



## **ANNAMACHARYA INSTITUTE OF TECHNOLOGY & SCIENCES**

Utukur(P), C.K.Dinne (V & M),Kadapa Dist., AP

### **3.2.1 Details about the ecosystem created by the institution for innovations and initiatives for creation and transfer of knowledge**

#### **INDEX**

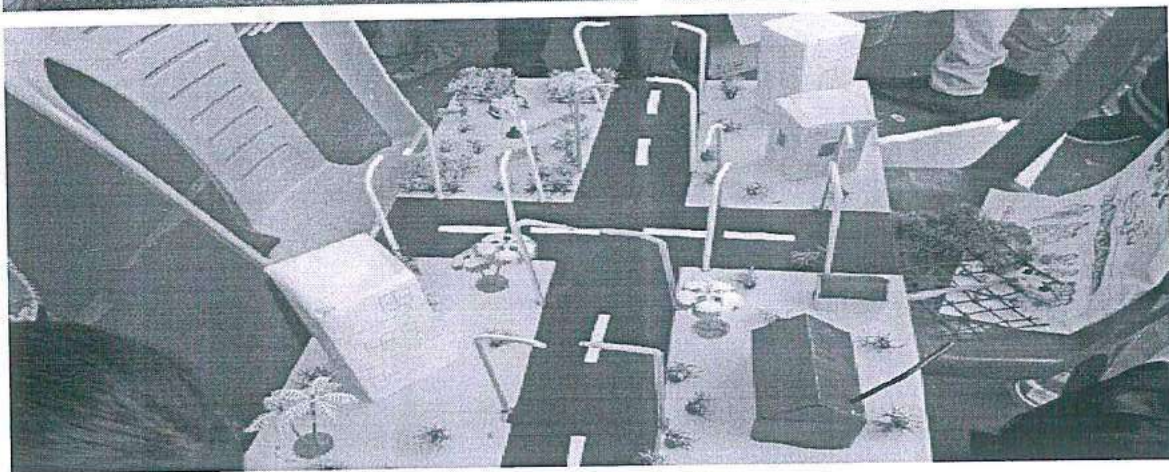
<b>S.No</b>	<b>Content in the report</b>	<b>Page No.</b>
1	Details about few innovative projects done by students of AITS Kadapa utilizing renewable energy sources by saving conventional sources and technical models for benefit of society	1-4
2	Details about technical symposium, 'Samsleshana' for providing a platform for students to extract their knowledge in the form of paper presentations	5-11
3	Cover letters, Registration forms and brochures of Samsleshana	12-18
4	Faculty patent publication details	19-20
5	Certificates issued by J.N.T. University Anantapur, Ananthapuramu for University Level Engineering Tech Fest	21-31
6	Details about Webinars and Online Quizzes conducted during Covid 19 lockdown period for continuation of knowledge transfer and certificates were issued to appreciate the enthusiasm of participants during the pandemic period	<a href="https://aitskadapa.ac.in/news-and-events">https://aitskadapa.ac.in/news-and-events</a>

# ANNAMACHARYA INSTITUTE OF TECHNOLOGY & SCIENCES

UTUKUR, C.K.DINNE, KADAPA

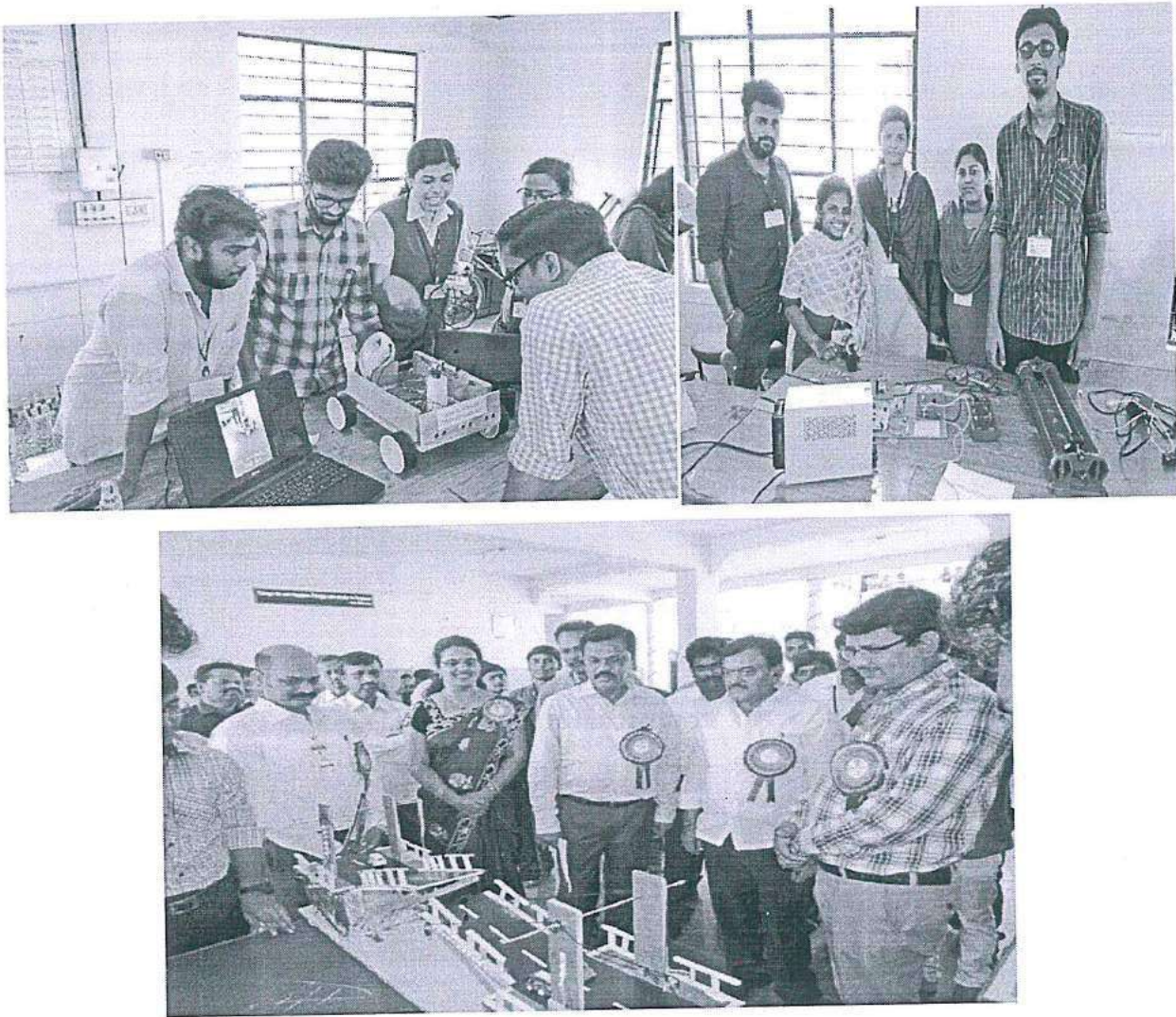
## Report on different innovative activities done by students of AITS Kadapa as a part of innovation eco system

