



**Report
on**

One Week

AICTE Sponsored

Short Term Training Program Through Online Mode

On

“WIND AND EARTHQUAKE RESISTANT DESIGN”

Phase I - 20th July to 25th July 2020

Phase II - 23rd November to 28th November 2020

Phase III - 19th December to 24th December 2020

Organized By

Department of Civil Engineering



**Prof. Ram Meghe Institute of Technology & Research,
Anjangaon Bazi Road, Badnera (C. Rly),
Amravati (Maharashtra) 441701.**



Preface

One Week AICTE Sponsored Short Term Training Program Through Online Mode On **“WIND AND EARTHQUAKE RESISTANT DESIGN”** organized by Civil Engineering Department at Prof. Ram Meghe Institute of Technology & Research, Badnera, Maharashtra was held between 20th to 25th July, 2020.,23rd November to 28th November, 2020 and 19th to 24th December,2020. The STTP comprised of the programs including Analysis, Design and Hands on training of Wind and Earthquake Resistant Design. The program proved to be helpful for the participants keeping in view the present scenario of Infrastructural Development. Speakers from Renowned Institutions all over the Country presented different aspects of Wind and Earthquake Resistant Design.



Acknowledgement

We are highly indebted to Dr. Nitin Dhande, President, Vidarbha Youth Welfare Society's, PRMIT&R, and Bachern for his kind support and encouragement for organizing such an informative academic event. We are grateful to the Principal of the institute Dr. A.P. Bodakhe for his valuable directions for organizing such events of national importance.

Dr. P. S. Pajgade, Professor and Head of Department have greatly helped in smooth organization of this event. We acknowledge the useful suggestions and co-operation received from the departmental colleagues and specifically the section heads.

We all are thankful to all the executive member of the VYWS for their constant encouragement and support in organizing such event.

We thank The All India Council for Technical Education (AICTE) for sponsoring STTP, all the Principals of various college for allowing their faculty to participate and participants for their contributions towards One Week AICTE Sponsored Short Term Training Program through Online Mode On "WIND AND EARTHQUAKE RESISTANT DESIGN". We take this opportunity to express our sense of gratitude to the eminent speakers and professionals who have accepted our invitation to share their vast experience and expertise. Last but not the least we are thankful to all our faculty members for their persistent efforts to make this event possible.



MESSAGE



President

**Vidharbha Youth Welfare Society,
Camp Road, Amravati – 444 602**

I am pleased to know that the Department of Civil Engineering, Vidharbha Youth Welfare Society's, Prof. Ram Meghe Institute of Technology and Research, Badnera is organizing One Week AICTE Sponsored Short Term Training Program through Online Mode On "WIND AND EARTHQUAKE RESISTANT DESIGN" from 20th to 25th July,2020., 23rd to 28th November, 2020 and 19th to 24th December,2020.

The objective of this STTP is to disseminate information on the latest concepts, techniques and design data to structural engineers working in the design of wind and seismic resistant buildings.

I wish to express my sincere appreciation to the entire team of Department of Civil Engineering, Prof. Ram Meghe Institute of Technology and Research, Badnera for organizing this STTP.

I assure this program will help the Participants to acquire new skills and Knowledge. Wish you all the best.

Dr. Nitin Dhande



MESSAGE



**Principal,
(PRMIT&R), Badnera**

It gives me immense pleasure to welcome you all for AICTE sponsored STTP on “Wind and Earthquake Resistant Design” scheduled during July 20th to 25th; 2020, November 23rd to 28th, 2020 and December, 19th to 24th 2020. organized by our institute.

In recent years, there is a sharp increase in rapid development of infrastructures e.g. high rise structures, bridges for metro projects, flyovers, etc. This development made us aware to apply advanced solution in context to analysis and design with reference to application of earthquake and wind load on structures. Hence it is the most appropriate platform to lead this program and up skill our participants.

The organized Short Term Training Program has a unique method of teaching which employs practice based training for the participants. I hope after completion of this STTP all Participants will be satisfied and would be able to implement the learning from this program in future. I wish all the best for the next six days of the Short Term Training Program.

Dr. A. P. Bodakhe



MESSAGE



**Coordinator & HOD,
Department of Civil Engineering
PRMIT&R, Badnera**

At the outset, I welcome you all to AJCET sponsored STTP on "Wind and Earthquake Resistant Design" scheduled during July 20th to 25th, 2020, November 23rd to 28th, 2020 and December, 19th to 24th 2020., organized by Department of Civil Engineering Prof. Ram Meghe Institute of Technology and Research, Badnera.

As we all know earthquake cannot be prevented nor accurately predicted. It is not only ground shaking itself that causes life and economic loss but also the collapse or damage of buildings and infrastructure that are too "weak" to resist the ground shaking. An optimized design solutions can only be possible with in-depth knowledge of various advanced techniques and its use.

The present need of the hour is to develop the structures which are resistant to earthquake and wind load, owing to which our institute has introduced the STTP to familiarize the participants with the basic knowledge of earthquake, structural dynamics, earthquake and wind resistant planning, design and analysis. The soul aim of the STTP is train Participants for acquiring knowledge about current technological development in the field of Earthquake and Wind engineering.

On behalf of the entire team, I wish you all the very best for this innovative and creative learning experience. Hope you will cherish every moment of it.

A handwritten signature in black ink, appearing to read "P. S. Pajgade".

Dr. P. S. Pajgade



PRMIT&R, Badnera

The Vidarbha Youth Welfare Society's, Prof. Ram Meghe Institute of Technology & Research, Badnera, Amravati is a leading technological institute from central India. Established in the year 1983, the institute has a prestigious standing amongst the topmost technical institute of Maharashtra. The institute is approved by AICTE, New Delhi and the program is accredited by the National Board of Accreditation (NBA), New Delhi. Department of Technical Education (DTE), Govt. of Maharashtra, has awarded "A" Grade to the institute.

"Vidarbha Youth Welfare Society" was conceived to be the fountain head of education for rural areas of Amravati and Wardha in the year 1965.

The young, dynamic and forward looking management of PRMIT&R is carrying forward the pioneering legacy of the visionary founders, who dare to dream and strive hard to achieve their seemingly impossible goals. The management team comprises of qualified people and stalwarts from diverse fields. This helps them in coming up with the solutions to vagaries of the technical education field.



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I. Executive Summary

The AICTE sponsored one week short term training program (STTP) through online mode was organized successfully with the participation of (Nos. 92,49 and 62 in the I, II and III phase respectively). Faculty members from various Engineering colleges all over India. The STTP was inaugurated at the hands of Honorable Chairman of Vidharbha Youth Welfare Society, Sri Nitinji Dhande with motivation, encouragement and best wishes. Our beloved Principal, Dr. A. P. Bodke's message was read out by Dr. N. W. Ingole, Dean (Research promotion cell). The message gave the brief idea about the institute and basic information regarding the theme of STTP. Dr. P. S. Pujade, Head of Civil Engineering Department and Coordinator of STTP paved a walk through about program and necessity of wind and earthquake resistant design knowledge for the students, researchers and practicing/consulting engineers. The STTP comprised of the programs including Analysis, Design and Hands on training of Wind and Earthquake Resistant Design. The six days STTP portrayed technical sessions from speakers from Renowned Institute of the Country, who presented different aspects of Wind and Earthquake Resistant Design, namely **Dr. C. V. R. Murty (IIT Madras)**, **Dr. Yogendra Singh (IIT Roorkee)**, **Dr. O. R. Jaiswal (VNIT, Nagpur)**, **Dr. Ramesh Kumar (VNIT, Nagpur)**, **Dr. Saurabh Shiradbonkar (IIT Roorkee)**, **Dr. L. N. Gupta (VNIT, Nagpur)**, **Dr. Punit Bahdar (IIT Ropar)** and **Dr. Vijay Khose (Associate, Director, Tocsonit, Mumbai)** and **Dr. Nitha Kataria (PRMITAR)**. The program proved beneficial to participants for acquiring knowledge about current technological development in the field of Earthquake and Wind engineering. At the end of the course, the program proved to be helpful for the participants keeping in view the present scenario of Infrastructural Development. The experience of all the participants was very positive in all phases, wherein they thanked organizers for organizing such a well-planned and informative STTP. A quiz was conducted to assess the outcome of the STTP through online mode by making use of Google form. The program concluded with the Valedictory function in the presence of Dr. P. S. Pujade (Coordinator & Head, STTP) where the participants extended their views and gratitude towards the program.



Participants during the valedictory function during Phase I

2. About the Experts

The STIP helped the participants (Faculty of Engineering and Diploma, and Industry persons) to acquire basic knowledge of earthquake phenomenon, structural dynamics, earthquake and wind resistant planning, analysis and design. Participants got benefited by acquiring / updating knowledge about current technological developments in the field of Earthquake and Wind engineering with upgraded IS codes.

Dr. C. V. R. Murty

Dr. C. V. R. Murty is Professor in IIT Madras. He completed his Phd from California Institute of Technology (Caltech), USA. His area of interests in research includes Seismic behavior of steel and reinforced concrete (RC) structures, Modelling of nonlinear behavior of structures & Development of seismic design codes.

During STIP he delivered sessions on the topics "An overview of Indian earthquake design code and Earthquakes Resistant Design of Steel Buildings".



Dr. C. V. R. Murty



Dr. Yogendra Singh



Dr. Yogendra Singh

Dr. Yogendra Singh, is a Professor in Indian Institute of Technology, Roorkee. He completed BE in Civil Engineering from University of Roorkee, M.Tech and Phd in Structural Engineering From IIT Delhi. His Research Interests areas include Seismic Vulnerability and Risk Evaluation, Performance Based Design of Buildings and Bridges, Inelastic Seismic Response of Structures, Seismic Evaluation and Retrofitting of Structures, Slope-Structure Interaction, Earthquake Engineering in Hilly Regions.

Dr. Yogendra Singh, delivered his session on the topic “Behaviour of masonry building during Earthquake and Response spectra and time history analysis” during first and second phase and on “Earthquake Resistant Modelling and Analysis of Multi-storey building and Performance Based Design of RC Structure” during third phase of the STTP.

Dr O R Jaiswal

Dr O R Jaiswal is Professor in the Department of Applied Mechanics, VNIT Nagpur. He completed his Ph D from IISc, Bangalore. His Research interests include Earthquake analysis of structures, Tuned mass dampers, Stability of shells, Wind response of tall chimneys, Elevated water tanks, Railway bridges.

Dr O R Jaiswal conducted two sessions



Dr O R Jaiswal



in all three phases of on the topic “**Seismic analysis and modelling of building as per IS 1893: 2016**”.

Dr. L. M. Gupta



Dr. L. M. Gupta

Dr. L. M. Gupta is currently working as a Professor in Department of Applied Mechanics, VNIT Nagpur. His research interest includes Applied Mechanics, Design of Steel Structures, etc.

He conducted the session in the third phases on the topic “**Wind Resistant Design of Industrial Building**”. His contents in presentation were focused on effects of wind on Industrial Shade and design of Industrial Steel Structure Buildings.

Dr. Ratnesh Kumar

Dr. Ratnesh Kumar is working as an Associate Professor in Department of Applied Mechanics, VNIT Nagpur. He completed his PhD from IIT, Roorkee. Dr. Ratnesh Kumar's carrier is flooded with no. of awards, fellowships and memberships which includes Sir Arjun cotton Memorial Prize (IEI) on Dec 26th, 2011 and more.



Dr. Ratnesh Kumar

He conducted the sessions in all the three phases on the topics “**Introduction to Structural Dynamics and Ductile detailing consideration in earthquake resistant RC building as per IS 13920: 2016**” and on “**Seismology**” during Phase II and III. His presentation was focused on the concepts on Dynamic response of structural system, theory of vibrations, free and forced vibrations. Also, force displacement hysteresis loops, capacity design



philosophy, requirement of confined reinforcement and ductile detailing.

Dr. Putul Haldar



Dr. Putul Haldar

Dr. Putul Haldar is currently working as an Assistant Professor in the department of civil engineering, IIT Ropar. She has completed her BE from Bengal engineering and Science University, Masters from IIT Roorkee in 2008 and Ph.D in Seismic behavior and vulnerability of Indian RC Frame building with URM from IIT Roorkee.

Dr. Putul Haldar gave presentation on the topic **“Behaviour for Masonry building during Earthquakes & Earthquakes resistant design”** during third phase of STTP.

Dr. Sachin Bakre

Dr. Sachin Bakre is an Associate Professor in Department of Applied Mechanics, VNIIT Nagpur. He completed his PhD from IIT, Bombay. His Research interest areas include Seismic Response Control, Finite Element Analysis, Dynamic Response Analysis and Response of Structures to Blast Loads.

Dr Sachin Bakre delivered presentation on the topic **“Seismology”** during first phase of STTP. His presentation covered basic of seismology and earthquake engineering in relation to structural aspects, seismic hazards, Plastic theories and motion spectra.



Dr. Sachin Bakre



Dr. Saurabh Shiradhonkar



Dr. Saurabh Shiradhonkar

Dr. Vijay Khose

Dr. Vijay Khose is an Associate at Thornton Tomasetti, Mumbai. He has completed his PhD from IIT Roorkee. He has more than seven years of experience in the field of design of commercial and residential high-rise buildings, performance-based design of structures, seismic evaluation and retrofitting of structures, in the U.S., India and the Middle East. He also has knowledge of American, European, New Zealand and Indian seismic design codes.

Dr. Vijay Khose gave “Hands-on Training on Seismic Analysis of building by SAP 2000 / ETABS as per IS1893:2016” during all the three phases of STIP. He also delivered session on “Wind resistant analysis and design of structure” in all the three Phases.



Dr. Saurabh Shiradhonkar is presently working as an Assistant Professor in the department of Earthquake engineering, IIT Roorkee. He has completed B.E. from COEP in 2006. Then he completed M. Tech. in structural dynamics from IIT Roorkee in the year 2009. He then completed his PhD in 2016 from IIT Bombay in structural engineering.

Dr. Saurabh Shiradhonkar delivered presentation on the topic “**Risk Targeted Seismic Design**” during second phase of STIP. The interaction with participants was noteworthy.



Dr. Vijay Khose



Dr. N. P.Kataria



Dr. N. P.Kataria



Dr N P Kataria, is working as an Associate Professor at PRMIT&R, Badnera. He completed his BE from Amravati University in the year 2005, M Tech From IIT Roorkee in Earthquake Engineering in the year 2008 and Ph. D. from IIT Bombay in the year 2015. His research area mainly include Earthquake resistant design of structure, Base Isolation and Vibration Control.

He delivered on the topic "Seismic control using base isolation" during phase I. His presentation covered various base isolation devices and methods of application for the same as per the structural requirement.

3. Short Term Training Program through online mode

3.1 Introduction

In the last century, Indian continent suffered from number of Earthquakes and Cyclones. Bihar-Nepal border (M 6.5) in 1988, Uttarkashi (M 7) in 1991, Latur (M 6.2) in 1993, Jabalpur (M 6.0) in 1997, Chamoli (M 6.8) in 1999, Bbnj (M 6.9) in 2001, Sumatra (M 8.9) and Kashmir (M 7.6) in 2005 are the few examples of the same. More than one lakh fatalities occurred due to collapse of buildings and huge economic loss during these events. These losses can be reduced by performing Wind and Earthquake Resistant Design. The Short Term Training Program (STTP) helped the participants (Faculty of Engineering and Diploma, and Industry persons) to have basic knowledge of earthquake phenomenon, structural dynamics, earthquake and wind resistant planning, analysis and design.

Behavior of structures during past seismic activity and characteristics of different seismic event at different location leads to scientific committee think about finding rational method for



earthquake resistant structural analysis and design. For satisfying today's need Indian Standard codes for earthquake resistant design are updated. Therefore, main objective of these STTP was to acquire/update knowledge about current technological developments in the fields of Earthquake engineering with upgraded IS 1893:2016, IS 13920:2016 etc.

3.2 Objective

The STTP is highly beneficial not only to faculties but also industrial persons for future growth in construction, shaping the student in civil engineering etc. At the end of STTP participants will be able to

- 1) Apply knowledge of earthquake engineering for planning the new structure
- 2) Understanding basics of Structural Dynamics.
- 3) Perform earthquake resistant analysis and design
- 4) Faculty can update the knowledge of student for planning, analysis and design
- 5) Faculty can motivate the students for doing project/research in earthquake engineering field and wind resistant design.
- 6) Faculty can do consultancy work in the area of earthquake resistant design, proof checking and structural auditing.

3.3 The Collaborators

The All India Council for Technical Education (AICTE) Sponsored Short Term Training Program through online mode On "WIND AND EARTHQUAKE RESISTANT DESIGN" to the college Prof. Ram Meghe Institute of Technology & Research, Badnera, Amravati.

3.4 Program Format

The One week STTP program was scheduled for 6 continuous days at Prof. Ram Meghe Institute of Technology & Research, Badnera, Amravati.



3. Pre-Program Activity

Allotment of Short Term Training Program

The All India Council of Technical Education (AICTE) selects few colleges to organize the Faculty Development Program every year. Prof. Ram Meghe Institute of Technology & Research Badnera, Akuravati was one of them in the year 2020-2021.

Program Evaluation Committee (PEC)

A Program evaluation committee was formed for smooth organizing, scheduling and evaluating the STTP. It included Dr. A. P. Borkhe Chairman, P. E. C. (Principal, PRMIT&R, Badnera),

Dr. P. S. Pajgade Coordinator S.T.T.P. (HOD Civil, PRMIT&R, Badnera),

Dr. D. S. Ingole Member, P. E. C. (HOD Mechanical, PRMIT&R, Badnera),

Dr. S. M. Deshmukh Member, P. E. C. (HOD ENIC, PRMIT&R, Badnera),

Dr. P. A. Kadam Member, P. E. C. (Prof. Civil, PRMIT&R, Badnera)

Scheduling the Course

After discussions with other institute dignitaries, the program was scheduled from 20th to 25th July, 2020, Phase 1, 23rd to 28th November, 2020 Phase 2 and 19th to 24th December, 2020 Phase 3 respectively.

Appointing Short Term Training Program Organizing Committee

PEC committee included Dr. N. W. Ingole, Prof. R. Y. Kale, Dr. N. P. Kadam, Prof. S. G. Adhau, Prof. S. D. Borkale, Dr. M. V. Mohod for organizing STTP.

4. Feedback of the Participants

Faculties shared their experiences of the program. Some are shared at a glance of these are shared below:



Feedback During STTP-I

Prof Prasad Vaidya, “nicely panned and organized training program. Thanks for wonderful training and hope we see some more like this in future. Congratulations to all team and specially Dr. Pajgade sir”.



Prof Prasad Vaidya



Prof. Avinash Jakate

Hearty congratulations to all the organizing team of Civil PRMIT&R Badnera. Really it was a wonderful STTP, all resource persons delivered good content which will be helpful to scholars to continue their research work. I too gained more information through this STTP. Thank you very much for organizing such an outstanding STTP.

“it was very nicely planned and organized STTP. Great experience to hear such eminent speakers. Congratulations and thanks to all team members”.



Dr. Suchita Hirde



Prof Ankit Kale

Prof. Ankit Kale, “thank you team PRMIT&R for arranging such a informative STTP, a really nice experience during this pandemic”.



Feedback During STTP-II

The STTP on Wind & Earthquake Resistant Design has been a very new and exciting experience in this pandemic. I thank Dr. P. S. Pagnade & Dr. N. P. Kataria for allowing me to be the part of this very informative STTP



Sanish Dhote



Dr. Vasugi V

The STTP on Wind & Earthquake Resistant Design has been need of today. I thank organizer for nicely arranging all the session specially Hands on training on software. I have attended various STTP no where we get such training. It really very useful. Thanks organizer allowing me to be the part of this very informative STTP

A big thanks to the PRMIT&R and organizers of such a wonderful, well organized program. All sessions were very useful to faculty as well as to students. Hats off to the entire team.



Dr. Hanamant Magarp



Mahesh R. Nalawar

Dr. Shirdhonkars's session on Risk Targeted Seismic Design was very informative. All the doubts were properly evaluated. Also all the remaining speakers delivered very informative sessions which will prove to be very fruitful in the days to come.



Feedback During STTP-III

I feel fortunate to be the part of this very innovative STTP on Wind & Earthquake Resistant Design. My various doubts and concepts are cleared after attending the STTP. My sincere thanks to all the organizers for arranging such wonderful STTP.



Sachin Saraf

Amongst all the STTP's that I have attended in this pandemic, I found this STTP most informative. The schedule was so properly set that every point was cleared. Also all the speakers were expert in their fields, so it was very easy to understand the concepts that were very important. Thanks and regards to the entire team.



Abdul Basit



Ganesh Woyal

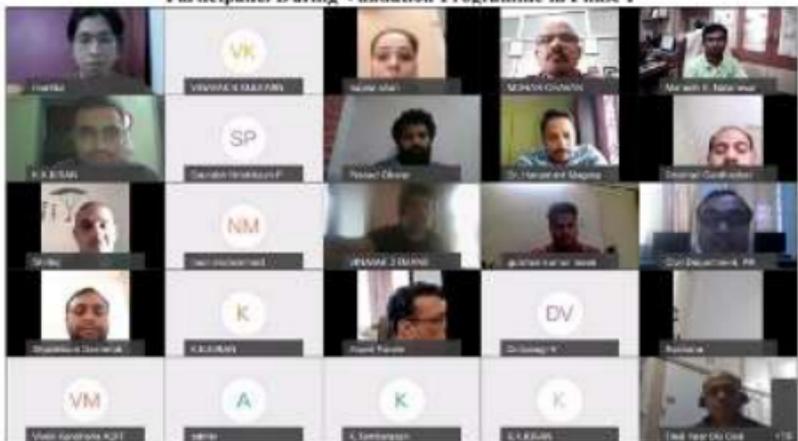
I found the session of Behavior for Masonary Building during Earthquake & Earthquake Resistant Design by Dr. Putul Haider very knowlegable and informative. All the sessions were very good from information point of view. My sincere thanks to all the organizers and speakers for arranging such valuable STTP



Glimpses



Participants During Validation Programme In Phase I



Participants During Validation Programme In Phase II



Participants During Validation Programme in Phase III



Dr. Sachin Bakre (VNIT Nagpur) during session in Phase I



Zoom meeting interface showing a presentation slide. The slide title is "BEHAVIOUR AND EARTHQUAKE RESISTANT DESIGN OF MASONRY BUILDINGS" by Yogendra Singh, Professor, Railway Bridge Chair, Department of Earthquake Engineering, Indian Institute of Technology Roorkee, Roorkee, India. The slide features a photograph of the IITRoorkee main building. The Zoom toolbar at the top shows icons for Mute, PT, CD, and ET, with participant names: Yogendra Singh, Siddhanta, Pawan, SANG, DEBPRIT, and Prakash, Prasad.

Dr. Yogendra Singh (IITRoorkee) during session in Phase I

Zoom meeting interface showing a presentation slide. The slide title is "Dynamics of Single Degree of Freedom System" by Ratnesh Kumar, Ph.D., Associate Professor, Department of Applied Mechanics, VNIT NAGPUR, www.vnit.ac.in. The slide features a diagram of a single degree of freedom system and a photograph of a water tower. The Zoom toolbar at the top shows icons for HD, Mute, SB, and KT, with participant names: Ratnesh Kumar, Harshvardhan, Saha, Akshay, SINGH, BANSI, and Arshad, Shaheer.

Dr. Ratnesh Kumar (VNIT, Nagpur) during session in Phase I



Dr. C. V. R. Murty (IIT Madras) during session in Phase I



Dr. Vijay Khose (Associate, Thornton Tomasetti, Mumbai) during session in Phase I



Zoom Meeting interface showing a slide about Earth's internal structure. The slide lists the following layers and their characteristics:

INNER CORE	: SOLID HEAVY METALS -	R-1250 km
OUTER CORE	: LIQUID -	THICKNESS - 2200 km
MANTLE	: VISCOUSE	THICKNESS - 2900 km
CRUST	: LIGHT MATERIAL	THICKNESS - 5-40 km

Below the text is a 3D cutaway diagram of the Earth showing these layers: the innermost yellow sphere (Inner Core), the surrounding orange layer (Outer Core), the thick red layer (Mantle), and the thin blue and white outer layer (Crust).

Department of Applied Mechanics, IIT Roorkee

Dr O R Jaiswal (VNIT, Nagpur) during session in Phase I

INDIAN INSTITUTE OF TECHNOLOGY ROORKEE

Risk Targeted Seismic Design

Saurabh Shiradhonkar

Assistant Professor
Department of Earthquake Engineering
Indian Institute of Technology Roorkee
November 27, 2020



Zoom Meeting interface showing a slide about Risk Targeted Seismic Design. The slide includes the title, author name, title, department, and date. A small video thumbnail of the speaker is visible in the top right corner. At the bottom of the slide is a photograph of the IIT Roorkee main building.

Dr. Saurabh Shiradhonkar (IIT Roorkee) during session in Phase II



WIND LOAD ANALYSIS OF WORKSHOP BUILDING

BY

DR. L. M GUPTA

DEPARTMENT OF APPLIED MECHANICS

VISVESVARAYA NATIONAL INSTITUTE OF TECHNOLOGY

NAGPUR - 440 010

Dr. L. M Gupta (VNIT Nagpur) during session in Phase III



Salient Aspects of

Earthquake Resistant Design of Steel Moment Frame Buildings

Dr. C. V. R. Murty (IIT Madras) during session in Phase III

Prasanna

One Week, All TE Sponsored
Short Term Training Program thro online mode
Phase I On

"WIND AND EARTHQUAKE RESISTANT DESIGN"
(20/07/2020 to 25/07/2020)

List of candidates who have successfully completed the program on the basis of test conducted by Program Evaluation Committee.

