



Approved by AICTE & Affiliated to RTU, BTER
AN ISO 9001: 2015 CERTIFIED ENGINEERING COLLEGE

13 YEARS
OF EXCELLENCE



Mechanical Engineering Department



News Letter
Mechanical Mirror
Published on
January 2021

VOLUME II,
ISSUE II

Vision

Towards a Global Knowledge Hub, striving continuously in pursuit of excellence in Mechanical Engineering Education, Entrepreneurship and Innovation

Mission

- To impart total quality education through effective hi-tech teaching-learning techniques and department-industries collaboration.
- To mold the young dynamic potential minds to emerge as full-fledged future professionals so as to achieve top ten ranking status in the national level.
- To achieve international standards to fulfill the Government's "Make In India" industrial policy through innovation and research.

Program Specific Outcomes (PSO's)

PSO1: Ability to challenge the start of an accessible business and address the complex technical issues identified in designing, heat, and creating related businesses with the target device.

PSO2: Ability to directly analyze and recover actual situations related to design using calculation methods and tools. You can work freely under research and mechanical conditions.

PSO3: The ability to intelligently incorporate information received both verbal and compound.

Message from Director



Dr. Hemant Dhabhai
Director, Aravali Institute of Technical Studies

Mechanical engineering is one of the oldest and broadest engineering disciplines, and plays a significant role in enhancing safety, economic vitality, enjoyment and overall quality of life throughout the world. A prerequisite for development is growth and that is directly related to production or output of a country. If production is done via a sustainable path, it can maintain the sustainability of development.

I am glad to know that the Department of Mechanical Engineering of AITS is bringing out a monthly Newsletter. The college is proud of the achievements of the students and staff of the department and bringing out this Newsletter. I wish all success for the Newsletter and hope they carry forward the vigor and dedication for bringing out the future volumes of Newsletter.

EDITOR DESK



Gourav Purohit
ADSW, Aravali Institute of Technical Studies

It gives me an immense pleasure to introduce Mechanical Mirror Newsletter of Mechanical Engineering. This newsletter will help our department stay connected to a given community. As we offer students a regular dose of department-related news and information, we are also giving them another way to contact department and to keep in touch with it. Even as students or faculty graduate and alumni, they will likely stay in contact with the newsletter, thereby preserving the relationship they have with the department.

Message from HOD

The Mechanical Engineering Department was established in the year 1990 with an intake capacity of 60 students per year in Diploma and B.tech Program. A separate building having Top floor is available for department. In addition to this a separate building for workshop is also available opposite to the mechanical building. The faculty members are highly qualified and experienced.

During the course of the study, the students are imparted theoretical and practical knowledge in the various aspects of Mechanical Engineering at diploma level. In addition they are also exposed to industrial environment through industrial visits and industrial trainings/internship. Our institute has Various Clubs Activities in which the students are trained for social service and community development activities .Sports facilities are also available in our institute through which the students are trained in physical education and activities.

It is heartening to note the all the students passing out of our department are successfully place in various nearby industries as well as pursuing higher technical studies bringing a good name to the institution in the region.

Mr. Gourav Purohit

Professor and Head Department of Mechanical Engineering

INDEPENDENCE DAY Celebration

Date: 15 th August, 2020

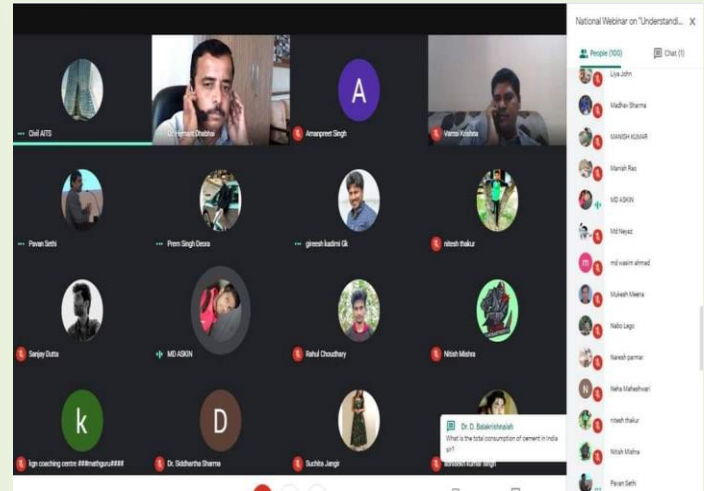
Flag hosting By: Mr. O.P. Agrawal



NATIONAL WEBINAR: UNDERSTANDING CEMENT TEST REPORTS

Date: 15 th September, 2020

Key Note Speaker: Mr. Praveen Y. Sethi, Zonal Head, JK White



Cement.

