency	Name of the research project	Amount Sanctioned	Suctioned Year	Faculty	Status
1	UGC	Virtual repair of Engineering structures using piezoelectric materials	Rs. 3,50,000/	2014	Mr. Koteswara Rao Unnam	ongoing
2	UGC	Development Of Nano Silver And Nano Copper Reinforced Low Density Polyethylene Antimicrobial Bottles	Rs. 3,00,000	2016	Dr.K.Sivaji Babu	ongoing
3	UGC	Agro Waste Based Nano Composites	Rs. 2,65,000/	2016	M.Mounika	ongoing

### Sponsored R&D and Consultancy Activities:

- The department has received one R & D grant of Rs. 50,000/- for carrying UG Project. The details are as follows
  - Sponsoring authority : Indian Society of Heating Refrigerating and Air Conditioning Engineers (ISHRAE)



- Title of the Project : Fabrication of Solar Powered Chill–Brella
- Name of the Faculty : Smt. P. Anusha
- Name of the Student : Mr. B. Jagath Kumar

ISHRAE, Vijayawada Chapter on 14.12.2018 handed over a cheque of Rs 25,000/- towards initial installment of student project grant.



### 9. Alumni information:

- K Sai Chand of 2013-2017 batch who is working in Infor global solutions, Q City Nankramguda, Hyderabad as Cloud Ops Engineer interacted with II. B. Tech section- 2 students in the month of July, 2018



- Vemuri Lakshmi Abhigna of 2014-2018 batch who is working in NTTF, Bangalore as Teaching and graduate Engineer Trainee interacted with II. B. Tech section- 2 students in the month of August, 2018.



- Salluri Rahul (14501A0389) who is presently pursuing Masters in Canada interacted with III. B. Tech section- 2 students in the month of September, 2018



- Addagatla Anil (15505A0302) who is working at NTTF (Nettur Technical Training and Foundation), Bangalore- 560058, as GET Training Officer (2014-2018 Batch student) interacted with the students.



- Alumni meet was conducted on 22-12-2018.

**Alumni Interaction: Name:** Mr. Sandeep Gopal, **Roll No:** 08501A0316,  
**Company:** Pramati Technologies Private Ltd, **Location:** Hyderabad  
**Role:** Sr. Branch Officer, **Email:** gopalsunny@gmail.com



## 10. Higher Education and Placements:

### ➤ Higher Education:

- i. Abdul Fayaz 14501A0301 has joined MS-Mechanical Engineering in University of Cassino and Southern Lazio, Italy.
- ii. Peram Sasi Kumar-14501A0381 has joined MS-Engineering Management in Southern Cross University, Australia.
- iii. Abbineni.Ramakrishna-15505A0301 has joined M.TECH Mechatronics and Robotics in KLU.
- iv. G. Saketh (14501A0341) is pursuing M. Sc Engineering in Automotive at University Of Herefordshire. UK.
- v. A. Purna Kishore (14501A0309) joined M.Tech in Machine Design at R V R &JC College of Engineering, Guntur.

### ➤ Placements:

- The following five students selected in **Automotive Manufacture Pvt Ltd.** (as **Graduate Trainee**)

S.No.	Name	Roll No.
1	BANDARU SAI KUMAR	14501A0312
2	MOHAMMED IBRAHIM	14501A0362
3	PAGADALA RAJA SHEKAR	14501A0374
4	SHAIK AAMIR FAHED	14501A0391
5	BONDAPALLI KRANTHI KUMAR	15505A0303

- V. Bala Satya Nagesh (16505A0337) Selected in **TCS** campus drive.
- 2 Students Selected In Wipro campus drive
  - i. A Abhilash - 15501a0309
  - ii. Samba Siva Krishna - 15501a0368
- 8 Students Shortlisted in "DATA FOUNDRY" written Test (20-12-2018)

15501A0347	L Venkata Teja
15501A0378	T Venkata Sai Kaartheek
15501A0381	T B R Krishna Vamsy Chowdary
15501A0374	M Sai Mouli
15501A0370	P Venkata Rama Kiran
15501A0357	M Althaf
15501A0336	K Venkata Krishna
15501A0373	S Prudhvi Teja