No. No.	Name	Institute	E-mail Address
1	Anand S Anil	Sigma College of Engineering and Technology, Anantnag	anand2021@gmail.com
2	Ankit gajwan kate	Prof ram naghe college of engineering & management kolhapur	ankitkate16@gmail.com
3	Ankur P Pachgaon	Sigma School of Planning & Architecture Anantnag	apachgaon@gmail.com
4	ANILKUMAR DOMALE	MHADA PILEY TECHNIC AURANGABAD	anand09@gmail.com
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8	BIBHIN PRASAD MISHRA	Shriharanwar College of Engineering	bibhin0213@gmail.com
9	CHANDAN KUMAR D	ADHI COLLEGE OF ENGINEERING AND TECHNOLOGY	chandankumar.civil@adhi.ac.in
10	Deepak Kumar Singh	Graphic arts (don't to be university)	deepaktriship@gmail.com
11	Deepika Kulkarni Deshmukh	Sigma Condit NIT	deepika88@gmail.com
12	DEVINDRA HANCHE	Government Engineering college Raichur	Devindra@yaho.com
13	DRINANJAY BRIJURAJ AWACHAT	K D K COLLEGE OF ENGINEERING NAGPUR	drinawach@gmail.com
14	Dr CHEZHIAN K	University Viswavidyalaya College of Engineering, Bangalore University	kc.chezhian@gmail.com
15	Dr Mahipal Bardsik	MHADA Engineering College, Jai Narain Vyas University Jaipur	mahipalbarsik@gmail.com
16	Dr Rakesh Patel	SIRTS BHOPAL	rakesh00@gmail.com
17	Dr Shilpi M Durme	Government Polytechnic, Anantnag (G), Poon	sdurme@gmail.com
18	Dr Anant Anandkar	G.H Raisoni University, Anantnag	anantkarant@gmail.com
19	Dr. S. Gresha	Rajalakshmi Engineering College	gresha.s@rajalakshmi.edu.in
20	Dr. Sharda Sishy	Shri Ram Jeebika College of Engineering and Management	sharda.sishy@shree.edu
21	Dr. T Rajana	B.M.S. College of Engineering	t.rajana@gmail.com
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27	Kartika Sherbagan M	Bansari Anantnag Institute of Technology	Kartika7@gmail.com
28	Kiran Goleb Ghoshika	Dr J J Nayak College of Engineering Jaysingpur	golebika@gmail.com

PSP Rajgale

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22	Manjusha V. Bhagava	Integral College of Engineering, Pune	vbhagava@icet.org/integral.edu
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51	Sudha Sagar Nimbkar	S. B. Jan Institute of Technology research and management Nagpur	sudhasagar@sbjmr.edu.in
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SP Singh

42	INDRINDER C	NET Publications	www.indrinder.com
43	Manoj Anand	AMBIT College of Engineering	www.ambit.ac.in
44	VARDHANI	THE COLLEGE OF MANAGEMENTS (COTM) TUMKURU, K. V.	www.cotm.ac.in
45	Vaidhar Anand Babu	Dr. Rajendra Chok Institute of Technology and Research	www.vaidhar.com
46	Vikas Kishor Baburao	Prof. Bhanu Singh College of Engineering & Management Bachchan, Baranasi	www.vikasb.com
47	Vandha Channappa Kappan	Government Polytechnic, Omdur	kappan.vandha@gmail.com
48	Vijay M.L. Gouda	J.M.E. College of Engineering	vijaym@gmail.com
49	Vijay Subrahmanyan Ramani	Dr. Rajendra Chok Institute of Technology & Research (Baranasi)	vijayramani@gmail.com
50	Vinod Kanchala	AMBITA Institute of Technology and Management	www.vinodkanchala.com
51	Vinodhan Adhi Akhmed	J.M.E. College of Engineering, Davangere	www.vinodhan.com
52	NILESH ZANDEL	Government Polytechnic, Guntur	www.nileshzandel.com
53	Mr. Prasad Kamesh Vaidya	Vaidya Education Society's, E.E. Nagar College of Engineering	www.pvaidya.com
54	Chandrashekhar Lakshmi Kulkarni	Government Polytechnic, Yavatol	www.chandrashekhar.com
55	Maheshwar Baburao	Prof. Bhanu Singh Institute of Technology & Research, Bachchan	www.maheshwar.com
56	Jaigar D. Madhukar	Prof. Bhanu Singh Institute of Technology & Research, Bachchan	www.jaigar.com
57	Shrikant R. Shrikant	Prof. Bhanu Singh Institute of Technology & Research, Bachchan	www.shrikant.com
58	Abhishek V. Mohod	Prof. Bhanu Singh Institute of Technology & Research, Bachchan	www.abhishek.com
59	Ravi Anand	Prof. Bhanu Singh Institute of Technology & Research, Bachchan	www.ravi.com
60	ANVIT BAPARNAI	Prof. Bhanu Singh Institute of Technology & Research, Bachchan	www.anvita.com
61	Prof. Sureshbabu Sagar	Prof. Bhanu Singh Institute of Technology & Research, Bachchan	www.sureshbabu.com
62	Prasad V. Kulkarni	Prof. Bhanu Singh Institute of Technology & Research, Bachchan	www.pv.com
63	Anur D. Daburkar	Prof. Bhanu Singh Institute of Technology & Research, Bachchan	www.anur.com
64	KUNDEKESH V. LARGOTE	Prof. Bhanu Singh Institute of Technology & Research, Bachchan	www.kunde.com
65	Vijay Shankar Babu	Prof. Bhanu Singh Institute of Technology & Research, Bachchan	www.vijay.com
66	Dr. Manoj K. Ingole	Prof. Bhanu Singh Institute of Technology & Research, Bachchan	www.drmanoj.com
67	Shashikant Daburkar	Prof. Bhanu Singh Institute of Technology & Research, Bachchan	www.shashikant.com
68	Pradip Prabhakar Tapan	Prof. Bhanu Singh Institute of Technology & Research, Bachchan	www.pradip.com
69	Harish S. Mahale	Prof. Bhanu Singh Institute of Technology & Research, Bachchan	www.harish.com
70	Nagesh Ganesh Adhis	Prof. Bhanu Singh Institute of Technology & Research, Bachchan	www.nagesh.com
71	Jayant V. Dhople	Prof. Bhanu Singh Institute of Technology & Research, Bachchan	www.jayant.com
72	Dr. Sachin Mohi	Government College of Engineering, Baranasi	www.dr.sachin.com

Pradip

One Week, ACET Sponsored
Short Term Training Program for online mode
Phase II On
"WIND AND EARTHQUAKE RESISTANT DESIGN"
(24/10/2020 to 28/10/2020)

List of candidates who have successfully completed the program on the basis of test conducted by Program Evaluation Committee.

Sl. No.	Name	Institution	E-mail Address
1	ANVY YASHVIND TALWAR	Dr. Jaganath Chelvanah-Govt. Vastu, AECIA	anv_yashv@gmail.com
2	ANVY YASHVIND MEHTA	Goverment Polytechnic, India	anv_yashv@gmail.com
3	Anish Rajeev Jigaj	Prof. Ramkrishna College of Engineering & Management, Indore	anish_rajeev@protonmail.com
4	Anish S. Shrivastava	DECTECH, Ahmedabad	anish2001@gmail.com
5	DESAI DEEPAANSHU KIRAN	DAV COLLEGE OF ENGINEERING & TECHNOLOGY, DAVVARI, INDIA	desai2001@gmail.com
6	Dr. Chaitanya K. Patil	Goverment Polytechnic, Gandhinagar	patilchait@gmail.com
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8	Dr. Rajendra T	K. J. Somaiya, College of Engineering	rajendra2001@gmail.com
9	Dr. Vinay G. Mishra	Vishwakarma Deemed College of Engineering	vinayg2001@gmail.com
10	PRINCE RAHAF KHAN	Prof. Ramkrishna College of Engineering & Management, Indore	prince1999@protonmail.com
11	Shubham Kumar Mishra	Super Institute of Research Technology and Science, Bhopal	shubhamkumar20@gmail.com
12	K.K. Chauhan	SRM Institute of Technology	kuk2001@gmail.com
13	Kanchan Verma	AJITVA Institute of Technology and Management	kanchan2001@gmail.com
14	MADHURANI	Goverment College of Engineering, Jalgaon, Gandhinagar	madi2001@gmail.com
15	HAZAR AJAY KANUN	Dr. Babasaheb Ambedkar Marathwada University	hazarajay@gmail.com
16	Harshit K. Mishra	Pravara Laxminagar Institute of Technology and Management, Indore	harshit2001@gmail.com
17	Hemant Anand Jangam	Government College of Engineering & Technology, Yashwantrao Chavan	hemant_jangam2001@gmail.com
18	MAYUR SAMBHAJI	P. E. M. I. T. P. Indore	mayur_sam2001@gmail.com
19	MUSHAQ	Dr. Bhausaheb Institute of Engineering and Technology	musahq20@gmail.com
20	M. Jaganath Chelvanah Patil	Pravara Institute of Engineering, Jalgaon, Gandhinagar	pravin2001@gmail.com
21	Mohit Chavhan	K. J. Somaiya College of Engineering, Kalgaon, Maharashtra	chavhan2001@gmail.com
22	Mr. Ch. P. S. Suresh	SVS & SVS VMC COLLEGE OF TECHNOLOGY	chp2001@gmail.com
23	Mr. RANVI ANJUN KATKAR	AVITVA Institute of Engineering and Technology, Kharadi, Pune	ranvi2001@gmail.com
24	Mr. Shashank J. Patil	Vishwakarma College of Engineering & Technology, Nagpur	shashank2001@gmail.com
25	Shree Vinaykant	North Suburban Education College of Engineering and Technology	shreevinayk20@gmail.com
26	Pranav Rajeshwar Shrivastava	Aditya Institute of Technology and Research Center, Yashwantrao Chavan	pranav2001@gmail.com
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28	Pratik Shreshth Desai	Vishwakarma Institute of Technology & Research, Indore	pratikshreshth2001@gmail.com

Pravin Chavhan

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32	Rachana Gupta	RNTU	rchanaq167@gmail.com
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One Week, ACCTE Sponsored
Short Term Training Programme on
Phase II (ii)
"WIND AND EARTHQUAKE RESISTANT DESIGN"
(SP13/2020 to 2022/2020)

List of candidates who have successfully completed the program on the basis of test conducted by Program Evaluation Committee.

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7	Dr. N. R. Ganesh	Integrated Academy of Engineering, Puzos	drnrganesh@iae.ac.in
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12	Dr. S. S. Sani	F. R. Patel College of Engg and Management Amravati	sani@frcem@frcem.ac.in
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Handwritten signature

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53	Wati Nurjan	NULE MAGRICE	watinurjan1@gmail.com
54	M. Nurjan Mestrian	Universitas Cirebon College of Engineering	mestrian1998@gmail.com
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59	Rizki Nuris Nuris	Streeq Christian University, Klaten, Puris	rizki_nuris_nuris_nuris@unswi.com
60	RIKA RIZKIEN C H	College of Engineering & Technology, Situbone	rikarizkien1998@gmail.com
61	Rizki Nuris	Streeq Christian University, Klaten, Puris	rikarizkien1998@gmail.com
62	Rizki Nuris Nuris Nuris	Streeq Christian University, Klaten, Puris	rikarizkien1998@gmail.com

RSPJg

Report by Program Evaluation Committee (PEC) of

One Week

AICTE Sponsored Short Term Training Program phase I on

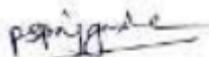
"WIND AND EARTHQUAKE RESISTANT DESIGN"

20 July to 25 July 2020

The AICTE sponsored one week short term training program (STTP) through online mode phase I was organized successfully with the participation of Ninety Two (92) Faculty members from various Engineering colleges all over India. The STTP was inaugurated at the hands of Honourable Chairman of VYWS society Shri Nitinji Dhande with motivation, encouragement and best wishes to STTP. On behalf of our beloved Principal, Dr A P Bodkhe, his message was read out by Dr N W Ingole, Dean (Research promotion cell) the message gave the brief idea about the institute and basic information regarding the theme of STTP. Dr P S Pajgade, Head of Civil Engineering Department and Coordinator of STTP paved a walk through about one week program and necessity of wind and earthquake resistant design knowledge for the students, researchers and practicing/consulting engineers. The STTP comprised of the programs including Analysis, Design and Hands on training of Wind and Earthquake Resistant Design.

The one week STTP portrayed technical sessions from speakers from Renowned Institute of the Country, who presented different aspects of Wind and Earthquake Resistant Design, namely Dr C V R Murty (IIT Madras), Dr Yogendra Singh (IITRoorkee), Dr O R Jaiswal (VNIT,Nagpur), Dr Ratnesh Kumar (VNIT,Nagpur), Dr Sahin Bakre (VNIT Nagpur), Dr Vijay Khose (Associate, Thornton Tomasetti, Mumbai) and Dr Nitin Kataria (PRMIT&R Badnera).

The program proved beneficial to participants for acquiring knowledge about current technological development in the field of Earthquake and Wind engineering. At the end of the course, the program proved to be helpful for the participants keeping in view the present scenario of Infrastructure Development. The experience of all the participants was very nice, wherein they thanked organizers for organizing such a well-planned and informative STTP. A quiz was conducted to assess the outcome of the STTP through online mode by making use of Google form.

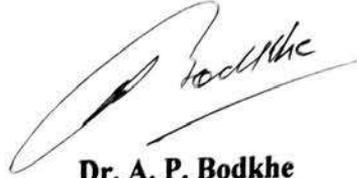


The program concluded with the Valedictory function in the presence of Dr. P. S. Pajgade (Coordinator & Head, STTP) where the participants extended their views and gratitude towards the program.



Dr. P. S. Pajgade

Member Secretary, P. E. C.
(HOD Civil, PRMIT&R, Badnera)



Dr. A. P. Bodkhe

Chairman, P. E. C.
(Principal, PRMIT&R, Badnera)

Report by Program Evaluation Committee (PEC) of

One Week

AICTE Sponsored Short Term Training Program phase II on

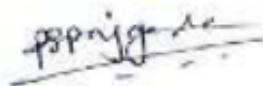
"WIND AND EARTHQUAKE RESISTANT DESIGN"

23rd November to 28th November 2020

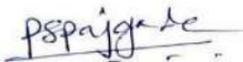
The AICTE sponsored one week short term training program (STTP) through online mode phase II was organized successfully with the participation of Forty Nine (49) Faculty members from various Engineering colleges all over India. The STTP was inaugurated at the hands of Honourable Chairman of VYWS society Shri Nitinji Dhande with motivation, encouragement and best wishes to STTP. On behalf of our beloved Principal, Dr A P Bodkhe, his message was read out by Dr N W Ingale , Dean (Research promotion cell) the message gave the brief idea about the institute and basic information regarding the theme of STTP. Dr P S Pujgade, Head of Civil Engineering Department and Coordinator of STTP paved a walk through about one week program and necessity of wind and earthquake resistant design knowledge for the students, researchers and practicing/consulting engineers. The STTP comprised of the programs including Analysis, Design and Hands on training of Wind and Earthquake Resistant Design.

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The program proved beneficial to participants for acquiring knowledge about current technological development in the field of Earthquake and Wind engineering. At the end of the course, the program proved to be helpful for the participants keeping in view the present scenario of Infrastructure Development. The experience of all the participants was very nice, wherein they thanked organizers for organizing such a well-planned and informative STTP. A quiz was conducted to assess the outcome of the STTP through online mode by making use of Google form.



The program concluded with the Valedictory function in the presence of Dr. P. S. Pajgade (Coordinator & Head, STTP) and Dr. Nitin P. Kataria (Co-Coordinator, STTP) where the participants extended their views and gratitude towards the program.



Dr. P. S. Pajgade

Member Secretary, P. E. C.
(HOD Civil, PRMIT&R, Badnera)



Dr. A. P. Bodkhe

Chairman, P. E. C.
(Principal, PRMIT&R, Badnera)

Report by Program Evaluation Committee (PEC) of

One Week

AICTE Sponsored Short Term Training Program phase III on

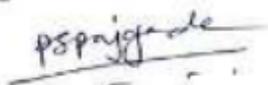
"WIND AND EARTHQUAKE RESISTANT DESIGN"

19th December to 24th December 2020

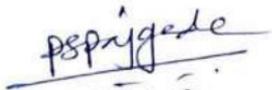
The AICTE sponsored one week short term training program (STTP) through online mode phase III was organized successfully with the participation of Sixty Two (62) Faculty members from various Engineering colleges all over India. The STTP was inaugurated at the hands of Honourable Chairman of VYWS society Shri Nitinji Dhande with motivation, encouragement and best wishes to STTP. On behalf of our beloved Principal, Dr A P Bodkhe, his message was read out by Dr N W Ingole , Dean (Research promotion cell) the message gave the brief idea about the institute and basic information regarding the theme of STTP. Dr P S Pajgade, Head of Civil Engineering Department and Coordinator of STTP paved a walk through about one week program and necessity of wind and earthquake resistant design knowledge for the students, researchers and practicing/consulting engineers. The STTP comprised of the programs including Analysis, Design and Hands on training of Wind and Earthquake Resistant Design.

The one week STTP portrayed technical sessions from speakers from Renowned Institute of the Country, who presented different aspects of Wind and Earthquake Resistant Design, namely **Dr C V R Murty** (IIT Madras), **Dr Yogendra Singh** (IITRoorkee), **Dr O R Jaiswal** (VNIT,Nagpur), **Dr Rutesh Kumar** (VNIT,Nagpur), **Dr L. N. Gupta** (VNIT,Nagpur), **Dr. Putal Haldar** (IITRopar) and **Dr Vijay Khose** (Associate, Thornton Tomasetti, Mumbai).

The program proved beneficial to participants for acquiring knowledge about current technological development in the field of Earthquake and Wind engineering. At the end of the course, the program proved to be helpful for the participants keeping in view the present scenario of Infrastructure Development. The experience of all the participants was very nice, wherein they thanked organizers for organizing such a well-planned and informative STTP. A quiz was conducted to assess the outcome of the STTP through online mode by making use of Google form.

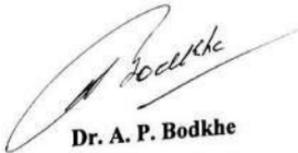

P. S. Pajgade

The program concluded with the Valedictory function in the presence of Dr. P. S. Pajgade (Coordinator & Head, STTP) and Dr. Nitin P. Kataria (Co-Coordinator, STTP) where the participants extended their views and gratitude towards the program.



Dr. P. S. Pajgade

Member Secretary, P. E. C.
(HOD Civil, PRMIT&R, Badnera)



Dr. A. P. Bodkhe

Chairman, P. E. C.
(Principal, PRMIT&R, Badnera)

A
Report
On
ONLINE STTP
On
“Tools & Techniques for
Efficient & Effective
Teaching Learning”
(06th July 2020 to 10th July 2020)

**Department of Computer Science and
Engineering**



**Prof. Ram Meghe Institute of Technology and
Research, Badnera- 2018-19**

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1 About the Organizing Institute

The Vidarbha Youth Welfare Society's Prof. Ram Meghe Institute of Technology and Research, Badnera-Amravati (formerly well known as College of Engineering, Badnera), is a leading technological institute from central India. Established in the year 1983, the institute has a prestigious standing amongst the topmost technical institutes of Maharashtra. The institute is approved by AICTE, New Delhi and Accredited by the National Board of Accreditation (NBA), New Delhi. Department of Technical Education (DTE), Govt. of Maharashtra, has awarded "A" Grade to the institute. The institute is also awarded by ISTE National Award for best Engineering College in the region. The Institute is affiliated to Sant Gadge Baba Amravati University, Amravati and is offering UG, PG and Ph.D. courses in Computer Sci. and Engg, Civil Engg, Mechanical Engg, Electronics and Tele. Engg and Information Tech along with PG courses like MBA and MCA. The Institute is also conferred with Top 300 (Ranking Range: 250-300) by NIFR, MHRD India.

The young, dynamic & forward looking management of PMIT&R is carrying forward the pioneering legacy of the visionary founders, who dare to dream and strived hard to achieve their seemingly impossible goals. The management team comprises of qualified people and stalwarts from medical, academic, legal and business fraternity. Their varied skill-sets help them in coming up with the vagaries of technical education field.

2 About the Organizing Department

Department of Computer Science and Engineering was established in the year 1985. The Department runs BE and ME (Computer Science and Engineering) courses with well experienced faculty and also offer PhD program aimed at producing qualified researchers. All the UG, PG and PhD courses are recognized by Sant Gadge Baba Amravati University, AICTE and DTE.

The department has all the state-of-art facilities and conducive environment for teaching and learning, also has full fledge Computer laboratories, Robotics E-Yantra Lab and Research Labs. With rapidly evolving technology and the continuous need for innovation and research, department always strive hard to produce quality professionals. The department is crowned with as many University toppers and several rank holders. The

students are well placed in reputed Government undertakings and Government Organizations and private software firms throughout globe.

3 Objectives of the STTP

This Online Short Term Training Programme (STTP) was conducted make participant aware of

1. E-tools for conduction online lectures with all possible ways of sharing content.
2. Effective & Optimized Techniques for making video lecture and ways of sharing it through E-tools for efficient teaching learning
3. Use of Content making tools for preparing teaching materials such as PPT's, PDF, Audio, Video
4. Modules available in E-tools for measuring Students performance with online assignments, quizzes, Exam
5. Monitoring student's attendance and involvement in the session/lecture

4 Course Content

4.1 Course Contents

- Moodle- All in one Teaching & Learning Platform
- Creating Video in OBS
- Webex – Online Lecture Tool
- Online lecture preparation using PPT
- Conduction of Online Examination/Quiz/Assignment
- Content Sharing using Microsoft Teams Application
- Video Compression/ Image Compression Techniques
- Virtual Labs - Electronics/ IC's based Practical Session
- Creating video & Live streaming

4.2 Course Contents & Session Speakers

The educational reforms in India during this COVID-19 era seems to be a live example of how need truly is the mother of invention or reinvention allowing educational institutions to adopt online learning and infuse a virtual study culture, this pandemic is already steering the sector forward along with technological innovation and advancements.

This transformation to online education has been ensuring that students suffer no loss of studies and their progress is being tracked simultaneously along with timely evaluation. Thus there is a need for a Faculty to upgrade themselves with innovative teaching tools and technologies. It is probably a first for India to experiment with the education system and make a paradigm shift to the virtual world, blending classrooms with online learning. Alchemizing education with technology and forming a collaborative strategy to tread ahead while providing online lectures will also enable the students to learn creatively. All in house faculties were taken with the following contents

S.No	Day	Speaker	Session 1 13.00 PM to 03.15 PM	Session 2 04.00 PM to 04.45 PM	Session 3 05.00 PM onwards
1	4-Jul	Content	Basargadon	Module - All in one Teaching & Learning Platform	Quiz, Assignments, Introduction to Next Session & Feedback
		Speaker	Dr. G. R. Bhatnagar (Content)	Dr. Mahanta A. Paul Dr. Pratik K. Agrawal Prof. Shyam G. Toley	Prof. Shyam G. Toley Prof. Ananta K. Bhatnagar
2	7-Jul	Content	Nako Lectures using Power Point Presentation	Canvas Managing using Microsoft Teams Application	Quiz, Assignments, Introduction to Next Session & Feedback
		Speaker	Prof. Sankar B. Karan Prof. Yogesh S. Adnan	Prof. Prakash K. Lohia Prof. Shyam G. Toley	Prof. Shyam G. Toley Prof. Ananta K. Bhatnagar
3	8-Jul	Content	Making your own video lecture - OBS Tool	Google Classroom/ Google Meet - Classroom Overview	Quiz, Assignments, Introduction to Next Session & Feedback
		Speaker	Prof. Omkar J. Sawade Prof. Pratik K. Agrawal	Dr. Ananta K. Bhatnagar Prof. Mahanta A. Paul	Prof. Ananta K. Bhatnagar Prof. Shyam G. Toley
4	8-Jul	Content	Online Lecture Construction on Webex Application	RPTEL Study Material Online Video	Quiz, Assignments, Introduction to Next Session & Feedback
		Speaker	Prof. Ananta K. Bhatnagar Prof. Pratik K. Agrawal	Prof. Pratik K. Agrawal Prof. Mahanta A. Paul	Prof. Ananta K. Bhatnagar Prof. Shyam G. Toley
5	10-Jul	Content	Video Compression Image Compression Techniques	Microsoft Office Tools	Virtual Labs - Electronics/ IC's based Practical Session
		Speaker	Prof. Ananta K. Bhatnagar Prof. Pratik K. Agrawal	Prof. Ananta K. Bhatnagar Prof. Shyam G. Toley	Prof. Ananta K. Bhatnagar Prof. Shyam G. Toley

4.3 Resource Person List with Content

S.No	Speaker	Topic
1	Dr. Mahendra A. Pund	Moodle- All in one Teaching & Learning Platform
2	Dr. Pratik K. Agrawal	Moodle- All in one Teaching & Learning Platform
3	Prof. Shruti G. Taley	Moodle- All in one Teaching & Learning Platform
4	Prof. Yogita S. Alone	Video Lecture using Power Point Presentation
5	Prof. Roshan R. Karwa	Video Lecture using Power Point Presentation
6	Prof. Poonam B. Lohiya	Content Sharing using Microsoft Teams Application
7	Prof. Shweta G. Pundkar	Content Sharing using Microsoft Teams Application
8	Prof. Gaurav J. Sawale	Making your own video lecture - OBS Tool
9	Prof. Prachi N. Deshmukh	Making your own video lecture - OBS Tool
10	Dr. Sumera W. Ahmed	Google Classroom
11	Prof. Meghna A. Deshmukh	Google Meet
12	Prof. Pratik S. Deshmukh	Online Lecture Conduction on Webex Application
13	Prof. Arpit U. Chaudhari	Online Lecture Conduction on Webex Application
14	Dr. N. N. Khalsa	Video Preparation & Online Streaming
15	Prof. Kalyani H. Deshmukh	NPTEL Study Material & Online Courses
16	Prof. Rochita R. Kale	NPTEL Study Material & Online Courses
17	Prof. Nilima V. Pardakhe	Video & Image Compression Techniques
18	Prof. Komal R. Hole	Video & Image Compression Techniques
19	Prof. Shrikant P. Akarte	Virtual Labs - Practical Session
20	Prof. Gaurav B. Saboo	Virtual Labs - Practical Session
21	Prof. Noopur M. Yawale	Microsoft Office Tools
22	Prof. Nilaja A. Deshmukh	Microsoft Office Tools
23	Prof. Rupali A. Meshram	Microsoft Office Tools

Day wise Details of speakers and content were shared with the participants through an Email and on the Telegram Group.

AICTE - ISTE Approved - One Week ONLINE Short Term Training Program
on
"Tools & Techniques for Efficient & Effective Teaching Learning"
6th July 2020 to 10th July 2020

Day 1: 6th July 2020 (Session 1 - Speaker)
Topic: Moodle- All In one Teaching & Learning Platform



Dr.M.A.Pand
Associate Professor



Dr.P.K.Agrawal
Assistant Professor



Prof.Ms.S.G.Taley
Assistant Professor

Department of Computer Science & Engineering
Prof. Ram Meghe Institute of Technology & Research, Badnera - Amravati

AICTE - ISTE Approved - One Week ONLINE Short Term Training Program
on
"Tools & Techniques for Efficient & Effective Teaching Learning"
6th July 2020 to 10th July 2020

Day 2: 7th July 2020 (Session 1 [11:15 AM to 12 Noon] - Speaker)
Topic: Video Lecture using Power Point Presentation



Prof. V. S. Alone
Assistant Professor



Prof. R. R. Karwa
Assistant Professor

Department of Computer Science & Engineering
Prof. Ram Meghe Institute of Technology & Research, Badnera - Amravati



One Week AICTE - ISTE approved ONLINE Short Term Training Program (Interdisciplinary) on
"Tools & Techniques for Effective & Efficient Teaching Learning"
 6th July 2020 to 10th July 2020.
 Organized By
 Vidyalba Youth Welfare Society's
 Prof. H. S. Mhatre Institute of Technology and Research, Tadoba-Amravati,
 Department of Computer Science and Engineering,
 In association with CSI Amravati Chapter



Day 4: 9th July 2020 Session							
S.No	Day	Speaker	Session - 1	Session - 2	Session - 3	Session - 4	
		Content:	Online Lecture Contribution on Worker Application	NPTEL Study Material/ Online Video	Creating Video & Online Assessment	Discussion Session - Query	5:00 PM onwards Quiz, Assignments, Introduction to Next Session & Feedback
		Speakers:	Prof. Arjun U. Chaudhari Prof. Pratik S. Dedhanukh	Prof. Rachita R. Kulkarni Prof. Kalyani H. Dedhanukh	Dr. N. N. Khobare	Prof. Arjun U. Chaudhari Prof. Pratik S. Dedhanukh Prof. Rachita R. Kulkarni Prof. Kalyani H. Dedhanukh Dr. N. N. Khobare	Prof. Santosh V. Kulkarni Prof. Nitesh S. Khobare Prof. Tajan P. Adhikari
			Session Video will open at 7:00 PM today.	Session Video will open at 7:00 PM today.	Session Video will open at 7:00 PM today.	Online discussion Session will be conducted on zoom from 05:30 PM to 07:00 Noon on Zoom	Please give Quiz/Assignments after watching watching video opened after 7 PM today

5 Inauguration Ceremony

Inauguration Ceremony was conducted online on Zoom application on 06th July 2020 at 12.15 PM. Following guests/dignitaries shared their messages through recorded videos for this inauguration function:

Dr. Nitin R. Dhande

Chairman

Vidyalba Youth Welfare Society, Amravati

Dr. Pratapsinh Kakasabheb Desai

President

Indian Society for Technical Education, New Delhi

Dr K. Manivannan

Former, Vice-Chairman,

Indian Society for Technical Education, New Delhi

Vice-President

Industry & Academia Relations

Dr. Hemant R Deshmukh

Director
Board of Examinations and Evaluation
Sant Gadge Baba Amravati University, Amravati

Dr. Pradeep Jawaadhiya

Chairman CSI Amravati
Professor & Principal
Pmkaj Laddhad Institute of Technology and Management Studies Buldana

Dr. A. P. Bodkhe

Principal,
Prof Ram Meghe Institute of Technology & Research Badnera-Amravati

Screenshot of inauguration session



6 Participants Details

Total 55 ISTE participants attended the STTP.