An event "University level engineering technical fest-2k18" was organized by different departments of AITS Kadapa on 27th January 2018. This was organized by JNT University Anantapur, Ananthapuramu. Technical paper on "Smart LEDs for smart city" was selected as a best paper for university level presented by II year students. "Micro grid model" was selected as a best model for State level done by IV Electrical and Electronics engineering students. Certificates were issued to students by authorities of JNT University Anantapur, Ananthapuramu.



*[Signature]*  
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C.K. Dinne (V&M),  
KADAPA - 516 003. (A.P.)





Department of Mechanical engineering students have fabricated 'Solar grass cutter' without using any additional energy sources. By using bimetallic strip as sensor, engine exhaust heat from silencer of a vehicle is used to produce electrical energy, By using pulverized coal and Aluminium metal, hydrogen gas is produced which can be replaced by petrol. Hydrogen gas produced is stored in gas tank and a small engine is made to run. Electricity is generated using speed breakers. Based on gear pinion arrangement and flywheel rotation, power is generated. Vertical windmill is designed to be installed on train bogie by students. Electrical and Electronics engineering students have developed prototype model for controlling electrical loads using IoT. An IoT based fault detection system for underground cables and Distribution line security monitoring and protection models were developed by students of AITS Kadapa.

*AKASH*  
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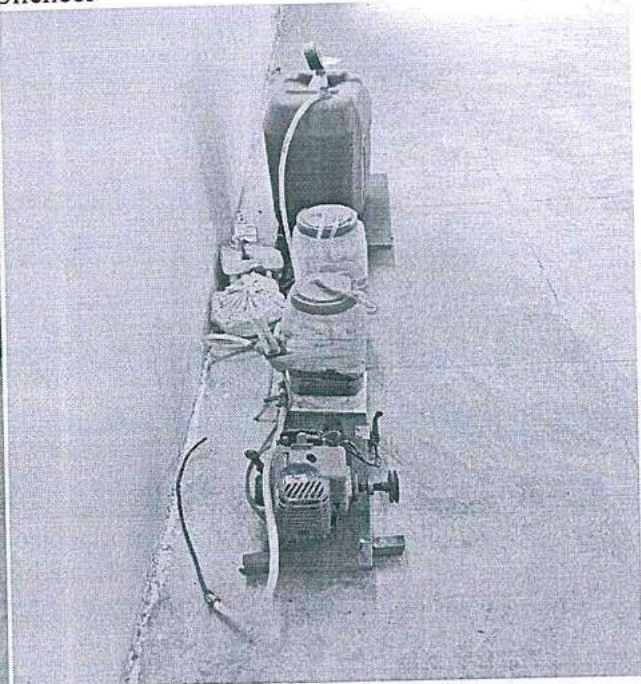
Vertical wind mill