## 11. Activities of Professional Society:

S.No	Event Name	Name of the Faculty coordinator	Event date and time	Venue
1	Technical Paper Presentation	Sri Lakshmikanth	14/9/2018 Friday 3.00 pm to 5.00pm	Room No.123A, PVPSIT
		Sri MVH.Satish Kumar		
		Sri T.Srinag		
		Smt KIV.Vandana		
2	Design Contest	Sri P Ravi Kumar	12/9/2018 Wednesday 10 am to 12 Noon	CAD lab, PVPSIT
		Sri. Sd.Abdul Kalam		
3	Technical Quiz	Mrs.P.Anusha Mrs.M.Naga Swapna Sri	11/9/2018 Tuesday *Screening at 11.00am *Final quiz 3.30 pm	Ground Floor Seminar Hall, PVPSIT
4	Contraption	Mrs. Ch.Vidya	15/9/2018 Saturday 9 am to 12am	Machine Shop-II, PVPSIT
		Mrs.Radha Devi		
5	Group Discussion	Mrs.M.Rajya Lakshmi Mr.P.Gopala Krishnaiah	14/9/2018 Wednesday 3.00pm to 5.00pm	Ground Floor Seminar Hall, PVPSIT

### ➤ Technical Paper Presentation:



- i. K.Gopi Krishna of III B.Tech. participated in Technical Paper Presentation and presented a paper on “Oil Shear Technology” on Engineers day organized by ISTE Student Chapter at PVP Siddhartha Institute of Technology, Kanuru, Vijayawada on 15<sup>th</sup> September, 2018.
- ii. P.Nagendra Reddy, and T.Venkata Sai of II B.Tech. participated in Technical Paper Presentation and presented a paper on “Solar Powered Air Crafts” on Engineers day

organized by ISTE Student Chapter at PVP Siddhartha Institute of Technology, Kanuru, Vijayawada on 15<sup>th</sup> September, 2018.

- iii. Syed Vali Babu of II B.Tech. participated in Technical Paper Presentation and presented a paper on “Free Vibration of Thick Metallic Plates-Analytical and Experimental Approach” on Engineers day organized by ISTE Student Chapter at P.V.P.Siddhartha Institute of Technology, Kanuru, Vijayawada on 15<sup>th</sup> September, 2018.
- iv. J.Sai Revanth of II B.Tech. participated in Technical Paper Presentation and presented a paper on “Steels and their Heat Treatment” on Engineers day organized by ISTE Student Chapter at P.V.P.Siddhartha Institute of Technology, Kanuru, Vijayawada on 15<sup>th</sup> September, 2018.
- v. P.V.S.Sunil Bhattar, S.Siva Hemanth of II B. Tech. participated in Technical Paper Presentation and presented a paper on “Edible Water Bottle” on Engineers day organized by ISTE Student Chapter at P.V.P.Siddhartha Institute of Technology, Kanuru, Vijayawada on 15<sup>th</sup> September, 2018.
- vi. A.Prakash of II B.Tech has participated in Technical Paper Presentation and presented a paper on “Thermo Acoustic Refrigeration” on Engineers day organized by ISTE Student Chapter at P.V.P.Siddhartha Institute of Technology, Kanuru, Vijayawada on 15<sup>th</sup> September, 2018.