7 STTP Feedback Received from Participants

S.No	Name of the Participants	Feedback Message
1	Dr. Rajeshree Raut	So happy to see such a well managed event by young, smart team. All young faculties having knowledge of the most needed tools in today's scenario.
2	Dr. Sangita Shukla	Good Afternoon to all of you. Had a very good experience of STTP. It is the need of nowadays to go paperless to save environment and due to the scare of Corona people have to remain in the home. To continue teaching and learning it is very useful. Thanks to all members of team.
3	Nitin Khandagale	very good coordination among all the experts and very well organised program, thanks to all team for nice efforts.
4	Dr Gunjan Dhar	It was indeed a well organized STTP and its aim of imparting knowledge on online teaching to teachers all over India is highly appreciated.
5	Sunil Vishnu Medhe	Overall session was excellent, virtual labs information about Electronics IC based, it would be specialized but in future it will be Mechanical Engineering point of view.
6	Dr.Sumati Sonekar	I am satisfied with the STTP and would appreciate if such STTP will be conducted for the school teachers in various aspects such as creating ppt or word docs in Hindi, Marathi Sanskrit and some techniques for making diagrams digitally.
7	Dr.K.S.Ambadekar	Your strength is that all have prepared the topics very carefully and extremely well. They talked fluently and

		<p>flawless. Your time management is very good. At any time we do not feel boring. Within specific time they have finished. Anand sir you have well controlled on your language and voice.</p> <p>Thank you very much for taking pain for uplifting our knowledge. Wish all of you Best of Luck for future programmers like this. Once again thank you very much.</p>
8	Sanjay W. Thakare	<p>STTP was very well organised. It was also flexible, as the videos were uploaded on YouTube, hence participants could watch the same as per their convince. Virtual lab content was related to a particular branch, hence not much useful to the participants of other branches. Contents related to MS office were general in nature and should have been focused on more advanced commands.</p> <p>But overall, it was a nice experience to attend the STTP. Thanks to the organisers. Their efforts made this event successful.</p>
9	Vinay K Singh	<p>Best part of this FDP was pre-recorded video, due to this it was not compulsion for participants to watch it at particular time everyone were free and they can watch this according to their own convenience. Given quizzes and Q/A session was very helpful in learning.</p> <p>Thank you.</p>
10	Dr. Abdul Ameen	<p>All sessions were very nice, informative and useful. The selection of all resource persons is appreciable. The entire organizing team found to be very active and cooperative. This STTP will be beneficial for all participants.</p>

8 Organizing Committee

Chairman

Dr. A. P. Bodkhe

(Principal, PRMIT&R, Badnera)

Convenor

Dr. G. R. Bamnote

(HOD, Computer Science & Engineering)

Coordinator

Prof. Anand A. Chaudhari,

Prof. Ankit R. Mune

Members

Dr. M. A. Pund Dr. Ms. V. M. Deshmukh

Dr. Ms. R. R. Tuteja Prof. S. P. Akarte

& all Faculty Members of Computer Science and Engineering Department.

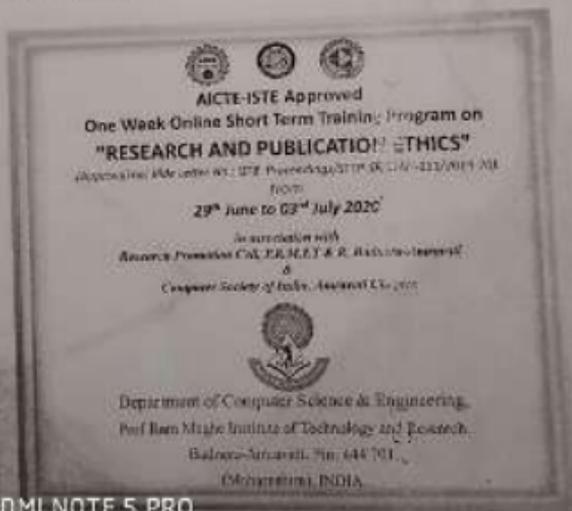
Prof Ram Meghe Institute of Technology and Research, Badnera-Amravati
Department of Computer Science and Engineering

AICTE-ISTE Approved
(Vide Letter No.: ISTE Proceedings/STTP-SFN/111-112/2019-20)
One Week ONLINE SHORT TERM TRAINING PROGRAM
(Interdisciplinary & Self Finance)

On
"RESEARCH AND PUBLICATION ETHICS"
In association with *Research Promotion Cell P.E., IIT & R, Badnera*
&
Computer Society of India (CSI) Amravati Chapter
29th June 2020 to 03rd July 2020

REPORT ON STTP

The One Week Online AICTE-STTP approved Short-Term Training Program on "Research and Publication Ethics" was organized during 29th June 2020 to 03rd July 2020. The Short-Term Training Program was conducted for Five Days, Two sessions per day. Total ten (10) sessions were held during the STTP. Ten resource persons (two resource persons per day, one each in every session) delivered lecture in the sessions and shared valuable knowledge among the participants. There were total Three hundred and Eleven (311) participants registered for Short-term program from 13 States and 01 union Territory of India.



Prof. Sangram S. Dudge, Coordinator of Short-Term Training Program welcomed all the participants and gave a brief of the STTP conduction Plan. Dr.G.R.Barnote, Convener and Head of Department of Computer Science & Engineering, Prof. Ram Meghe Institute of Technology & Research, Badnera-Amravati welcomed the dignitaries present in the inaugural session. Dr.P.M.Jawadhiya, Chairman CSI Amravati Chapter and Dr.S.V.Bansod, Chairman, Board of Studies, Production Engg, S.G.B. Amravati University & Professor, Department of Mechanical Engineering, P.R.M.I.T & R, Badnera. Dr. G.R.Barnote in his inaugural welcome address gave the importance of STTP and said that UGC notification of 9th August 2019 has also made the "Research and Publication Ethics (RPE)" mandatory for PhD scholars.

The Course Contents and Course Objective of Short-Term Program were:

Course Content:

- Philosophy and Ethics
- Scientific Conduct
- Publication Ethics & Misconduct
- Open Access Publishing
- Database & Research Metrics

Course Objectives:

The Course Objective of Short Term Training Program (STTP) conducted make participant aware of the following

1. Integrity and Ethics with respect to Science and Engineering research.
2. Publication and Plagiarism Ethics.
3. Intellectual honesty and research integrity.
4. Scientific Misconduct.
5. Selective reporting and misrepresentation of data.
6. Use of Plagiarism software and Open Source tools.
7. Indexing and Citation databases, and metrics.



Invited Resource Persons and Speakers of the Short-Term Training Programme:

There were total Ten (10) members of eminent Resource Persons / Experts and Speakers delivered lecture and shared resources of knowledge resource with participants throughout Five (05) Days of short-Term Training Programme sessions. The Details of Resource Persons are as given below

Invited Speakers

Day 1	Day 2	Day 3	Day 4	Day 5
 Dr. S.V. Ramad Professor, Dept. of Mechanical Engg., PRMIT&R, Bhubaneswar, Odisha	 Dr. G.R. Ramamoorthi HOD Computer Sci., A&EGG, PRMIT&R, Bhubaneswar, Odisha	 Dr. M.A. Pradhas Associate Professor, Dept. Computer Engg., AISSMS COL, Puri	 Dr. S. Sankar Associate Professor, Dept. of Mechanical Engg., PRMIT&R, Bhubaneswar, Odisha	 Dr. S. Sankar Associate Professor, Dept. of Mechanical Engg., PRMIT&R, Bhubaneswar, Odisha
 Dr. S. Sankar Associate Professor, Dept. of Mechanical Engg., PRMIT&R, Bhubaneswar, Odisha	 Dr. S. Sankar Associate Professor, Dept. of Mechanical Engg., PRMIT&R, Bhubaneswar, Odisha	 Dr. S. Sankar Associate Professor, Dept. of Mechanical Engg., PRMIT&R, Bhubaneswar, Odisha	 Dr. S. Sankar Associate Professor, Dept. of Mechanical Engg., PRMIT&R, Bhubaneswar, Odisha	 Dr. S. Sankar Associate Professor, Dept. of Mechanical Engg., PRMIT&R, Bhubaneswar, Odisha

Day	Name of Resource Person	Course Content Covered	Session	Date
1	Dr. S.V. Ramad Professor, Dept. of Mechanical Engg., PRMIT&R, Bhubaneswar, Odisha	Philosophy and Ethics: <ul style="list-style-type: none"> Introduction to philosophy: definition, nature and scope, concept, branches Ethics: definition, moral philosophy, nature of moral judgments and reactions 	I	29 th June 2020
	Dr. G.R. Ramamoorthi HOD Computer Sci., A&EGG, PRMIT&R, Bhubaneswar, Odisha	Publication Misconduct: <ul style="list-style-type: none"> Subject specific ethical issues, TTP, authorship Conflicts of interest Complaints and appeal: examples and fraud from India and abroad 	II	29 th June 2020
2	Dr. M.A. Pradhas Associate Professor, Dept. Computer Engg., AISSMS COL, Puri	Open Access Publishing: <ul style="list-style-type: none"> Open access publications and initiatives SHERPA/ROMEO online resource to check publisher copyright & self-archiving policies Software tool to identify predatory publications developed by SPPU (Savitribai Phule Pune University) Journal finder / journal suggestion tools viz. JANE, Elsevier Journal Finder, Springer Journal Suggested, etc. 	I	30 th June 2020

	<p>Dr. Sangey B. Budke Professor, Dept. of Electrical Engineering, Rajawade College, Nagpur</p>	<p>Publication Ethics:</p> <ul style="list-style-type: none"> • Publication ethics: definitions, introduction and importance. • Best practices / standards among researchers and publishers: COPE, WAME, etc. • Conflict of Interest. • Publication misconduct: definition, concept, problems that lead to unethical behavior and their legal types. • Violation of publication ethics, authorship and copyrightship. • Identification of publication misconduct, complaints and appeals. • predatory publishers and journals. 	II	30 th June 2020
1	<p>Dr. M.S. AR Principal, PRMCEAM, Babasaheb Ambedkar</p>	<p>Open Access Publishing Initiatives and Opportunity in India</p>	I	01 st July 2020
2	<p>Dr. M.P. Khedde Director, Knowledge Resource Centre, SGBAU, Amravati</p>	<p>Academic Integrity in Research and Publication</p>	II	03 rd July 2020
3	<p>Dr. Ms. Harshada Patkar Assistant Professor, Mahama Gaudha Antarvishvya High Vaidyanandayya, Wardha</p>	<p>Software Tools Use of plagiarism software like Turnitin, iThenticate and other open source software tools.</p>	I	07 th July 2020
4	<p>Dr. S.V. Dandl Professor & Head, Electronics Department, SGBAU, Amravati</p>	<p>Scientific Conduct:</p> <ul style="list-style-type: none"> • Ethics with respect to science and research • Intellectual honesty and research integrity • Scientific misconduct: Fabrication, Falsification, and Plagiarism (FFP) • Redundant publications, duplicate and overlapping publications, self-citing • Selective reporting and misrepresentation of data 	II	08 th July 2020
5	<p>Dr. P.M. Jawandhiya Principal, PLIIM, Buldhana</p>	<p>DATABASES AND RESEARCH METRICS: (Database: Indexing databases, Citation database: Web of Science, Scopus, etc)</p>	I	08 th July 2020
6	<p>Dr. N.V. Thakur Professor, Dept. Computer Science & Engg., PRMCEAM, Babasaheb Ambedkar</p>	<p>DATABASES AND RESEARCH METRICS: (Research Metrics: Impact Factor of journal as per Journal Citation Report, SNIP, SIR, IPI, Cite Score, Metrics: h-index, g index, i10 index, altmetrics)</p>	II	08 th July 2020



The Short-Term Training Program was inaugurated on 29th June 2020 followed by Session-1 of Day-1 which was conducted by Dr. Satish V. Inamdar, Associate Dean of Studies, Pimpri Chinchwad Education Trust, Pimpri Chinchwad University and Professor Mechanical Engineering, P.R.M.I.T & R. Siddhanta, Mumbai.

On Day-1, session-1 Dr. S.V. Inamdar discussed Philosophy and Ethics in general and also related to research. He explained and interacted with participants all the way how journal, books, research articles and preprints. The second session of Day-1 was conducted by Dr. G.R. Bhanusekar, Professor and Head, Department of Computer Science & Technology, P.R.M.I.T & R. Siddhanta, Mumbai, and Chairman Board of Studies, Computer Science & Engineering, S.C.B. Amravati University. The Day-1, session-2 was about Publication Manufacture which was simply explained by Dr. G.R. Bhanusekar. He given practical insight about Publication Ethics and way to avoid secondary journal in publication of research work. Inauguration He concluded with message related to publications from India and abroad.

On 29th June 2020, Day-2 Short-Term Training Program, session-1 was conducted by Dr. Mrs. Shalini A. Pradhan, Associate Professor, Department of Computer Engineering, All India Shri Chhatrapati Shivaji Maharaj Vastu Sangrahalaya College of Engineering, Pune. On Day-2, session-1 Dr. Mrs. A. Pradhan discussed Open access publications and advantages. Also explained SCOPUS, PUBMED online resources to check publisher copyright & self-archiving policies and software used to identify predatory publications developed by SPPI (University of Pune) and University of Pune. She provided very helpful information for journal finder & journal suggestions tools via JANE which is very easily known things to researcher. The second session of Day-2 was carried out by Dr. Sanjay R. Dhole, Professor, Department of Electrical Engineering, Ramkrishna College of Engineering, Nagpur. The Day-2 session-2 was about Publication Ethics effectively explained by Dr. Sanjay R. Dhole. He covered Publications ethics, definition, introduction and importance, violation of publications ethics, authorship and contribution-ship and predatory publishers and journals.

On 1st July 2020, Day-3 Short-Term Training Program, session-1 was conducted by Dr. M.S. Ali, Mumbai, Pimpri Chinchwad Education Trust, Pimpri Chinchwad. On Day-3, session-1 Dr. M.S. Ali explained the about Open Access Publishing Initiatives and Opportunities by India. He presented possibilities and opportunity of opening an open access journal and how to gain recognition of newly opened journal. It was a very different vision of sight provided by Dr. M.S. Ali related to the open access journals in India. The second session of Day-3 was organized by Dr. Mahesh S. Khedkar, Director, Knowledge Resource Centre, Saii Group, India American University, Amravati. He explained the impact of Academic Integrity in Research and Publication. He thoroughly presented the views on research publication, plagiarism and research ethics.

On 2nd July 2020, Day-4 Short-Term Training Program, session-1 was conducted by Dr. Ms. Harshadina Nehar, Assistant Professor, Maharashtra Gresham's Amravatiya (Pimpri Chinchwad) Vastu Sangrahalaya, Warananagar. On Day-4, session-1 Dr. Ms. Harshadina Nehar explained about different types of Software Tools for Plagiarism check and also demonstrate the use of plagiarism software like Turnitin, iThenticate and other open source software tools. The second session of Day-4 was organized by Dr. S.V. Dalal, Professor and Head, Electronics Department, Saii Group, India American University, Amravati. He explained about Scientific Conduct in Research. He further elaborated Ethics with respect to science and research, scientific misconducts, Fabrication,

Publication, and Progress (JTP), and Selective reporting and misrepresentation of data related to research.

On 1st July 2020, Day-5 Short-Term Training Program, session-I was conducted by Dr. Pradip M. Jaisankar, Professor, Pimpri Chinchwad Education Institute of Technology & Management Studies (PCEITS), Pimpri, Maharashtra and Chairman, Computer Society of India Chapter Aurangabad. On Day-5, session-I Dr. P.M. Jaisankar discussed about Databases and Research Metrics: (Databases), Indexing databases, Citation databases: Web of Science, Scopus. The second session of Day-5 was delivered by Dr. Nitesh Singh V. Thakur Professor, Department of Computer Science & Engineering, Prof. Jeebha College of Engineering and Management, Indapur-Aurangabad. He explained Databases and Research Metrics: Impact Factor of journal in per Journal Citation Report, SNIP, SIR, IPI, Cite Score, Metrics: h index, g index, I10 index, altmetrics. He demonstrated practically to the researcher about Scopus, ORCID and other account creation information, its importance and necessity in field of research.

An Online feedback was asked from participants and also a Quiz test was conducted on course duration of STTP to assess the understanding of course concepts of participants. All participants provided their feedback and attended the quiz test concluded on last day of Short-Term Training Program.



Online Snapshot of Photo during valedictory of One Week AICTE-ISTE approved STTP



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After completion of session-II of Day-1, a voluntary Session of One Week Online AICTE-ISTE approved Short-Term Training Program on "Research and Publication Ethics" was organized. Dr. R. Anand, Convener of Short-Term Training Program and Head Department Computer Science and Engineering, P.R.M.I.T & R, Badliwala-Arrowat, presented brief summary and addressed to the participants and attendees of Short-Term Training Program. Dr. N.V. Thakur and Dr. J.M. Jaiswal/Dr. A. expert resource person of Day-1 expressed their opinions in voluntary sessions on level of awareness among researchers about research and publication related ethics.

Participants of Short-Term Training Program and attendees also expressed their views on experience of learning and listening to the different resource persons. A feedback was taken from participants, and through feedback all participants applauded and praise the course contents, way of evaluation, expert's knowledge and way of content delivery.

At the end Dr. Sushil K. Gupta Convener of STTP delivered vote of thanks to all participants, resource person / experts, President Vidyaloka Youth Welfare Society and Executive Committee Members of V.V.W.S. Amravati, Honorable Principal P.R.M.I.T & R, Badliwala-Arrowat, Head Department of Computer Science & Engineering, all Convener Members of STTP, System Manager and their team for providing all logistics during conduction of STTP, Teaching and Non-teaching staff of Computer Science & Engineering department, Dr. Sushil K. Gupta and Prof. Sanyam S. Dasgupta coordinators of STTP wholeheartedly expressed thanks to all who directly and indirectly helped to make the Short-Term Training Program a success. At very last a group photograph of participants was clicked. Total Three Hundred Eleven participants (311 Nos) attended for the workshop throughout the country of different fields make a Short-Term Training Program a success.



Online Snapshot of Photo during voluntary of One Week AICTE-ISTE approved STTP

Dr. S.K. Gupta



Report on
One Week

ONLINE SHORT TERM TRAINING PROGRAM

ON

"Machine Learning and A.I. for Application in Language, Vision and Control"

Sponsored by



All India Council for Technical Education (AICTE), New Delhi

Phase I - 7th December to 11th December 2020

Phase II - 14th December to 18th December 2020

Phase III - 21st December to 25th December 2020

Organized By

Department of Electronics & Telecommunication Engineering



Prof. Ram Meghe Institute of Technology & Research,
Atjarangon Bavi Road, Hadapsa (C. Rly),
Amravati (Maharashtra) 444701.



Preface

One Week AICTE Sponsored Short Term Training Program Through Online Mode On **“Machine Learning and A.I. for Application in Language, Vision and Control”** organized by Electronics & Telecommunication Engineering Department at Prof. Ram Meghe Institute of Technology & Research, Badaln, Maharashtra was held in 3 phases between 7th to 11th December, 2020, 14th December to 18th December, 2020 and 21st to 25th December, 2020. The STTP comprised of the programs including introduction of application of Machine Learning In language vision, and Hands on training of python on AI & ML. The program proved to be helpful for the participants to gain adequate knowledge of Python, an open source programming language, and its use in designing various projects in Neural Networks and different methods of analysis of big data. Speaker from the renowned Institutions all over the Country presented different aspects of Machine Learning and A.I. for Application in Language, Vision and Control.



Acknowledgement

We are highly indebted to Dr. Nitin Dhanoo, President, Vidyalina Youth Welfare Society's, PRMIT&R, and Balaram for his kind support and encouragement for organizing such an informative academic event. We are grateful to the Principal of the Institute Dr. A.P. Indrakar for his valuable directions for organizing such events of national importance.

Dr. S. M. Deshmukh, Professor and Head of Department have greatly helped in smooth organization of this event. We acknowledge the useful suggestions and co-operation received from the departmental colleagues and specifically the section heads.

We all are thankful to all the executive member of the VYWS for their constant encouragement and support in organizing such event.

We thank The All India Council for Technical Education (AICTE) for sponsoring STTP, all the Principals of various college for allowing their faculty to participate and participants for their contributions towards One Week AICTE Sponsored Short Term Training Program through Online Mode On "Machine Learning and AI for Application in Language, Vision and Control". We take this opportunity to express our sense of gratitude to the eminent speakers and professionals who have accepted our invitation to share their vast experience and expertise. Last but not the least we are thankful to all our faculty members for their persistent efforts to make this event possible.



MESSAGE



President
Vidharbha Youth Welfare Society,
Camp Road, Amravati – 444 602

I am pleased to know that the Department of Electronics and Telecommunication Engineering, Vidharbha Youth Welfare Society's, Prof. Ram Meghe Institute of Technology and Research, Badnera is organizing One Week AICTE Sponsored Short Term Training Program through Online Mode On "Machine Learning and AI for Application in Language, Vision and Control" from 7th to 11th December, 2020., 14th December to 18th December, 2020 and 21st to 25th December, 2020.

The objective of this STTP is to enhance the knowledge of the faculty and researcher in the field of computer vision and machine intelligence.

I wish to express my sincere appreciation to the entire team of Department of Electronics & Telecommunication Engineering, Prof. Ram Meghe Institute of Technology and Research, Badnera for organizing this STTP.

I assure this program will help the Participants to acquire new skills and Knowledge.

Wish you all the best.

Dr. Nitin Dhande



MESSAGE



Principal, (PRMIT&R), Badnera

It gives me immense pleasure to welcome you all for AICTE sponsored STTP on "Machine Learning and A.I. for Application in Language, Vision and Control" scheduled during 7th to 11th December, 2020, 14th December to 18th December, 2020 and 21st to 25th December, 2020 organized by our institute.

Man has long feared the rise of the machine – his own creation becoming smarter and more intelligent than him. But while artificial intelligence and machine learning are rapidly changing our world and powering the Fourth Industrial Revolution, humanity does not need to be afraid because it's opening new paths for Creating New Jobs, Bridging Language Divides, Transforming Government, Delivering Health Care, Creating Art.

The organized Short Term Training Program has a unique method of teaching which employs practice based training for the participants. I sincerely hope the deliberations in this step will help the participants clear their thought process regarding AI and ML. I wish all the best for the next five days of the Short Term Training Program.

Dr. A. P. Bodakhe



MESSAGE



Coordinator & HOD,

Department of Electronics and Telecommunication Engineering

JRMITAR, Badliasa

At the outset, I welcome you all to AICTE sponsored STTP on "Machine Learning and AI for Applications in Language, Vision and Control" scheduled during 7th to 11th December, 2020, 14th December to 18th December, 2020 and 21st to 25th December, 2020, organized by Department of Electronics and Telecommunication Engineering Prof. Ram Meghe Institute of Technology and Research, Badliasa.

India is a developing country. Development of any country is associatively dependent on the technological advancement, various hardware/software tools available. The lack of facilities available will lead to loss of energy of Human being which will be the little hurdle in the development of country. Therefore, it is necessary to build the hardware and software tools for analysis and handling of big data.

The STTP on "Machine Learning and AI for Applications in Language, Vision and Control" is highly beneficial to Institute. After attending the STTP faculty are enhanced with the knowledge in the field of Machine Learning and Artificial Intelligence, computer vision and provide the platform for doing research in the field of Data Science, ANN and Deep Learning. This upgraded knowledge of Machine Learning will help the students in understanding different aspects of ANN and Deep Learning and directly benefit the Institute.

On behalf of the entire team, I wish you all the very best for this innovative and creative learning experience. Hope you will cherish every moment of it.

Dr. S. M. Dhanalakshmi



PRMIT&R, Badnera

The Vidarbha Youth Welfare Society's, Prof. Ram Meghe Institute of Technology & Research, Badnera-Amravati is a leading technological institute from central India. Established in the year 1983, the institute has a prestigious standing amongst the topmost technical institute of Maharashtra. The institute is approved by AICTE, New Delhi and the program is accredited by the National Board of Accreditation (NBA), New Delhi. Department of Technical Education (DTE), Govt. of Maharashtra, has awarded "A" Grade to the institute.

"Vidarbha Youth Welfare Society" was conceived to be the fountain head of education for rural areas of Amravati and Wardha in the year 1965.

The young, dynamic and forward looking management of PRMIT&R is carrying forward the pioneering legacy of the visionary founders, who dare to dream and strive hard to achieve their seemingly impossible goals. The management team comprises of qualified people and stalwarts from diverse fields. This helps them in coming up with the solutions to vagaries of the technical education field.