Production of power using exhaust heat from Silencer



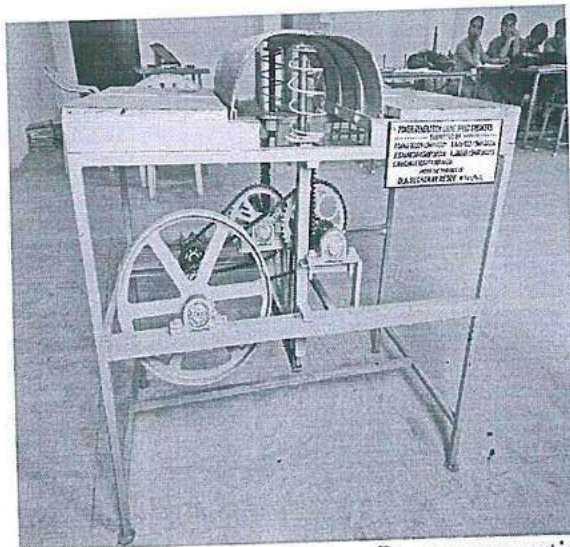
Solar grass cutter



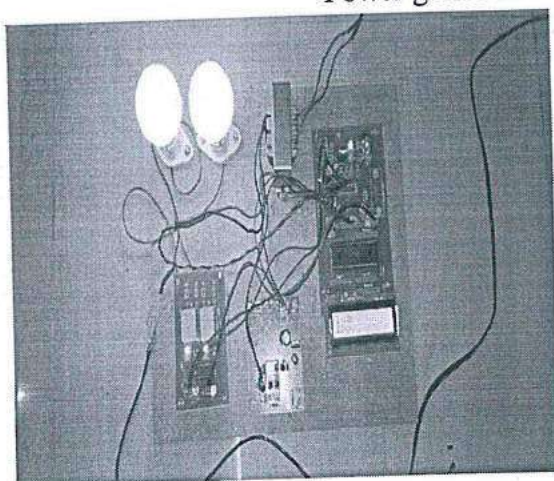
Production of Hydrogen gas

*Aravind*  
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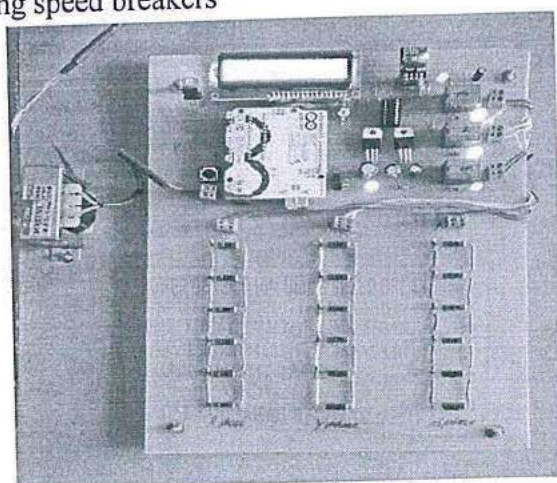




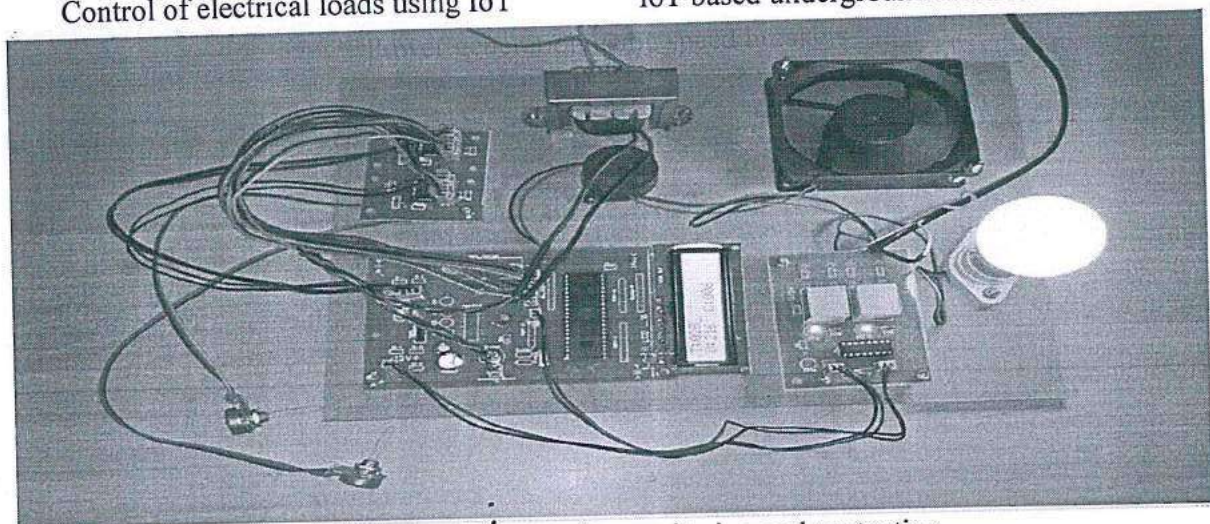
Power generation using speed breakers



Control of electrical loads using IoT



IoT based underground cable fault detector



Distribution line security monitoring and protection

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## SAMSLESHANA-2K19 OF CIVIL DEPARTMENT



Samsleshana 2K19 has been conducted on 23<sup>rd</sup> february in AITS Kadapa. Dr P. Sri Chandana, HOD of Civil department, AITS Kadapa has graced the occasion as jury member for symposium. Samsleshana- 2K19, the national level technical symposium aims to provide a common platform for all the participants to congregate and interact with peers. Around 40 students presented and 8 faculty members were participated in this program. Students of civil department have exhibited model projects. Prizes and certificates were distributed. The objective of this symposium is to enhance the student's creativity, thinking ability, team work, problem solving skill etc. Students could learn how to prepare presentations and they gained knowledge and also learn how to improve communication skills etc.

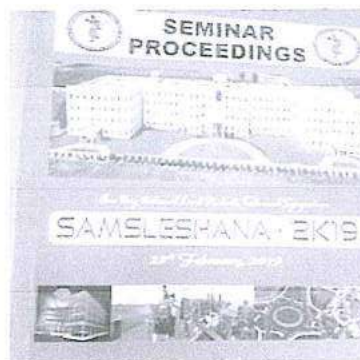
## SAMSLESHANA-2K19 OF EEE DEPARTMENT

A national level technical symposium, Samsleshana 2K19 was conducted by EEE department on 23-02-2019 in : EEE e-classroom, of AITS Kadapa. Sri O.Hemakesavulu, Associate Professor, EEE Department of AITS Rajampet acted as judge and guest of honor. Total numbers of papers received were 72 and papers called for presentation were 32. Papers presented on Hyper loop, Micro grid and Application of AI in IoT won cash prizes and many students enthusiastically participated in the event.

