



NEWS LETTER : 2020-21



ACET

E Spark

**Department of
Electrical
Engineering**

ISSUE - 11

ANJUMAN COLLEGE OF ENGINEERING & TECHNOLOGY

FROM **HOD'S** DESK



Dr. Archana Shirbhate
HEAD OF DEPARTMENT

Welcome and best wishes to all who receive this Newsletter. It gives me immense pleasure to present the Department's Newsletter "e-Spark-21". This internal newsletter is one of the ways in which we can disseminate information on the life of the Department. The past semester was full of various activities by the students and faculty in academics, co-curricular, extra-curricular as well as in research and developments. As you read through the pages you will realize that the Department had a particularly successful semester.

"E-Spark-21" provides a good platform to the students to express their views, talents, creativity and skills in different sphere. It takes us in a lane of achievements, creativity, hopes, ideas, technical perceptions and a promise of bright future. This edition of "e-Spark-21" is no exception and carries number of fascinating technical thoughts.

I hope this Newsletter will prove to be beneficial for the students and readers.

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Message from EDITOR



Dr. Ruhi Uzma Sheikh
Assistant Professor

A thought that has been enduring in a mind when it becomes real, is truly an interesting and exciting experience. This news letter "e-Spark-21" was one such cherished work that had its roots in the persuasion. It would be a snapshot of the various activities and advancements for all associated with Electrical Engineering Department. It also include technical articles related to developing technology in engineering field. Proper communication plays a vital role in institution's development. This news letter "e-Spark-21" will serve to reinforce and allow increased awareness, improved interaction and integration among all of us.. To achieve progress and to meet objectives we have to cross numerous milestones. I would like to thanks Principal Dr. S.M. Ali and head of Department Dr. Mrs. Archana Shirbhate for perennial growth and development of newsletter.

This 11th issue of newsletter "e-Spark-21" should inspire all of us for a new beginning and enlightenment with hope, confidence and faith in each other in the road ahead.....
Happy Reading!

Faculty Publications (Electrical Engineering)

Title of Paper	Name of the Author/s	Name of Journal	Year of Publication	ISSN Number
IOT Based Portable Monitoring System Smart Health Care	Ishraque Ahmed	International Journal For Advanced J Research In Science & For Technology	Jun-6	2457-0362
IOT Based Portable Monitoring System Smart Health Care	Najma Siddiqui	International Journal For Advanced J Research In Science & For Technology	Jun-6	2457-0362
Design & Implementation Of Solar Panel MPPT with Inverter and Battery towards Load side	Najma Siddiqui	International Journal For Advanced Research In Science & Technology	May - June 2021	2395-602x
Precise Fault Location Detection Using IOT	Sayyad Naimuddin	International Journal For Advanced Research In Science & Technology	July -Aug 2021	2395-602x
Precise Fault Location Detection Using IOT	Nahid Khan	International Journal For Advanced Research In Science & Technology	July -Aug 2021	2395-602x
Two Fold E Bicycle Using PMDC Motor	Pramod Gadge	International Journal For Advanced Research In Science & Technology	Jun-6	2582-7219
Two Fold E Bicycle Using PMDC Motor	Md Shfique	International Journal For Advanced Research In Science & Technology	Jun-6	2582-7219
A Review on IOT Based Smart Security and Home Automation	Ruhi Uzma Sheikh	International Journal For Advanced Research In Science & Technology	May - June 2021	2395-602x
E Waste Bin For Disinfection And Waste Management of Masks	Dr Archana Shirbhate	International Journal For Advanced Research In Science & Technology	May - June 2021	2395-602x
E Waste Bin For Disinfection And Waste Management of Masks	Shahid Arafat	International Journal For Advanced Research In Science & Technology	May - June 2021	2395-602x
Design And Fabrication of Electric Bicycle	Nawaz Sheikh	Journal Of Emerging Technologies And Innovative Research	June 2021	2349-5162
Constructing Solar Water Purifier	Akil Ahmed	International Journal Of Advanced Research in Science Communication and Technology	June 2021	2581-9429
A Review On Internet Of Things Based Humidifier For Mushroom Cultivation	Dr Sayyed Naimuddin	International Journal For Advanced Research in Science & Technology	June 2021	2395-602x
Seed Sowing Robo	Pramod Gadge	International Journal For Advanced Research in Science & Technology	May - June 2021	2395-602x
IOT Based Health Monitoring And Ventilator System Using Raspberry Pi	Dr Archana Shirbhate	International Journal Of Innovative Research In Electrical Electronics Instrumentation and Control Engineering	June 2021	2321-2004
IOT Based Health Monitoring And Ventilator System Using Raspberry Pi	Tahir Hussain	International Journal Of Innovative Research In Electrical Electronics Instrumentation and Control Engineering	June 2021	2321-2004
Traffic Assist E Bike	Dr Archana Shirbhate	International Journal For Advanced Research In Science & Technology	May - June 2021	2395-602x
Traffic Assist E Bike	Mohammad Safique	International Journal For Advanced Research In Science & Technology	May - June 2021	2395-602x
Traffic Assist E Bike	Dr Archana Shirbhate	International Journal Of Innovative Research in Electrical Electronics Instrumentation and Control Engineering	June 2021	2321-2004
Traffic Assist E Bike	Mohammad Safique	International Journal Of Innovative Research in Electrical Electronics Instrumentation and Control Engineering	June 2021	2321-2004