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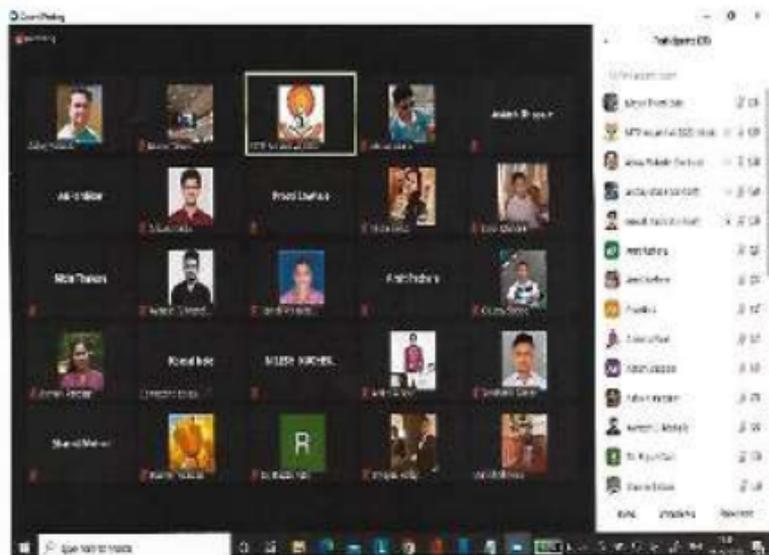


1. Executive Summary

The AICTE sponsored one week short term training program (STTP) through online mode was organized successfully with the participation of (Men 35,5) and 48 is (the I, E and H phase respectively). Faculty members from various Engineering colleges all over India. The STTP was inaugurated at the hands of Honorable Chairman of Vidyalakshya Yashwantrao Chavan Trust, Sri Sri Ningsi Chandra with motivation, encouragement and best wishes. Our beloved President, Dr. A. P. Bhalerao's message was read out by Dr. N. M. Kulkarni, Dean (Training & Placement). His message gave the best idea about the nature and basic information regarding the theme of STTP. Dr. S. M. Deshpande, Head of Electronics and Telecommunication Engineering Department and Coordinator of STTP proved a walk through about program and necessity of Machine Learning and AI for Application in Language, Vision and Control for the students, researchers and practicing/ consulting engineers. The STTP consisted of the program including introduction of application of Machine Learning in language vision, and finally we talking of python as AI & ML. The five days STTP portrayed technical sessions from speakers of Honorable Institute of the Country, who presented different aspects of Machine Learning and AI for Application in Language, Vision and Control. Dr. Manojkumar Singh Mishra (ex Director AICTE, New Delhi), Dr. M. N. Boda (Director, DYOCAE, New Delhi), Prof. Manojendra Pal Singh Chandra (SGGIT, India), Dr. S. V. Bhatel (SOBAI, America), Dr. G. R. Bhanote (PRMITAR, Bhubaneswar), Dr. S. R. Sakhare (VIT Vellore), Dr. C. N. Deshpande (PRMITAR, Bhubaneswar), Mr. Shrikant Mohan (IIT Kharagpur), Dr. N. N. Kulkarni (PRMITAR, Bhubaneswar), Mr. Rajesh Kumar (Senior software Engineer, Pune). The program proved beneficial to participants for understanding and applying knowledge of Artificial Intelligence and updating the knowledge of students for planning of analysis and design. At the end of the course, the program proved to be helpful for the participants keeping in view the present scenario of teaching Python language for Machine Learning. This STTP has encouraged the participants who belong to different area to develop interest in machine learning and its application to ANN and Deep learning. The experience of all the participants was very positive in all phases, wherein they thanked organizers for organizing such a well-planned and informative STTP. A quiz was conducted to assess the



Outcome of the STTP through online mode by making use of Google Meet. The program concluded with the Valedictory function in the presence of Dr. S. M. Deshmukh (Coordinator & Head, STTP) where the participants extended their views and gratitude towards the program.



Participants during the valedictory function during Phase I



2. About Expert

The STIP helped the participants (Faculty of Engineering and Diploma, and Industry persons) to understand and apply knowledge of Artificial Intelligence and to update the knowledge of students for planning of analysis and design. At the end of the course, the program proves to be helpful for the participants keeping in view the present scenario of handling Python language for Machine Learning. This STIP has encouraged the participants who belong to different area to develop interest in machine learning and to subject such as ANN and Deep learning.

Dr. Manpreetsingh Manna (Ex Director AICTE, New Delhi)

Dr. Manpreet Singh Manna graduated in Electrical & Electronics Engineering from Mysore University, Mysore in the year 1965. He did his Master of Engineering in Power & Machines from Thapar Institute of Engineering & Technology, Patiala and Ph.D. from S.L.I.E.T. (A Centrally Funded Deemed University), Longowal, Punjab. Starting his teaching profession as Lecturer from Sant Longowal Institute of Engineering & Technology (S.L.I.E.T.) in the year 1997,



he attained the position of Director, All India Council for Technical Education (AICTE) under Ministry of HRD, Govt. of India, New Delhi on deputation from 2014 to 2018. Dr. Manna received the "COMMENDATION AWARD" from The Hon'ble President of India during the Launch of the "SWAYAM PLATFORM" on 9th July, 2017.

In the inauguration function of the STIP, the keynote speaker Dr. Manpreet Singh Manna sir focused his session on the birth of AI and how machine learning and DNN came into existence. He has explained the role of AI in outcome based education system and how AI can be a part of day to day life in education system. He also highlighted the future of Automation and AI in the teaching learning process during first and second phase of STIP.



Dr. M. N. Huda(Director, BVIC/MS, New Delhi)

Dr. M. N. Huda is presently working as a Professor of Computer Science & Director at Bharati Vidyapeeth's Institute of Computer Applications & Management, New Delhi since April, 2002. He has over twenty five years of experience in academics in different capacities. He is an expert member of many board level committees of Govt. of India like (DST), (CSIR), (MHRD), etc. He is a member of Academic Council of GGSIU University, New Delhi, since last 12 consecutive terms from 2006. He is the Editor in Chief of International Journal of Information Technology. He



was awarded Outstanding Achievement Award – 2000 and the Best IT Teacher of the Year during 18th All India Management Congress in 2016.

Dr. M. N. Huda was who his resource person enlightened the participants with "AI enabled teaching learning paradigm for 21st century". He introduced the changing axis in the field of technology with the role of Artificial Intelligence. He highlighted the key differences between Industry 3.0 and Industry 4.0 in a manner that how AI and IOT has been an important part of industry now a days. How teaching learning process also shifted from physical classrooms to digital classrooms during First Phase of STTP.

Prof. Manendra Pal Singh Chawla (SGSIT, Indore)

Prof. Manendra Pal Singh Chawla is Professor-Industry (Head) Library, Associate Professor in Electrical Engg from G.S. Inst. of Tech. & Science Indore (MP) India, Immediate Past Chairman, 2017-2018, IEEE MP Sub-Society. He has 30 years of experience in teaching Under Graduate and 25 Years in teaching Post Graduate courses. He received Gold Medals in BE (Electrical) and ME (Power Electronics) degrees from Govt. Engineering College, Ujjain, India, and G.S. Institute of Tech. and Science, Indore,





India, from Departments of Electrical Engineering in 1988 and 1992, respectively. He was Conference Chair in IEEE-Explore Con, 2018 International Conference on Advanced Computation and Telecommunication, ICACAT-2018, held during 28-29 Dec 2018, at LNCT, Bhopal, Technically Sponsored by IEEE Bombay Section and IEEE MP Subsection. He is appointed as an Editor in 03 National IAS Journals on 13th DEC 2018.

Dr. Manendra Pal Singh Chawla who was the resource person discussed several aspects on the topic "AI Requirements in Machine Learning & Perspective Approach in Real Time Applications. He introduced computational intelligence in and brief the view light on different computing paradigms of AI. He discussed about machine learning in programming computers to optimize a performance criteria using example data or past experience. He also discussed web based software for machine learning programming, general system of machine learning, machine learning regression, machine learning model & structure, types of learning like supervised and unsupervised, different software and programming languages used in machine learning and AI during all the three phases of STTP.

Dr. S. V. Dandul (SG-BAD, Amravati)

Dr. S. V. Dandul professor and Head, Faculty of Science & Technology, Sant Gadge Baba Amravati University. He received Gold Medal in B.E. (Electronics & Power Engg.), First Class with Distinction, 1986, Nagpur University, and M. E. (Electronics Engineering with specialization in Computer Applications), First Class with Distinction, 1985. He has completed Ph.D. in Electronics Engineering, (A. Topic of Computational Intelligence), 2008. He has total Teaching Experience of 33 years and Administrative Experience of 16 Years. Also, He has published articles in a Reviewer of IEEE Transactions as well as the Reviewer of Elsevier (Science Direct) International Journals. He received Lifetime Engineer Award in 2005 by J. E. (India) Marquis Who's Who Award, USA in 2014.



Dr. S. V. Dandul who was resource person delivered the presentation on "Machine Learning and AI for Applications in Computer Vision". He started with the basic idea behind



machine learning and AI in computer vision. Then he discussed the technologies used in artificial intelligence. He threw a light on conventional machine learning approach with tasks and corresponding examples. He introduced the Deep learning concept in detail with computer vision workflow and deep learning workflow and covered all the ideas behind machine learning and deep learning. He used day to day life examples and also explained the recent applications for the enhancement of human life during all the three phases of STTP.

Dr. G. R. Bannote (PRMIT&R, Badnera)

Dr. Gajendra R. Bannote is a Professor and Head of the Department of Computer Science & Engineering at Prof. Ram Meghe Institute of Technology & Research, Badnera-Amravati. He has vast teaching experience of 30 years. He is the Chairman, Board of studies in Computer Science & Engineering at Sant Gadge Baba Amravati University, Amravati. He was also elected as the Dean of the Faculty of Engineering & Technology of Sant Gadge Baba Amravati University, Amravati. He was the Senate member, Sant Gadge Baba Amravati University, Amravati for 2005-2010.



The resource person was Dr. G. R. Bannote talked on topic "AI in Everyday's life" and discussed about the real life applications of Artificial Intelligence. He gave an overall picture of AI and introduced us to different branches of AI. PLEASE share the presentations and recordings of this lecture as soon as possible. It's very useful and beneficial for future during first phase of STTP.

Dr. C. N. Deshmukh (PRMIT&R, Badnera)

Dr. C. N. Deshmukh is an Associate Professor & Dean Higher studies of Prof. Ram Meghe Institute of Technology & Research, Badnera-Amravati. He has worked in Indian Air Force as Pilot officer, Flying Officer Lieutenant during 1991-1997. He has total teaching experience of 23 years. He





Awarded with Ph.D degree in year 2017 from Saint George's Baba Aurovani University, Aruvankal. More than 35 journal papers has been published by his name. He has published 3 books namely, Microwave Engineering, Mobile Cellular Systems, Wireless Communication.

Dr. C. N. Dadaiah who was the resource person delivered the presentation on "Overview of Artificial Intelligence, Machine Learning and Deep Learning". His presentation about the Artificial intelligence very informative. He highlighted concept of computer vision technology in ML and AI is to create a model that can work itself without human intervention during Second day of the phase 2.

Dr. S. R. Sakthare(VIT Pune)

Dr. S. R. Sakthare is working as a Head of Computer Engineering Department since 2013. He is also working as Board of subjects chairman for Computer and IT board since 2016. He has Professional Industrial experience of 1 year. His area of interest is Operating Systems, Business Intelligence, Data Mining. Area of interest in the field of research is Real Time Embedded Operating Systems, Software Engineering.



Dr. Sachin R. Sakthare who was the resource person delivered presentation on the topic "Introduction to Applications of AI and Machine Learning in Language and Vision". He also highlighted the types of machine learning with the famous algorithms associated with Artificial Neural Networks. He explained the concept of AI with some real life applications such as Self driven cars, Amazon's Alexa, Apple's Siri and chat-bots working in industry with biomedical applications. Also he shared some good research articles published for real time applications of machine learning during all three phases of SITP.

Prof. Shrikant Mehre (IIT Kharagpur)

Prof. Shrikant Mehre joined the Institute as a Research Fellow in January 2014, and is a Research Scholar under the supervision of Prof. Sudipya Mukhopadhyay since July 2014.





Shrikant received his B. E. in Electronics and Telecommunication Engineering in 2010 from Amravati University, and M.Tech. in Electronics in 2012 from SRITDCU, Nanded. His doctoral research is in the area of medical image analysis, focusing on the development of a computer-aided system to aid radiologists in early detection of lung cancer from lung CT images using content-based image retrieval. Shrikant currently has four international conference publications and a journal publication, and his areas of interest include pattern recognition, medical image processing, and machine learning.

The resource person was Mr. Shrikant Mehre from HT Kharagpur gave presentation on "AI Enabled Teaching Learning Paradigms for 21st Century". He enlightened the participants with "Artificial Intelligence: Introduction, Applications, and Recent Trends" In this talk, the guest had covered machine learning basics, along with the application area and recent trends. A talk started with introducing machine learning, its problem types, and few application areas of traditional machine learning. Later, the guest had discussed the fundamental difference between traditional machine learning and deep learning. Afterward, the guest had discussed several application areas. At last, a talk was concluded with a key example explaining a machine learning algorithm during the second phase of STTP.

Dr. N. N. Khalsa (PRM T teaching &R, Badliana)

Dr. N. N. Khalsa Associate Professor and Dean Training and Placement at Prof. Ram Meghe Institute of Technology & Research, Badliana-Arrevaat. His area of interest is Image Processing, Signal Processing, and Machine Intelligence. He has completed Ph.D in year 2015. He is the youngest Ph.D in Electronics Engineering, from Skill Amravati University, he has 2 years of industrial experience and 15 years of teaching experience. He has published 24 research papers in reputed journals, and attended several conferences.



Dr. N. N. Khalsa who was resource person delivered presentation on topic "AI - The next digital frontier" He discussed their how networked devices that the world now creates



every day and why Rapidly growing computing power and more sophisticated algorithms and AI models are also driving the advanced during second and third phase of STTP.

Mr. Supreet Bansod (Senior Software Engineer, Pune)

Mr. Supreet Bansod is working as Senior Software Engineer, Pune in Acelivia Technology Pvt. Ltd, Pune. He has done his Ph.D & M.Tech from SGGS Institute of Engineering and Technology, Nanded. He did his bachelor from PRMIT&R, Badnera-Amravati. He has also teaching experience of 2 years from 2012-2014. His area of interest in field of Computer Vision, Digital Image and Video



Processing, Deep Learning, Neural Networks and Fuzzy Logic, Machine Learning, Pattern Recognition. He published several no. of papers in reputed journal and also attended conference, STTP and FDP. He also worked as reviewer in 2020 IEEE / IITU International Conference on Artificial Intelligence for Good (AIG), IEEE Transactions on Emerging Topics in Computational Intelligence (TETCI), IEEE Sensors Journal.

Mr. Supreet Bansod was the key note speaker talked during the third phase of STTP.

He introduced different algorithms that are widely used and throw light on different computing branches of AI. He discussed about what are the criteria to enhance the performance artificial intelligence and machine learning using example data or past experience.



3. Short Term Training Program through online mode

3.1 Introduction

The history of AI is not without controversy and opposing views, as is any endeavor which seems to some to duplicate our humanity in a machine or which interprets human activity as the result of machine-like processes. The basic objective of AI is to enable computers to perform such intellectual tasks as decision making, problem solving, perception, understanding human communication and the like.

The present-day pervasiveness of AI, given how little it is noticed in everyday life, suggests that in important ways this objective has been reached. AI can help eliminate the necessity for humans to perform tedious tasks. One of the main benefits of artificial intelligence is its ability to reduce the drudgery involved in many work tasks. Repetitive, tedious tasks in any job are the bane of many human workers around the world.

Artificial intelligence is impacting the future of virtually every industry and every human being. Artificial intelligence has acted as the main driver of emerging technologies like big data, robotics and IoT, and it will continue to act as a technological innovator for the foreseeable future.

In Machine Learning (ML) and AI - Computer vision is used to train the model to recognize certain patterns and store the data into their artificial memory to utilize the same for predicting the results in real-life use.

3.2 Objective

The STTP is highly beneficial not only to faculties but also industrial persons for future growth in developing & shaping the student in civil engineering etc. At the end of STTP participants will be able to



- 1) Enhanced knowledge of the faculty and researcher in the field of computer vision and Machine intelligence.
- 2) Develop a basic understanding of the principles of machine learning and AI.
- 3) Introduce Application of Machine Learning in language and vision.
- 4) Give brief emphasis on various issues, challenges and applications related to AI and Machine Learning.
- 5) Improve Quality as engineering teachers in order to up-grade the knowledge, enhancing research and teaching skills.
- 6) Familiarize the participants with AI requirements and utilization in real time application.

3.3 The Collaborators

The All India Council for Technical Education (AICTE) Sponsored Short Term Training Program through online mode On "Machine Learning and AI for Application in Language, Vision and Control" in the college Prof. Ram Meghe Institute of Technology & Research, Badnera, Amravati.

3.4 Program Format

The One week STTP program was scheduled for 5 continuous days at Prof. Ram Meghe Institute of Technology & Research, Badnera, Amravati.

4. Pre-Program Activity

Allotment of Short Term Training Program

The All India Council of Technical Education (AICTE) selects few colleges to organize the Faculty Development Program every year. Prof. Ram Meghe Institute of Technology & Research Badnera, Amravati was one of them in the year 2020-2021.

Program Monitoring Committee (PMC)

A Program monitoring committee was formed for smooth organizing, scheduling and evaluating the STTP. It included



Dr. A. P. Bodkhe Chairman, P. M. C. (Principal, PRMIT&R, Badnera),

Dr. S. M. Deshmukh Coordinator S.T.T.P. (HOD Electronics and Telecommunication, PRMIT&R, Badnera),

Dr. G. R. Bannote, Member P. M. C (Head CSE, PRMIT&R, Badnera)

Dr. D. S. Ingole, Member P. M. C (Head Mechanical, PRMIT&R, Badnera)

Dr. P. V. Ingole, Subject Expert P. M. C (Head IT, PRMIT&R, Badnera)

Scheduling the Course

After discussions with other institute dignitaries, the program was divide into three phases and scheduled as:

Phase I: 7th to 11th December, 2020,

Phase II: 14th December to 18th December, 2020

Phase III: 21st to 25th December, 2020

Appointing Short Term Training Program Organizing Committee

PMC committee included Prof. V. R. Raut, Dr. N. N. Khalsa, Prof. V. J. Babrekar, Prof. M. V. Tiwari, Prof. A. S. Utane, Prof. B. P. Fuladi, Prof. A.B. Pardikar and Prof. A.D. Kahu for organizing STTP.

6. Feedback of participants during STTP-I



Mr. Shyam Alaspure

(Data Scientist)

AccionLabs Technologies Pvt. Ltd.

During this pandemic, the STTP: ML & AI for applications in language, vision & control is the most informative STTP amongst all programs that I have attended. Organizers made extreme efforts for making this STTP as a successful one. I personally found that every schedule was very well managed with various intellectual speakers who had explained ML & AI explained from basic till their perspective Approach.



Prof. Ms. N. C. Band

"It was very nicely planned and well organized STTP, Starting with the keynote speaker who was very enthusiastic has focused on the birth of AI & how machine learning & DNN came into existence. It was a great experience to hear such eminent speaker. Among all the STTPs that I have attended in this pandemic I found this STTP More informative"

Feedback of participants during STTP-II



Dr. Yogesh Thakare
Assistant Professor,
Dept of EXTC Engg, RKNCOET, Nagp

I feel fortunate to be the part of this highly informative STTP. One of the resource persons named Dr. S. V. Dadul explained the basic idea behind machine learning & AI in computer vision followed by hands on session using python. I congratulate EXTC Department of PRMIT & R Badnera and thanked the organizers for such wonderful conduction during this high alert pandemic situation.



Prof. Anup M. Modghe
(HVP, COET)

Targeted information on ML & AI for Applications in Language, vision & control was thoroughly explained by the Intellectual speakers in this STTP. All the doubts were properly evaluated & it was a great experience to hear such eminent speakers. My sincere thanks to the PRMIT & R, organizers and speakers for such a wonderful well organized program.

Feedback of participants during STTP-III



Prof. Shreyash Heley
Assistant Professor
EXTC Dept, (GIT & K. Amravati)

First of all, Best wishes & congratulations to the team of STTP. Starting with the keynote speaker who was very enthusiastic has focused on the birth of AI & how machine learning & DNN came into existence. The changing scenario in the in the field of technology with the rise of artificial intelligence has been explained wonderfully by Dr. M. N. Hoda. Looking forward for such kind of workshops in future. Thank you.



Prof. Sharvari Tantarale

I found this STTP very useful as I am Pursuing my PhD and is in search of such informative & innovative real time applications. Starting from origin and emergence of AI, its role in outcome based education system was perfectly explained by Dr. M.P.S. Manrao Sir. Detailing about the statistical probability of machine learning & Data science given by Dr. S. R. Sakhere will help me for understanding the concept behind it. Being a part of this STTP will prove to be very fruitful in the coming days of my career.



Participants during valedictory function in Phase-3



Dr. Manpreet Singh Manna Ex Director AICTE, New Delhi during Inaugural Phase-1



Dr. M.N. Hoda BVICAM, New Delhi during session in Phase-I

Dr. S. R. Sakhare (VIIT) during session in Phase-I



Mr. Shrikant Mehre (IIT Kharagpur) during session in Phase-2



Dr. C.N. Deshmukh (PRMIT&R Badnera) during session in Phase-3

Cont...

- Bayes and Naïve Bayes classification
 - Finding the posterior probabilities which decides the class

Mr. Suprit Bansod

Mr. Suprit Bansod Senior, Software Engineer, Acclivis Technologies Pvt. Ltd, Pune.

```

import numpy as np
import matplotlib.pyplot as plt
import librosa
import librosa.display
import tensorflow as tf

# Load audio file
audio, sr = librosa.load('audio.wav')

# Compute Mel-frequency cepstral coefficients (MFCC)
mfccs = librosa.mfcc(audio, sr)

# Compute the mean of MFCCs
mfccs_mean = np.mean(mfccs, axis=1)

# Compute the variance of MFCCs
mfccs_var = np.var(mfccs, axis=1)

# Compute the log of the mean and variance
mfccs_mean_log = np.log(mfccs_mean)
mfccs_var_log = np.log(mfccs_var)

# Compute the log of the sum of squares of the mean and variance
mfccs_log_sum_sq = np.log(mfccs_mean_log**2 + mfccs_var_log**2)

# Compute the log of the sum of squares of the mean and variance
mfccs_log_sum_sq = np.log(mfccs_mean_log**2 + mfccs_var_log**2)

```

Dr. S. R. Sakhare

Dr. S. R. Sakhare (VIIT) during session in Phase-3

Music?

No, more like gardening

Seeds = Algorithms
Irrigation = Data
Gardener = You
Plants = Programs

Participants (10):

- Dr. Manendra Pal Singh Chawla 0:18
- Dr. S.V. Dadul 0:20

Dr. Manendra Pal Singh Chawla SGSIT, Indore during session in Phase-3

Some of the most common machine learning tasks

Classification is one form of task that involves using a model to predict a category (e.g., "spam" vs. "not spam") based on input features.

Regression is another form of task that involves using a model to predict a continuous value (e.g., "price of a house") based on input features.

Clustering is a task that involves grouping similar data points together (e.g., "customer segmentation") based on their features.

Dimensionality reduction is a task that involves reducing the number of features in a dataset (e.g., "feature selection") while preserving as much information as possible.

Dr. S.V. Dadul

Participants (10):

- Dr. Manendra Pal Singh Chawla 0:20
- Dr. S.V. Dadul 0:20

Dr. S.V. Dadul (SCBAU Amravati) during session in Phase-3

Board of CTE Advisors
West Virginia State Department of Education
Room 400
150 State Capitol Building, Charleston, West Virginia
25300-0000

List of Participants in the Advisory Committee for the CTE Career Pathways Program in Mountain Counties

Order	Name	Address	Phone	Organization
1	John Doe	123 Main St	304-555-1234	ABC Company
2	Jane Smith	456 Elm St	304-555-5678	XYZ Inc
3	Robert Johnson	789 Oak St	304-555-9012	DEF Corp
4	Mary Williams	101 Pine St	304-555-3456	GHI LLC
5	David Brown	202 Maple St	304-555-7890	JKL Partners
6	Sarah Davis	303 Cedar St	304-555-2345	MNO Group
7	Michael Miller	404 Birch St	304-555-6789	PQR Systems
8	Emily Wilson	505 Walnut St	304-555-0123	STU Solutions
9	James Taylor	606 Cherry St	304-555-4567	VWX Ventures
10	Laura Anderson	707 Peach St	304-555-8901	YZA Innovations
11	Christopher Lee	808 Plum St	304-555-2345	BCD Enterprises
12	Amanda White	909 Apple St	304-555-6789	EFG Holdings
13	Matthew Hall	1010 Orange St	304-555-0123	HIJ Capital
14	Olivia King	1111 Grape St	304-555-4567	KLM Finance
15	Benjamin Green	1212 Lemon St	304-555-8901	NOP Insurance
16	Sophia Adams	1313 Lime St	304-555-2345	QRS Consulting
17	Lucas Baker	1414 Lemon St	304-555-6789	TUV Analytics
18	Isabella Clark	1515 Orange St	304-555-0123	WXY Research
19	Henry Evans	1616 Grape St	304-555-4567	ZAB Development
20	Aria Foster	1717 Peach St	304-555-8901	CGH Services
21	Sebastian Garcia	1818 Plum St	304-555-2345	IKL Operations
22	Madison Hill	1919 Apple St	304-555-6789	MNO Logistics
23	Julian King	2020 Orange St	304-555-0123	PQR Marketing
24	Chloe Lewis	2121 Grape St	304-555-4567	STU Sales
25	Isaac Miller	2222 Lemon St	304-555-8901	VWX Support
26	Grace Wilson	2323 Lime St	304-555-2345	YZA Training
27	Samuel Young	2424 Lemon St	304-555-6789	ABC Education
28	Madeline Zane	2525 Orange St	304-555-0123	DEF Research
29	Christopher Bell	2626 Grape St	304-555-4567	GHI Consulting
30	Olivia Black	2727 Peach St	304-555-8901	JKL Analytics



Report by Program Monitoring Committee (PMC) of

One Week

AICTE Sponsored Short Term Training Program

Phase I on

"Machine Learning and AI for Application in Language, Vision and Control"

7th Dec to 11th Dec 2020

The AICTE sponsored one week short term training program (STTP) through online mode phase I was organized successfully with the participation of Fifty Five (55) Faculty members from various Engineering colleges all over India. The STTP was inaugurated at the hands of Honorable Chairman of VVWS society Shri Nilaji Dasaade with motivation, encouragement and best wishes to STTP. On behalf of our beloved Principal, Dr. A. P. Bhoirde, his message was read out by Prof. A. L. Rukade (Assistant Professor) the message gave the brief idea about the institute and best information regarding the theme of STTP. Dr. S. M. Deshmukh, Head of Electronics and Telecommunication Engineering and Coordinator of STTP proved a walk-through about program and necessity of Machine Learning and AI for Application in Language, Vision and Control for the students, researchers and practicing consulting engineers. The STTP comprised of the programs including introduction of application of Machine Learning in language vision, and Hands on training of python on AI & ML.

The one week STTP portrayed technical sessions from speakers from Renowned Institute of the Country, who presented different aspects of Machine Learning and AI for Application in Language, Vision and Control, namely Dr. Manjureshwar Mehta (Ex Director AICTE, New Delhi), Dr. M. N. Dady (Director, FVCOM, New Delhi), Prof. Manasrao Pal Singh Chavla (SGSIT, Indore), Dr. S. V. Dadao (SOBAU, Amravati), Dr. G. R. Herrera (FOMIT&R, Bolivia), Dr. S. R. Solanki (VIT Pune). The program proved beneficial to participants for acquiring knowledge about recent technological development in the field of Earthquake and Wind engineering. At the end of the course, the program proved to be helpful for the participants keeping in view the present scenario of Infrastructure Development. The experience of all the participants was very nice, wherein they thanked organizers for organizing such a well-planned and informative STTP. A quiz was conducted to assess the outcome of the STTP through online mode by making use of Google form.



The program concluded with the Valedictory function in the presence of Dr. S. M. Deshmukh (Coordinator & Head, STIP) where the participants extended their views and gratitude towards the program.

