

# ANNUAL REPORT

(2020-2021)

## Academic Staff College



VIT, Vellore



**VIT<sup>®</sup>**

**Vellore Institute of Technology**

(Deemed to be University under section 3 of UGC Act, 1956)

## Message from Director-ASC

Academic Staff College (ASC) is dedicated towards creating a culture of academic excellence and conducting faculty development activities for all our schools and centers at VIT Vellore.



Prof (Dr.) Indu Rao, Director- ASC, VIT Vellore

We conduct regular dialogue with different stakeholders of the university and coordinate with schools and centers towards achieving our purpose. Faculty Orientation Program (FOP) is our month-long flagship event conducted once every year to induct the new faculty as they join our family. The regular faculty development programs are conducted in half day, one or two day and 5-day formats to cater to different needs of our existing faculty across domains and disciplines all through the year. The Faculty development programs are designed to ensure all round development and well-being of our faculty members. We also network with international resource persons and universities as well as industry experts and invite the best resource persons to our university. We help our faculty stay updated with the latest developments in teaching, research and technology and thus to create a world class learning environment for our students.

# Activities of ASC(2020-21)

- Creating a fully integrated online FDP Interface
- Designing and Launching a comprehensive ASC website
- Faculty Orientation Program (FOP)
- Faculty Development Program (FDP)
  - Weekend Dialogue Series
  - Dialogue with Stakeholders
  - Regular FDP (1-3 Day)
  - Expert Sessions
  - One- Week FDP

# ASC Team



**Dr. Indu Rao**  
Professor & Director



**Dr.D Brahadeeswaran**  
Professor Emeritus



**Ms.Gayathri S**  
Data entry operator



**Ms.Vanija S V**  
Data entry operator



**Mr. G. Kumar**  
Attender (Senior Grade)



## ASC Co-ordinators (Centers)

Sl. No.	Faculty Co-ordinator	Designation	School
1	Dr. Geetha Manivasagam	Director & Professor	CBCMT
2	Dr. Loganathan D	Associate Professor	
3	Dr. Seenivasan	Professor and Dy. Director IR	CNBT
4	Dr. Jitendra Satija	Associate Professor	
5	Dr. R. Ramanujam	Professor Grade 1	CIMR
6	Dr. M. Arivarasu	Associate Professor Grade 1	
7	Dr. Mangayarkarasi	Assistant Professor (Sr.)	CNR
8	Dr. Ayesha Noor	Assistant Professor (Sr.)	CBST
9	Dr. V. Sabareshh	Assistant Professor	
10	Dr. A. Ramomohan	Assistant Professor (Sr.)	ARC
11	Dr. Suresh Chavhan	Assistant Professor (Sr.)	
12	Prof. Rajesh N	Assistant Professor (Sr.)	TIFAC - CORE
13	Prof. Vaani	Assistant Professor (Sr.)	CDMM
14	Prof. Malathy J	Assistant Professor	
15	Mrs. Kalaivani	Sr. Asst Librarian	Library

## ASC Co-ordinators (Schools)

Sl. No	Faculty Co-Ordinator	Designation	School
1	Dr. Prakasam P	Professor Grade 1	SENSE
2	Dr. Sivakumar R	Professor Grade 1	
3	Dr. Sharmila Jagadisan	Associate Professor Grade 2	VSPARC
4	Dr. Jayprakash Chadchan	Associate Professor Grade 2	
5	Dr. Madhu Viswanatham V	Professor Grade 1	SCOPE
6	Dr. Ilanthenral KPSK	Asst Prof Senior Grade 2	
7	Dr. Gomathi S	Sr. Professor	VITBS
8	Dr. Uma Pricilda	Associate Professor	
9	Dr. Dega Nagaraju	Professor Grade 1	SMEC
10	Dr. Nirajana Behera	Associate Professor Sr.	
11	Dr. P. Porchelvan	Professor (HAG)	SCE
12	Prof. John Sushil Packiaraj	Assistant Professor (Sr.)	
13	Dr. Anand A	Professor Grade 2	SBST
14	Dr. Padma Thiagarajan	Higher Academic Grade	
15	Dr. Madhumitha	Assistant Professor	SAS
16	Dr. Sivagami K	Associate Professor Grade 1	SCHEME
17	Dr. Mohammed Rehaan Chandan	Assistant Professor (Sr.)	
18	Dr. N. Jeyanthi	Associate Professor	SITE
19	Dr. M. Dinakaran	Associate Professor	
20	Prof. Vydianathan R	Professor	V-SIGN
21	Prof. Surendheran K	Assistant Professor (Sr.)	
22	Dr. R. Vidya	Assistant Professor (Senior)	VAIAL
23	Dr. Biswajitha Mohanty	Assistant Professor	
24	Dr. V. Indragandhi	Associate Professor	SELECT
25	Dr. R. Preetha	Assistant Professor (Junior)	SSL
26	Prof. G. Anburaj	Assistant Professor	
27	Prof. Vipin Singh	Assistant Professor (Junior)	HOT

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## 1. Introduction

Faculty Development Programs at ASC went fully online during the pandemic year 2020-21. All ASC activities were mostly conducted online. To accomplish this, we created a fully integrated online FDP system, in coordination with Software Development Cell and Computer and Technical Support Services. Several new initiatives were taken up during this historic year digital transformation in teaching and learning.

Through action research approach, we conducted dialogues with stakeholders of the University to identify the bottlenecks and to transform ASC. The inputs were utilized to improve content, delivery and execution of faculty development programs across domains of teaching-learning, research, health and well-being, new technologies, industry, IPR and innovation.