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### SAMSLESHANA-2K19 OF MECHANICAL DEPARTMENT



A one day national level students technical symposium called Samsleshana 2K19 has been conducted on 23<sup>rd</sup> February 2019 in Mechanical Department. Dr. S. Shakeel Ahamed, Professor of mechanical department graced the occasion as jury member for symposium. Samsleshana- 2K19, the national level technical symposium aims to provide a common platform for all the participants to congregate and interact with peers. Around 70 students presented and 14 faculty members were participated in this program. students of r department has exhibited model projects. prizes and certificates were distributed. the objective of this symposium is to enhance the student's creativity, thinking ability, team work, problem solving skill etc. students can learn how to prepare presentations and they can gain some knowledge and also learn how to improve communication skills etc.

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## SAMSLESHANA-2K19 OF ECE DEPARTMENT



A national level technical symposium SAMSLESHANA-2K19 was conducted on 23<sup>th</sup> February 2019, in the department of Electronics and Communication and Engineering for which Dr. T.Lalith Kumar, Head of the Department, ECE graced as jury member for paper presentations. Samsleshana-2K19 was conducted to provide a common platform for the participants to congregate and interact with peers. In this event around 52 participants presented their papers. The objective of this symposium was to enhance the student's creativity, thinking ability, team work, problem solving skills, communication skills and presentation skills and to encourage the students to get rid of their stage fear. Student participants not only get an opportunity to present their papers but also to observe the papers that were presented by other participants from various other colleges. Certainly this kind of technical symposium will help the students to improve their knowledge in various domains. Dr. T.Lalith Kumar the jury member of Samsleshana-2K19 had given his valuable suggestions to the participants to get improvisation in various aspects At the end of the event.



The image shows the front cover of a book titled "SEMINAR PROCEEDINGS". At the top, there are two circular logos: the left one features a person in a dynamic pose, and the right one features a gear-like design. Below the logos is a large, detailed illustration of a modern, multi-story academic building with a central tower. Underneath the building, the text "One Day National Level Students Technical Symposium" is written in a cursive font. The main title "Samsleshana - 2k17" is prominently displayed in a large, stylized, handwritten-style font. Below the title, the date "18<sup>th</sup> February, 2017" is printed. A horizontal strip of five small, square images follows, depicting various technical and scientific concepts: a person working on a computer, a person in a lab coat, a person in a hard hat, a person in a lab coat, and a person in a lab coat. At the bottom, the text "Organized By" is followed by "Department of Civil Engineering" and "Annamacharya Institute of Technology and Sciences - Kadapa" in a bold, serif font. The last line of text, in a smaller font, reads "(Approved by AICTE, New Delhi & Affiliated to JNTUA, Anaparthi Campus) Kadapa (P. O. C. K. D. S. V. L. M., Kadapa - 518003. Ph. 0864-221003)".

**SEMINAR PROCEEDINGS**

One Day National Level Students Technical Symposium

**Samsleshana - 2k17**

18<sup>th</sup> February, 2017

Organized By  
Department of Civil Engineering  
**Annamacharya Institute of Technology and Sciences - Kadapa**  
(Approved by AICTE, New Delhi & Affiliated to JNTUA, Anaparthi Campus)  
Kadapa (P. O. C. K. D. S. V. L. M., Kadapa - 518003. Ph. 0864-221003)

[illegible]

ಪ್ರಾಚೀನ ಕಾಲದಿಂದಲೂ ಮಹಿಳೆಯರ ಪಾತ್ರವು ಮಹತ್ವವನ್ನು ಪಡೆದಿದೆ. ಆದರೆ, ಸಮಾಜದಲ್ಲಿ ಅವರ ಸ್ಥಾನವು ಸಮಾನತೆಯನ್ನು ಪಡೆಯುವುದರಲ್ಲಿ ದೇಶವು ಹಿಳುಕುಗಾಳಿಯಲ್ಲಿದೆ. ಮಹಿಳೆಯರ ಸ್ವಾತಂತ್ರ್ಯವು, ಅವರ ಸಾಮಾಜಿಕ, ಆರ್ಥಿಕ ಮತ್ತು ಶೈಕ್ಷಣಿಕ ಸ್ಥಾನವು ಸುಗಮವಾಗಿ ಸುಧಾರಿಸುವುದು ಅವಶ್ಯಕವಾಗಿದೆ. ಇಂತಹ ಸಂದರ್ಭದಲ್ಲಿ ಮಹಿಳೆಯರ ಸ್ವಾತಂತ್ರ್ಯವು ಸಮಾನತೆಯನ್ನು ಸಾಧಿಸಲು ಸಹಾಯ ಮಾಡುತ್ತದೆ.

**SAMSLESHANA 2K17 BY EEE DEPARTMENT**





### SAMSLESHANA 2K17 BY MECHANICAL DEPARTMENT



A one day national level student's technical symposium called Samsleshana 2K17 has been conducted on 18<sup>th</sup> February 2017. Dr.S. Shakeel Ahmed, Associate Professor, Department of Mechanical Engineering, AITS Kadapa graced the occasion as jury member. Samsleshana-2K17, the national level technical symposium aims to provide a common platform for all the participants to congregate and interact with peers. Around 90 students presented and 12 faculty members were participated in this program. Cash prizes and certificates were distributed.