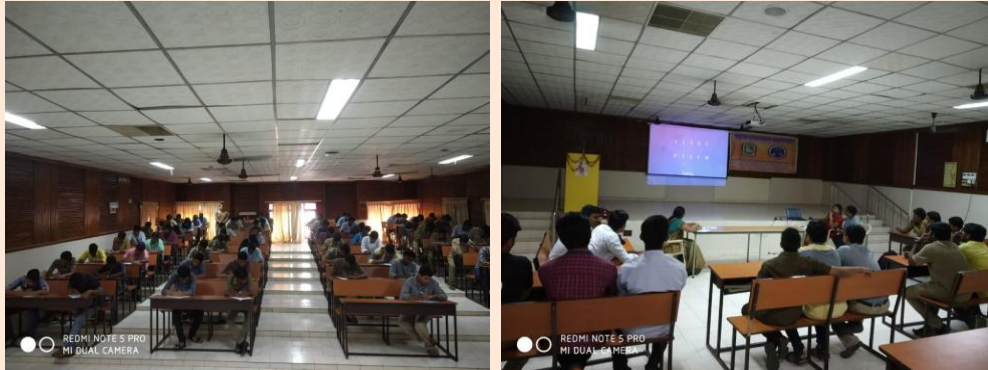
➤ **Design contest:**



- i. G.Jagadeesh, L.Sai Uma Mahesh, N.Dinesh, A.Manoj Kumar, D.Chandra Sekhar, K.Anjaneyulu, K.Gopi Krishna, K.Hemanth Sai, Ch.Bhanu Akhil, G.Anith, T.T.N.V.Phani Kumar, Sk.Juber, Sd.Abdul Rehman, Sd. Vali Babu, V.Sai Harsha Vardhan, V.Ashok,T.Sairam, V.Sai Kumar, Sk.Nagoor Sharif, V.Sreemannarayana Murthy, N.Venkateswara Rao of III B.Tech have participated in Design contest on Engineers day organized by ISTE Student Chapter at P.V.P.Siddhartha Institute of Technology, Kanuru, Vijayawada on 15<sup>th</sup> September, 2018.

- ii. B.Ram Babu of IV B.Tech. participated in Design contest on Engineers day organized by ISTE Student Chapter at P.V.P.Siddhartha Institute of Technology, Kanuru, Vijayawada on 15<sup>th</sup> September, 2018.

➤ **Technical Quiz:**



- i. M.Deepak Anand,P.Jagath Kumar, G.Akshay Kumar,A.Sai Chandu of IV B.Tech. participated in Technical Quiz on Engineers day organized by ISTE Student Chapter at P.V.P.Siddhartha Institute of Technology, Kanuru, Vijayawada on 15<sup>th</sup> September, 2018.
- ii. Ch.Bhanu Akhil, N.Venkateswara Rao, Ch.Sumanth, S.Durga Rao of III B.Tech. participated in Technical Quiz on Engineers day organized by ISTE Student Chapter at P.V.P.Siddhartha Institute of Technology, Kanuru, Vijayawada on 15<sup>th</sup> September, 2018.
- iii. P.Mahesh, K.Ganesh, J.Dinesh of II B.Tech have participated in Technical Quiz on Engineers day organized by ISTE Student Chapter at P.V.P.Siddhartha Institute of Technology, Kanuru, Vijayawada on 15<sup>th</sup> September, 2018.
- iv. Eu.R.Praneeth, of I B.Tech. participated in Technical Quiz on Engineers day organized by ISTE Student Chapter at P.V.P.Siddhartha Institute of Technology, Kanuru, Vijayawada on 15<sup>th</sup> September, 2018.

➤ **Contraption:**





- i. Sk.Ayub,T.V.S.Kartheek,U.Geethika of IV B.Tech. participated in the event Contraption on Engineers day organized by ISTE Student Chapter at PVP Siddhartha Institute of Technology, Kanuru, Vijayawada on 15<sup>th</sup> September, 2018.
- ii. S.Sai Praveen,V.Sailesh,V.R.S.S.Sumanth,V.Sai Srinivas of III B.Tech participated in the event Contraption on Engineers day organized by ISTE Student Chapter at PVP Siddhartha Institute of Technology, Kanuru, Vijayawada on 15<sup>th</sup> September, 2018.
- iii. N.Pavan Krishna,N.Sarath Kumar,M.Mouli,P.Tarun Kumar, of II B.Tech. participated in the event Contraption on Engineers day organized by ISTE Student Chapter at PVP.Siddhartha Institute of Technology, Kanuru, Vijayawada on 15<sup>th</sup> September, 2018.

➤ **Group Discussion:**



- i. Ch.Bhanu Akhil, S.Geetha Satya Sai, P.Bharani Preetham,N.Venkateswara Rao, S.Sai Praveen, V.Sailesh, of III B.Tech. participated in the event Group Discussion on Engineers day organized by ISTE Student Chapter at P.V.P.Siddhartha Institute of Technology, Kanuru, Vijayawada on 15<sup>th</sup> September, 2018.
- ii. V.Sri Ganesh, D.Sai Pradeep, J.Sai Revanth, T.A.Raghu Sai Pavan,T.Pratap Kumar, Md.Salman, B.Dhanush of II B.Tech. participated in the event Group Discussion on Engineers day organized by ISTE Student Chapter at P.V.P.Siddhartha Institute of Technology, Kanuru, Vijayawada on 15<sup>th</sup> September, 2018.