All faculty of the campus were trained in the methods of online teaching, evaluation, assessment and conduct of exams. We also conducted special programmes to help faculty to make online classes more interesting, effective and interactive, as well as to safeguard themselves from cyber attacks while conducting online sessions. We achieved more than 16000 faculty registrations for our FDPs this year by improving relevance of FDPs, and through improvement in content, process innovation and digital transformation.

The faculty feedback received for all our programmes was highly encouraging. The resource persons were invited from premium institutions, industry and government from India and abroad, and it ensured that our faculty was in touch with development around the world during pandemic times. We also launched a multi-disciplinary weekend dialogue series on October 4, 2020 for all round and holistic faculty development and successfully completed these dialogues over 30 weekends.

Apart from FDPs, ASC also conducted online Faculty Orientation Programme for the first time in history of VIT University for the new faculty who joined online.

## 2. Highlights of Academic Year 2020-21

Pandemic year of 2020 changed the operations of every sector. This year acted as blessing in disguise for ASC. ASC launched their fully integrated online system, conducted 96 FDPs by collaborating with various schools at VIT and online Faculty was an additional feather to the cap. Enthusiasm was displayed not only by the ASC team but also faculties of VIT, wherein, 14000 plus faculties participated in various FDPs.

Given below table summarizes the number of FDPs conducted throughout Academic Year 2020-21

Sl. No.	Type of FDP	Number of FDPs	No. of Faculty Registrations
1	FOP	1	77
2	One week FDP	19	1324
3	Three-Day FDP	4	205
4	Two- Day FDP	1	42
5	Online FDP	42	9218
6	Week end Dialogue	30	3780
	<b>Total</b>	<b>97</b>	<b>14646</b>

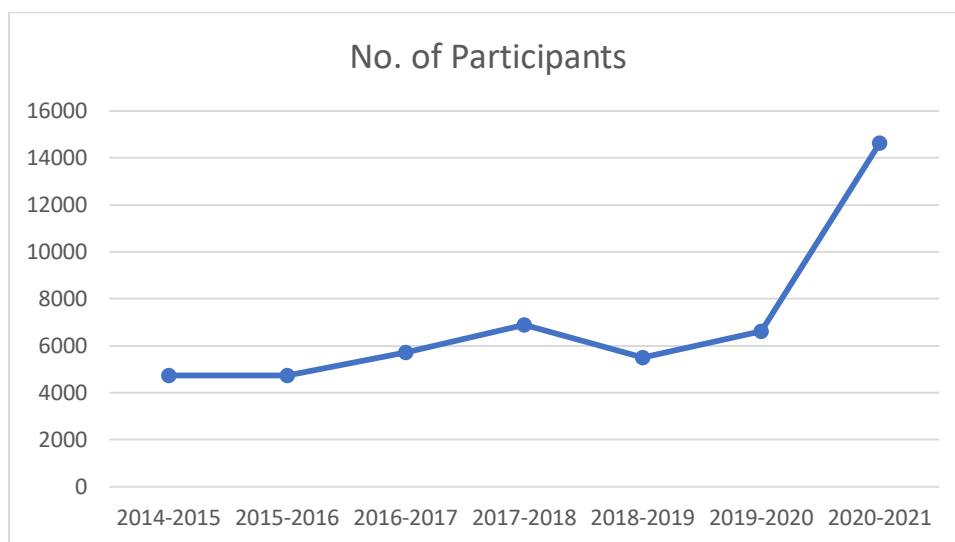
One-week FDPs was the highlight of this academic year. ASC conducted 19 one-week FDPs in the academic year 2020-21, with 1324 faculty participation.

Below is the table with the information regarding one-week FDPs:

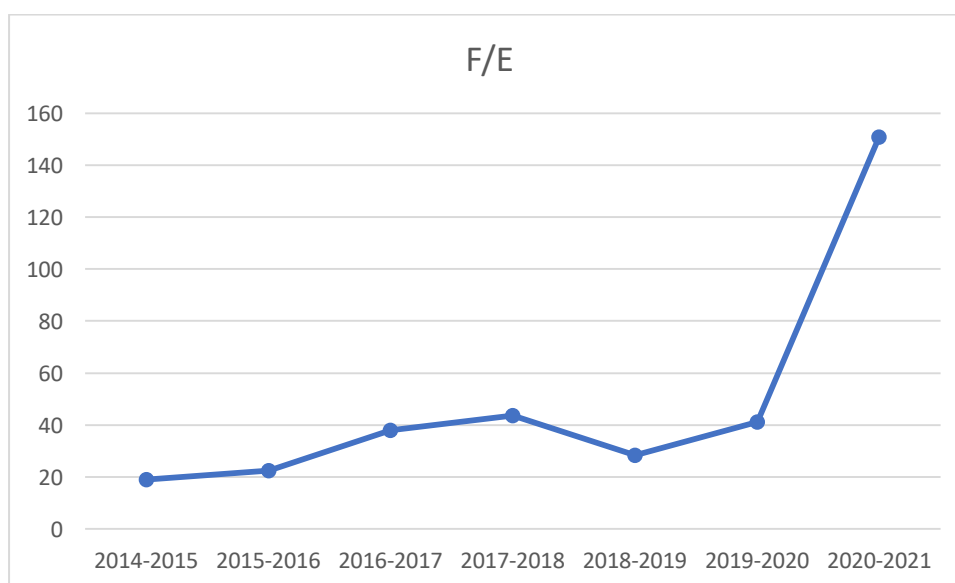
Sl. No.	Date	Title of the one-week FDP	No. of Faculty
1	30 Nov - Dec 4 2020	IOT and Machine Learning	113
2	28 Nov - 26 Dec 2020	Advances in Automotive Technologies	35
3	7 Dec -11 Dec 2020	Additive Manufacturing Fundamentals to Applications	67
4	7 Dec -11 Dec 2020	Machine Learning Applications in Engineered Systems	200
5	7 Dec -11 Dec 2020	CO2 Sequestration & Utilization	46
6	14 Dec -18 Dec 2020	Building Academic Entrepreneurship and Start-ups: Basic Scientist's, Clinician's and Entrepreneur's Perspectives	17
7	14 Dec -18 Dec 2020	Clean Energy Technologies for Sustainable Growth – Current Research & Development	89
8	15 Dec -19 Dec 2020	Transforming Paradigms of Design Education and Practice	32
9	17 Dec -22 Dec 2020	Current Trends in Life Sciences	86
10	21 Dec -25 Dec 2020	User Experience Design	30
11	21 Dec -25 Dec 2020	From Research to Publications: A Holistic Overview	82
12	4 Jan – 8 Jan 2021	Machine Learning Based 5G Wireless Communication Systems	99
13	18 Jan - 22 Jan 2021	Recent Trends on Microwave and Photonics	75
14	18 Jan - 22 Jan 2021	Pedagogical Implications of Blended Teaching-Learning Process and Flip Classrooms Management	12