Dr. S. M. Deshmukh
Member Secretary, PMC
(Head, Extc. PRMIT&R, Badnera)

Dr. A. P. Bodhke
Chairman, PMC
(Principal, PRMIT&R, Badnera)





Report by Program Monitoring Committee (PMC) of

One Week

AICTE Sponsored Short Term Training Program

Phase II on

"Machine Learning and AI for Application in Language, Vision and Control"

14th Dec to 18th Dec 2020

The AICTE sponsored one week short term training program (STTP) through online mode phase I was organized successfully with the participation of Fifty One (51) Faculty members from various Engineering colleges all over India. The STTP was inaugurated in the hands of Honorable Chairman of VYWS society Shri Nandji Dikande with motivation, encouragement and best wishes to STTP. On behalf of our beloved Principal, Dr. A. P. Borkhe, his message was read out by Prof. A. J. Bokade (Assistant Professor); the message gave the brief idea about the institute and basic information regarding the nature of STTP. Dr. S. M. Deshmukh, Head of Electronics and Telecommunication Engineering and Coordinator of STTP paved a walk through about program and necessity of Machine Learning and AI for Application in Language, Vision and Control for the students, academics and practicing/consulting engineers. The STTP comprised of the programs including introduction of application of Machine Learning in Language, vision, and Hands on training of python on AI & ML.

The one week STTP presented technical sessions from speakers from Renowned Institute of the Country, who presented different aspects of Machine Learning and AI for Application in Language, Vision and Control, namely Dr. Manjureshwar Datta (Ex-Director AICTE, New Delhi), Mr. Sarthak Mehta (IIT, Kharagpur), Dr. S. R. Sakhare (VIT Pune), Prof. Mazurek Pal Singh Choudhary (SGSIT, Indore), Dr. S. V. Dabhi (SGSIAT, Anand), Dr. N. N. Khajis (PRACETAR, Bodrum). The program proved beneficial to participants for acquiring knowledge about current technological development in the field of Earthquake and Wind engineering. At the end of the course, the program proved to be helpful for the participants keeping in view the present scenario of Infrastructure Development. The experience of all the participants was very nice, wherein they thanked organizers for organizing such a well-planned and informative STTP. A quiz was conducted to assess the outcome of the STTP through online mode by making use of Google form.

The program concluded with the Valedictory function in the presence of Dr. S. M. Deshmukh



(Coordinator & Head, STTP) where the participants extended their views and gratitude towards the program.

Dr. S. M. Deshmukh
Member Secretary, PMC
(Head, Extc, PRMIT&R, Badnera)

Dr. A. P. Bodkhe
Chairman, PMC
(Principal, PRMIT&R, Badnera)





Report by Program Monitoring Committee (PMC) of

One Week

AICTE Sponsored Short Term Training Program

Phase III on

"Machine Learning and AI for Application in Language, Vision and Control"

21st Dec to 25th Dec 2020

The AICTE sponsored one week short term training program (STTP) through online mode phase I was organized successfully with the participation of Forty Eight (48) Faculty members from various Engineering colleges all over India. The STTP was inaugurated at the hands of Honorable Chairman of VVWS society Sri: Ninaji Ushade with motivation, encouragement and best wishes to STTP. On behalf of our beloved Principal, Dr A P Bodake, his message was read out by Prof. A. I. Relede (Assistant Professor) the message gave the brief idea about the institute and basic information regarding the theme of STTP. Dr. S. M. Urshankh, Head of Electronics and Telecommunication Engineering and Coordinator of STTP proved a walk through about program and necessity of Machine Learning and AI for Application in Language, Vision and Control for the students, researchers and practicing consulting engineers. The STTP comprised of the program including introduction of application of Machine Learning in language vision, and Hands on training of python on AI & ML.

The one week STTP portrayed technical sessions from speakers from Reputed Institute of the Country, who presented different aspects of Machine Learning and AI for Application in Language, Vision and Control. Mr. Suresh Ramak (Sonise , Software Engineer), Dr. C. N. Doshankh, Dr. S. B. Solankar (VIT Pune), Prof. Manojkumar Pal Singh Chavala (SGSIT, Indore), Dr. S. V. Dhal (SGSIIT, Amravati), Dr. N. N. Khale (PRMITAR, Bardez). The program proved beneficial to participants for acquiring knowledge about current technological development in the field of Earthquake and Wind engineering. At the end of the course, the program proved to be helpful for the participants keeping in view the present scenario of Infrastructure Development. The experience of all the participants was very nice, wherein they thanked organizers for organizing such a well-planned and informative STTP. A quiz was conducted to assess the outcome of the



STTP through online mode by making use of Google form. The program concluded with the Valedictory function in the presence of Dr. S. M. Deshmukh (Coordinator & Head, STTP) where the participants extended their views and gratitude towards the program.

Dr. S. M. Deshmukh
Member Secretary, PMC

(Head, E&R, PRMIT&R, Badnera)

Dr. A. P. Bodkhe
Chairman, PMC

(Principal, PRMIT&R, Badnera)



A REPORT OF ONLINE WORKSHOP ON BASIC PYTHON PROGRAMMING

This was the workshop on "Basic Python Programming" Organized by department of Electronics & Telecommunication Engineering, PRMIT&R, Badnera on 10th March 2021 to 19th April 2021 for all the Second Year Students, to explore the power and simplicity of python. This workshop was appreciated by all the students as they were able to add another programming language in their technical skill set. The trainer Prof. M. V. Tiwari is the faculty member of our department, has given the mix of theory and practical knowledge of Python. Dr. S. M. Deshmukh, HOD, EXTC department PRMIT&R, Badnera and Dr. A. P. Bodkhe, principal, PRMIT&R inaugurated the workshop, also motivated the students with his speech and explained that these kinds of workshops are beneficial for their upcoming placements and technical knowledge.

After inaugural function with the permission of Dr. A. P. Bodkhe, Prof. M. V. Tiwari started workshop with the fundamentals of Python Programming which covers History, importance and applications of the Python Programming.

Python Input and Output operations has been covered with so many test examples which makes students more interactive during the session.

Python Operators (All types) in detail covered during workshop with shot examples. Control Statements covers if statement, if - else statement, if - elif - else statements syntax with unique examples. Control statements also covers while loop and for loop with all its basic examples followed by MCQ session.

Python Array, String and Data Types were very well understood by the students. All session consists of MCQ session which was very useful for understanding all the basic and complex part of the topic. During final stage of the workshop students were able to learn Modules and Packages, Basics of GUI using tkinter and database connectivity.

At the end of the workshop students were able to code in Python in a very efficient manner.

Workshop Content:

Unit 1.

Introduction, Fundamentals, Input & Output,

Unit 2.

Operators, Control Statements, Test Examples

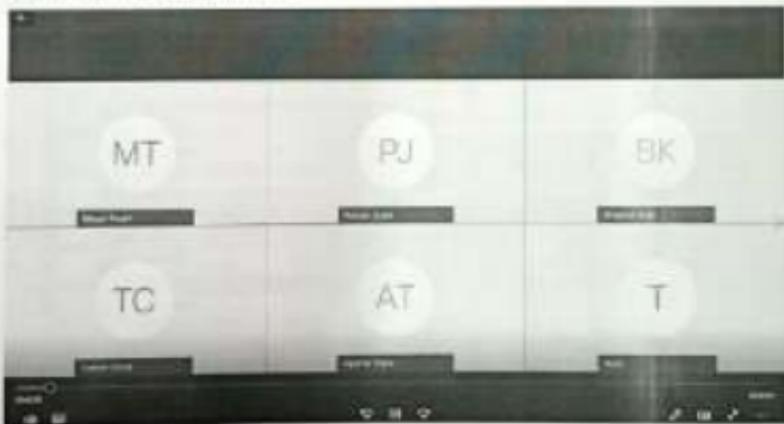
Unit 3.

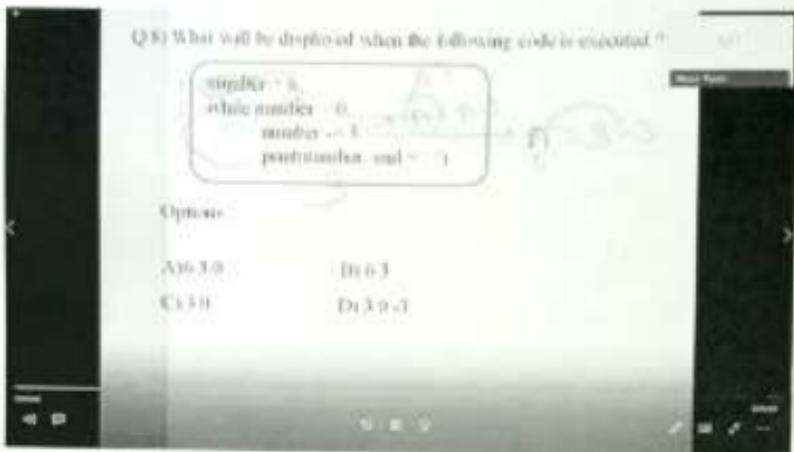
Arrays, Strings, functions, Data Types, Test examples

Unit 4.

Modules and Packages, Basic of GUI using tkinter, Python Database Connectivity (PDBC)

Online Workshop Glimpses:





Workshop Output:

Every student able write a code using python programming. Students now feel more comfortable with Python applications as well.

Feedback from Students:

Students experienced a special hands-on practice learning session through which they got a better understanding of programming. Students understood the importance of Python coding in the development of small projects. The content delivery was as per the needs of every student along with the huge interaction. Overall, the workshop was productive.

Words from HOD (Dr. S. M. Deshmukh):

"The workshop conducted by our faculty Prof. M. V. Tiwari will be very useful to our students for their upcoming placement activities. I must appreciate the efforts taken by Prof. Tiwari to improve the programming knowledge of students".

Prof. M. V. Tiwari

Instructor



Dr. S. M. Deshmukh

HOD

Head

Dept. of Elec. & Telecom. Engg.
P.R.M.T.E. Edneria - A

**A REPORT
ON
"GATE 2021 CARRER OPPORTUNITIES"**

Webinar Dates:

For 3rd Year Student

22/09/2020, 21/09/2020 & 30/09/2020

For Final Year Students

22/09/2020, 27/09/2020 & 27/09/2020

ORGANIZED BY

**Department of Electronics & Telecommunication Engineering,
Prof. Ram Meghe Institute of Technology & Research,
Badnera - Amravati**

Online Platform: Cisco WebEx

During this pandemic situation, many students were worried about their career and future plans. These COVID-19 situation has made students apathetic regarding their decisions and aspirations. A lot of students have a dream to crack the GATE examination and get good score for future placements and education. To guide these students Electronics & Telecommunication Engineering department, Prof. Ram Meghe Institute of Technology & Research had organized a webinar on **GATE 2021 CARRER OPPORTUNITIES** on Cisco WebEx platform in six sessions with same contents. More than 100 students of 3rd Year and Final Year from Electronics and Communication department had taken the main benefit of this webinar. Along with the students, head of the department Dr. S. M. Deshmukh, Training & Placement officer Dr. N. N. Khalsa and Class Teachers of 3rd Year and Final Year Classes also attended the webinar.

This webinar was mentored by Prof. M. V. Tiwari, Assistant Professor, Department of Electronics & Telecommunication Engineering, PRMIT&R, Badnera - Amravati.

The session started with the brief overview of GATE 2021 and recent changes that were made in GATE 2021 examination by IIT Bombay due to COVID-19. Further, it was followed by the GATE examination's importance for engineering students. The webinar was majorly discussed for Electronics & Telecommunication Engineering (branch code EC). The future scope of an Electronics engineer was discussed. After this explanation, the latest syllabus and exam pattern for GATE examination of EC branch was discussed in depth. The webinar concluded with the importance of GATE examination in different sectors like engineering jobs, Government Jobs, Campus placements and technical interviews, P.G. Admissions, Scope of GATE in Abroad Universities, scholarships, etc. A Q & A session was organized so that the doubts regarding the session was solved. The whole session lasted for 1 hour with positive feedbacks.

Webinar Glimpses:

GATE 2021 Highlights

- Exam on 03/01/2021 (Friday) 9:00 AM to 12:00 PM
- Exam on 04/01/2021 (Saturday) 9:00 AM to 12:00 PM
- Exam on 05/01/2021 (Sunday) 9:00 AM to 12:00 PM
- Exam on 06/01/2021 (Monday) 9:00 AM to 12:00 PM
- Exam on 07/01/2021 (Tuesday) 9:00 AM to 12:00 PM
- Exam on 08/01/2021 (Wednesday) 9:00 AM to 12:00 PM
- Exam on 09/01/2021 (Thursday) 9:00 AM to 12:00 PM
- Exam on 10/01/2021 (Friday) 9:00 AM to 12:00 PM
- Exam on 11/01/2021 (Saturday) 9:00 AM to 12:00 PM
- Exam on 12/01/2021 (Sunday) 9:00 AM to 12:00 PM
- Exam on 13/01/2021 (Monday) 9:00 AM to 12:00 PM
- Exam on 14/01/2021 (Tuesday) 9:00 AM to 12:00 PM
- Exam on 15/01/2021 (Wednesday) 9:00 AM to 12:00 PM
- Exam on 16/01/2021 (Thursday) 9:00 AM to 12:00 PM
- Exam on 17/01/2021 (Friday) 9:00 AM to 12:00 PM
- Exam on 18/01/2021 (Saturday) 9:00 AM to 12:00 PM
- Exam on 19/01/2021 (Sunday) 9:00 AM to 12:00 PM
- Exam on 20/01/2021 (Monday) 9:00 AM to 12:00 PM
- Exam on 21/01/2021 (Tuesday) 9:00 AM to 12:00 PM
- Exam on 22/01/2021 (Wednesday) 9:00 AM to 12:00 PM
- Exam on 23/01/2021 (Thursday) 9:00 AM to 12:00 PM
- Exam on 24/01/2021 (Friday) 9:00 AM to 12:00 PM
- Exam on 25/01/2021 (Saturday) 9:00 AM to 12:00 PM
- Exam on 26/01/2021 (Sunday) 9:00 AM to 12:00 PM
- Exam on 27/01/2021 (Monday) 9:00 AM to 12:00 PM
- Exam on 28/01/2021 (Tuesday) 9:00 AM to 12:00 PM
- Exam on 29/01/2021 (Wednesday) 9:00 AM to 12:00 PM
- Exam on 30/01/2021 (Thursday) 9:00 AM to 12:00 PM
- Exam on 31/01/2021 (Friday) 9:00 AM to 12:00 PM

Important Dates

Event	Date	Time
Registration starts	01/10/2020	10:00 AM
Registration ends	30/09/2020	11:59 PM
Exam date	03/01/2021	09:00 AM
Exam date	04/01/2021	09:00 AM
Exam date	05/01/2021	09:00 AM
Exam date	06/01/2021	09:00 AM
Exam date	07/01/2021	09:00 AM
Exam date	08/01/2021	09:00 AM
Exam date	09/01/2021	09:00 AM
Exam date	10/01/2021	09:00 AM
Exam date	11/01/2021	09:00 AM
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Exam date	21/01/2021	09:00 AM
Exam date	22/01/2021	09:00 AM
Exam date	23/01/2021	09:00 AM
Exam date	24/01/2021	09:00 AM
Exam date	25/01/2021	09:00 AM
Exam date	26/01/2021	09:00 AM
Exam date	27/01/2021	09:00 AM
Exam date	28/01/2021	09:00 AM
Exam date	29/01/2021	09:00 AM
Exam date	30/01/2021	09:00 AM
Exam date	31/01/2021	09:00 AM

Webinar on
GATE 2021
Expert
M. V. Tiwari
Assistant Prof.
at EXTC Dept., PRMIT&R, Badnera

(B. E. in Electronics & Telecommunication Engineering, H.V.P.M.C.O.E.T., Amravati, 2009)
(M. Tech. in Electronic System & Communication, An Autonomous Institute of G.C.O.E., Amravati, 2013)
(Pursuing Ph.D. from P.G. Department of Applied Electronics, S.G.B.A.U. under the guidance of Dr. S. V. Dudul, Head PGDAE.)

Why GATE ?

- Scholarship/Assistantship for Post Graduate Programs
- Use of GATE Score for Employment (PSU's, MDR's, etc.)
- Some Abroad Universities accept GATE score for M.Phil/ admission
- Singapore's NTU (Rank - 11th)
- Technical University of Munich in Germany (Rank - 55th + 500 Euros per semester)
- RWTH Aachen University (Rank - 11th) + 240 Euros per Semester
- National University of Singapore

Date: 1st Oct. 2020




Dr. S. M. Deshmukh
HOD
Dept. of Elect. & Telecom. Engg.
P.R.M.I.T.&R Badnera Amravati

A REPORT OF ONLINE WORKSHOP ON "INTRODUCTION TO PROGRAMMING USING PYTHON"

This was the workshop on "Introduction to programming using Python" Organized by department of Electronics & Telecommunication Engineering, PRMIT&R, Badnera on 10th Nov. 2020 and conducted for daily 1½ hr. till 19th April 2021 for Third Year Students (total 15 sessions), to explore the power, application and simplicity of python. This workshop was appreciated by all the students as they were able to add another programming language in their technical skill set. The trainer Prof. M. V. Tiwari is the faculty member of our department, has given the mix of theory and practical knowledge of Python. DR. S. M. Deshmukh, HOD, EXTC department PRMIT&R, Badnera and Dr. A. P. Bodkhe, principal, PRMIT&R inaugurated the workshop, also motivated the students with his speech and explained that these kinds of workshops are beneficial for their upcoming placement activities and technical knowledge.

After inaugural function with the permission of Dr. A. P. Bodkhe, Prof. M. V. Tiwari started workshop with the fundamentals of Python Programming which covers History, importance and applications of the Python Programming.

Python Input and Output operations, Python Arrays and Strings has been covered with so many test examples which makes students more interactive during the session.

Python with Data Structures - Lists, Tuples, dict, etc., Python with Data Structures - Lists, Tuples, dict, etc.

Python Operators (All types) in detail covered during workshop with shot examples. Control Statements covers if statement, if – else statement, if – elif – else statements syntax with unique examples. Control statements also covers while loop and for loop with all its basic examples followed by MCQ session.

Python Files and file handling method is useful in some applications like Data Analysis. Python Modules & Packages provides information about Python huge library which makes it different from other programming languages.

All session consists of MCQ session which was very useful for understanding all the basic and complex part of the topic.

At the end of the workshop students were able to write Python codes very efficiently.

Workshop Content:

Unit 1.

Introduction to Python, Python Installation, Basics (fundamentals, inputs and outputs)

Unit 2.

Python Operators, Python Arrays, Strings

Unit 3.

Python with Data Structures - Lists, Tuples, dict, etc., Python with Data Structures - Lists, Tuples, dict, etc. (**Python Programming**)

Unit 4.

Python Control Statements (if, if - else, if - elif -else, for loop), Python Control Statements (while loop, break, continue, pass)

Unit 5.

Python Functions with some programs, Nested Functions, Lamda Function

Unit 6.

Python Files, Python Modules & Packages

Online Workshop Glimpses:

Development of Python

- Python was first developed by Guido Van Rossum in the year 1989 (December).
- He was born in Netherlands and studies in University of Amsterdam.



Why the name Python ?

Van Rossum picked the name Python from TV show "Monty Pythons Flying Circus".

NW
Hilbert Wehrle
x22

NW Hilbert Wehrle	RB Rishi Rajput
VD Vincent D'Amico	HD Hilbert Wehrle

09:51:17

```
File Edit Format View Options Window Help
Python 3.9.0 Shell
# Example of break statement in while loop
n = 5
while n > 0:
    n = 1
    break
print(n)
print("Loop is finished")

# Example of break statement in for loop
for i in range(0, 10):
    # for loop begins
    i = i + 1
    # increment the variable
    if i == 0:
        # condition for break statement
        break
    print(i)
    # print i the false condition of if statement
    print("Loop is finished")
    # print when break statement executed
    break
print()

for letter in "Python":
    if letter == "h":
        break
    print("current letter:", letter)
print("Break statement executed")
```

Who is invited?

Q 4) What is the result ?

```
Def sum(a, b):
    c = a + b
    return c
    print(c)
Res = sum (10, 20)
Print(res)
```

Options :

A. 30	B. 0
30	30
C. Error	D. 30

Workshop Out-turn:

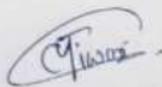
Every student able write a code using python programming specially control statements, functions, with nested functions and file handling. Students now feel more comfortable with Python applications as well.

Feedback from Students:

According to students the instructor has a good sense of content delivery. The notes provided after every class having complete details about the topic with short Python codes. The students experienced a special hands-on practice learning session through which they got a better understanding of programming. Students understood the importance of Python coding in the development of small projects. The content delivery was as per the needs of every student along with the huge interaction. Overall, the workshop was productive.

Words from HOD (Dr. S. M. Deshmukh):

"Now a days Python coding is rightly adopted by most of the MNC's like Google, Microsoft, etc. So this workshop plays a vital role for our students to make their future in these dream MNC's. The workshop conducted by our faculty Prof. M. V. Tiwari will be very useful to our students for their upcoming placement activities. I must appreciate the efforts taken by Prof. Tiwari to improve the programming knowledge of students. In future the department expects the same cooperation from him".



Prof. M. V. Tiwari
Instructor



Dr. S. M. Deshmukh

HOD

Dept. of Elect. & Telecom. Engg.
P.R.M.I.T.S.R. Badnera Ambegaon

Prof. Ram Meghe Institute of Technology & Research , Badenera
Department of Information Technology
Activities performed (Training Program, workshop ,Seminars & Guest Lectures) in
2020-21

Sr. No.	Name of the Activity	Date
1	Four Days online workshop on Basics of Python Programming by MindSpaXs , Training division of Ctronics InfoTech Pvt. Ltd	23 rd -26 th June 2020
2	Training and Placement Awareness program for third year students	11 th July 2020
3	Training and Placement Awareness program for second year students	15 th July 2020
5	Two days online workshop on AI & Machine Learning Workshop by Ctronics InfoTech Pvt. Ltd	5 th -6 th September 2020
6	Online Digital Poster Presentation Competition Theme: "Effect of COVID-19 on Society"	15 th September 2020
7	Online Movie Making Competition on theme "Effect of Covid 19 on Society"	17 th September 2020
8	One day online workshop on Machine Learning & Data Science with Python by Ibase Electrosoft LLP	19 th September 2020
9	Online workshop on Python Web development using Flask	3 rd October 2020
10	Workshop on conduction of online classes on Webex using Moodle	8 October 2020
11	Workshop on how conduct and evaluate online tests and practical on Moodle	22 nd December 2020



Digital Poster Presentation Competition, Theme: "Effect of COVID-19 on Society"



Competition hosted on date 1st Sept 2020

Department of Information Technology, II(II) & II(TE) student chapter & of Prof. Ravi Meghe Institute of Technology & Research Budhgaon organized an online event Digital Poster Presentation Competition on the occasion of engineers day. The participation of students was wholehearted; they presented their digital posters online through zoom software. Theme of the event was "Effect of COVID-19 on Society". Each poster presented was delivering one meaningful message in accordance to COVID 19 situation. The program was inaugurated at the hands of Dr. P. V. Ingole, Head of Information Technology Department.

Prof. Ms. Pranjali Deshpande, Prof. Harshad Misalkar, were invited as a judge of event. All staff members along with students of 2nd, 3rd and final year II students attended the event online.

As per the evaluation of judges following students were declared as winner.

1. VASINAVI PATASKAR - 1st Winner
2. MAYURI WANKHEDE - 2nd Winner
3. PIYUSH RAMTEKE - 3rd Winner

The students were guided to prepare a digital poster on given theme using a resources and their own ideas by the event organizers Prof. U. V. Nikam, and Prof. A. W. Burange.

Student coordinators of the event were Chitwan Kashiwal (2nd Yr. II), Shubham Bijwe (3rd Yr. II), Vaishnavi Pataskar (2nd Yr. II) and many other students actively contributed for the event.



Welcome to the Guests, Digital Poster Presentation Competition



Department of Information Technology, IE(I) & IETE student chapter & of Prof. Ram Meghe Institute of Technology & Research Bahura organized an online event **Movie making Competition** on the occasion of engineers day. Idea behind this event was; student had to create a 5 minutes video clip may be by using online videos or their own shooting based upon a given theme.

The participation of students was wholehearted; they presented their short movie clips online through zoom software. Theme of the event was **"Effect of COVID-19 on Society"**. A best movie clips delivering a meaningful message related to the theme were selected as a winners. The program was inaugurated at the hands of Dr. P. V. Ingole, Head of Information Technology Department.

Prof. Ms. Pranjali Deshmukh, Prof. Harshal Misalkar, were invited as a judge of event. All staff members along with students of 2nd, 3rd and final year IT students attended the event online.

As per the evaluation of judges following students were declared as winner.

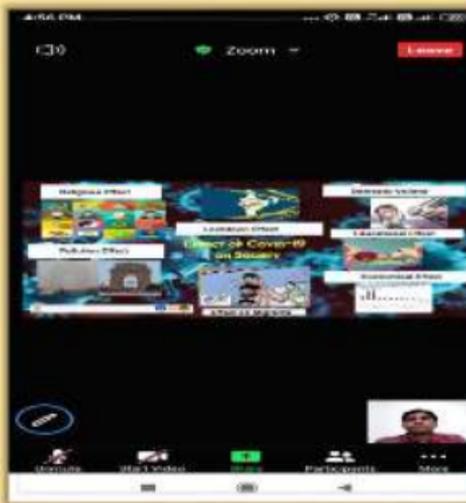
1. NILESH AWACHAT- 1st Winner
2. PRATHAMESH INGALE & group - 2nd Winner

Student coordinators of the event were Arjun Jaiswal (2nd Yr. IT), Mayuri Wankhed (2nd Yr. IT) and many other students actively contributed for the event.



Some Digital Poster Presentation in the Competition

"Movie Making Competition"
Theme: **"Effect of COVID-19 on Society"**



Some glimpses of Movie Presentation in the Movie Making Competition

Four Days online workshop on Basics of Python Programming

The Department of Information Technology, Prof. Ram Meghe Institute of Technology and Research, Badnera in collaboration with MindSpaCe , Training division of Citronics Info Tech Pvt. Ltd. has organized four day's Workshop on "Basics of Python Programming" for B.E. Second and Third year students. Mr. Shrikant Pande and his technical team conducted this online workshop on Google meet platform. They have conducted daily 5 hours in afternoon session. Total 60 students participated for the workshop. Workshop was inaugurated in the presence of Dr. P. V. Ingole, HOD Information Technology, Workshop Coordinator Dr. P. P. Deshmukh and Mr. Shrikant Pande, Director Citronics Pvt. Ltd. Many faculty members of IT department were virtually present for workshop.

Aim of conduction of this technical workshop was to train students in python programming. Following were the objectives of workshop:-

1. Gain a Solid & Unforgettable Understanding of the Python Programming Language
2. Use Object-Oriented Programming (An Industry-Standard Coding Technique) to Write High Quality Python Code.
3. Learn Python Basics to gain the confidence to build larger and more complex programs
4. Build a Receipt Program to gain the understanding of variables, data types and strings
5. Build a Calculator Program to gain the understanding of doing math with Python and conditional statements
6. Build a Hangman Game and address simple to complex looping (while, for) statements
7. Build an Object Oriented Program to construct new Cars and learn concepts such as Inheritance, Method Overriding and Overloading
8. Tackle challenges related to each python program that you build
9. Learn to use Functions, Lists, Tuples and Sets
10. Get an in-depth introduction to Git and Github for Version Control
11. Learn to professionally set up Visual Studio code for Python Development

Online workshop was meticulously planned by trainers. It was hands-on and interactive workshop for the students.