### SAMSLESHANA 2K17 BY ECE DEPARTMENT





A national level technical symposium SAMSLESHANA-2K17 was conducted on 18<sup>th</sup> February 2017, in the department of Electronics and Communication and Engineering for which Dr. T.Lalith Kumar graced as jury member for paper presentations. Samsleshana-2K17 was conducted to provide a common platform for the participants to congregate and interact with peers. In this event around 50 participants presented their papers. The objective of this symposium was to enhance the student's creativity, thinking ability, team work, problem solving skills, communication skills and presentation skills and to encourage the students to get rid of their stage fear. Student participants not only get an opportunity to present their papers but also to observe the papers that were presented by other participants from various other colleges. Certainly this kind of technical symposium will help the students to improve their knowledge in various domains. Dr. T.Lalith Kumar the jury member of Samsleshana-2K17 had given his valuable suggestions to the participants to get improvisation in various aspects.

### SAMSLESHANA 2K17 BY CSE DEPARTMENT



A One day technical symposium "SAMSLESHANA 2K17" was organized by CSE department of AITS Kadapa on 18-Feb-2017. Around 80 students and 22 faculty members were participated and benefitted in this symposium. Resource person was Dr.A.Nagaraja Rao, having teaching experience more than 20 years and received national and International awards during his career. Workshop was well organized by University Fellows and other senior faculty members. Students can learn that, when they get problems, how to approach, handle and resolve it in an efficient manner. It was a great exposure to the student to work in a team. At the end of the symposium, they developed number of prototypes for the different problems

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(Approved by AICTE, New Delhi & Affiliated to Jawaharlal Nehru Technological University Anantapur, Ananthapuramu)  
Utukur (P), C.K. Dinne (V& M), Kadapa, Y.S.R (Dt.), Andhra Pradesh, India – 516 003

## **SAMSLESHANA – 2K19**

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Sri C. Abhishek Reddy,  
Executive Director & Treasurer, AET.

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HOD, H&S, AITS, Kadapa.

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Sri Y. Nagaraja - HOD, EEE  
Sri M. M. Mohan Naik – HOD, ME  
Dr. T. Lalith Kumar– HOD, ECE  
Sri C.V.Subbaiah – HOD, CSE

### **Co-ordinator**

Dr. T. Lalith Kumar  
HOD, ECE (9441739740)

### **Organizing Committee**

Sri Y. Nagaraja – HOD, Dept. of EEE  
Sri A. Surendra – Dept. of ME  
Sri S. Shafiuddin – Dept. of CSE

### **Staff Co-ordinators**

Smt. G. Bhagyamma – Dept. of CE  
Sri S. Bala Siva Prasad – Dept. of EEE  
Sri P. Mallikarjuna – Dept. of ME  
Sri M. Venkata Subbaiah – Dept. of ECE  
Smt. S.Z. Parveen – Dept. of CSE

### **Student Co-ordinators**

Mr. S.J. PremDeep – Dept. of CE  
Mr. S. Amzad Valli – Dept. of EEE  
Mr. V. Pavan kalyan – Dept. of ME  
Mr. T. Kiran Kumar Reddy – Dept. of ECE  
Mr. G. Sai Jayadeep – Dept. of CSE

To

**The Principal,**

**Sir/Madam,**


**Sub: Invitation to the students for participation in “5<sup>th</sup> National Level Students Technical Symposium”. – Reg.**

We are glad to inform you that the Annamacharya Institute of Technology and Sciences, Kadapa is organizing 5<sup>th</sup> National Level Students Technical Symposium (**SAMSLESHANA-2K19**) on 23<sup>rd</sup> February 2019. The main objective of the program is to encourage young and future enterprise leaders of engineering to enhance their acquaintance with emerging technologies in various branches of engineering.

We humbly request you to intimate students of your esteemed institution about the event and encourage them to participate in the event and win attractive prizes.

Thanking you,

Yours faithfully,

  
(Dr. A. Sudhakara Reddy)  
**PRINCIPAL**

  
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**ANNAMACHARYA INSTITUTE OF**  
**TECHNOLOGY & SCIENCES**  
C.K. Dinne (V&M),  
KADAPA - 516 003. (A.P.)



# Registration Form

5<sup>th</sup> National Level Students Technical

Symposium

On 23<sup>rd</sup> February 2019

## Chairman

Sri C. Gangi Reddy  
Hon'ble Secretary, AET

## Chief Patrons

Sri C. Yella Reddy  
Vice-Chairman, AET  
Sri C. Abhishek Reddy  
Executive Director & Treasurer, AET.

## Patron

Dr. A. Sudhakara Reddy,  
Principal, A.I.T.S, Kadapa

## Convenor

Dr. K.N. Shashi Kumar, HOD, H&S

## Co-Conveners

Dr. P. Sri Chandana	HOD, CE
Sri Y. Nagaraja	HOD, EEE
Sri M. Murali Mohan Naik	HOD, ME
Dr. T. Lalith Kumar	HOD, ECE
Sri C.V. Subbaiah	HOD, CSE

## Co-ordinator

Dr. T. Lalith Kumar, HOD, ECE (9441739740)

## Organizing Committee

Sri Y. Nagaraja – HOD, Dept. of EEE  
Sri A. Surendra – Dept. of ME  
Sri S. Shaifuddin – Dept. of CSE

## Staff Co-ordinators

Smt. G. Bhagyamma – Dept. of CE  
Sri M. Bala Siva Prasad – Dept. of EEE  
Sri P. Mallikarjuna – Dept. of ME  
Sri M. Venkata Subbaiah – Dept. of ECE  
Smt. S.Z. Parveen – Dept. of CSE

## Student Co-ordinators

Mr. T. S.J.Prem Deep – Dept. of CE  
Mr. S. Amzad Valli – Dept. of EEE  
Mr. V. Pavan Kalyan – Dept. of ME  
Mr. T. Kiran Kumar Reddy – Dept. of ECE  
Mr. G. Sai Jayadeep – Dept. of CSE

SAMSLESHANA-2K19

5<sup>th</sup> National Level Students

Technical Symposium

23<sup>rd</sup> February 2019



Organized by

Annamacharya Institute of  
Technology and Sciences::Kadapa

Utturk(P), C.K.Dinne(V&M),  
Kadapa, Y.S.R Dist.