PUBLICATIONS



ON CAMPUS Placement

Details of Placement 2020-2021

Total Companies visited : 02

Total Candidates placed : 07

To place in reputed company, it's a dream of every newborn Engineer, but it comes true when it really happens. Today student got this opportunity because of their academic record, guidance of teachers and Training provided by college. This is the list of student placed in reputed industry during 2020-2021

Sr. No.	No. of Students Placed	Name Of The Employer	Name of the Students	Package Received (Lacs/annum)
1	2	Tudip Tech.	Puranandan Nandanwar Purval Manke	3.5
2	5	Dhoot Transmission	Praful Kale Pranay Lanjewar Dhaneshwari Chhanikar Manish Sharma Sheikh Sohel	1.2

Parent-Teachers Meet



We organize PTM, where the teachers and parents discuss the student's progress at college and find solutions to academic or behavioral problems. The main objective of a Parent-Teacher Meeting is to give an opportunity for parents and teachers to openly discuss what is happening at college and at home.

Seminars Attended by Faculty

DEPARTMENT OF ELECTRICAL ENGINEERING

Sr. No.	Name of Faculty	Seminar/ Workshop/ STTP	Title	Organised by College	Date	Level
1	Najma Siddiqui	STTP	Internet of Things(IoT): Concept and Implementation	YCCE, Nagpur	1st to 6th Dec 2020	National
2	Najma Siddiqui	FDP	Python + Machine Learning	APS Microtech Pvt ltd and PCE, Ngp	21st Dec to 30th Dec 20	National
3	Najma Siddiqui	Webinar	Heart to Heart: Emotion Management	ACET	14th Dec 2020	National
4	Najma Siddiqui	Webinar	Corporate Aptitude with Business Analysis	ACET	02nd Jan 21	National
5	Najma Siddiqui	Webinar	Patent Filling and IPR	ACET	16th Jan 21	National
6	Najma Siddiqui	Webinar	Importance of Intellectual Property in Academics	Yashwantrao Mohite College of Arts, Science and Commerce, pune	13th Jan 21	National
7	Najma Siddiqui	Webinar	Talent and Crisis	ACET	15 Feb 2021	National
8	Najma Siddiqui	Webinar	Introduction to Machine Learning	ACET	8 Feb 2021	National
9	Najma Siddiqui	ATAL FDP	Internet of Things	Kongunadu College of Engineering and Technology	25-29 Jan 2021	National
10	Najma Siddiqui	FDP	Modern Behavioral Practices for Maximum Personal Productivity	Government Polytechnic Nagpur	1-6 Feb 2021	National
11	Najma Siddiqui	DST sponsored STTP	Women's Entrepreneurship Development Programme	National Institute of Technology, Karnataka	1-26 Feb 2021	National
12	Najma Siddiqui	AICTE sponsored	The Pedagogic Approach for Effective Teaching Learning Through Outcome Based Education	ACET	1-6 March 2021	National
13	Najma Siddiqui	FDP TEQIP III	National Education Policy-2020,in context of Technology and Higher Education	Dr.Babasaheb Ambedkar Technology University, Raigad and Bajaj Institute of Technology, Wardha jointly organised	27 March 2021	National
14	Ruhi Uzma Sheikh	E-Quiz	Industrial Electronics and Drives	Annasaheb Dange College of Engg & Tech, Ashta	06.07.2020	National
15	Ruhi Uzma Sheikh	E-Quiz	"Engineer's Role during Pandemics"	In Technical Collaboration with IEEE, ISTE, IEI" "Annamacharya Institute of Technology & Sciences (An Autonomous) KADAPA (Dist) AP"	03.06.2020 to 04.06.2020	National
16	Ruhi Uzma Sheikh	E-Quiz	Control System	Modern College of Engg, EE, Pune	28.05.2020	National
17	Ruhi Uzma Sheikh	E-Quiz	Teaching Aptitude in Education	JIT, EE, Nagpur	28.05.2020	National
18	Ruhi Uzma Sheikh	E-Quiz	VLSI and Embedded System	"ACET, EXTC Nagpur"	26th to 28th May 2020	National
19	Ruhi Uzma Sheikh	E-Quiz	Covid-19 Awareness Programme	"ACET, CSE, Nagpur"	14.05.2020	National
