



VIDYA ACADEMY OF SCIENCE & TECHNOLOGY TECHNICAL CAMPUS –
Kilimanoor
“A Unit of Vidya International Charitable Trust”

WEDNESDAY NEWS

Issue No. 105# 1st December to 31st December, 2019

Events/Talks/Seminars/Conferences

- **Faculty Development Programme on *RECENT ADVANCES IN COMPOSITE MATERIALS* 16TH to 18TH December 2019 Sponsored by APJ Abdul Kalam Technological University**

A three-day Faculty Development Programme on “**RECENT ADVANCES IN COMPOSITE MATERIALS**” sponsored by APJ Abdul Kalam Technological University was held at Vidya Academy of Science & Technology Technical Campus (VAST TC) conducted by the Department of Mechanical Engineering from 16-12-19 to 18-12-19. The FDP aims to provide opportunities to the faculty members of various engineering colleges affiliated to KTU to enrich their knowledge in the field of advanced materials and its various applications. The Programme also intends to develop the teaching skill of participants for inculcating learning values in students and guiding and monitoring their progress in the field of materials technology.

The FDP received an overwhelming response from faculty members from various KTU affiliated engineering colleges and out of which 20 participants from various engineering colleges and 10 participants from VAST-TC were short listed to attend the programme.

INAUGURAL SESSION:

The esteemed personalities were present in the inauguration of the programme:

- Dr.T.Mathavaraj Ravikumar, Principal, VAST TC
- Dr.ANANTHAKUMAR .S ,Senior Principal Scientist, CSIR-NIIST, Trivandrum
- Prof.Bijeesh.P Head, Department Mechanical Engineering
- Prof.Vijay Kumar Head, Department Civil Engineering
- Prof. Saheeda P.A., Head, Department of Electronics & Communication



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- Dr.M.C.John Wiselin, Head, Department of Electrical & Electronics Engineering
- Prof.Subha Devi A K Head, Department of Applied Science
- Mr.Vimal.A. Assistant Professor, Mechanical Engineering Department

➤ **Prof Bijeesh.P** Head of the Department of Mechanical Engineering welcomed all the respected dignitaries and participants. In the welcome speech he shared his views with the faculty participants that if faculty wants to develop themselves and their students, then attending such FDP would enhance their skills of teaching concepts practically. Further he explained the importance and organizing the FDP. He briefed the participants about the subjects chosen for the FDP and highlighted the reasons and importance of the same.



➤ **Dr.T.Mathavaraj Ravikumar**, Principal, VAST TC appreciated the Mechanical Engineering Department and APJ Abdul Kalam Technological University for organizing the FDP in his speech. He pointed out that this FDP is the second sponsored FDP at the VAST-TC campus. He also pointed out the importance of establishing a Center of Excellence in our campus. He further added that this programme will provide special benefits to faculty members.



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- Dr. ANANTHAKUMAR S Senior Principal Scientist, CSIR-NIIST, Trivandrum emphasized the benefits of such kind of resourceful activity and also briefed about recent advances in composite materials in his speech.
- The inauguration programme ended with the vote of thanks by Mr. Vimal.A.

TECHNICAL SESSIONS:

Day 1 (16/12/2019):

Session 1:

Dr Ananthakumar S, Senior Principal Scientist, CSIR-NIIST, Thiruvananthapuram has delivered keynote address on **RECENT ADVANCES IN COMPOSITE MATERIALS**. In this session the participants were introduced to the new materials, process and technology developments. He stressed on the point **Learn from Nature as model**.

This session was based on **Max Phase Nano Composites for Advanced Applications**.

The highlights of the session were

- **Advanced Processes of Max phase materials**
- **Nano Materials**
- **Silica Based Composites Gels for Adsorption**
- **Smart Materials**



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Session 2:

The second session was also taken by Dr V V Manikandan,. This session was based on **Developments of Aluminium Composites**

The highlights of the session were

- **Advanced Processes Aluminium matrix composites for Engineering Components**



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Day 2 (17/12/2019):

Session 1:

On the final day the first session was handled by **Mr.Vimal A.** Assistant Professor, Department of Mechanical Engineering, VAST TC. The session was based on **Self-healing of Composites**

- **Self-healing Composites.**
- **Applications.**
- **Processing of Composites**
- **Fibre Layout during Composite processing.**



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Session 2:

On the Second day the Second session was handled by **Mr.Harikrishnan M.** Assistant Professor, Department of Mechanical Engineering, Rajagiri School of Engineering. The session was based on **Surface Machining of Composites using VMC**

- **Surface Machining.**
- **Crystal Structure Modification After Surface Machining.**
- **High Entropy Composites.**
- **Stimulation in materials surface modification.**



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Day 3 (18/12/2019):

Session 1:

On the final day the first session was handled by Dr Sekar. Assistant Professor, Department of Mechanical Engineering, NIT Calicut. The session was based on Processing and Manufacturing of Aluminium Composites by Stir Casting

The highlights of the session were:

- **Stir Casting process parameters.**
- **Stir Casting machine manufacturing.**
- **Stir Casted Materials Properties**



Session 2:



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On the final day the second session was handled Mr.Ramu Rajendran VAST-TC. The session was based on *Machining of ceramic composites*.