15	1 Feb - 5 Feb 2021	Recent Trends on Smart Nanomaterials and its Diversified Applications	114
16	1 Feb - 5 Feb 2021	Energy Management & Planning in Smart Cities	80
17	1 Mar – 13 Mar 2021	DST FDP - Entrepreneurship Development - VIT	25
18	8 Mar – 12 Mar 2021	6G and Beyond Wireless Communication technologies	63
19	22 Mar – 26 Mar 2021	Nanoscale Device modeling and Simulation	59
		<b>Total</b>	<b>1324</b>

#### Trend of ASC event participants for last 5 years



#### Ratio of Number of participants (F) and number of events (E)





**Given below is the FDP event report for 2020-21.**

Sl. No.	Date	Title of FDP	No. of Participants
1	23 April 2020	How to conduct Online Classes using MS Teams	250
2	24 April 2020	How to conduct Online Classes using MS Teams	250
3	04 May 2020 (AN)	Remote Learning and Online Teaching	276
4	04 May 2020 (FN)	Remote Learning and Online Teaching	385
5	05 May 2020	Remote Learning and Online Teaching	247
6	11 May 2020	How to safeguard ourselves from Cyber Attacks during Corona times?	95
7	24 May 2020	Writing a Research Project Proposal	300
8	02 June 2020	To be an Effective Teacher	250
9	08 June – 07 July 2020	Faculty Orientation Programme	77
10	7 July 2020	Using MS Teams for Online Classes	245
11	11 July 2020	Effective use of Moodle for Online Classes	775
12	26 July 2020	Research Proposal writing for Funding Agencies in India & Abroad	250
13	26 July 2020	Understanding and Learning Online Tools for Effective Online Classes	242
14	2 August 2020	Fall 2020 CAT-1: Assessment and Evaluation	876
15	5 August 2020	Clarifying concerns related to CAT 2020	330
16	8 August 2020	CAT-2020 – Clarifying Technical Concerns in MS	287
17	16 Sept 2020	Recent Innovations in Artificial Tissues	37
18	18 Sept 2020	Digital tools, services and best practices for effective scholarly communication	261
19	20 Sept 2020	Beyond Power point Presentations - Using Whiteboards and Digipads for Online Classes	415
20	22 Sept 2020	How to conduct Interesting, Interactive and Effective Online Classes	315
21	27 Sept 2020	Open-Source Educational Resources	263
22	4 Oct. 2020	Post-Pandemic World? Emerging Scenario: Economic and Social	113
23	07 Oct 2020	Effective Proctoring at VIT for New Student Batch of 2020	150
24	11 Oct 2020	'Research Planning' for a University Faculty: Maximize your Research Output	305
25	16 Oct 2020	Developing Emotional Strength during Pandemic Times	164
26	18 Oct 2020	Multidisciplinary Research for Societal Benefits	214
27	23 Oct 2020	Pitfalls of Bigdata	84
28	01 Nov 2020	Using Online Tools for Student Engagement and Assessment	184
29	02 Nov 2020	3D Printing: Selection of Materials and Techniques	94
30	08 Nov 2020	Dialogue with VIT's World Top 2% Scientists	74
31	11 Nov 2020	Proctoring and Counselling	101
32	22 Nov 2020	Sharing Experiences from Institutional Leadership	152
33	23 Nov 2020	Project Based Learning in VIT	148
34	27-29 Nov 2020	Artificial Intelligence and Machine Learning using R: A case study approach	103