20	Ruhi Uzma Sheikh	ATAL FDP	Control Systems & Sensors Technology	Bhilai Institute of Technology, Durg.	6-11 Nov 2020	National
21	Ruhi Uzma Sheikh	ATAL FDP	Internet of Things(IoTs)	SRCOEM, Nagpur	15-19 Dec 2020	National
22	Ruhi Uzma Sheikh	(AICTE Sponsored TEQIP-III)	Challenges, Opportunities and Emerging Trends in the Fields of High Voltage and Electrical Insulation (AICTE Sponsored TEQIP)	IIT (BHU), Varanasi	1st Feb to 6th Feb 2021 (1 Week)	National
23	Ruhi Uzma Sheikh	Webinar	Transformer Protection	ACET, Nagpur	12 July 2020	National
24	Ruhi Uzma Sheikh	Webinar	Patent Filling and IPR	ACET	16th Jan 21	National
25	Ruhi Uzma Sheikh	Webinar	The Growth of Women Empowerment in Virtual Era	IEEE (M.P), IETE Bhopal & Gwalior Section, Institute of Engineers (India)	13 Sep 2020	National
26	Ruhi Uzma Sheikh	Webinar	Engineering Education	IEEE (M.P), IETE Bhopal & Gwalior Section	5 Sep 2020	National
27	Ruhi Uzma Sheikh	webinar	Heart to Heart: Emotion Management	ACET	14th Dec 2020	National
28	Ruhi Uzma Sheikh	AICTE Sponsored FDP	Introduction to Smart Grid (ITSG-2020) Phase-I	KDKCOE, Nagpur	23 Nov- 4 Dec 2020	National
29	Ruhi Uzma Sheikh	Moodle Test for Teachers Training, IIT Bombay,	"Moodle Test for Teachers Training IIT Bombay, started with funding from the National Mission on Education through ICT, Ministry of Education (previously MHRD), Govt. of India"	ACET, Nagpur.	22.09.2020	National
30	Akil Ahemad	FDP	Introduction to Smart Grid	KDK College of Engg.	7 to 18 Dec 2020	National
31	Akil Ahemad	webinar	Transformer Protection	ACET, Nagpur	12-07-2020	National
32	Akil Ahemad	Webinar	glimpse in the life of an entrepreneur	ACET, Nagpur	23/12/2020	National
33	Nawaz Sheikh	FDP	Introduction to Smart Grid	KDK College of Engg.	7 to 18 Dec 2020	National
34	Nawaz Sheikh	STTP	Sustainable Energy System: Topology, control and policy		12 to 16 Oct 2020	National
35	Nawaz Sheikh	Webinar	Transformer Protection	ACET, Nagpur	12 July 2020	National
36	Nawaz Sheikh	FDP	Grid Integration and Protection	Kommpuri Pratap Reddy Institute of Technology, Telangana	22 to 27 June 2020	National
37	Nawaz Sheikh	FDP	Online teaching learning processes using ICT tools for Education 4.0	ST. Vincent Palloti	8 to 13 June 2020	National
38	Yasmin Sayeed	STTP	Internet of Things(IoT): Concept and Implementation	YCCE, Nagpur	1st to 6th Dec 2020	National
39	Yasmin Sayeed	FDP	Python + Machine Learning	APS Microtech Pvt ltd and PCE, Ngp	21st Dec to 30th Dec 20	National
40	Yasmin Sayeed	Webinar	Heart to Heart: Emotion Management	ACET	14th Dec 2020	National
41	Yasmin Sayeed	Webinar	Patent Filling and IPR	ACET	16th Jan 21	National
42	Yasmin Sayeed	STTP	Transformation in Engine Technology (BSIV to BSVI) and Electric Vehicle	Mech, ACET, Nagpur	20 to 27 June 2020	National
43	Shahid Ansari	Webinar	Transformer Protection	ACET, Nagpur	12 July 2020	National
44	Shahid Ansari	FDP	Online teaching learning processes using ICT tools for Education 4.0	ST. Vincent Palloti	8 to 13 June 2020	National
45	Shabnam Rukhsar	Webinar	Art of writing research paper	ACET, Nagpur	5th December 2020	National
46	Nahid Khan	ATAL FDP	Internet of Things(IoT): Concept and Implementation	YCCE, Nagpur	1st to 6th Dec 2020	National
47	Nahid Khan	FDP	Python + Machine Learning	APS Microtech Pvt ltd and PCE, Ngp	21st Dec to 30th Dec 20	National
48	Nahid Khan	webinar	Patent Filling and IPR	ACET	16th Jan 21	National
49	Nahid Khan	STTP	Transformation in Engine Technology (BSIV to BSVI) and Electric Vehicle	ACET	20 to 27 June 2020	National
50	Nahid Khan	webinar	Heart to Heart: Emotion Management	ACET	14th Dec 2020	National