ARAVALI
INSTITUTE OF TECHNICAL STUDIES
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16TH YEARS OF EXCELLENCE

National Webinar On

UNDERSTANDING CEMENT TEST REPORTS

Date : – September 15th, 2020
Time : – 11:00 AM – 12:00 PM

Highlights :

- ▶ Understanding of different types of cement tests
- ▶ Free Registration
- ▶ E-Certificate will be issued to all participants

Registration Link : –

<https://forms.gle/dVpQXAkQnfBqcTKV9>

Session Through
GOOGLE MEET

JK WHITE CEMENT
THE PERFECT WHITE

SMA GROUP

Keynote Speaker:-
Mr. Pavan Y. Sethi
Zonal Head, JK White Cement

Contact Us :-
Sachin Sharma, Head, CE
+91-7976851995
hod.civil@aravalieducation.org

Organised By -
DEPARTMENT OF CIVIL ENGINEERING
Aravali Institute of Technical Studies, Udaipur

LIVE TALK SHOW: SOLAR ENERGY AND ITS APPLICATION

Date: 22 th September, 2020
Key Note Speaker: Mr. Prakash Bahrani

LIVE 39:54 Mic is muted

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Database of non-conventional sources installed in India region wise

Region	Solar Power(MW)	Wind (MW)	SHF (MW)	Biomass Power(MW)	Total(MW)
Northern Region	31220	6000	2430	4140	46350
Western Region	28410	22800	125	2875	54010
Southern Region	24551	28200	1475	2612	59018
Eastern Region	12237	0	135	244	12616
North Eastern Region	1205	0	615	0	1820
All India	99533	60800	3900	10000	174333
% of total	57.03	34.37	2.26	5.72	100

*Source: <http://www.mre.gov.in/mission-and-vision-2/achievements>

Aravali Institute of Technical Studies, Dabhol
india@aravalieducation.org

Tech., M. Tech., M.C.A., Polytechnic Diploma, B.Sc. Nursing, B.C.A., B.Sc.

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Join us Live for a talk on..

Solar Energy & Its Application

TOPICS:

- Solar Panel Designing
- DC Power Control
- Battery Storage System

Speaker
Mr. Prakash Bahrani
Head, Electrical Engineering Dept.
Aravali Group

Modcreator:
Ms. Usha Sharma
Assistant Professor
Electrical Engineering Dept.
Aravali Group

JOIN US ON
f LIVE

Date : - September 22nd, 2020
Time : - 2:00 PM

Admission Open 2020-21

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Polytechnic Diploma | B.Sc. Nursing | B.C.A. | B.Sc.

streamycdn.com/hcbah7qev5

Solar Energy and its application...

LIVE 39:58 Mic is muted

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PV Array Size

WORST CASE SCENARIO

When days of autonomy is less than the days of autonomy, then the battery must be recharged by taking much day following the days of autonomy.

Why = $(Wh_{day} + Wh_{night}) + (Wh_{day} + Wh_{night}) \times \frac{n_d}{n_s}$

Private Chat

Comments

Prakash Bahrani, HOD EE, AITS - 02:37 PM
ok

Prakash Bahrani, HOD EE, AITS - 02:32 PM
am i size available

Karan Singh, CEO, RWTCPL - 02:33 PM
no sir its fine, just speak a bit louder

Karan Singh, CEO, RWTCPL - 02:33 PM
if u can buy a head phone with a mic it will be great.

Prakash Bahrani, HOD EE, AITS - 02:36 PM
we can stop the slides now

You're in the show!
Everyone can see and hear you.