35	28 Nov - 26 Dec 2020	Advances in Automotive Technologies	35
36	29 Nov 2020	Role of Teaching Learning Center in Educational Institutions	300
37	30 Nov - 4 Dec 2020	IOT and Machine Learning	113
38	03 Dec 2020	Business caught between Sustainability and Profitability	46
39	05 Dec 2020	Blockchain Technology	122
40	06 Dec 2020	Dialogue with VIT's World Top 2% scientists	95
41	07 – 09 Dec 2020	How Teachers can make a difference?	30
42	07 – 11 Dec 2020	CO2 Sequestration & Utilization	46
43	07 – 11 Dec 2020	Additive Manufacturing Fundamentals to Applications	67
44	07 – 11 Dec 2020	Machine Learning Applications in Engineered Systems	200
45	08 Dec 2020	X Ray Diffraction Applied to the Field of Material Science and Engineering	155
46	12 Dec 2020	The Empathetic Teacher	108
47	13 Dec 2020	Therapies for Blood Cancer	103
48	14 - 18 Dec 2020	Building Academic Entrepreneurship and Start-ups: Basic Scientist's, Clinician's and Entrepreneur's Perspectives	17
49	14 - 18 Dec 2020	Clean Energy Technologies for Sustainable Growth – Current Research & Development	89
50	15 – 19 Dec 2020	Transforming Paradigms of Design Education and Practice	32
51	20 Dec 2020	Hybrid Faculty: Offline and Online Teaching	87
52	21 Dec 2020	Story Telling-In the Classroom	136
53	21 Dec 2020	Importance of Internal Academic and Administrative Audit	143
54	17 – 22 Dec 2020	Current Trends in Life Sciences	86
55	21 – 25 Dec 2020	User Experience Design	30
56	21 – 25 Dec 2020	From Research to Publications: A Holistic Overview	82
57	25 Dec 2020	How to Conduct Online FALL-2020 FAT Exam?	200
58	25 Dec 2020	How to Conduct Online FALL-2020 FAT Exam?	201
59	26 Dec 2020	How to Conduct Online FALL-2020 FAT Exam?	201
60	26 Dec 2020	How to Conduct Online FALL-2020 FAT Exam?	201
61	26 Dec 2020	How to Conduct Online FALL-2020 FAT Exam?	201
62	27-Dec 2020	How to Conduct Online FALL-2020 FAT Exam?	221
63	27 Dec 2020	How to Conduct Online FALL-2020 FAT Exam?	221
64	03 Jan 2021	Homemade Video Production for Professors	126
65	04 - 08 Jan 2021	Machine Learning based 5G Wireless Communication System	99
66	09 Jan 2021	Session on Importance of Quality in Teaching & Learning	50
67	09 Jan 2021	Essentials of Research Writing and Using Mendeley Reference Manager	322
68	18 - 22 Jan 2021	Pedagogical Implications of Blended Teaching Learning Process and Flip Classrooms Management	12
69	18 - 22 Jan 2021	Recent Trends on Microwave and Photonics	75
70	21 - 23 Jan 2021	Computer Aided Engineering for Process Planning	35

71	22 Jan 2021	Un-bore yourself: Say No to Listener- Disengagement	121
72	30 Jan 2021	Web-of- Science – User Education Program	116
73	31 Jan 2021	Academic Leadership Competencies	34
74	01 – 05 Feb 2021	Recent Trends on Smart Nanomaterials and its Diversified Applications	114
75	01 – 05 Feb 2021	Energy Management & Planning in Smart cities	80
76	06 Feb 2021	Optimization in MATHLAB	190
77	13 Feb 2021	R & Oracle	117
78	13 Feb 2021	EndNote: A software tool to manage your citations when writing a paper	75
79	14 Feb 2021	Scripting a Travelogue: Monasteries in Tibet and the Kailas Manasarovar region	45
80	17 Feb 2021	Turnitin Training Program	163
81	20 Feb 2021	Selecting a Journal for Publications: Criteria for Considerations	83
82	23 Feb 2021	Recent Advances in Solar Energy Applications	12
83	24 Feb 2021	Springer Nature Online User Awareness and Author Workshop	110
84	27 Feb 2021	Applications of Data Science and Analytics: An Industrial Approach	67
85	01 – 13 March 2021	DST FDP – Entrepreneurship Development – VIT	25
86	07 March 2021	Quality in Education	46
87	10 March 2021	Torrefaction of lignocellulosic biomass for bioenergy production	22
88	10 - 11 March 2021	Ethical Hacking and Cyber Forensics	42
89	11 March 2021	Quantum Computing	62
90	08 – 12 March 2021	6G and beyond Wireless Communication technologies	63
91	13 March 2021	Essential of IPR, Patent searching & Patent Drafting	148
92	20 March 2021	Strategies to generate revenue from Patents	93
93	22-26 March 2021	Nanoscale device modeling and Simulation	59
94	23-25 March 2021	Emerging Areas of Technology	37
95	24 March 2021	Best practices in High Performance	43
96	26 March 2021	Art of Commercially successful Patents	42
97	30 March 2021	RemoteXs: A Gateway to Accessing Your Digital Resources	38

### 3. Faculty Orientation Program (Online) 8 June – 7 July, 2020

Faculty Orientation Program, a stalwart program of the Academic Staff College aims to aid the new inductees to understand the culture, the vision and the expectations of the University.

Adversities are always a blessing in disguise. This year due to the pandemic outbreak, digital platforms provided the channels of learning, and connectivity. The Faculty Orientation Program was conducted online and was scheduled from 8<sup>th</sup> June, 2020 to 7<sup>th</sup> July, 2020.

Director ASC coordinated with the Centre for technical Support and created MS teams ID account for all the new inductees. The schedule was prepared meticulously, looking into finer details and sequential flow of topics for FOP 2020. 60 topics were deliberated upon for the benefit of the 77 participants by 70 speakers. The participants joined from 100 places - all over India on the virtual space via MS Teams. This year two panel discussions by the deans and directors acted as a new feather added to FOP by the Director ASC.

Director-ASC welcomed the dignitaries and the new members of the VIT family warmly to the Online Faculty Orientation Program 2020. Though online, the FOP started with the traditional Thamizh Thai Vazhthu. Our Honorable Chancellor, Vice President and Pro-Vice Chancellor graced the inaugural ceremony. The Chancellor shared the vision of Vellore Institute of Technology, and inspired the 77 new faculty members to aspire for higher standards, collaborative learning and establish a good networking system with international and national peers. The vision of taking VIT to the Top 200 Global Universities List was seeded in the minds of the new faculty. Training programs in FOP 2020 were structured to envision this dream.