Training and Placement Awareness Program For Third Year students

Department of Information Technology and Department of Training and Placement, Prof. Ram Meghe Institute of Technology and Research Badnera conducted "Training and Placement awareness program" on 11 July 2020. Program was conducted online due to Covid pandemic situation on Webex platform. All R.E third year Students attended program virtually. Dr. Nikku Kholas , Dean T&P , Dr. Prangali Deshmukh , Training officer, Prof. Shrikant Deshmukh , Placement Officer conducted this awareness program. Dr. P. V. Ingole , HOD IT department, Prof. Sweet Thakar, Prof. Anup Bhatnagar, Placement Coordinators, Prof. Ankur Mahalle and Prof. Saleha Sanadigar, Training coordinators of IT Department were present for workshop. It was 3 hours' workshop in which program started with welcoming to HOD, IT, Dean T&P and all faculty members and students by Dr. Prangali Deshmukh and she explained all training phases to be conducted for third year students. She explained the importance of CRT training for placement point of view. Dr. Nikku Kholas elaborated on forthcoming placement opportunities for students and preparation needed to get placed in Eminent MNCs. He also told about last year placement ratio, companies visited in campus, AMCAT test and opportunities through it. Prof. Shrikant Deshmukh explained on data needed for placement purpose and also elaborated on how to fill data for companies.

It was totally interactive session and students raised many queries related CRT training and placement scenario. T & P team explained and resolved their queries and questions satisfactorily.



Students attending Online Training and Placement Awareness Program

Training and Placement Awareness Program For Second Year students

Department of Information Technology and Department of Training and Placement, Prof. Ram Meghe Institute of Technology and Research Badnera conducted "Training and Placement awareness program" on 15 July 2020. Program was conducted online due to Covid pandemic situation on Webex platform. All B.E. Second year Students attended program virtually. Dr. Nikku Khalsa, Dean T&P, Dr. Pranjali Deshmukh, Training officer, Prof. Shrikant Deshmukh, Placement Officer conducted this awareness program. Dr. P. V. Ingole, HOD IT department, Prof. Sonet Thakar, Prof. Anup Burange Placement Coordinators, Prof. Ankur Mohalle and Prof. Saleha Snelager, Training coordinators of IT Department were present for workshop. It was 5 hours' workshop in which program started with welcoming to HOD, IT, Dean T&P and all faculty members and students by Dr. Pranjali Deshmukh and she explained all training phases to be conducted right from second year. She explained all phases of CRI training from second year which covers Basic aptitude training, softskill training in second year, Basic technical training and advance aptitude training in third year and advance technical training, brush up trainings in final year. She explained the importance of CRI training for placement point of view. Dr. Nikku Khalsa elaborated on forthcoming placement opportunities for students and preparation needed to get placed in Luminent MNCs. He also told about last year placement ratio, companies visited in campus, AMCAT test and opportunities through it. Prof. Shrikant Deshmukh explained on data needed for placement purpose and also elaborated on how to fill data for companies.

It was totally interactive session and students raised many queries related CRI training and placement scenario. T & P team explained and resolved their queries and questions satisfactorily.

Two days online workshop on AI & Machine Learning Workshop by Cronix InfoTech Pvt. Ltd

The Department of Information Technology, Prof. Ram Meghe Institute of Technology and Research, Badnera in collaboration with Cronix Info Tech Pvt. Ltd. has organized two day's Workshop on 5th -6th September 2020 for B. E. Third and Final year students.

Mr. Shrikant Ponde and his technical team conducted this online workshop on Google meet platform. They have conducted daily 3 hours in afternoon session. Total 37 students participated for the workshop. Workshop was inaugurated in the presence of Dr. P. V. Ingole, HOD Information Technology, Workshop Coordinator Prof. Gaurav Wadnere, Dr. P. P. Deshmukh and Mr. Shrikant Ponde, Director Cronix Pvt. Ltd. Many faculty members of IT department were virtually present for workshop.

Aim of conduction of this technical workshop was to make students technologically sound in AI and Machine Learning. Today, the amount of data that is generated, by both humans and machines, far outpaces humans' ability to absorb, interpret, and make complex decisions based on that data. Artificial intelligence forms the basis for all computer learning and is the future of all complex decision making. As an example, most humans can figure out how to not lose at tic-tac-toe (noughts and crosses), even though there are 255,168 unique moves, of which 46,080 end in a draw. For fewer folks would be considered grand champions of checkers, with more than 500×10^{23} , or 500 quintillion, different potential moves. Computers are extremely efficient at calculating these combinations and permutations to arrive at the best decision. AI (and its logical evolution of machine learning) and deep learning is the foundational future of business decision making. Keeping this importance of AI and Machine learning in current requirement in industry and in day to day life workshop was planned and trainers covered basic and important part of course and also covered algorithms. Workshop was appreciated by students as well as faculty members.



**Students attending Online workshop on AI & Machine
Learning Workshop by Cronix InfoTech Pvt. Ltd**

One day online workshop on Machine Learning & Data Science with Python by Buse Electronics LLP

The Department of Information Technology, Prof. Ram Meghe Institute of Technology and Research, Bahura in collaboration with Buse Electronics LLP, Amravati has organized one day's Workshop on for B. E. Third and Final year students on 19th September 2020. Mr. Nikul Deshpande and his technical team conducted this online workshop on Zoom platform. Total 77 students participated for the workshop. Workshop was inaugurated in the presence of Dr. P. V. Ingole, HOD Information Technology, Workshop Coordinator Prof. Suresh Thakur, Dr. P. P. Deshpande and Mr. Nikul Deshpande, Director Buse Electronics LLP. Many faculty members of IT department were virtually present for workshop.

Trainer explained the importance of Machine Learning and Data science in Engineering industries. In the 21st Century, two terms "Data Science" and "Machine Learning" are some of the most searched terms in the technology world. From 1st-year Computer Science students to big Organizations like Netflix, Amazon, etc are running behind these two techniques. And they also got the reason. In the world of data space, the era of **Big Data** emerged when organizations are dealing with petabytes and exabytes of data. It became very tough for industries for the storage of data until 2010. Now when popular frameworks like **Hadoop** and others solved the problem of storage, the focus is on processing the data. And here Data Science and Machine Learning play a big role. Machine Learning is a field of study that gives computers the capability to learn without being explicitly programmed. Machine Learning is applied using Algorithms to process the data and get trained for delivering future predictions without human intervention. The inputs for Machine Learning are the set of instructions or data or observations. Machine Learning is used extensively by companies like Facebook, Google, etc. Keeping this importance of Data Science and Machine learning in current requirement in industry and in day to day life workshop was planned and trainers covered basic and important part of course and also covered algorithms. Workshop was appreciated by students as well as faculty members.

Workshop on conduction of online classes on Webex using Moodle

Department of Information Technology, Prof. Ram Meghe Institute of Technology & Research Bahura conducted workshop for faculty members on "Conduction of online Classes on Webex using Moodle platform" on 8 October 2020. Due to COVID pandemic situation it was not possible to conduct offline classes, Institute developed moodle platform for online classes conduction and for other communications with students. Prof. Niketa Kadam Departmental Moodle coordinator in presence of Dr. P. V. Ingole, HOD IT department and all faculty members conducted workshop to explain and train faculty members to conduct online classes, tests, quizzes, assignment of students using Webex through Institute Moodle platform. She also explained how to upload all notes, teaching materials for students, grade students in theory and practical, download and monitor the attendance of students. It was very informative session and user-friendly platform to conduct theory classes, practical session, tests, assignments and other required things.

All the faculty members and HOD appreciated efforts taken by technical team of college for developing such user friendly platform of and also Prof. Niketa Kadam for conducting very informative and interactive session.



Faculties attending workshop on Online conduction of classes using CISCO Webex using Moodle platform

Workshop on how conduct and evaluate online tests and practical on Moodle

Department of Information Technology, Prof. Rim Meghe Institute of Technology & Research Badnera conducted workshop for faculty members on "Conduction of online Classes on Webex using Moodle platform" on 27th December 2020. Due to COVID pandemic situation it was not possible to conduct offline classes & practicals, Institute developed Moodle platform for online classes conduction and for other communications with students. Prof. Niketa Kadom Departmental Moodle coordinator in presence of Dr. P. V. Ingole, HOD IT department and all faculty members conducted workshop to explain and train faculty members to conduct online classes, tests, quizzes, assignments of students using Webex through Institute Moodle platform. She also explained how to upload all notes, teaching materials for students, grade students in theory and practical, download and monitor the attendance of students. She explained how to conduct mainly practical on Moodle platform. All possible software required to conduct technical practical are embedded in Moodle platform so that faculty can conduct and explain practical to students and student will also virtually perform the practical on given platform and execute it. It was very informative session and user-friendly platform to conduct theory classes, practical session, tests, assignments and other required things.

All the faculty members and HOD appreciated efforts taken by technical team of college for developing such user friendly platform of and also Prof. Niketa Kadom for conducting very informative and interactive session.

Research Publication

1. Dr. P. V. Ingole, "Defusing Hexagonal Structures with Machine Learning for an Improved De-noising System" published in *International Journal of Advanced Research in Engineering and Technology* of 11, Issue 12, December 2020

2. Dr. P. V. Ingole "Review of Fault Diagnosis System using Soft Computing Approach" published in *International Conference on Data Analytics and Management - An Indo-European Conference (ICDAM-2020)* published in Elsevier SSRN, 2020

3. Dr. P. V. Ingole "Implementation of Artificial Neural Network for the Fault Forecasting of Basic Gates" published in *1st World Congress on Optimization and Automation Techniques in Engineering and Management (WCOATM-20)*, October 2020

4. Dr. P. V. Ingole, "Enhancing Performance of Image Denoising via Adaptive Hexagonal Structures" published in *International Journal of Imaging and Robotics* Vol 20, Issue 1, 2020

5. Prof. Sanjay V. Dhapre, "Secured image sharing and Privacy Preserving in Social Network" published in *International Journal of Innovative Research In Computer and Communication Engineering (IJIRCCCE)* Impact factor 7.488, May 2021

6. Dr. A. S. Ahi, "Detection and Prevention of Malicious activities in Vulnerable Network Security using Deep Learning" published in *International Conference on Recent Trends in Machine Learning, IoT, Smart Cities & Applications*, March 2021

7. Dr. A. S. Ahi, "A Survey of Crop Nutrients Deficiency Detection using Machine Learning" published in *International Journal of Advance Engineering and Research Development* Volume 7, Issue 08, August 20

8. Dr. A. S. Ahi, "A Survey of Crop Nutrients Deficiency Detection using Machine Learning" published in *International Research Journal of Engineering and Technology (IRJET)*, August 2020

9. Prof. Mahesh L. Deshmukh, "Detection and Prevention of Malicious Activities in Vulnerable Network Security Using Deep Learning" published in *International Conference ICMISC 2021* organized by CMR Institute of Technology, Hyderabad, March 2021

10. Dr. Pranjali Deshmukh, "Virtual Memory Management using Memory Ballooning in OpenStack Cloud platform" published in *The Eleventh International Conference on Computing, Communication and Networking Technologies* held at IIT Kharagpur India in association with IEEE Kharagpur Section, July 2020

11. Prof. Prerit V. Dhalu, "Development of machine learning models for suspicious data to mobile forensic" published in *ADALTA JOURNAL An UGC-CARE and Web of Science Journal* ISSN NO: 1501-2746, June 2021

12. Prof. Niketa V. Kadom, "Comparative Approach to study the effect of sound frequency on plant growth with DSP" published in *3rd Annual International Conference on Innovative Engineering-Intelligent System Integration (ICEI 2021)*, July 2021

13. Prof. R. M. Hishangbade, "ADAPTIVE COMPUTER STRATEGIES IN GAME PLAYING USING ARTIFICIAL INTELLIGENCE" published in *International Engineering Journal For Research & Development (IJERD)*, July 2020



AICTE New Delhi Sponsored

One Week Short Term Training Programme

On

"Advances in Green Energy For Sustainable Development (AGE 1)"

from

10th to 16th August 2020

Organized By



Department of Mechanical Engineering

NAAC 'A' Grade

Vidarbha Youth Welfare Society's

Prof. Ram Meghe Institute of Technology & Research, Badnera
Anjangaon Bari Road, Badnera (C. Rly),
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(HOD, PRMIT&R, Badnera)

Co-Convenor

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About Institute

The Vidarbha Youth Welfare Society's Prof. Ram Meghe Institute of Technology & Research, Badnera-Amravati is a leading technological institute from central India. Established in the year 1983, the institute has a prestigious standing amongst the topmost Technical Institutes of Maharashtra. The Institute is approved by AICTE, New Delhi. Accredited by NAAC with Grade 'A' & some of its UG programmes are Accredited thrice by National Board of Accreditation (NBA), New Delhi. In the year 2020, Institute is included in NIRF rank band of 251-300. The Institute is affiliated to Sant Gadge Baba Amravati University, Amravati offering UG, PG and Ph.D. courses in Mechanical Engg, Computer Science and Engg, Information Technology, Electronics and Telecommunication Engg and Civil Engg along with PG courses like MBA and MCA.

The team of the highly qualified and experienced academicians strives to achieve this credo under the proficient guidance of the Principal of the Institution. The team has an indomitable spirit to nurture and educate potential professionals and bring laurels to the institute.

About Department

Mechanical Engineering Department was established in 1986. Department offers UG course in Mechanical Engineering and PG courses in CAD/CAM and Thermal Engineering. A team of 48 highly qualified and experienced faculty members with 18 doctorates is the main backbone of the department. The department has well equipped laboratories and the state of art Rapid Prototyping setup. The CAD/CAM centre is equipped with recent design and analysis software, CNC trainers and Robots.

About the Program

Green Energy is also commonly known as renewable energy. Green energy has far greater impact on environment than other types, which produces pollutants, like greenhouse gases as by-products, conducive to temperature change. Green energy, however, utilizes energy sources that are readily available everywhere in the world. Advances in renewable energy technologies have lowered the cost of solar panels, wind turbines and other sources of green energy, placing the power to supply electricity with in the hands of people instead of those produced by oil gas and coal. Green Energy also finds its applications in the disciplines like electrical, electronics and civil Engineering etc. in the field of energy storage and green buildings.

This STTP shall offer unique opportunity to the faculty dealing with the subject like Non-Conventional Energy sources to get acquainted with such technological advances. This program is designed with the aim of bridging the gap between research labs of repute and the academic institutes.

Eligibility and Registration Charges

Faculty members from Mechanical engineering departments of AICTE approved engineering colleges are eligible to apply. There is no course fee.

Registration:

The scanned copy of registration form completed in all respect should be mail to the coordinator at the earliest.

E-mail: agesttp2020@mitra.ac.in

You are also requested to get registered by submitting the google form provided in the link:

Link : <https://forms.gle/vNxtYXkgSVRoQG5t8>

The selection shall be on first come first serve basis. First 40 Participants will be selected. On successful completion of STTP, participants will get an e-Certificate.

Important Dates:

Activity	Date
Last Date of Application	08 August 2020
Duration	10-16 August 2020
Time	10.30 AM Onwards on Scheduled Days

Address for Correspondence:

Course Coordinator AGE
Department of Mechanical Engineering
Prof. Ram Meghe Institute of Technology & Research, Badnera-Amravati, 444701 (MS)

Important Note :

For issuing Certificates of AICTE sponsored One Week STTP to the participants, minimum 90% attendance is mandatory.

Department of Mechanical Engineering
Prof. Ram Meghe Institute of
Technology & Research, Badnera-Amravati

AICTE Sponsored STTP

On

**"Advances in Green Energy For
Sustainable Development (AGE 1)"**

from

10th to 16th August 2020

Registration Form

Name _____

Name of the Institute /address _____

Highest Qualification:

Specialization: _____

Designation: _____

Subjects teaching _____

Years of experience _____

Cell Phone _____

E-mail: _____

Signature of Participant _____

The application is hereby recommended & will be permitted to attend the above STTP for the notified duration, if selected.

Signature of Head of the Institution _____

(Stamp/Seal of the Institution)

Advances in Green Energy for Sustainable Development (Age 1)
Department of Mechanical Engineering
List of Participants

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Head
Department of Mechanical Engineering
Dept. of Mechanical Engineering
P.R.M.I.T & R. Badnera



Vidarbha Youth Welfare Society's



Prof. Ram Meghe Institute of

Technology & Research, Badnera- Amravati

Certificate

This is to certify that

Prof. Ashish V. kadu

has participated in AICTE (New Delhi) Sponsored One Week
Short Term Training Program

on

**“ADVANCES IN GREEN ENERGY FOR SUSTAINABLE
DEVELOPMENT(AGE-1)”**

during August 10th to August 16th, 2020.

Organized by

Department of Mechanical Engineering

Prof. Ram Meghe Institute of Technology & Research, Badnera

Dr. S. B. Thakre
Co-convener

Dr. D. S. Ingole
Convener

Dr. A. P. Bodkhe
Chairperson



AICTE New Delhi Sponsors

One Week Short Term Training Programme

On

"Advances in Green Energy For Sustainable Development (AGE 2)"

from

21st to 26th December 2020

Organized By



Department of Mechanical Engineering

NAAC 'A' Grade

Vidarbha Youth Welfare Society's

Prof. Ram Meghe Institute of Technology & Research, Badnera
Anjangaon Bari Road, Badnera (C. Rly),
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Patrons

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Adv. Uday S. Deshmukh

Vice President, VYWS, Amravati.

Dr. Hemant M. Deshmukh

Treasurer, VYWS, Amravati

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Secretary, VYWS, Amravati

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Executive Member, VYWS, Amravati

Shri. Nitin B. Hiwase

Executive Member, VYWS, Amravati

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Prof. A. S. Paril

& all Faculty Members of Mechanical Engineering

Department

Dr. N. A. Wankhade

(9021211800)

(7030708211)

(8668439948)

(9561628729)

(9960892818)

(9922291097)

About Institute

The Vidarbha Youth Welfare Society's Prof. Ram Meghe Institute of Technology & Research, Badnera-Amravati is a leading technological institute from central India. Established in the year 1983, the institute has a prestigious standing amongst the topmost Technical Institutes of Maharashtra. The Institute is approved by AICTE, New Delhi. Accredited by NAAC with Grade 'A' & some of its UG programmes are Accredited thrice by National Board of Accreditation (NBA), New Delhi. In the year 2020, Institute is included in NIRF rank band of 251-300. The Institute is affiliated to Sant Gadge Baba Amravati University, Amravati offering UG, PG and Ph.D. courses in Mechanical Engg, Computer Science and Engg, Information Technology, Electronics and Telecommunication Engg and Civil Engg along with PG courses like MBA and MCA.

The team of the highly qualified and experienced academicians strives to achieve this credo under the proficient guidance of the Principal of the Institution. The team has an indomitable spirit to nurture and educate potential professionals and bring laurels to the institute.

About Department

Mechanical Engineering Department was established in 1986. Department offers UG course in Mechanical Engineering and PG courses in CAD/CAM and Thermal Engineering. A team of 48 highly qualified and experienced faculty members with 18 doctorates is the main backbone of the department. The department has well equipped laboratories and the state of art Rapid Prototyping setup. The CAD/CAM centre is equipped with recent design and analysis software, CNC trainers and Robots.

About the Program

Green Energy is also commonly known as renewable energy. Green energy has far greater impact on environment than other types, which produces pollutants, like greenhouse gases as by-products, conducive to temperature change. Green energy, however, utilizes energy sources that are readily available everywhere in the world. Advances in renewable energy technologies have lowered the cost of solar panels, wind turbines and other sources of green energy, placing the power to supply electricity with in the hands of people instead of those produced by oil gas and coal. Green Energy also finds its applications in the disciplines like electrical, electronics and civil Engineering etc. in the field of energy storage and green buildings.

This STTP shall offer unique opportunity to the faculty dealing with the subject like Non-Conventional Energy sources to get acquainted with such technological advances. This program is designed with the aim of bridging the gap between research labs of repute and the academic institutes.

Eligibility and Registration Charges

Faculty members from Mechanical engineering departments of AICTE approved engineering colleges are eligible to apply. There is no course fee.

Registration:

The scanned copy of registration form completed in all respect should be mail to the coordinator at the earliest.

E-mail: agesttp2020@mitra.ac.in

You are also requested to get registered by submitting the google form provided in the link:

Link : <https://forms.gle/vNxtVXkgSVRoQGv98>

The selection shall be on first come first serve basis. First 40 Participants will be selected. On successfully completion of STTP, participants will get an e-Certificate.

Important Dates:

Activity	Date
Last Date of Application	19 December 2020
Duration	21-26 December 2020
Time	10.30 AM Onwards on Scheduled Days

Address for Correspondence

Course Coordinator AGE
Department of Mechanical Engineering
Prof. Ram Meghe Institute of Technology & Research, Badnera-Amravati, 444701 (MS)

Important Note :

For issuing Certificates of AICTE sponsored One Week STTP to the participants, minimum 90% attendance is mandatory.

Department of Mechanical Engineering
Prof. Ram Meghe Institute of
Technology & Research, Badnera-Amravati

AICTE Sponsored STTP

On

**"Advances in Green Energy For
Sustainable Development (AGE 2)"**

from

21st to 26th December 2020

Registration Form

Name _____

Name of the Institute /address _____

Highest Qualification:

Specialization: _____

Designation: _____

Subjects teaching _____

Years of experience _____

Cell Phone _____

E-mail: _____

Signature of Participant _____

The application is hereby recommended & will be permitted to attend the above STTP for the notified duration, if selected.

Signature of Head of the Institution _____

(Stamp/Seal of the Institution)

Advances in Green Energy for Sustainable Development (Age 2)
Department of Mechanical Engineering
List of Participants

Sr No	Full Name of Participant	Email address	Mobile No	Institute Name	Branch & Specialization
1	Swapnil Anil Pande	swapnilpande1983@gmail.com	9403408545	DRGITR	Mechanical engg.
2	Mr. Rahul Walmik Patil	rahulp216@gmail.com	9975408590	Government Polytechnic	Science
3	Piyush Ashokrao Dalke	padpvpit@gmail.com	9975889972	JSPM'S/ TSSM'S Padmabhooshan Vasantdada Patil Institute technology Pune	Mechanical Engineering
4	Bhor Amol Sunil	amolbhor01@gmail.com	9970279294	Samarth College Of Engineering Belhe	Civil Engineering,ME Civil
5	Prof. K. K. Padghan	kishpdgn_123@rediffmail.com	8805488291	DRGITR, Amravati	Mechanical (CAD/CAM)
6	Prof. Sumit Subhash Kalmegh	sumitkalmegh20@gmail.com	9860454091	Sipna College of Engineering & Technology, Amravati (M.H.)	Mechanical Engineering (M.Tech-Thermal Engineering)
7	Vivek Tonge	vivek25889@gmail.com	8668439948	PRMIT&R, Badnera	Mechanical, Thermal & Fluids
8	Prof. Ms. Pragati R. Mamankar	pragatimamankar@gmail.com	7030708244	Prof. Ram Meghe Institute Of Technology & Research Badnera, Amravati	Mechanical Engineering, Thermal engineering
9	PRATEEK DEOMAN MALWE	prateek0519@gmail.com	9404582917	Walchand College of Engineering Sangli Maharashtra	Mechanical Engineering Heat Power Engineering
10	Priya C	priya.c@eec.srmmp.edu.in	7871708834	Easwari Engineering College	Electrical and Electronics Engineering
11	Prof. Avinash V. Gaikwad	agaikwad12@gmail.com	9422865214	Jawaharlal Darda Institute of Engineering and Technology Yavatmal	Mechanical
12	Nitin Machindra Morkane	morkanenitin7@gmail.com	9421953961	N B Navale Sinhgad College of Engineering	Mechanical Engineering & Machine Design
13	Monali Prabhakar Umbrekar	umbrekarmonali@gmail.com	7020420536	SIPNA COET, AMRAVATI	EXTC
14	Patole Dipali Prakash	dipali.p30797@gmail.com	9970279294	Samarth College Of Engineering Belhe	Civil Engineering
15	Prof. Kishor Ramesh Sontakke	krsonatkke@gmail.com	9822938547	Pankaj Laddhad Institute of Tech. & Management Studies, Buldana	Mechanical Engineering
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21	Ankush Sanjay Patil	ankpatil111@gmail.com	9922291097	PRMIT&R Badnera-Amravati.	Mechanical(Thermal Engg)
22	Dr. Dhananjay R Dolas	dhananjaydolas@j nec.ac.in	9422655271	MGM JNEC Aurangabad	Mechanical engineering
23	oudayakumar. K	udaya742004@gmail.com	9843259136	Sri Manakula Vinayagar Engineering College	Mechanical Engineering (Materials Engineering) & Nano Ferrites
24	Dr. G. L. Sathyamoorthy	sathyamoorthy.gl.ce@kct.ac.in	9629319936	Kumaraguru College of Technology Coimbatore	Civil and Environmental Engineering
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30	Mr. Abhijeet Jaiswal	abhijeet.jaiswal@anandice.ac.in	7905347497	Anand International college of engineering Jaipur	Mechanical engineering
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87	Dr.Pradeep M.ingole	pmi.ingole@gmail.com	9423424767	P.R.M.I.T.&R Badnera	Production
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89	Vijay Vinayakrao Kale	vkale20071@gmail.com	9422190476	Prof.Ram Meghe Institute of Technology and Research Badnera-Amravati	Mechanical, Production
90	Shrikant V Bhunte	shrikant_bhunte@rediffmail.com	99756 32111	Dr. Sau. Kamaltai Gawai Institute of Engineering &Technology,	Mechanical Engineering



Head

Department of Mechanical Engineering
 Dept. of Mechanical Engineering
 P.R.M.I.T & R. Badnera



Vidarbha Youth Welfare Society's

Prof. Ram Meghe Institute of

Technology & Research, Badnera- Amravati



Certificate

This is to certify that

Prof. Ajay Prabhakarrao Pardey

has participated in AICTE (New Delhi) Sponsored One Week
Short Term Training Program

on

**“ADVANCES IN GREEN ENERGY FOR SUSTAINABLE
DEVELOPMENT(AGE-2)”**

during December 21st to December 26th, 2020.

Organized by

Department of Mechanical Engineering

Prof. Ram Meghe Institute of Technology & Research, Badnera

Handwritten signature of Dr. S. B. Thakre.

Dr. S. B. Thakre
Co-convener

Handwritten signature of Dr. D. S. Ingole.

Dr. D. S. Ingole
Convener

Handwritten signature of Dr. A. P. Bodkhe.

Dr. A. P. Bodkhe
Chairperson

Step to use Mitra-edu.tech Portal for Virtual Classroom with CISCO WebEx Application

1. Open the Mitra-edu.tech Portal from the site <https://mitra-edu.tech>

2. Click on the Particular Departments as Follows:

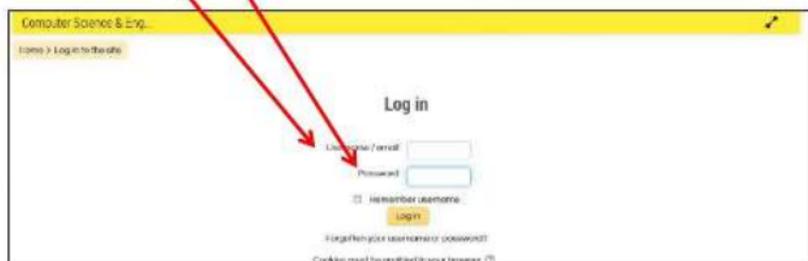
3. For Demonstration Computer Science Department is selected by clicking on it.