Utmudee | Stop Cam | Cam/Mic | Share Screen | Leave Studio | Host's Control

Class List (2020-2021) | Class List (2020-2021)

Type here to search

9:53 PM 9/22/2020

LIVE TALK SHOW: VASTHU SHASTRA IMPLEMENTATION IN CIVIL ENGINEERING APPLICATIONS

Date: 23 th September, 2020

Key Note Speaker : Ms.Rupal Sankhla Parekh, Vastu Consultant



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16TH YEAR OF EXCELLENCE

A Panel Discussion on **VAASTU SHASTRA** Implementation in Civil Engineering Applications

JOIN US ON
f LIVE

Date : October 23rd 2020
Time : 2:00 to 3:00 PM

- Modern Technique of Vaastu
- Role of Direction
- Coloring
- Slope
- Sources of Water
- Health is Wealth
- Remedies

APPLY ONLINE

Admission Open 2020-21

ORGANISED BY
DEPARTMENT OF
CIVIL
ENGINEERING

Speaker:
Mr. Sachin Sharma

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Polytechnic Diploma | B.Sc. Nursing | B.C.A. | B.Sc.

SMA
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INAUGURATION OF SARASWATI TEMPLE

Date: 23 th September, 2020

Chief Guest: Mr.Om Prakash Agrawal, Patron, Aravali Group of Colleges
Special Guest: Mr. N. L. Khetan, Secretary, Aravali Group of Colleges



EXPERT TALK SHOW: CAMPUS TO MARKET BE THE BEST VERSION OF YOURSELF

Date: 23 rd December , 2020

Keynote Speaker : Ms. Neha Gupta (Life Coach, Trainer, Founder, ImpossibleIndia, Gurgaon);
 Cmde (R) Vijay Rawat, (Veteran, Indian Navy);
 Mr. Bharat Mendiratta (Director, First Lease Consultants); Mr. Ankit Shrivastava (Head, Real Estate, Bharti Airtel).

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10th Anniversary
 In Recognition
 Technical University of India

Join us on Facebook Live
December 23, 2020, Wednesday
Time : 11:00 AM – 12:30 PM

Expert Talk Show on
"Campus to Market: Be the Best Version of Yourself"

Facebook LIVE

HIGHLIGHTS :

- Effective Communication Skills
- Personality Development
- Role of Management in Construction Industry
- Career guidance in Corporate Sector
- Time and Stress Management

KEYNOTE SPEAKERS :

Contact Person
 Mr. Sachin Sharma
 Head, Department of Civil Engineering
 +91-7976851995

Organised By
 Department of Civil Engineering
Aravali Institute of Technical Studies, Udaipur

Ms. Neha Gupta
 Life Coach, Trainer, Founder, ImpossibleIndia

Cmde (R) Vijay Rawat
 Veteran- Indian Navy

Mr. Sachin Sharma
 Moderator

Mr. Ankit Shrivastava
 Head Real Estate, Bharti Airtel

Mr. Bharat Mendiratta
 Director, First Lease Consultants



LIVE 36:00

PERSONALITY CHARACTERISTICS

EXTERNAL	INTERNAL
<ul style="list-style-type: none"> • Effective Communication • Knowledge • Motivation • Response to Situation • Social Adaptability • Sense of Decision, Governance • Realistic approach in a regular basis • USP 	<ul style="list-style-type: none"> • Intelligence Quotient • Emotional Quotient • Cultural Quotient

Commodore Vijaypal Rawat, VSM (Retd)

Vision:

Tomorrow will take care of itself if one does an excellent job today. To nurture and develop talent, blended with values and technology to strengthen the technical manpower of the nation.

Mission:

- Impart quality education along with industrial exposure.
- To provide industry interface for faculty and students to work on projects with end goal of real time knowledge.
- Enhancing the quality of life through sustainable development.
- To continuous development of infrastructure and enhance state-of-the-art equipment to provide our students a technology up-to-date and intellectually inspiring environment of learning, research, creativity, innovation and professional activity and provide ethical and moral values.



Disclaimer : All information published in this newsletter is based on events and reports that took place at Aravali Institute of Technical Studies. Errors, if any, are purely unintentional and readers are requested to communicate such errors to authorities.