Andhra Pradesh – 516 003  
Off: 08562-201003

www.aitskadapa.ac.in

C.K. Dinne (V&M),  
KADAPA - 516 003. (A.P.)

Signature of HOD / PRINCIPAL with seal

(Xerox copy of this form can be used if necessary)



## About The Institution

Annamacharya Institute of Technology and Sciences was founded by Annamacharya Educational Trust in the year 2010, Kadapa.

The ambition, goal and noble vision of the founder, Sri C. Gangi Reddy, have been the driving force behind the trust. Sri C. Gangi Reddy strongly believes that the success of an institution hinges on its potential to constantly inspire confidence through its faculty and sophisticated facilities.

The institute is situated in a very quiet and serene zone, 3 km proximity to Kadapa and 130 km away from temple-town Tirupati, the sprawling campus throbs with educational activities. Excellent faculty group, outstanding learning ambience and infrastructure, well-appointed residential facilities help students stay focused in constructive learning. The experience and encouraging attitude of the faculty members help students to scale great heights.

## Courses Offered

### B. Tech.

CE, EEE, ME, ECE & CSE.

### M. Tech.

Structural Engg, EPS, Thermal Engg, VLSISD and CSE.

## Highlights of the Program:

1. Participation Certificate will be given to all the participants.
2. Prizes will be awarded.

## Topics for Paper Presentation

### Dept. of CE

1. Challenges and Developments in Construction Field
2. Disaster Management and Mitigation
3. Energy and Environment
4. Advances in Transportation Engineering
5. Concepts in Geotechnical Engineering
6. Trends in Hydraulic Structures
7. Other core Civil Engineering subjects

### Dept. of EEE

1. Micro Grids and Smart Grids
2. Application of Artificial Intelligence and IoT to Electrical Systems
3. Electrical Vehicles
4. Recent Advancements in Power Electronic Technologies
5. Advanced Technologies in Power System Protection

### Dept. of ME

1. 3-D printing
2. Bio-Mechanics
3. Smart Materials
4. Energy Engineering
5. MEMS & Nano-Technology
6. Artificial Intelligence

### Dept. of ECE

1. Signal & Image Processing
2. VLSI & ULSI Technology
3. Embedded Systems & RTOS
4. Emerging Trends in Communication Systems
5. Nano Electronics

## Dept. of CSE

1. Blockchain Technology
2. Machine Learning
3. Cyber Security
4. Chatbot Applications
5. MongoDB Analytics

## Instructions to Candidates

1. The Competition is open only for B.Tech. Students.
2. A paper can have maximum of two authors.
3. Paper must be in IEEE format.
4. Papers must be sent through E-mail only.
5. No TA/DA is permissible.

## Registration Fee:

- Rs.100/- per Paper
- Payable at the time of Registration at College.

## Important Dates:

Last Date for submission of paper: **16/02/2019**

Date of Intimation of acceptance: **18/02/2019**

## Send Your Papers To:

CE : samsleshana.ce@gmail.com  
EEE : samsleshana.eee@gmail.com  
ME : samsleshana.me@gmail.com  
ECE : samsleshana.ece@gmail.com  
CSE : samsleshana.cse@gmail.com

## Guidelines to Authors:

Full length paper not exceeding 7-8 pages of A4 Size, with margin one inch around, in Times New Roman, 12 font size.

Maximum of two authors per paper. The first page should contain authors name and email.

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KADAPA - 516 003. (A.P.)

C.K. Dinne (V&M)

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# Annamacharya Institute of Technology and Sciences ::Kadapa

(Approved by AICTE, New Delhi & Affiliated to JNTUA, Ananthapuram)  
Utukur (P), G.K.Dinne (V&M), Kadapa - 516003. Ph : 08562-201003

## SAMSLESHTANA-2K19

A National Level Students Technical Symposium

**CSE**

- 1. Challenges and Development in Construction Field
- 2. Disaster Management and Mitigation
- 3. Energy and Environment
- 4. Advances in Transportation Engineering
- 5. Concepts in Geotechnical Engineering
- 6. Trends in Hydraulic Structures
- 7. Other Core Civil Engineering Subjects

Send Your Papers to  
samsleshtana.ce@gmail.com  
G.Bhagyanima - 8555096316

**EEE**

- 1. Micro Grids & Smart Grids
- 2. Application of Artificial Intelligence & IoT to Electrical Systems
- 3. Electrical Vehicles
- 4. Recent Advancements in Power System Electronic Technologies in Power System
- 5. Advanced Technologies in Power System Protection

Send Your Papers to  
samsleshtana.eee@gmail.com  
M. Bala Siva Prasad - 9959394454

**ECE**

- 1. Signal & Image processing
- 2. VLSI & ULSI Technology
- 3. Embedded Systems & RTOS
- 4. Emerging Trends in Communication Systems
- 5. Nano Electronics

Send Your Papers to  
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M. Venkata Subbaiah - 8555051912

**CSE**

- 1. Blockchain Technology
- 2. Machine learning
- 3. Cyber security
- 4. Chatbot Applications
- 5. MongoDB Analytics

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S.Z. Parveen - 8522856648

**ME**

- 1. 3-D printing
- 2. Bio-Mechanics
- 3. Smart materials
- 4. Energy engineering
- 5. MEMS & Nano-Technology
- 6. Artificial Intelligence