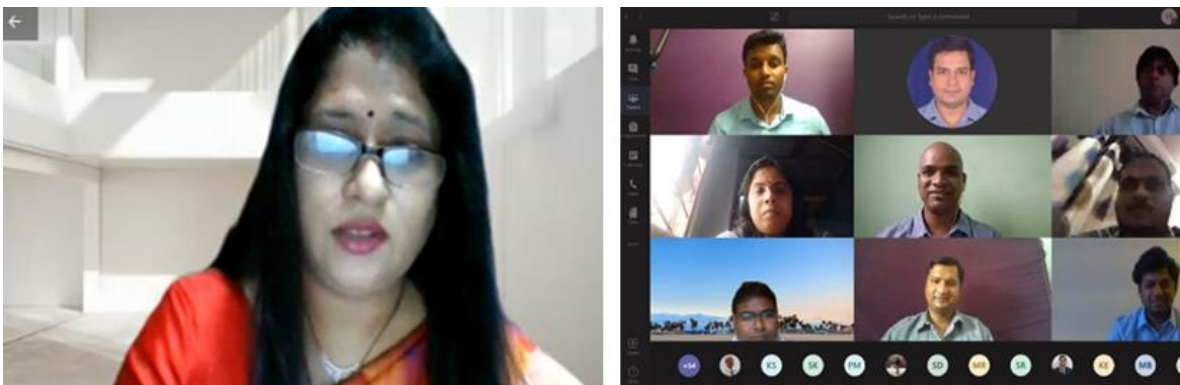
Our Chancellor addressed the new faculty during the inaugural session: FOP 2020



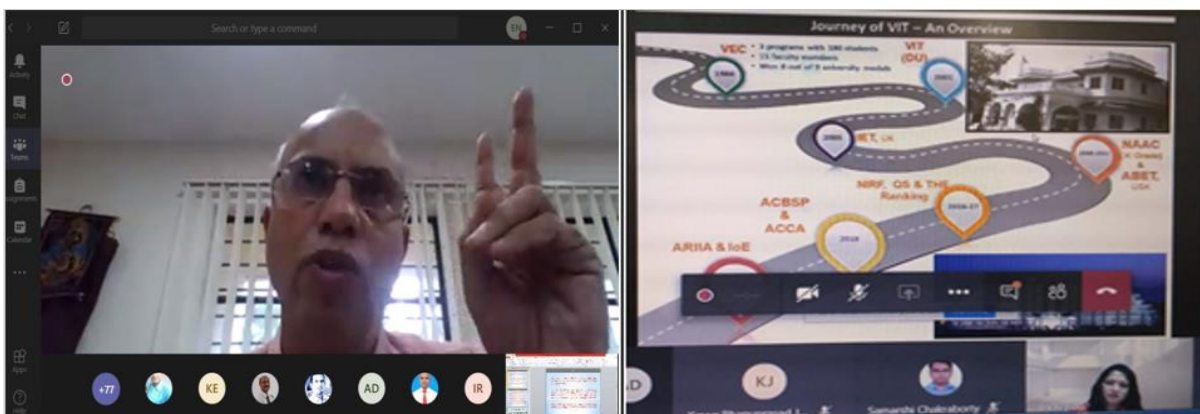
The Pro-Vice Chancellor shared the overview about VIT and transparently communicated the expectations of VIT. VIT nurtures talents and motivated each one to climb up in their career at VIT.



Director ASC during her ice breaking session got the faculty to know each other and set the ambience for a virtual FOP.



The Faculty were introduced to the HR policies of the institution by the Asst. Director HR. The Registrar shared his thoughts on the Journey at VIT. He invited the faculty to take on responsibilities and groom themselves as academic leaders. He also reiterated the idea that at VIT, it just takes committed work and talent with the right attitude to have a great career and progress at personal level also.



The faculty were then trained on MS Teams by the executive from MS teams. This session was to enable all the faculty to understand MS teams and be confident to use it. The faculty were then introduced to VTOP a software that gives access to information like course details, student information, assignment records, class attendance to access to study materials. The new achievement by ASC Director is that, with VTOP, the faculty will be able to submit their FDP requisition online.

Some titles that were deliberated during FOP 2020 were: Cyberspace Security, International relations, catalyzing innovation and entrepreneurship, trans-disciplinary research, online teaching, and the know-hows of academic regulations.

Disruptive research leading to innovation, creating time and focus on research, research regulations, writing proposals for funded projects, challenging experiments, executing projects, IPR and innovations at VIT stand proof to the fact that research is an important parameter at VIT. An **international resource person** from the University of Twente, Netherlands, Prof. Dr. Jos Van Hillegersberg inspired the faculty on writing review papers. The faculty were awestruck at the kind of support that is equally provided for faculty to continue their research passion, write and secure grants, execute projects and also for consultancy projects with the industry.

Curriculum design, PBLs, Coding procedures and practices, ppt with animations, flipped classrooms, virtual labs, AR and VR technologies, simulations and gaming for teaching, Bloom's taxonomy, setting HOTS question paper, question paper setting and mapping COs, rubrics in academics, story-telling in the classroom, University 4.0 stand testimony to the importance of teaching learning at VIT. The invitation to be a MOOC course owner kindled the interests of the new faculty and gained a lot of insights from the several sessions pertaining to academic interests at VIT.