➤ **Project Expo:**



- i. Sai Praveen S, Geetha Satya Sai S, Sk. Shameer of III B.Tech. participated in the event Project Expo and presented a model on “Electromagnetic Reciprocating Engine” on Engineers day organized by ISTE Student Chapter at P.V.P.Siddhartha Institute of Technology, Kanuru, Vijayawada on 15<sup>th</sup> September, 2018.
- ii. M .Venkata Madhu Vani, V .Sri Ganesh, and P .Mahesh of II B.Tech. participated in the event Project Expo and presented a model on “Power Generation By Speed Breaker” on Engineers day organized by ISTE Student Chapter at P.V.P.Siddhartha Institute of Technology, Kanuru, Vijayawada on 15<sup>th</sup> September, 2018.
- iii. P. Hemanth Gowd, T .A Raghu Sai Pavan, and Y.Vamsi krishna of II B.Tech participated in the event Project Expo and presented a model on “Chill Suit ” on Engineers day organized by ISTE Student Chapter at P.V.P.Siddhartha Institute of Technology, Kanuru, Vijayawada on 15<sup>th</sup> September, 2018.
- iv. T. Pratap Kumar, T .Venkata Sai, and P Madan Mohan of II B.Tech. participated in the event Project Expo and presented a model on “Cam Operated Hammer” on Engineers day organized by ISTE Student Chapter at P.V.P.Siddhartha Institute of Technology, Kanuru, Vijayawada on 15<sup>th</sup> September, 2018.
- v. V.Sai Madhav, V.Naga Manoj, and S.Srinadh of II B.Tech have participated in the event Project Expo and presented a model on “4-way Hacksaw” on Engineers day organized by ISTE Student Chapter at P.V.P.Siddhartha Institute of Technology, Kanuru, Vijayawada on 15<sup>th</sup> September, 2018.
- vi. Sk.Shoaib Akthar, Sk.Rizwan, and N.Sarath Kumar of II B.Tech. participated in the event Project Expo and presented a model on “Stairs climbing trolley” on Engineers day organized by ISTE Student Chapter at P.V.P.Siddhartha Institute of Technology, Kanuru, Vijayawada on 15<sup>th</sup> September, 2018.

➤ **Idea Contest:**



- i. K.Sai Phani Teja, J.Hema Krishna Kumar, and J.Chanakya of II B.Tech participated in the event Idea Contest with Title as “Bionic Arm” on Engineers day organized by ISTE

Student Chapter and EDC Cell at P.V.P.Siddhartha Institute of Technology, Kanuru, Vijayawada on 15<sup>th</sup> September, 2018.

- ii. K.Sai Phani Teja, and J.Hema Krishna Kumar of II B.Tech. participated in the event Idea Contest with Title as “Breathalyser Cars” on Engineers day organized by ISTE Student Chapter and EDC Cell at P.V.P.Siddhartha Institute of Technology, Kanuru, Vijayawada on 15<sup>th</sup> September, 2018.
- iii. N.V.Krishna Sai, and P.Sunil of II B.Tech. participated in the event 'Idea Contest' with Title as “Colour your Event” on Engineers day organized by ISTE Student Chapter and EDC Cell at P.V.P.Siddhartha Institute of Technology, Kanuru, Vijayawada on 15<sup>th</sup> September, 2018.
- iv. N.Pavan Krishna of II B.Tech. participated in the event, 'Idea Contest' with Title as “Energy Selling” on Engineers day organized by ISTE Student Chapter and EDC Cell at P.V.P.Siddhartha Institute of Technology, Kanuru, Vijayawada on 15<sup>th</sup> September, 2018.
- v. K.Ganesh of II B.Tech. participated in the event, 'Idea Contest' with Title as “Zero Investment” on Engineers day organized by ISTE Student Chapter and EDC Cell at P.V.P.Siddhartha Institute of Technology, Kanuru, Vijayawada on 15<sup>th</sup> September, 2018.
- vi. A.Naga Ravi Teja of II B.Tech. participated in the event, 'Idea Contest' with Title as “Insta Bed” on Engineers day organized by ISTE Student Chapter and EDC Cell at P.V.P.Siddhartha Institute of Technology, Kanuru, Vijayawada on 15<sup>th</sup> September, 2018.
- vii. K.Sai Phani Teja of II B.Tech. participated in the event, 'Idea Contest' with Title as “Drones of Surveillance” on Engineers day organized by ISTE Student Chapter and EDC Cell at P.V.P.Siddhartha Institute of Technology, Kanuru, Vijayawada on 15<sup>th</sup> September, 2018.
- viii. Sk.Shoab Akther of II B.Tech. participated in the event, 'Idea Contest' with Title as “Interior Designing” on Engineers day organized by ISTE Student Chapter and EDC Cell at P.V.P.Siddhartha Institute of Technology, Kanuru, Vijayawada on 15<sup>th</sup> September, 2018.
- ix. P.Tarun Kumar of II B.Tech participated in the event Idea Contest with Title as “Smart Digital Meter” on Engineers day organized by ISTE Student Chapter and EDC Cell at P.V.P.Siddhartha Institute of Technology, Kanuru, Vijayawada on 15<sup>th</sup> September, 2018.
- x. T.Adithya Raghu Sai Pavan, V.Sai Pavan, and Y.Kalyan Sai of II B.Tech. participated in the event, 'Idea Contest' with Title as “Application for suggesting best books” on Engineers day organized by ISTE Student Chapter and EDC Cell at P.V.P.Siddhartha Institute of Technology, Kanuru, Vijayawada on 15<sup>th</sup> September, 2018.
- xi. B.Chetan Siva, P.Bharani Preetham of III B.Tech. participated in the event, 'Idea Contest' with Title as “Cinephilia” on Engineers day organized by ISTE Student Chapter and EDC