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**Co-Ordinator**  
**Dr. T. Lalith Kumar**  
HOD, ECE, AITS, Kadapa

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**S. Shafiuddin**  
Mobile : 9052311737

**Principal**  
**A. Surendra**  
Mobile : 9918356284

**GUIDELINES FOR PAPER PRESENTATION**

1. All the papers should be sent in IEEE format
2. Maximum 2 Authors per paper.
3. Rs. 100/- Registration Fee per paper.
4. Last Date of Submission 16<sup>th</sup> February, 2019
5. Date of Intimation 18<sup>th</sup> February, 2019

C.K. Dinne (A.P.)  
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Executive Director, AET

### **Patron**

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### **Convener**

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Vice-Principal, AITS, Kadapa

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Sri Y. Nagaraja – HOD, EEE  
Sri M. M. Mohan Naik – HOD, ME  
Smt. T Vijaya Nirmala – HOD, ECE  
Sri C.V.Subbaiah – HOD, CSE

### **Co-Ordinator**

Dr. T.Lalith Kumar  
Dept of ECE (9441739740)

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To :

**The Principal,**

**Sir,**

**Sub:** Invitation to the students for participation in A National Level Students Technical Symposium.


We are glad to inform you that the Annamacharya Institute of Technology and Sciences, Kadapa is organizing 4<sup>th</sup> National Level Students Technical Symposium (**SAMSLESHANA-2K17**) on 18<sup>th</sup> February 2017. The main objective of the program is to encourage young and future enterprise leaders of engineering to enhance their acquaintance with emerging technologies in various branches of engineering.

We humbly request you to intimate students of your esteemed institution about the event and encourage them to participate in the event and win attractive prizes.

Thanking you,

Yours faithfully,

  
(Dr. A. Sudhakara Reddy)  
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TECHNOLOGY & SCIENCES

C.K. Dinne (V&M),  
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#### EEE

- ☆ DC Micro Grids & Smart Grid
- ☆ Application of Artificial Intelligence to Electrical Systems
- ☆ Smart Electricity & Special Machines
- ☆ Power Converter Technologies in Power System
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#### GUIDELINES FOR PAPER PRESENTATION

1. All the papers should be sent in IEEE format.
2. Maximum 2 Authors per paper.
3. Rs. 100/- Registration Fee per paper.
4. Last Date of Submission 12<sup>th</sup> February, 2017
5. Date of Intimation 14<sup>th</sup> February, 2017

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On 18<sup>th</sup> February 2017

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Roll Number: \_\_\_\_\_  
Year & Branch: \_\_\_\_\_  
Name of the \_\_\_\_\_  
College: \_\_\_\_\_  
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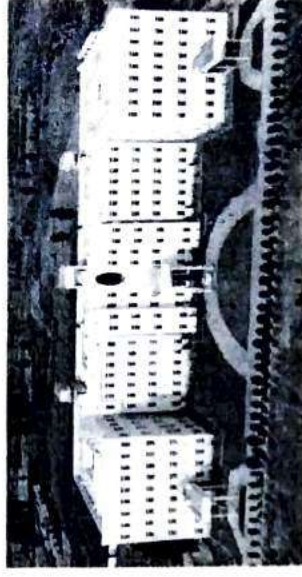
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## About The Institution

Annamacharya Institute of Technology and Sciences was founded by Annamacharya Educational Trust in the year 2010, Kadapa.

The ambition, goal and noble vision of the founder, Sri C.Gangi Reddy, have been the driving force behind the trust. Sri.C. Gangi Reddy strongly believes that the success of an institution hinges on its potential to constantly inspire confidence through its faculty and sophisticated facilities.

The institute is situated in a very quiet and serene zone, 3 km proximity to Kadapa and 130 km away from temple-town Tirupati, the sprawling campus throbs with educational activities. Excellent faculty group, outstanding learning ambience and infrastructure, well-appointed residential facilities help students stay focused in constructive learning. The expertise of the faculty members, their helpful and encouraging attitude help students scale great heights.

## Courses Offered

### B. Tech:

CE, EEE, ME, ECE & CSE.

### M. Tech:

CSE, CS, VLSI SD, EPS, St.E & Th.E.

## Highlights of the Program:

1. Symposium kit is provided to all the participants
2. Participation Certificate will be given to all the participants.
3. Attractive Prizes to the winners.

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2. Water Scarcity & Environmental issues
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2. Application of Artificial Intelligence to Electrical Systems
3. Smart Electricity & Special Machines
4. Power Converter Technologies in Power System Protection
5. Advanced technologies in Power System Protection

### Dept.of ME

1. Advances in Thermal Engineering
2. Cryogenics
3. Lean/Virtual Manufacturing Systems
4. Advanced Robotic Systems
5. Green Energy

### Dept.of ECE

1. Signal & Image Processing
2. VLSI & ULSI Technology
3. Embedded Systems & RTOS
4. Emerging Trends in Communication Systems
5. Neural Networks & Fuzzy logic

### Dept.of CSE

1. Big Data
2. Cloud Computing
3. Cryptography & Network Security
4. Internet of Things(IOT's)
5. Digital India Hackathon

## Instructions To Candidates

1. The Competition is open only for B.Tech Students.
2. A paper can have maximum of two authors.
3. Paper must be in IEEE format.
4. Participants should send their papers through E-mail only.
5. No TA/DA is permissible.

### Registration Fee:

- Rs.100/- Per Paper
- Payable at the time of Registration at College.