Titles like exams and evaluations at VIT, experiencing digital evaluation, workplace etiquette, time management, and performance evaluation detailed all that a new faculty should know to function with ease and enthusiasm.

VIT houses students from across the globe. Effective classroom management, proctoring, and expectations from students made the FOP unique in itself.

The panel discussion by the deans and the directors was greatly appreciated by the faculty. This novelty was added to the online FOP by Director-ASC. The sessions as per the scheduled calendar were conducted smoothly. This was followed by reinforcement sessions till the 7<sup>th</sup> of July, 2020.

The faculty members were then grouped according to the schools. ASC coordinated with the heads of the various schools and facilitated a meeting of the faculty with their respective deans, which further nurtured the feeling of belongingness.

A virtual tour of the campus, the various schools, research labs, the library, the main building and the administrative block enthused the faculty.

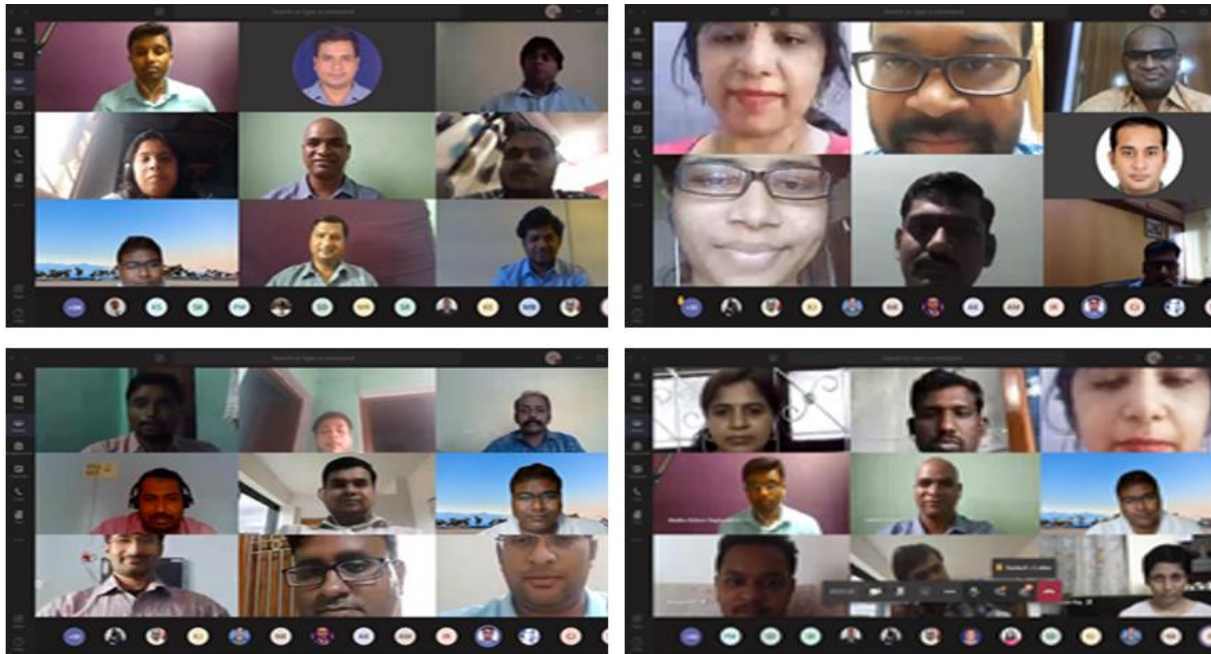
Hands on sessions for the faculty on VTOP was conducted again for the benefit of the participants. The faculty got to learn to use VTOP and its various features. Repeat sessions on MS teams were also conducted for the benefit of the new faculty.

The month-long FOP 2020 ended on a happy note with the faculty filled with rigor to participate and contribute to the University with zeal. A formal valedictory session on the 7<sup>th</sup> of July, 2020 was graced by the Director-ASC. A 5-minute video on FOP 2020 showcased the grandeur of the program and the



feedback of the participants stood testimony to the huge success of the program.

### **Glimpses of ONLINE Faculty Orientation Program 2020**



#### 4. One week Faculty Development Program

One of the major achievements of ASC in the year 2020-21 is that we organized 18 One-Week Faculty Development Programs in association with various schools and centers for all faculty members of VIT. A total of **1324** Faculty Members from various Schools and centers have participated in these events.

The list is given below:

Sl. NO.	Date	Title of the one week FDP	No. of Faculty
1	30 Nov - Dec 4 2020	IOT and Machine Learning	113
2	28 Nov - 26 Dec 2020	Advances in Automotive Technologies	35
3	7 Dec -11 Dec 2020	Additive Manufacturing Fundamentals to Applications	67
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		<b>Total</b>	<b>1324</b>

The brochures and pictures of the events are given below:

The brochure is for a One-Week FDP (9.30 AM- 4.30 PM) organized by the Academic Staff College (ASC) in association with the School of Electronics Engineering (SENSE). The program is coordinated by Dr. M. Arun, Dr. Sujatha R, and Dr. Hemprasad Yashwant Patil. The main theme is "IOT and Machine Learning". The brochure lists several topics to be covered: Open source IoT Platforms, IBM Cloud services, Cloud App Development, Machine Learning classification for Images, Conversation & Speech Recognition, AI Platforms, Use Case: Build a web based chat bot with Voice input & Output, AI for Industry 4.0, Data acquisition for computer vision in industrial environment, Introduction to Artificial Intelligence, and Machine Learning. The dates are Nov 30 – 4 Dec, 2020 (Monday – Friday). A yellow thought bubble contains the dates. The bottom of the brochure features the VIT logo, the Institution's Innovation Council logo, and a registration link: <https://vtop.vit.ac.in/vtop/initialProcess>.