Academic Session 2020-21



Students' Achievements

Congratulations





3rd Semester Topper's Winter-2020 Examination

 18 th UNIVERSITY RANK Meshram Nidhi Rajendra 1 st Topper 85.23% SGPA = 8.89	 19 th UNIVERSITY RANK Mahajan Leena Bhojraj 2 nd Topper 86.46% SGPA= 8.85	 21 th UNIVERSITY RANK Sondhiya Noman Sheikh 3 rd Topper 84.31% SGPA= 8.78	 22 th UNIVERSITY RANK Shaswat Manasranjan Das 4 th Topper 84.76% SGPA = 8.74
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4th Semester Topper's Summer-2021 Examination

 6 th UNIVERSITY RANK Shaswat Manasranjan Das 1 st Topper 89.84% SGPA = 9.58	 7 th UNIVERSITY RANK Mahajan Leena Bhojraj 2 nd Topper 88.46% SGPA= 9.52	 15 th UNIVERSITY RANK Sujyot Sunil Jibe 3 rd Topper 86.61% SGPA= 9.15	 17 th UNIVERSITY RANK Atharwarwarke 4 th Topper 85.53% SGPA = 9.07	 21 th UNIVERSITY RANK Sondhiya Noman Sheikh 5 th Topper 83.23% SGPA= 8.93
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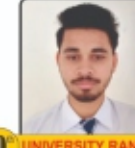
5th Semester Topper's Winter-2020 Examination

 16 th UNIVERSITY RANK Aarish Sameer Pathan 1 st Topper 87.71% SGPA = 9.14	 21 th UNIVERSITY RANK Pathan Owais Mehboob 2 nd Topper 84.85% SGPA= 8.97	 22 th UNIVERSITY RANK Krutika Bogade 3 rd Topper 85.57% SGPA= 8.93	 22 th UNIVERSITY RANK Ayush Barmate 3 rd Topper 83.42% SGPA= 8.93	 24 th UNIVERSITY RANK Faisal Samiullah Khan 4 th Topper 84.00% SGPA= 8.83
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6th Semester Topper's Summer-2021 Examination