4. The Particular Moodle Site for the Department is opened.

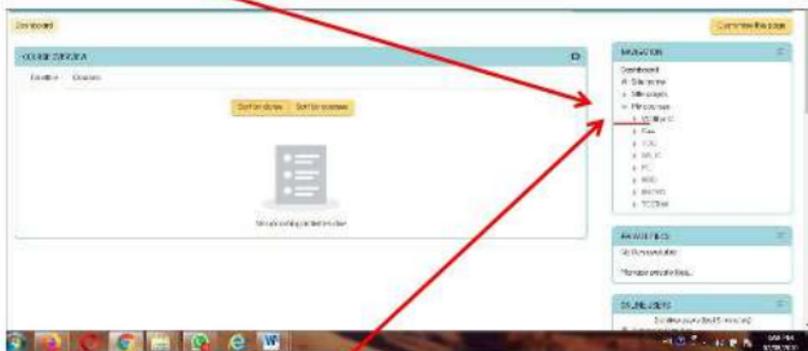
5. Click on the Login in Button on the Right Corner.



6. Enter the Moodle User id and Password.



7. Click on MY COURSES that Appear in the Navigation Bar



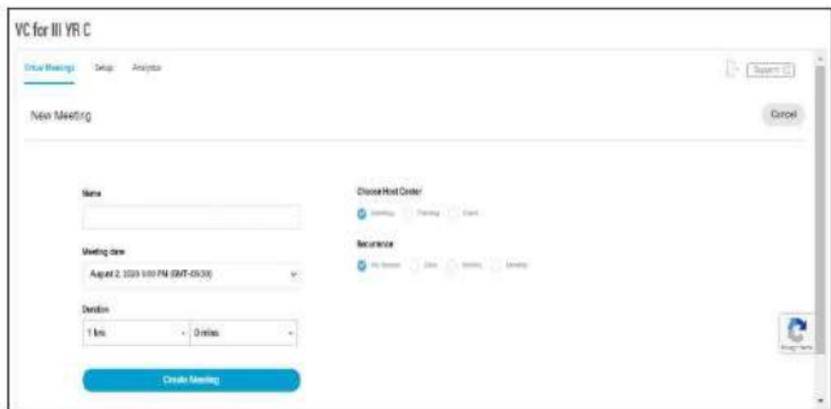
8. IN the MY Courses Tab you will find the Courses in which you are enrolled for the Academic Session Click on the Course to Access. (Here in the Example you can find Prof. Sangram is enrolled in courses C++ for Teaching)

9. Click on the VC IIIYR C Course to Access it as VC:- Virtual Class for III yr section C same will be there for all the classes.

14. Click on the New Meeting Tab in order to Schedule the Lecture



15. The Meeting (Lecture) Details need to be mentioned as per the Time Table in the Particular Tab.



The Subject Faculty has the provision of scheduling the online lecture week wise on the portal. They need to schedule it for a one week and automatically it will be schedule for the next week and so on until you mention the total number of lecture or till the last day of the teaching schedule.

You can put the complete Lesson Plan of the Semester and Week Wise lecture will be open for student so the faculty doesn't need to schedule the lecture again and again.

The procedure for scheduling the lecture automatically for all the week is as follows:

1. **Name:** Mention the Name of the subject.
2. **Meeting Date:** Mention the Date of the Lecture along with the time.
(For Example: In the Time Table Prof Sangram Lecture is on 8.00 am on every Monday so he will set the date and time of first lecture and click on **Recurrence** in that select the **weekly** option and mention the day on which he want to repeat, select the **Day of Occurrence** and the **Ending date** of the course or **total lecture** that you need to take in the semester.)

****The above procedure needs to be done only for once.**

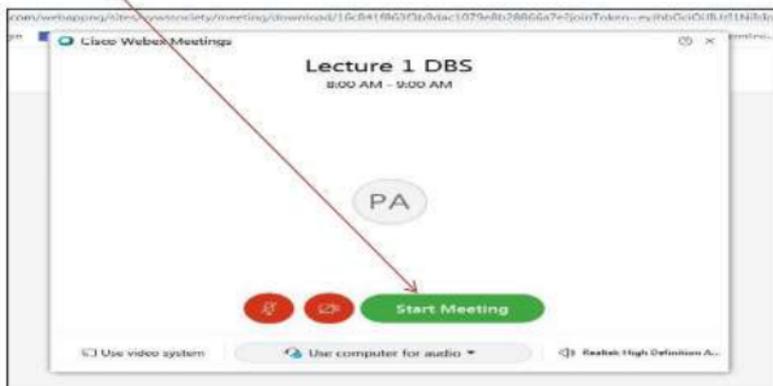
3. Click on the Create Meeting and the Lecture will be Schedule for the Student.

16. The Meeting will be displayed with the instructor name, date and timing. The Subject Faculty should click on the **Host** to start the Meeting.

Name	Host	Host Type	Duration	Date	Action
Lecture 1 205	Sangram Dandige	Instructor	1 Hour 0 min	Aug 01, 2020 08:00 am	Host Edit Delete

The student cannot enter the meeting until the subject faculties don't start the meeting. After the completion the faculty should end the meeting.

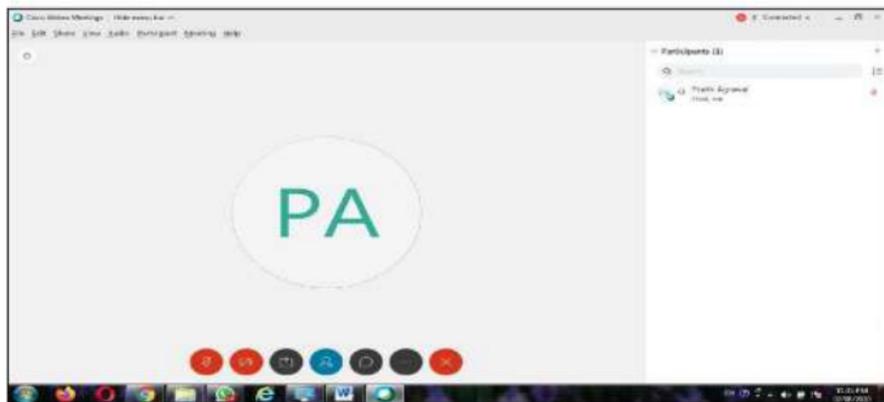
17. Click on "Start Meeting" and the Lecture is Started.



*** Install the CISCO WEBEX Desktop Application on Laptop for accessing and controlling it in an easy and effective manner.

The Link for downloading the WebEx software is: <https://www.webex.com/downloads.html>

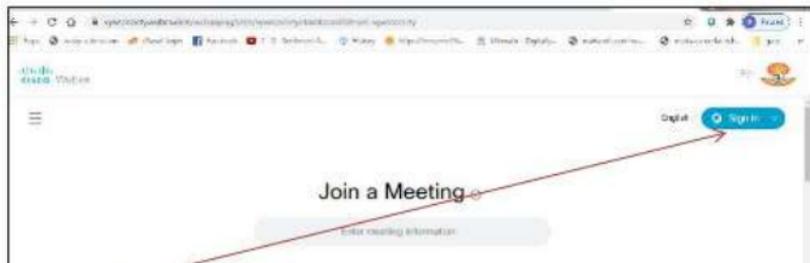
18. The Screen Shot of the WebEx Meeting Panel.



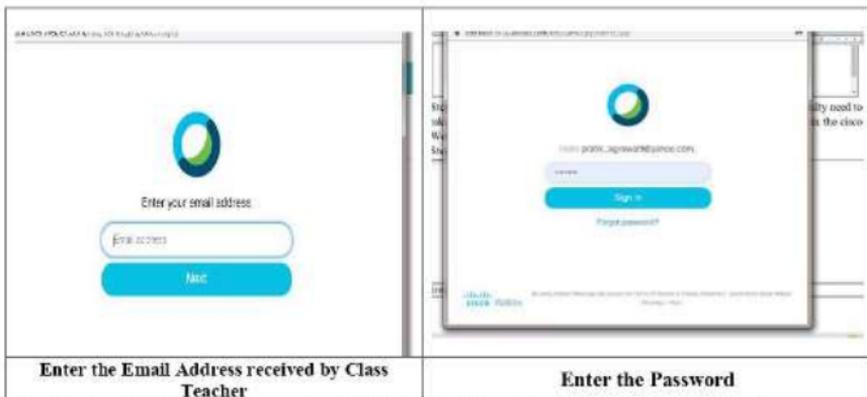
*** All the Meeting (Lecture conducted) in the WebEx is recorded automatically on the WebEx platform.

Access the Conducted Meeting Recording and Attendance Record from the WebEx Portal.

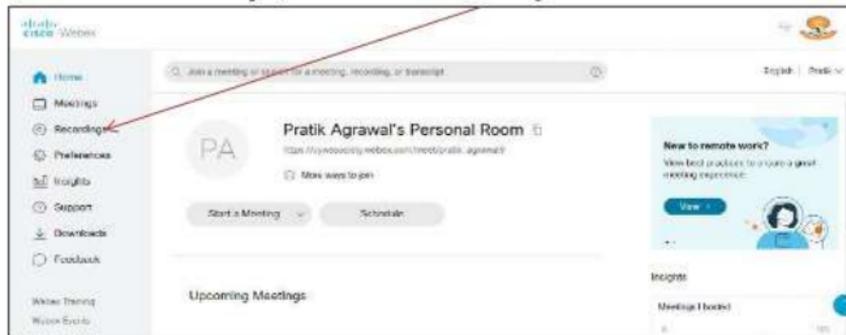
- 1: Open the Website <https://vywssociety.webex.com>



2. Click on **Sign in** Options
 3. Enter the CISCO WEBEX ID & Password.



4. The Panel Window will open, In that Click on the Recording Button in the Left Panel



5. The Recording can be downloaded and shared with the following available tab.

The screenshot shows the Zoom Meetings interface with a table of recordings. Red arrows point from the text above to the 'Download' and 'Share' icons in the 'Format' column of the table.

Name	Subject	Date	Duration	Size	Format
Lecture 1 DBS	Learning				
Lecture 2 - 20200302 1055-1		03/02/20 04:21 PM	0:47:09	52.1 MB	MP4
Lecture 1 REC-20200827 1057-1		08/26/20 04:41 PM	0:30:40	6.3 MB	MP4
Lecture 2 - 20200302 1050-1		03/02/20 04:20 PM	0:03:40	4.3 MB	MP4
Pratik Agrawal's meeting-20200801 0846-1		08/01/20 03:04 PM	1:21:53	71.4 MB	MP4
Pratik Agrawal's Personal Room-20200720 1010-1		07/20/20 03:45 PM	0:58:34	190.1 KB	MP4

6. For Attendance Record Click on the User Name on the Right Panel.

The screenshot shows the Zoom Personal Room for Pratik Agrawal. A red arrow points from the text above to the user's name 'Pratik' in the top right corner of the interface.

7. Click on My Reports Section.

The screenshot shows the Zoom Personal Room for Pratik Agrawal. A red arrow points from the text above to the 'My reports' option in the user profile menu on the right side of the interface.

8. In that Click on Usage Report

My Webex Reports

All Services

- Usage Report
View usage information for your meetings.

Webex Meetings

- Meeting Recording Report
View a list of attendees who have downloaded or viewed a meeting recording.

9. Set the date and all the meeting within the date is visible.

Usage Summary Report

Search Results for 12/2020 to 12/2020 (Total Time: 04:07:00, 02/14/2021)

Search Limit

Refresh Usage Summary Report

Caution: This is a preliminary report. It provides attendance counts to present participants for that report's date range. When the final report is available, session name appears only in the final report and in the preliminary report.

Print-friendly Format | Export Report

Topic	Meeting Type	Date	Joined	Registered	Attended
Webex 1.000	PRC	12/20	0	N/A	0

Final Usage Summary Report

Set results by clicking on the column headers.

Print-friendly Format | Export Report

Topic	Meeting Type	Date	Start Time	Duration	Joined	Registered	Attended	Total
Webex 1.000	PRC	12/20	4:27 am	11 mins	0	N/A	0	0
Webex 2	PRC	12/20	4:27 am	45 mins	0	N/A	0	0
Webex 2	PRC	12/20	4:28 am	7 mins	0	N/A	0	0
Webex 1.000	PRC	12/20	2:20 am	20 mins	0	N/A	20	20
Webex 1.000	PRC	12/20	2:40 am	7 mins	0	N/A	0	0
Webex 1.000	PRC	12/20	2:40 am	20 mins	0	N/A	0	0

10. Click on the Meeting in the Topic and you will get the detailed report of the meeting. By Clicking on Export Report it will be downloaded in the Excel Format.

Session Detail Report

Search Results for Webex 1.000's meeting

45 participants in this session (Duration: 04:07:00)

Page: 1 / 2

Print-friendly Format | Export Report

Participant 1

Name: jacobkhoray | Email: jacobkhoray@gmail.com

Contact: No | Registered: N/A

Phone: 810170 | Start Time: 12/20/20

Address: 1100 jkt | Duration: 12 mins

Country: USA | Title: N/A

Phone Number: | Address 1: |

Address 2: | City: |

State/Province: | Country/Region: |

Postal Code: | Network Address Range: | External: |

Participant 2

Name: Radha | Email: radhak@rediffmail.com

Contact: No | Registered: N/A

Phone: 871000 | Start Time: 12/20/20

Address: 5/28 jkt | Duration: 20 mins

Country: USA | Title: N/A

Phone Number: | Address 1: |

Address 2: | City: |

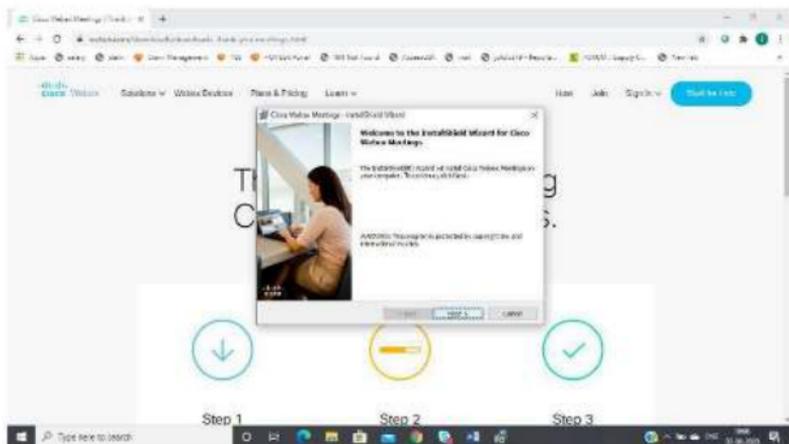
State/Province: | Country/Region: |

Postal Code: | Network Address Range: | External: |

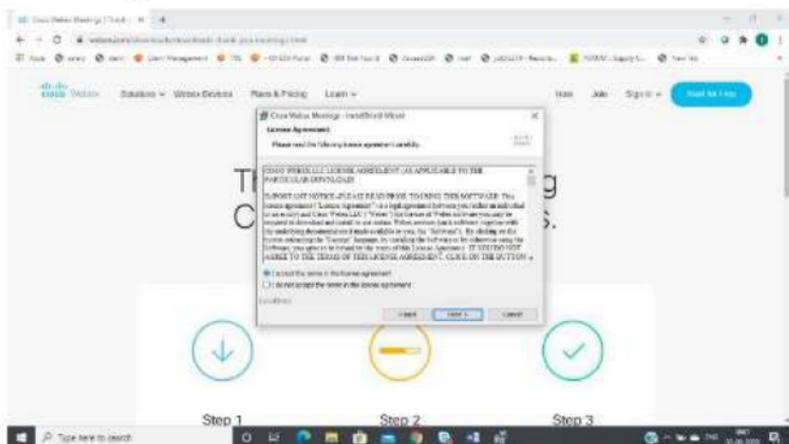
In this Way, You can Access the recording and Attendance for the Particular Meeting.

Debian 8

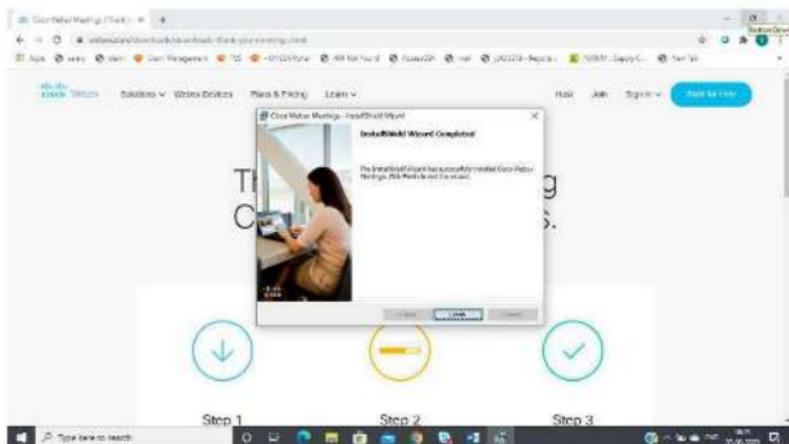
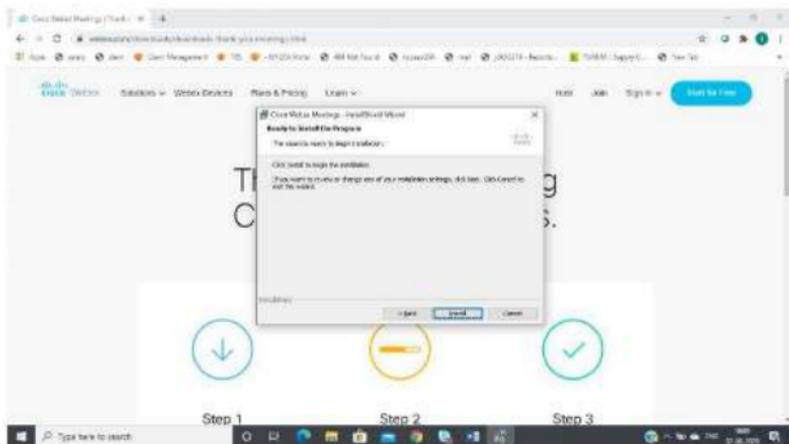
- Once you download the WebEx Application for your system. Start the installation procedure by clicking on **Next Button**



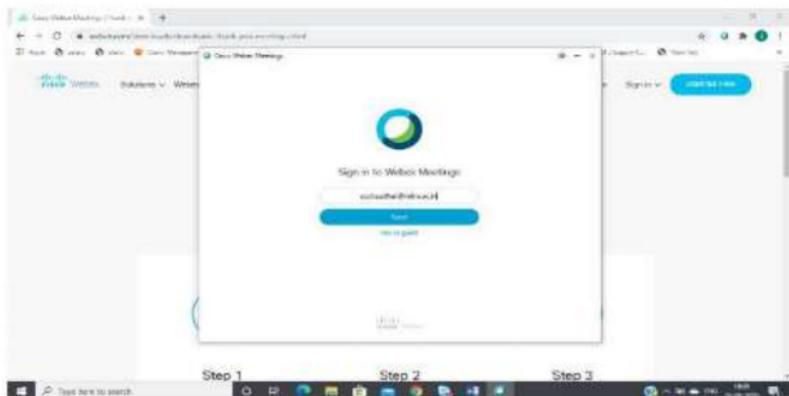
Read and Accept the terms and Condition



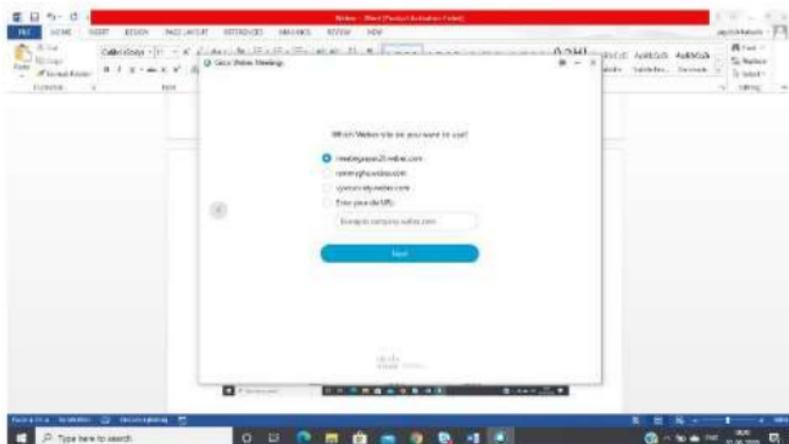
Click on **Next Button** to complete installation procedure, It will take several minutes



4. After the Completion of installation procedure, the Front Page of Cisco Webex Application will appear on your desktop.
Please provide your **Email Id** on which you have activated the account.

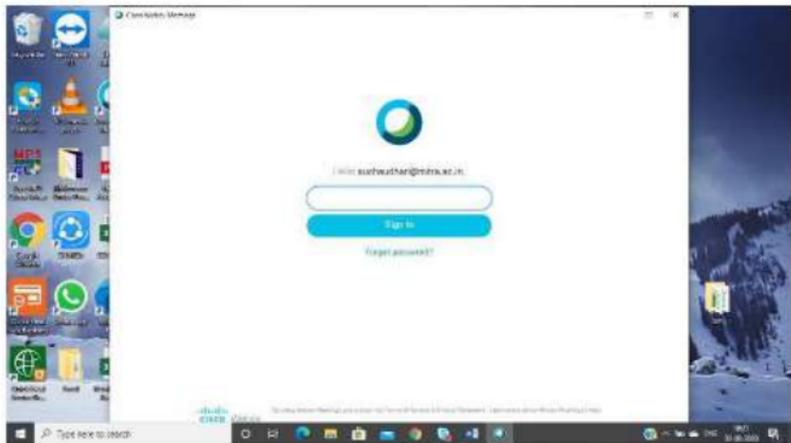


After providing the email id click on **Next button**, application will ask you for the website associated with your email id. In a given image all the website which are associated with the provided email id are listed below. If you don't get any website in the list then please write down the website which is generated for you at the time of activation of account



After providing the website, which is associated with the user, it will lead you to password window. If you are not associated with any website then please contact with your administration.

Please provide a correct password.



After getting the correct password from the user Application will lead the user to the front page of the application in which you will get few Options

- 1) Start a meeting
- 2) Schedule
- 3) Join a Meeting
- 4) Upcoming Meetings



Start a meeting

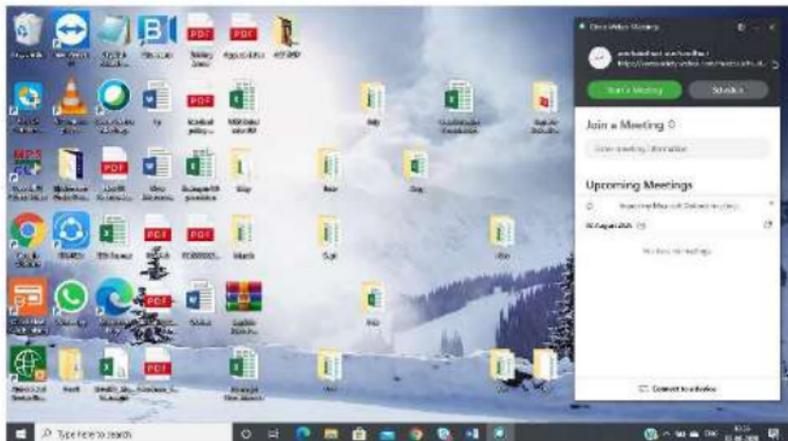
Schedule

Join a Meeting

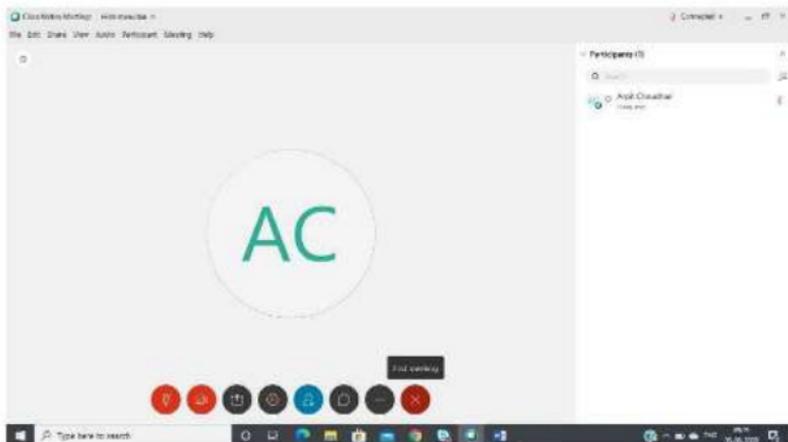
Upcoming Meetings

4.1 Start a meeting

By clicking on Start a Meeting, user can directly start a meeting.



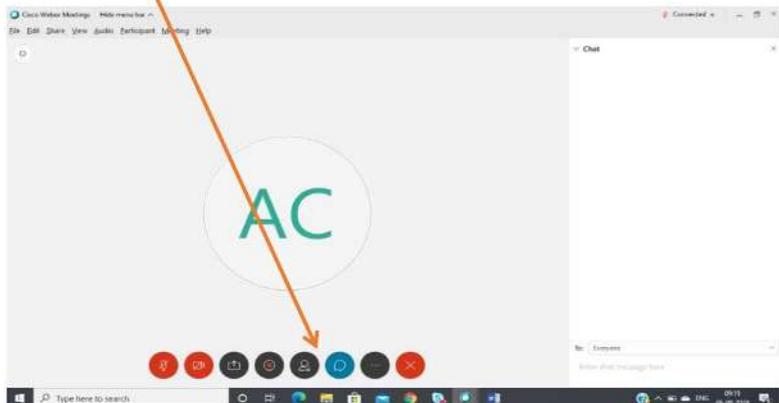
Front Page of the Meeting, It contains only a user who have initiated the meeting. Once the meeting gets started the user can add the participants.



Let's discover more functionalities of Meeting

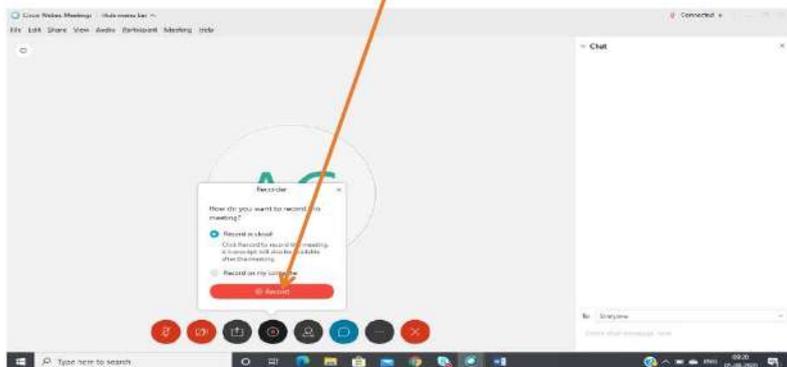
4.1.1 Chat with Everyone

By clicking on chat with everyone user can send the message to everyone in a meeting



4.1.2 Meeting Recorder

All Meetings will be recorded automatically and records will be stored on cloud. You can allow access to recorded meeting with staff and students by sharing cloud link on Moodle platform for respective courses.



4.1.3 Share Content:

With the help of share content button user can share their contents. Contents can be categorized in various types like word, power point presentation (PPT), pdf, etc.