**VIT**  
Vellore Institute of Technology

**Academic Staff College (ASC)**  
In association with School of Electronics Engineering (SENSE)

**One-Week FDP (9.30 AM- 4.30 PM)**

Program Coordinators: Dr. M. Arun, Dr. Sujatha R, Dr. Hemprasad Yashwant Patil

# IOT and Machine Learning

- Open source IoT Platforms, IBM Cloud services, Cloud App Development, Machine Learning classification for Images
- Conversation & Speech Recognition, AI Platforms, Use Case: Build a web based chat bot with Voice input & Output
- AI for Industry 4.0, Data acquisition for computer vision in industrial environment
- Introduction to Artificial Intelligence
- Machine Learning

Nov 30 – 4 Dec, 2020  
(Monday – Friday)

Please register through your vtop login at <https://vtop.vit.ac.in/vtop/initialProcess>







**VIT**  
Vellore Institute of Technology

***Academic Staff College(ASC)***

In association with Automotive Research Center (ARC)


**One-Week FDP (9.30 AM-5.30 PM)**

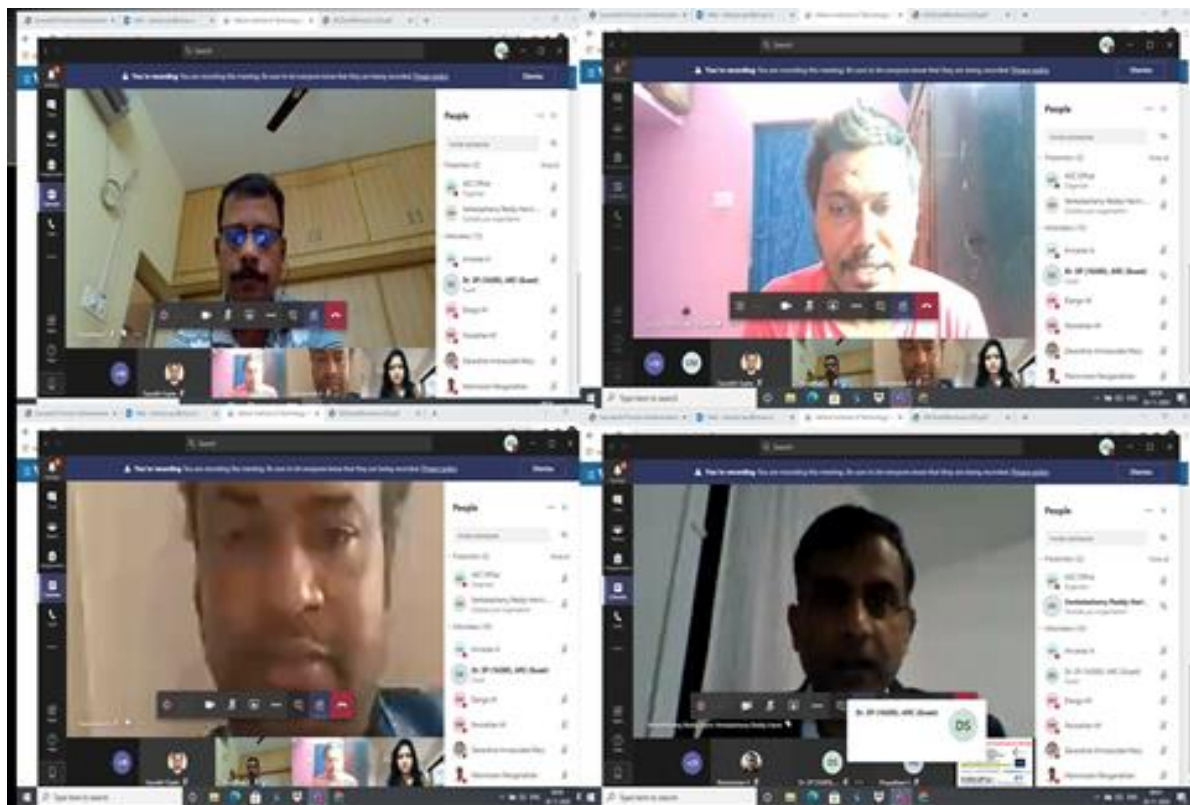


Program Coordinators: Dr. A. Rammoohan, Dr. P. Shunmuga Perumal, Dr. E. Porpatham, Dr. C. Ramesh Kumar, Dr. J. Thangaraja, Dr. M. Mohamed Ibrahim

## Advances in Automotive Technologies

Nov 28, 2020	Regulations for Autonomous Vehicles Modern Automotive Sensors Recent Trends in Automotive Fault Diagnostics An Overview of Advanced MPFI Technology in Automotive Engines
Dec 5, 2020	Automotive Intelligent systems Gaseous Fuelled SI Engines Battery Management Systems Fundamentals of Proton Exchange Fuel Cell and numerical simulation through CFD
Dec 12, 2020	Building Blocks of Autonomous Vehicles Combustion modeling of biofuel engine Recent Trends in Lubricants Recent Trends in Engine Hydrogen Powered HCCI Engine
Dec 19, 2020	Blockchain Intelligent Transport Systems Engine Control System Architecture and its Calibration Strategies for Engine Output Optimization
Dec 26, 2020	Shallow Neural Network for Autonomous Vehicles Applications ECU Development process focusing on Hardware Design and Verification Automotive software Testing