 5 th UNIVERSITY RANK Aarish Sameer Pathan 1 st Topper 91.28% SGPA = 9.48	 18 th UNIVERSITY RANK Krutika Bogade 2 nd Topper 85.85% SGPA= 8.93	 20 th UNIVERSITY RANK Aishwarya Lakhe 3 rd Topper 86.85% SGPA= 8.86	 20 th UNIVERSITY RANK Arya Ingle 4 th Topper 85.28% SGPA= 8.86	 21 th UNIVERSITY RANK Dhanashree Meshram 5 th Topper 92.15% SGPA= 8.83
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7th Semester Topper's Winter-2020 Examination

 10 th UNIVERSITY RANK Dyneshwari Channikar 1 st Topper 85.38% SGPA = 9.07	 15 th UNIVERSITY RANK Pranay Nikose 2 nd Topper 83.23% SGPA = 8.80	 16 th UNIVERSITY RANK Md. Musharaf Ahmed 3 rd Topper 83.23% SGPA= 8.77	 18 th UNIVERSITY RANK Md. Anwar Rafique 4 th Topper 81.85% SGPA= 8.70	 19 th UNIVERSITY RANK Mohd. Zubair Khan 5 th Topper 83.23% SGPA= 8.67
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8th Semester Topper's Summer-2021 Examination

 4 th UNIVERSITY RANK Dyneshwari Channikar 1 st Topper 86.66% SGPA = 9.54	 13 th UNIVERSITY RANK Md. Musharaf Ahmed 2 nd Topper 84.50% SGPA= 9.38	 16 th UNIVERSITY RANK Mohd. Zubair Khan 3 rd Topper 83.66% SGPA= 9.31	 20 th UNIVERSITY RANK Noushin Siddiqui 4 th Topper 83.00% SGPA= 9.23
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Guest Lectures

Topic	Date	Name of Resource Person	Name of Institute/ Industry	Total Participants	Type of Participants
Trends and Opportunities in Industrial Robotics & Automation	20-02-2021	Mr. Anil Tatode	Training Officer, Dept of Robotics & Cloud Technology, RTMNU.	92	Faculties, PG & UG Students
Introduction to Machine Learning	08-02-2021	Mr. Prashant Jha	Trainer and Co-founder APS MICROTECH Pvt,Ltd.	115	Faculties, PG & UG Students.
Talent and Crisis Management	15-02-2021	Dr.G.K. Awari	HOD (AU), Government Polytechnic	75	Faculties, PG & UG Students.
Protection of Transformer	12-07-2020	Mr.Kuldeep. Bahadure	Assistant Engineer, Mahagenco	264	Faculties, PG & UG Students.
Soft Skills for Engineering Students	10-12-2020	Dr.G.K. Awari	HOD (AU), Government Polytechnic	75	Faculties, PG & UG Students.
Strengthening Communication Skill	02-03-2021	Mr.Rishi Chaurasia	Founder Director, Vikalp Educatio	124	Faculties, PG & UG Students.
Importance of Aptitude for Placements	03-02-2021	Mr.Rishi Chaurasia	Founder Director, Vikalp Educatio	124	Faculties, PG & UG Students.