### Important Dates:

Last Date for submission of paper: **12/02/2017**  
Date of Intimation of acceptance: **14/02/2017**

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EEE : samsleshana.eee@gmail.com  
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### Guidelines to Authors:

- Full length paper not exceeding 7-8 pages of A4 Size, with margin one Inch around, in Times New Roman, 12 font size
- Maximum of two authors per paper. The first page should contain authors name and email

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Field of the invention : JET STREAM TURNING TOOL HOLDER FOR CRYOGENIC SPRAY/JET COOLING  
 PUBLICATIONS

International classification :B23Q17/09,  
 B23Q17/24,  
 B23Q11/10  
 Priority Document No :NA  
 Priority Date :NA  
 Name of priority country :NA  
 International Application No :NA  
 Filing Date :NA  
 International Publication No :NA  
 Parent of Addition to Application Number :NA  
 Filing Date :NA  
 Divisional to Application Number :NA  
 Filing Date :NA

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 517325 Andhra Pradesh India

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3)Mrs. B. UMA

4)Mr. HARINANDAN KUMAR

5)Dr. G. HEMATH KUMAR

6)Mr. P. MALLIKARJUNA

(72)Name of Inventor :

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5)Dr. G. HEMATH KUMAR

6)Mr. P. MALLIKARJUNA

Abstract

Abstract: Cryogenic machining is an environmental clean machining technique. Supply of cryogenic coolant (liquid nitrogen/liquid carbon dioxide) at the machining zone significantly reduces the cutting zone temperatures and improves the any metal removal rate. This improves performance greatly while machining of difficult to cut materials. General flooding of cryogenic coolant at the machining zone leads to more production cost. Also, flood cooling with cryogenic coolant leads to unwanted cooling areas results in more tool wear and consumption. These drawbacks can be reduced with help of cryogenic spray/jet cooling, where cryogenic coolant is supplied at the cutting area where heat will develop using micro nozzles. From extensive study in the field of cryogenic machining, it was found that the way of cryogenic coolant supply at the machining zone with micro nozzles can significantly affect the machining performance. Therefore, a tool holder design has been modified and fabricated to supply the cryogenic coolants in the novel way to the machining zone. The modified tool holder acts as a jet stream tool holder for supplying the cryogenic coolant to both rake and flank face of cutting tool simultaneously. This is an efficient method and assists to obtain significant favorable turning process characteristics. Also, the fabrication of jet stream tool holder involves less cost and cheaper when compared to the currently available tool holders providing only rake face cooling.

Fig Pages : 7 No. of Claims : 7

  
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Title of the invention : APPARATUS FOR MIST COUPLED CRYOGENIC CUTTING FLUIDS DELIVERY SYSTEM

International classification	:B23C5/207; B23C5/28; B23Q11/10	(71)Name of Applicant : 1)Dr. P. Sivaiah Address of Applicant :DEPARTMENT OF MECHANICAL ENGINEERING, MADANAPALLE INSTITUTE OF TECHNOLOGY AND SCIENCE, ANDHRA PRADESH - 517 325, Andhra Pradesh India
Priority Document No	:NA	2)Dr. D. Chakradhar
Priority Date	:NA	3)B.Uma
Name of priority country	:NA	4)Mr.Harinandan Kumar
International Application No	:NA	5)Dr. G. Hemanth Kumar
Filing Date	:NA	6)Mr. P. Mallikarjuna
International Publication No	:NA	(72)Name of Inventor :
Percent of Addition to Application Number	:NA	1)Dr. P. Sivaiah
Filing Date	:NA	2)Dr. D. Chakradhar
Divisional to Application Number	:NA	3)B.Uma
Filing Date	:NA	4)Mr.Harinandan Kumar
		5)Dr. G. Hemanth Kumar
		6)Mr. P. Mallikarjuna

**Abstract :**  
Supply of cryogenic coolant in the form of jet at the machining zone using a self-pressurized cryogenic tank involves more cost due to the high cost of the self-pressurized cryogenic tank. All the existing patents on cryogenic coolant supply methods and apparatus involves use of high cost self-pressurized cryogenic tank. Integrated cryogenic-minimum quantity lubrication (MQL) mist cooling method positively affects the machined product service life. In the present invention, a new apparatus is introduced to supply the integrated cryogenic-minimum quantity lubrication (MQL) mist coolant at the machining zone. This invention involves simultaneous supply of cryogenic coolant and MQL mist at the machining zone in the forms of jetspray. This method is capable of significant decrease of wear and fracture resistance of the cutting tool as well as significant reduction of coefficient of friction between the contacting asperities at the industrial cutting conditions. This invention could be useful in various chip removal cutting processes like turning, milling, drilling, shaping and grinding. For cryogenic coolant supply in the integrated cryogenic-minimum quantity lubrication (MQL) mist apparatus, a special low cost setup has been designed to avoid the high cost of self-pressurized tank. The present invention is a robust in design and low cost even merely compared with individual self-pressurized cryogenic cooling method of apparatus only. The invented method is an environmental friendly and satisfies the environmental conscious regulation related to metal cutting industry.

Pages : 8 No. of Claims : 7

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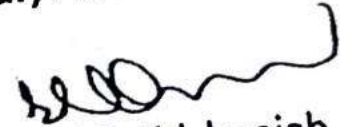
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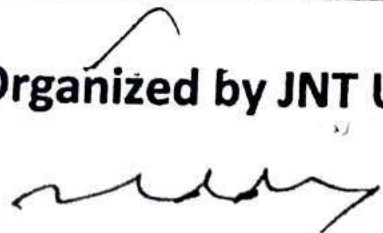
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