Cell at P.V.P.Siddhartha Institute of Technology, Kanuru, Vijayawada on 15<sup>th</sup> September, 2018.

- xii. K.Kalyan of III B.Tech. participated in the event, 'Idea Contest' with Title as “Smart Water Bottles” on Engineers day organized by ISTE Student Chapter and EDC Cell at P.V.P.Siddhartha Institute of Technology, Kanuru, Vijayawada on 15<sup>th</sup> September, 2018.
- xiii. V.R.S.S.Sumanth of III B.Tech. participated in the event, 'Idea Contest' with Title as “Water Filtration by Powder Metallurgy Technique” on Engineers day organized by ISTE Student Chapter and EDC Cell at P.V.P.Siddhartha Institute of Technology, Kanuru, Vijayawada on 15<sup>th</sup> September, 2018.
- xiv. D.Tarun of III B.Tech. participated in the event, 'Idea Contest' with Title as “Flex Fuel Vehicles” on Engineers day organized by ISTE Student Chapter and EDC Cell at P.V.P.Siddhartha Institute of Technology, Kanuru, Vijayawada on 15<sup>th</sup> September, 2018.
- xv. M.Ram Prasad, Anub Babu, Ch. Yona Kumar, A. Sai Chandu, B. JagathKumar, and K.Srinivas of IV B.Tech. participated in the “ISHRAE State Level Quiz Competition” organized by Department of Mechanical Engineering and Indian Society for Refrigeration & Air-Conditioning (ISHRAE) at Dhanekula Institute of Engineering and Technology, Vijayawada on 29<sup>th</sup> September, 2018.

## 12. Co-Curricular Activities:

- i. V.R.S.S.Sumanth of III B.Tech. participated in a Two-day National Workshop on Powder Metallurgy and Advanced Ceramics-2018 at Rajiv Gandhi University of Knowledge Technologies- Basar in association with Powder Metallurgy association of India(PMAI) on 27<sup>th</sup> & 28<sup>th</sup> September, 2018.

## 13. Value-Added Courses:

- i. A Value added course was conducted for 3<sup>rd</sup> B. Tech. students on “Advanced Manufacturing Processes” (3D-Printing, EDM, CNC) during 30.08.2018 to 07.09.2018.







#### 14. Professional Activities for the staff:

- i. ISTE faculty chapter of PVPSIT in Association with IQAC have organized a Seminar on “**IPR and Patents**” by Mr. K. Ravindranadh, Manager, Sci Tech Patent art services Pt. Ltd., Hyderabad on 29.09.2018 for all faculty members of PVPSIT.



#### 15. New Facilities Created:

PVPSIT has been identified as nodal centre by AP State Skill Development Corporation to establish “Dassaults Systems 3-D Experience Centre”. APSSDC has started Skill Development in Engineering Design in collaboration With Dassault Systems. The 3-D Experience Centre is inaugurated on 11th October, 2018 in Mechanical Department CAD Lab (Room no.: 319) for

conducting AP Skill development programmes. APSSDC has supplied 36 high-end HP laptops worth Rs 25 lakhs, at free of cost for conducting training programmes.



### 16. Co-Curricular Activities:

36 students of II B.Tech., 36 students of III B.Tech., and 30 students of 4<sup>th</sup> B.Tech., enrolled for 3D Experience Lab (Dassault systems).