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NAAC (ACCREDITED)
MANGALWARI BAZAR ROAD, SADAR, NAGPUR - 440001

organizing
WEBINAR
ON
PROTECTION OF TRANSFORMER

Date: 12th July 2020
Time: 11:00 am to 12:30 pm

LINK FOR REGISTRATION
<https://forms.glnV0PzEz275Yv0P9P>

SPEAKER
Kuldeep D. Bahadure
Assistant Engineer, MAHAGENCO
Experience: 10+ Years
Director of Channel - ELEC/TECH
Channel Brand link :
www.youtube.com/electrichd

Dr. S.M. ALI
Principal, ACET

Dr. ARCHANA SHIRBHATE
HOD, Electrical Department

Prof. AKIL AHMED
Event Coordinator
9788740905, 9595323101

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COLLEGE OF ENGINEERING & TECHNOLOGY
NAAC (ACCREDITED)
MANGALWARI BAZAR ROAD, SADAR, NAGPUR - 440001

DEPARTMENT OF ELECTRICAL ENGINEERING
Presents
WEBINAR ON
"SOFT SKILLS FOR ENGINEERING STUDENTS"

10th December 2020
Time: 2 pm to 3 pm

Dr. G.K. Awari
HOD (AU) Govt. Polytechnic Nagpur

Dr. SYED MOHAMMAD ALI
Principal

Dr. ARCHANA SHIRBHATE
HOD, Dept. of Electrical Engg.

Prof. NAHID KHAN
Event Coordinator

ANJUMAN
COLLEGE OF ENGINEERING & TECHNOLOGY
SADAR, NAGPUR, MAHARASHTRA - 440001
WEBSITE : www.anjumanengg.edu.in

Department of Electrical Engineering
Presents
Webinar On
"Importance of Aptitude for Placements"

Mr. Rishi Chourasia
(Founder Director) Vikalp Education
MBA (Finance) Diploma MCA (JBIIMB)
15+ Years Experience

3rd February, 2021
11:00 - 12:30 PM

Dr. Archana Shirhate
HOD, Electrical Engg. ACET

Dr. Syed Mohammad Ali
Principal, ACET

Prof. Yasmeen Sayeed
Event Coordinator, ACET

Prof. Mrs. Nahid Khan
Event Coordinator, ACET

ANJUMAN
COLLEGE OF ENGINEERING AND TECHNOLOGY
Mangalwari Bazar Road Sadar Nagpur. 440001

DEPARTMENT OF ELECTRICAL ENGINEERING
Organising Webinar on
"Introduction to Machine Learning"

8 February 2021
11am to 12noon

Dr. S.M. Ali
Principal, ACET

Dr. Archana Shirhate
Head of Electrical Engg. Dept.

Prof. Yasmeen Sayeed
Event Coordinator, ACET

Prof. Nahid Khan
Event Coordinator, ACET

Mr. Prashant Jha
Trainer and Co-founder
APS Microtech Pvt. Ltd.

ANJUMAN
COLLEGE OF ENGINEERING & TECHNOLOGY, NAGPUR
DEPARTMENT OF ELECTRICAL ENGINEERING
In Association with
DEPARTMENT OF ROBOTICS & CLOUD TECHNOLOGY, RTMNU
Organizing
A Online Webinar on
"TRENDS AND OPPORTUNITIES IN INDUSTRIAL ROBOTICS & AUTOMATION"

11:00 AM TO 1:00 PM IST
On Saturday, February 20, 2021

Registration Link
<https://bit.ly/3U7W8D9>

Event Coordinator
Prof. Rishi Chaurasia
ACET Nagpur

Event Coordinator
Prof. Yasmeen Sayeed
ACET Nagpur

Coordinator
Mahesh Yekar
Training Development
Dept. of Cloud Technology
RTMNU, Nagpur

Dr. S.M. Ali
Principal
Department of Engineering
& Technology, ACET

Dr. Archana Shirhate
HOD
Department, ACET Nagpur

Dr. Seema Usani
HOD
Dept. of Industrial Robotics
& Cloud Technology, RTMNU, Nagpur

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COLLEGE OF ENGINEERING AND TECHNOLOGY
Mangalwari Bazar Road Sadar Nagpur. 440001

DEPARTMENT OF ELECTRICAL ENGINEERING
Organising Webinar on
"TALENT AND CRISIS MANAGEMENT"

15 February 2021
01 pm to 2-30 pm

Dr. S.M. Ali
Principal, ACET Nagpur

Dr. Archana Shirhate
Head of Electrical Engg. Dept.