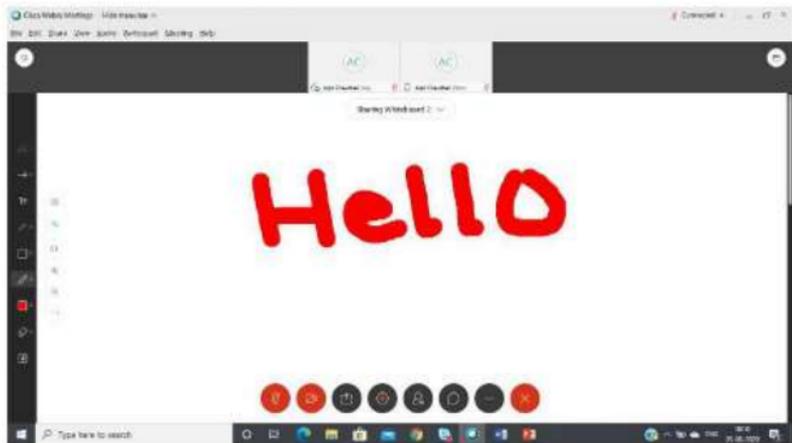


These are some examples

Example: In this example power point presentation is shared in a meeting and using annotation tool the presenter can annotate for the appropriate visuals.

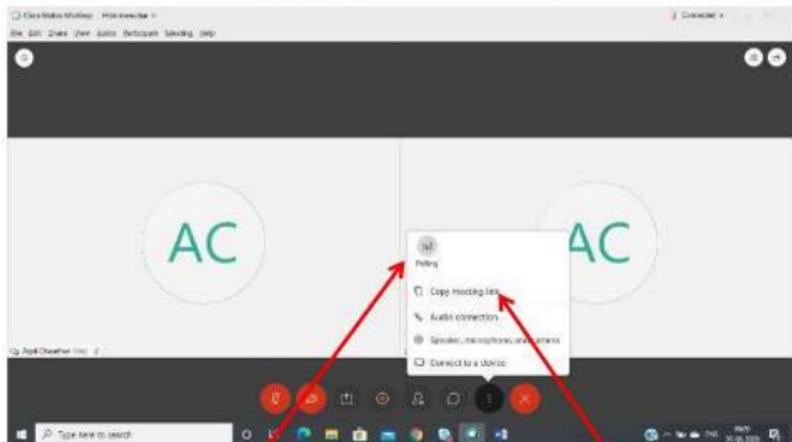


Example 2: With the help of Whiteboard the presenter/ Host can use it like real life whiteboard.



4.1.4 Polling

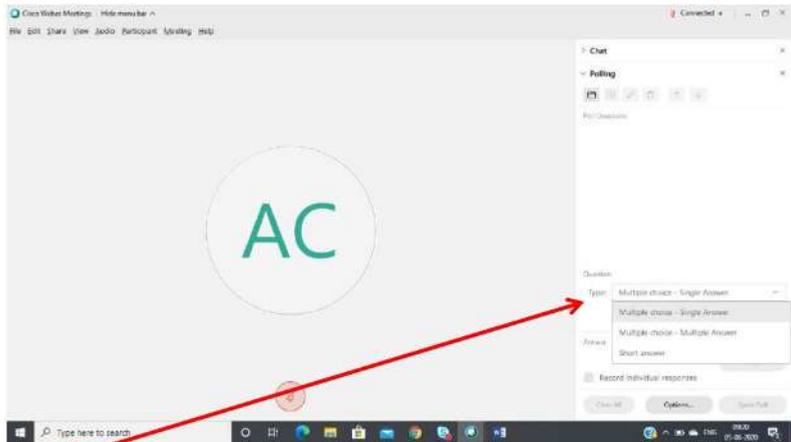
User can create a Polling for the current meeting. This feature is available on desktop application and **creation of polling is associated with only Host**



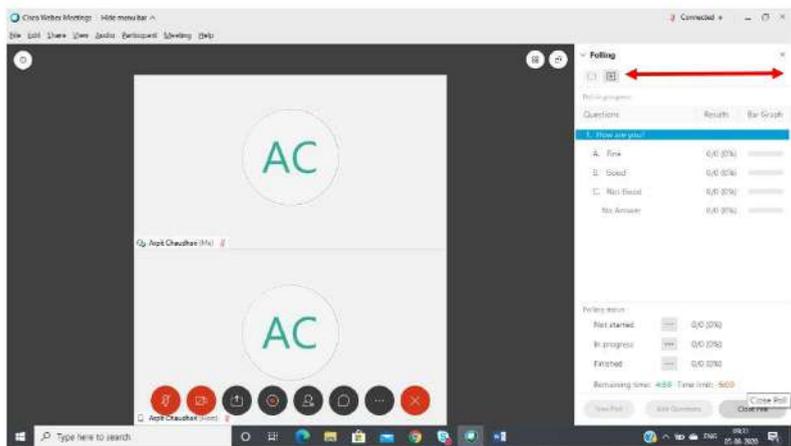
Polling

User Can share the meeting Link

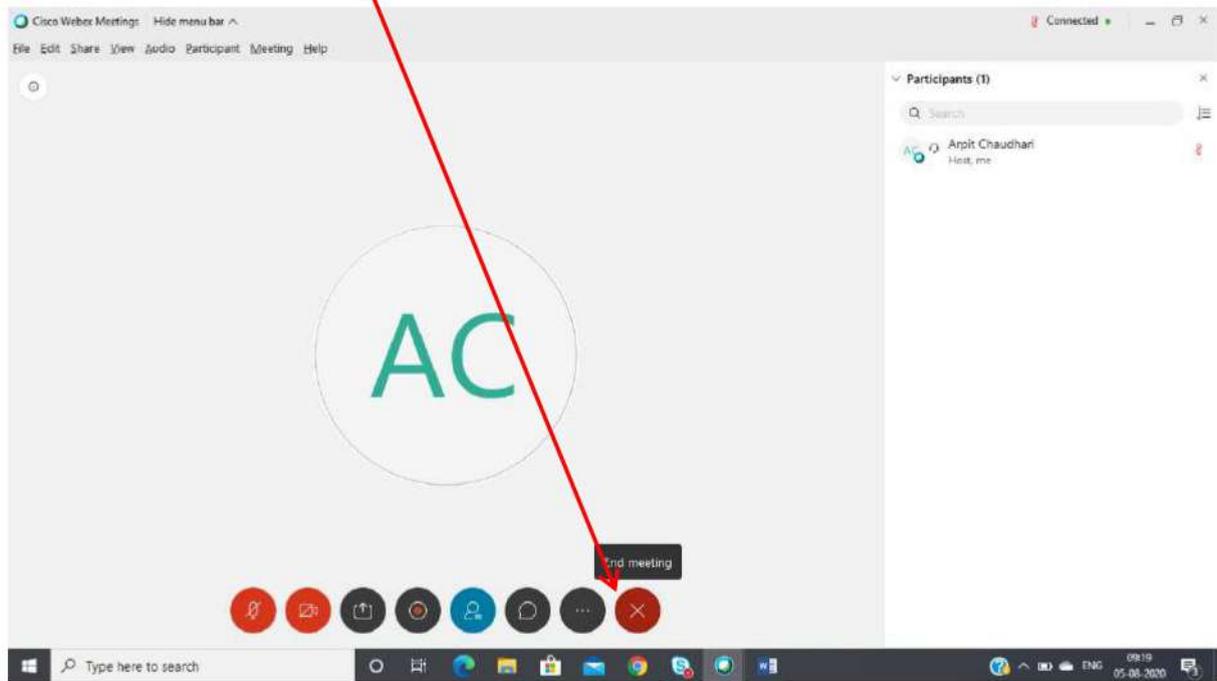
By clicking on Polling option user will get the "Polling window"



Type: Select a type of Question whether a short answer or Multi choice question



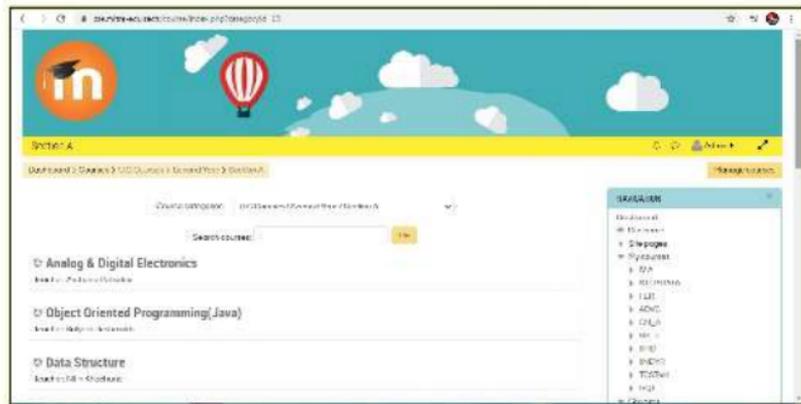
4.1.5 End a Meeting



4.1.6

Step by Step Guide to Conduct Practical on Moodle (<http://cse.mitra-edu.tech>)

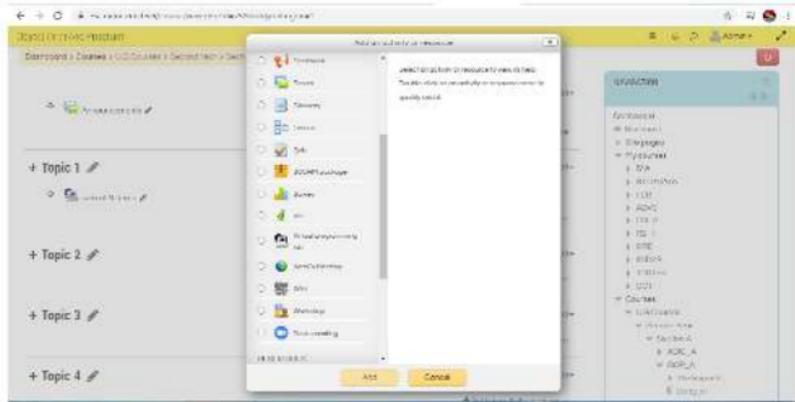
- 1: Log on to <http://cse.mitra-edu.tech> platform with the available credentials (On the Laptop)
- 2: Go to the Particular Practical Subject



- 3: Click on **Turn editing on**



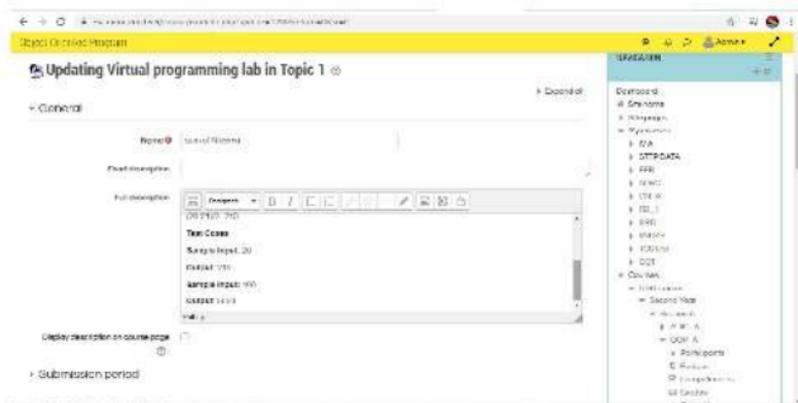
4: In that click on **Add an activity or resource**, select **virtual programming lab** and click add.



5: In Name write program name, provide program logic in full description if any.



6: Write test cases and provide sample input & output in description



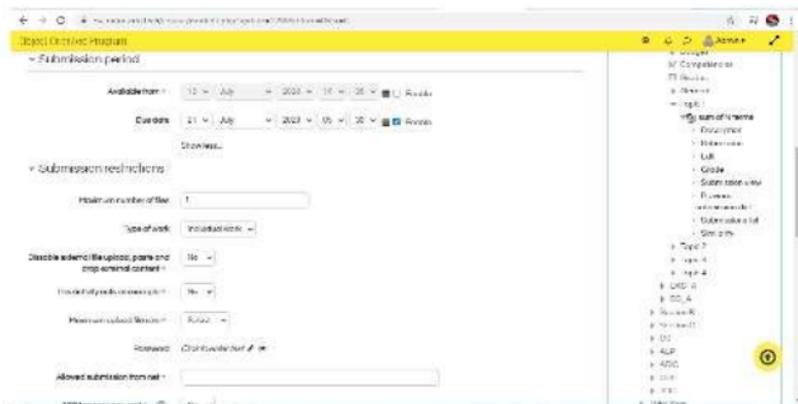
The screenshot shows a web browser window displaying the 'Updating Virtual programming lab in Topic 1' page. The page is divided into several sections:

- General:** Contains a 'Title' field with the text 'Sample Program'.
- Full description:** Contains a 'Test Case' section with the following text:

```
Sample Input: 20
EXPECTED: 10
Sample Output: 10
EXPECTED: 10
```
- Display description on course page:** A checkbox that is currently unchecked.
- Submission period:** A section with a dropdown menu set to 'None'.

The right sidebar shows a navigation menu with various options like 'Dashboard', 'Questions', 'My progress', 'QA', 'SMP DATA', 'SMP', 'SMP1', 'SMP2', 'SMP3', 'SMP4', 'SMP5', 'SMP6', 'SMP7', 'SMP8', 'SMP9', 'SMP10', 'SMP11', 'SMP12', 'SMP13', 'SMP14', 'SMP15', 'SMP16', 'SMP17', 'SMP18', 'SMP19', 'SMP20', 'SMP21', 'SMP22', 'SMP23', 'SMP24', 'SMP25', 'SMP26', 'SMP27', 'SMP28', 'SMP29', 'SMP30', 'SMP31', 'SMP32', 'SMP33', 'SMP34', 'SMP35', 'SMP36', 'SMP37', 'SMP38', 'SMP39', 'SMP40', 'SMP41', 'SMP42', 'SMP43', 'SMP44', 'SMP45', 'SMP46', 'SMP47', 'SMP48', 'SMP49', 'SMP50', 'SMP51', 'SMP52', 'SMP53', 'SMP54', 'SMP55', 'SMP56', 'SMP57', 'SMP58', 'SMP59', 'SMP60', 'SMP61', 'SMP62', 'SMP63', 'SMP64', 'SMP65', 'SMP66', 'SMP67', 'SMP68', 'SMP69', 'SMP70', 'SMP71', 'SMP72', 'SMP73', 'SMP74', 'SMP75', 'SMP76', 'SMP77', 'SMP78', 'SMP79', 'SMP80', 'SMP81', 'SMP82', 'SMP83', 'SMP84', 'SMP85', 'SMP86', 'SMP87', 'SMP88', 'SMP89', 'SMP90', 'SMP91', 'SMP92', 'SMP93', 'SMP94', 'SMP95', 'SMP96', 'SMP97', 'SMP98', 'SMP99', 'SMP100'.

7: Set other properties of practical such as submission period by enabling **available from** and **due date**, submission restrictions, and grades.



The screenshot shows the 'Submission period' and 'Submission restrictions' sections of the 'Updating Virtual programming lab in Topic 1' page.

Submission period:

- Available from:** 12 July 2023, 18:05
- Due date:** 21 July 2023, 05:00

Submission restrictions:

- Maximum number of files:** 1
- Type of work:** Individual work
- Disable external file uploads, paste and drag external content:** No
- Restrict file uploads to content:** No
- Maximum upload size:** None
- Allowed submission from net:** Off

The right sidebar shows a navigation menu with various options like 'Dashboard', 'Questions', 'My progress', 'QA', 'SMP DATA', 'SMP', 'SMP1', 'SMP2', 'SMP3', 'SMP4', 'SMP5', 'SMP6', 'SMP7', 'SMP8', 'SMP9', 'SMP10', 'SMP11', 'SMP12', 'SMP13', 'SMP14', 'SMP15', 'SMP16', 'SMP17', 'SMP18', 'SMP19', 'SMP20', 'SMP21', 'SMP22', 'SMP23', 'SMP24', 'SMP25', 'SMP26', 'SMP27', 'SMP28', 'SMP29', 'SMP30', 'SMP31', 'SMP32', 'SMP33', 'SMP34', 'SMP35', 'SMP36', 'SMP37', 'SMP38', 'SMP39', 'SMP40', 'SMP41', 'SMP42', 'SMP43', 'SMP44', 'SMP45', 'SMP46', 'SMP47', 'SMP48', 'SMP49', 'SMP50', 'SMP51', 'SMP52', 'SMP53', 'SMP54', 'SMP55', 'SMP56', 'SMP57', 'SMP58', 'SMP59', 'SMP60', 'SMP61', 'SMP62', 'SMP63', 'SMP64', 'SMP65', 'SMP66', 'SMP67', 'SMP68', 'SMP69', 'SMP70', 'SMP71', 'SMP72', 'SMP73', 'SMP74', 'SMP75', 'SMP76', 'SMP77', 'SMP78', 'SMP79', 'SMP80', 'SMP81', 'SMP82', 'SMP83', 'SMP84', 'SMP85', 'SMP86', 'SMP87', 'SMP88', 'SMP89', 'SMP90', 'SMP91', 'SMP92', 'SMP93', 'SMP94', 'SMP95', 'SMP96', 'SMP97', 'SMP98', 'SMP99', 'SMP100'.

The screenshot shows a web browser window with the address bar displaying `ccnmba.cc.edu/medialive.php?id=1298`. The page title is "Object Oriented Program". The breadcrumb trail is "Dashboard > Courses > UG Courses > Second Year > Section A > OOP_A > Topic 1 > sum of N terms".

Navigation tabs include "Description" (selected), "Submission list", "Similarity", and "Task activity".

sum of N terms

Due date: Tuesday, 21 July 2020, 5:30 AM
Maximum number of files: 1
Type of work: Individual work
Grade settings: Maximum grade: 10
Run: Yes, Runscript: C, Debug: Yes, Debug script: C, Evaluate: Yes
Automatic grade: Yes
Write a program to print sum of N terms.

Ex:
 $1+2+3+4+5+...+N = (N)(N+1)/2$

ENg 10
(17)11/2-55
(27)11/2-19

Test Cases

Sample Input: 20
Output: 210

Sample Input: 100
Output: 5050

On the right side, there is a sidebar menu titled "NAVIGATION". It contains a "Dashboard" section with links to "Site home", "Site pages", and "My courses". The "My courses" section is expanded to show "OOP_A", "STTP/DATA", "FER", "ADVC", "CNC_A", "HLL", "IBD", "INDWR", "TCS/Inf", and "GQT". Below this is a "Course" section with "UG Courses" expanded to show "Second Year", "Section A", "ADVC_A", "OOP_A", "Information", and "Images".

10: In VPL administration, at the bottom of page, click on **test cases**.

The screenshot shows the same web browser window, but the page content is different. The breadcrumb trail is "Dashboard > Courses > UG Courses > Second Year > Section A > OOP_A > Topic 1 > STTP/WORKSHOP".

The sidebar menu titled "ADMINISTRATION" is expanded to show the following options: "VPL administration", "Self settings", "Test cases", "Execution options", "Resource files", "Advanced settings", "Task activity", "View programming lab", "Locally assigned roles", "Permissions", "Check permissions", "Filters", "Logs", "Backup", "Restore", "Course administration", and "Site administration".

At the bottom of the sidebar, there is a search bar with a "Search" button. A red circle with a question mark is drawn around the search bar area.

11: Syntax for test cases is, write (Here 3 test cases are mentioned)

```
case= sum of N terms(write program name as it is)
input=10
output=55
```

```
case= sum of N terms(write program name as it is)
input=20
output=210
```

```
case= sum of N terms(write program name as it is)
input=100
output=5050
```

and click on save.

← → ↻ cse.mitra-edu.tech/mod/vpl/forums/testcasesfile.php?id=1298&edit=3

Object Oriented Program...

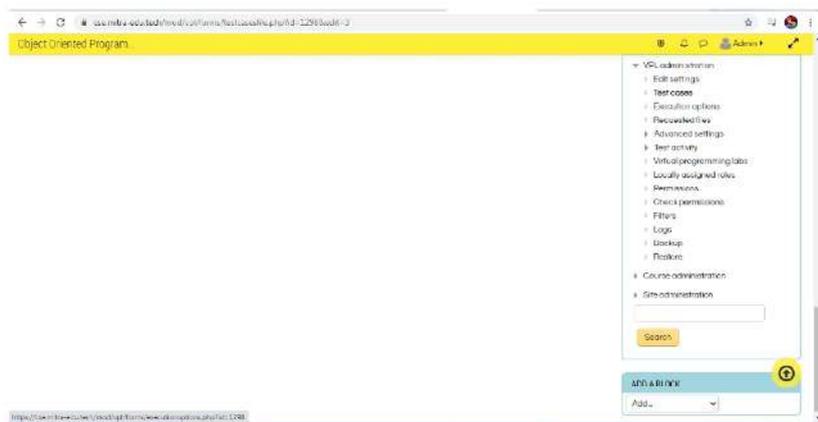
Test cases: sum of N terms



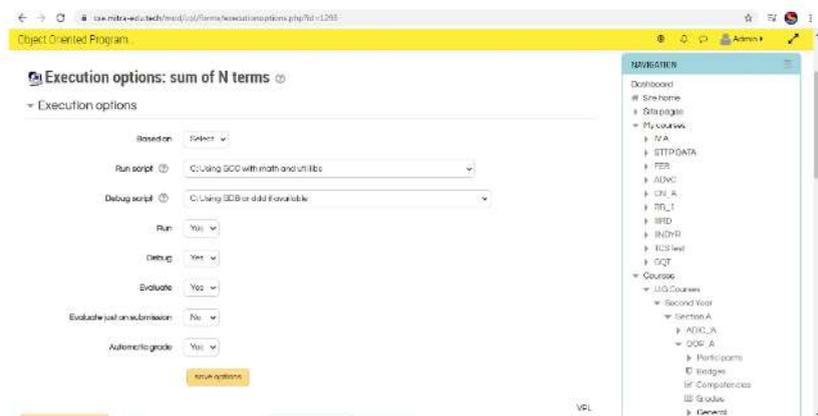
The screenshot shows a web-based interface for editing test cases. At the top, there is a title bar with a test icon, a save icon, and a help icon. Below the title bar is a tab labeled 'vpl_evaluate.cases 0'. The main content area is a list of test cases, each with a line number and a description. The test cases are:

Line	Test Case Description
1	case=sum of N terms
2	input=10
3	output=55
4	
5	case=sum of N terms
6	input=20
7	output=210
8	
9	case=sum of N terms
10	input=100
11	output=5050

12: Next click on **Execution options** in VPL administration.



13: Set properties as shown below, in **run script & debug script** select appropriate language and save .



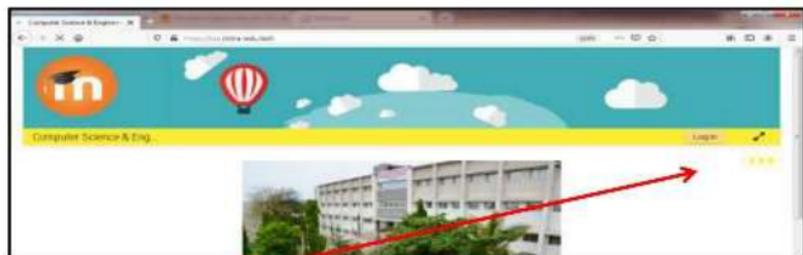
If on submission if we want to give marks then we can set Evaluate just on submission to Yes, set automatic grade to Yes, if all the test cases are cleared then the student is passed.

Step by Step Access from Laptop and Mobile

Mode 1: Laptop

Step 1: First go to the Google Chrome Browser and Enter Site Address of the Department:

Department	site
Department of Computer Science and Engineering	https://cse.mitra-edu.tech

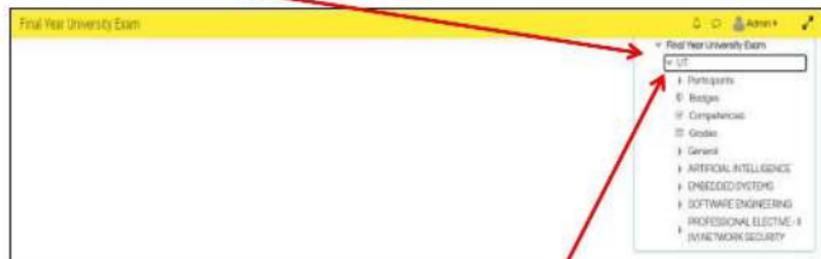


Step 2: Click on the Login in Button on the Right Corner

Step3: Enter the User id and Password Given by the Class Teacher



Step 4: Click on MY COURSES that Appear in the Navigation Bar



Step 5: IN the MY Courses Tab you will find the Courses **University Exam Summer 2020**

Step 6: Click on the Particular Course and You will find the Subject Head and the Test Below it.

The screenshot shows the 'University Exam Summary' page for the course 'ARTIFICIAL INTELLIGENCE'. The page is divided into two main sections: a list of exams on the left and a detailed view of the selected exam on the right.

Exam List (Left):

- ARTIFICIAL INTELLIGENCE** (60%)
 - Artificial Intelligence University Test (60%)
- EMBEDDED SYSTEMS** (60%)
 - Embedded Systems University Test (60%)
- SOFTWARE ENGINEERING** (60%)
 - Software Engineering University Test (60%)
- PROFESSIONAL ELECTIVE - B (IV) NETWORK SECURITY** (60%)
 - Network Security University Test (60%)

Exam Details (Right):

Introduction

- Site Home
- Site Pages
- My Courses
 - AI
 - ES
 - SE
 - NS
- Structure
- Users
- Groups
- Exam
- Exam Questions
- Exam Results
- Exam History
- Exam Settings
- Exam Statistics
- Exam Reports
- Exam Logs
- Exam Backup
- Exam Restore
- Exam Help

Step 7: Click the Particular Test on the Appropriate Date and Time.

The screenshot shows the 'University Exam Summary' page for the course 'ARTIFICIAL INTELLIGENCE' with the 'Artificial Intelligence University Test' selected. The page displays three questions and a navigation panel.

Questions:

- Question 1:** Which type of memory is suitable for long-term storage of information?
 - RAM
 - ROM
 - Cache
 - Flash
- Question 2:** Which type of memory is suitable for short-term storage of information?
 - RAM
 - ROM
 - Cache
 - Flash
- Question 3:** Which type of memory is suitable for long-term storage of information?
 - RAM
 - ROM
 - Cache
 - Flash

Navigation Panel (Right):

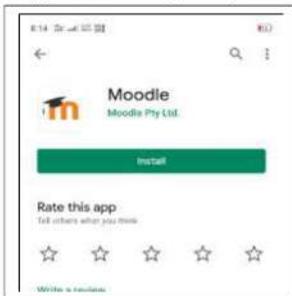
- Start Navigation
- Progress
- Time Remaining
- Start a new question

Navigation Panel (Bottom Right):

- Site Home
- Site Pages
- My Courses
 - AI
 - ES
 - SE
 - NS
- Structure
- Users
- Groups
- Exam
- Exam Questions
- Exam Results
- Exam History
- Exam Settings
- Exam Statistics
- Exam Reports
- Exam Logs
- Exam Backup
- Exam Restore
- Exam Help

Mode 2: Mobile App

Step1: Download the Moodle App from the Google Play Store



Step2: Open the Moodle App and Click on I'M a Learner



Step3: Enter the Moodle Department Site Address

Department	site
Department of Computer Science and Engineering	https://cse.mitra-edu.tech



Step 4: Enter the User Id and Password received on the Email.



** If you forgot the password click on forgot your username & password and provide only the registered email id and a reset link will be there on the email or contact class teacher.

Step 5: After the Successful Login In the Dashboard you can see the Enrolled Courses, Click on the the University Test



Step 6: You will find the Subject Test under the Subject Head