The highlights of the session were:

- **New challenges in ceramic matrix composites**
- **Powder metallurgy process in fiber reinforced ceramic matrix composites**
- **Processing methods and machining methods for ceramic matrix composites**



VALEDICTORY SESSION:

The honorable personalities present in the occasion were,

Dr.T.Mathavaraj Ravikumar Principal

Mr.Bijeesh, Asso.Prof./ ME



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Mr.Vimal A. AP/ME

Mr. Rohith Raj . AP/ME

All the personalities elaborated the successful conduct of the FDP by the department. The program was ended with vote of thanks by Prof Bijeeesh.P HOD/ME and Coordinator of the FDP. All the participants were issued the participation certificates.



OUTCOME:

All the sessions were very much informative. The discussed areas are of great benefit for the participants as the topics match with the current working domain. Participants were enlightened



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with the most widely used advance technologies in this domain. This in turn will help in research activity in the area of advanced composite materials.

➤ **Two Days Faculty Development Program on “Design and Simulation of Control Systems and Power Electronic Circuits” using MATLAB**

Department of Electrical and Electronics Engineering, Vidya Academy of Science and Technology Technical Campus organized Two days Faculty Development Program on “*Design and Simulation of Control Systems and Power Electronic Circuits using MATLAB*” on 19th and 20th of December 2019. Prof. Lekshmi S was the consent resource person for the 2 day Programme. The objective of the FDP was to work with MATLAB user interface and thereby to familiarize the usage of m-file scripts and Simulink on Control Systems and Power Electronic Circuits.





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➤ **WORKSHOP AT POLYTECHNIC COLLEGE**

- ❖ Successfully completed workshop at Kaimanam Womens Polytechnic College on 09/12/2019 and 10/12/2019 on Embedded systems. The session was handled by Ms. Ashe Sudevan Bhaskaran.
- ❖ Successfully completed workshop at Kottiyam Sree Narayana Polytechnic College on 11/12/2019 on Embedded systems. The session was handled by Ms. Shilpa Das and Ms. Praveena
- ❖ Successfully completed workshop at Neyyantinakra Polytechnic College on 10/12/2019 on MATLAB. The session was handled by Ms. Anjana. N and Ms. Diya U Pradeep.
- ❖ Successfully completed workshop at Punalur Polytechnic College on 16/12/2019 on MATLAB. The session was handled by Ms. Anjana. N and Ms. Praveena. P



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➤ **BRANCH COUNSELLOR’S CONGRESS**

- ❖ Mr. Chandu C. B Asst Prof, ECE Student Branch Counsellor of VAST TC attended the Branch Counsellors’ Congress, IEEE at Maurya Rajadhani on 11/12/2019.



➤ **TWO DAYS TECHNICAL SESSION**

Department of Computer Science & Engineering had organized two-days technical session at VAST TC kilimanoor for Second year polytechnic students of Govt Polytechnic,Attingal on 18th December 2019 & 19th December 2019 The Session were handled by Ms.Rini Vijayan (Asst Prof.CSE) & Ms. Divya M.K(Asst Prof. CSE)



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ACHIEVEMENTS OF STAFF

Faculty Development Programs/Achievements

Name of faculty	Department	Course provider/Institution	Period	Topic
Ms.Karthika ET	EEE	College of Engineering Trivandrum	9 th to 13 th December 2019	System Identification and Parameter Estimation
Ms.Asna S Asok				





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NEWLY JOINED FACULTY/STAFF

Name of Faculty/Staff	Department	Designation	Remarks
Ms. Lekha B.Nair	HOSTEL	HOSTEL MATRON	30/12/2019

CONTRIBUTORS TO THIS EDITION

Dr. T. Mathavaraj Ravikumar(Principal), Mr.Jithin A.S(Asst.Prof ME), Ms. Karthika E.T.(Asst. Prof EEE), Ms Anjana . N. (Asst.Prof .ECE), Ms. Tina J., (Asst. Prof. CE), Ms Vigitha Vidyadhar (Asst.Prof A.S) Ms. Aswathy S., PA to Principal.

SUGGESTIONS & SUPPORT

We value your suggestions for improvement. For contact or assistance on related matters please send us an email to wednesdaynews@vidyatcklmr.ac.in. We shall get back to you at the earliest.

Wednesday News Team