Prof. Yasmeen Sayeed
Event Coordinator, ACET

Prof. Nahid Khan
Event Coordinator, ACET

Dr. G. K. Awari
HOD (AU), Government Polytechnic, Nagpur

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MANGALWARI BAZAR ROAD, SADAR, NAGPUR - 440001
NAAC (ACCREDITED)

DEPARTMENT OF ELECTRICAL ENGINEERING
Presents
WEBINAR ON
"STRENGTHENING COMMUNICATION SKILL"

2nd MARCH 2021
11:00 AM TO 12:30 PM

Dr. SYED MOHAMMAD ALI
Principal

Dr. ARCHANA SHIRBHATE
HOD, Dept. of Electrical Engg.

Prof. NAHID KHAN
Event Coordinator

Mr. Rishi Chourasia
Founder & Director
Vikalp Education

The Wind Tree silently generates Electricity from gentle breezes



The reality of climate change is creeping in closer and closer each year, and it has led to an encouraging push to clean up the environment and shift to green, renewable energy sources. Countries from around the world are installing wind turbines and solar panels in remote areas, but how can a city, town, or individual contribute to the cause? New World Wind has the answer: The Wind Tree – an artificial tree designed to capture and convert wind energy.

What is a Wind Tree?

Installing traditional wind turbines takes a great amount of money, energy, and space. The technology works great and provides clean energy, but it is not practical to install the massive structures in the downtown of a city – let alone in someone's garden; that's where the Wind Tree comes in.

These artificial trees are designed with three steel trunks and other smaller branches that house miniature wind turbines in the shape of leaves. A small gust of wind propels the leaves into motion and the Wind Tree begins providing an environmentally friendly form of electric energy.

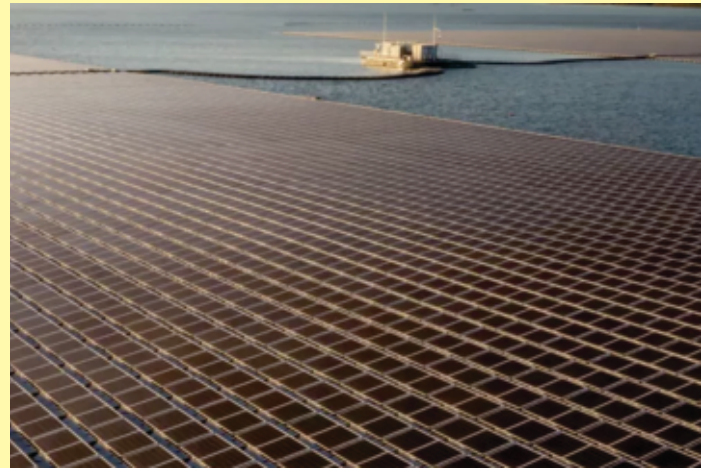
The Wind Tree only requires an 11-meter radius of land to be installed. Parks, business plazas, and even homes have suddenly become the perfect locations to host a source of renewable energy.

In the span of a year, New World Wind claims a single Wind Tree can generate 83% of a French household's electricity consumption.

Leena Mahajan
4th sem, Electrical Engineering

Floating SOLAR POWER PLANTS

THE NEXT FRONTIER IN SUSTAINABLE ENERGY



We explore the fascinating world of floating solar power plants. As the demand for renewable energy grows, interest in solar energy technology has increased, and floating solar power plants have emerged as an innovative solution to land scarcity.

Floating solar power plants are mainly solar panels mounted on floating structures such as rafts, pontoons or barges, then placed in bodies of water such as lakes, reservoirs or even the sea. These floating structures are anchored to the bottom of the body of water, and the solar panels are tilted to collect as much sunlight as possible.

In Sustainable energy source technology offers many advantages, such as efficient cultivation, less water evaporation, and lower maintenance costs. In addition, floating solar power plants can be used in various water bodies, from swimming pools to oceans, offering flexibility and scalability.

The article highlights the need for further research and investment in floating solar power plants to realize their full potential. With the continued development of technology and the focus on renewable energy sources, the future of floating solar energy looks promising.

As we move towards a cleaner and more sustainable future, we must continue to explore innovative solutions such as floating solar farms.

Shaswat Das
4th semester