<https://docs.google.com/forms/d/1cYs59Cwrm852D9usET7HemLjciz2s3r97d8pMR6k4e0/edit>





**VIT**  
Vellore Institute of Technology  
(Established as first University under section 3 of UVC Act, 1984)

## Academic Staff College(ASC)

In association with Centre for Innovative Manufacturing Research (CIMR)

One Week FDP (10.00 AM-5.00 PM)



Coordinators: Dr Arivarasu M, Dr Raja Annamalai, Dr Ashish Kumar, Dr Nagalakshmi Nammi, Dr Ramanujam

### Additive Manufacturing Fundamentals to Applications

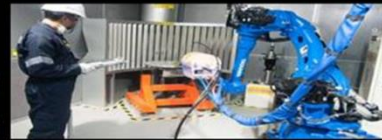
#### RESOURCE PERSONS

- Dr Prashanth K G, TALTECH, TAILIN
- Prof. Srikanth Bontha, NITK, Suratkal
- Dr. I.A. PALANI, IIT – indore, Indore
- Dr Alok Kumar, University of Maryland,
- Dr. S. Kanmani Subbu, IIT Palakkad, Palakkad
- Dr Shiva S, IIT Jammu
- Dr N. Ramesh Babu, IIT Madras.
- Dr Sathyan Subbiah, IIT Madras.
- Dr Manikanda Kumar Shanmugavel, EOS Space Systems Australia, Franklin.
- Mr. Chola Elangeswaran, Ku Leuven, Leuven

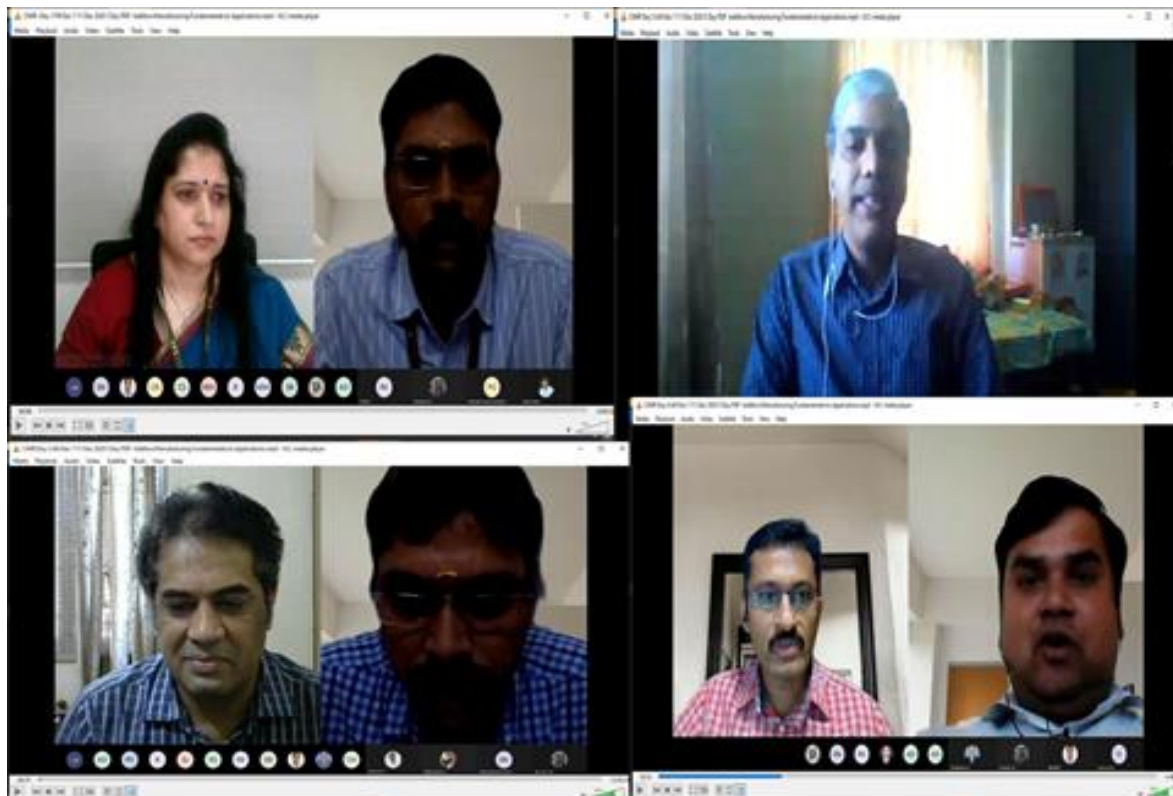
#### Discussion Points:

- A General introduction to metal additive manufacturing
- Modelling and Simulation of Metal Additive Manufacturing Processes
- Laser Assisted Additive Manufacturing Macro-Micro
- 3D Printing of Bio Materials
- A Journey from Rapid Prototyping to Additive Manufacturing
- Evolution of additive manufacturing techniques
- Standardization in Additive Manufacturing
- Extra-terrestrial manufacturing: A state-of-art review
- Applications and Future Directions of AM
- AM of maraging steel and its fatigue properties

07 – 11 December 2020  
(Monday – Friday)  
10:00 AM – 5:00 PM



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**VIT**  
Vellore Institute of Technology

***Academic Staff College(ASC)***

In association with School of Chemical Engineering (SCHEME)

**5-DAY FDP (9.30 AM- 4.00 PM)**



Program Coordinators: Dr Shishir K. Behera, Dr. K. Sivagami, Dr. Karthika

## Machine Learning Applications in Engineered Systems

07 – 11 December 2020  
(Monday – Friday)  
9:30 AM – 4:00 PM

**Resource Persons :**

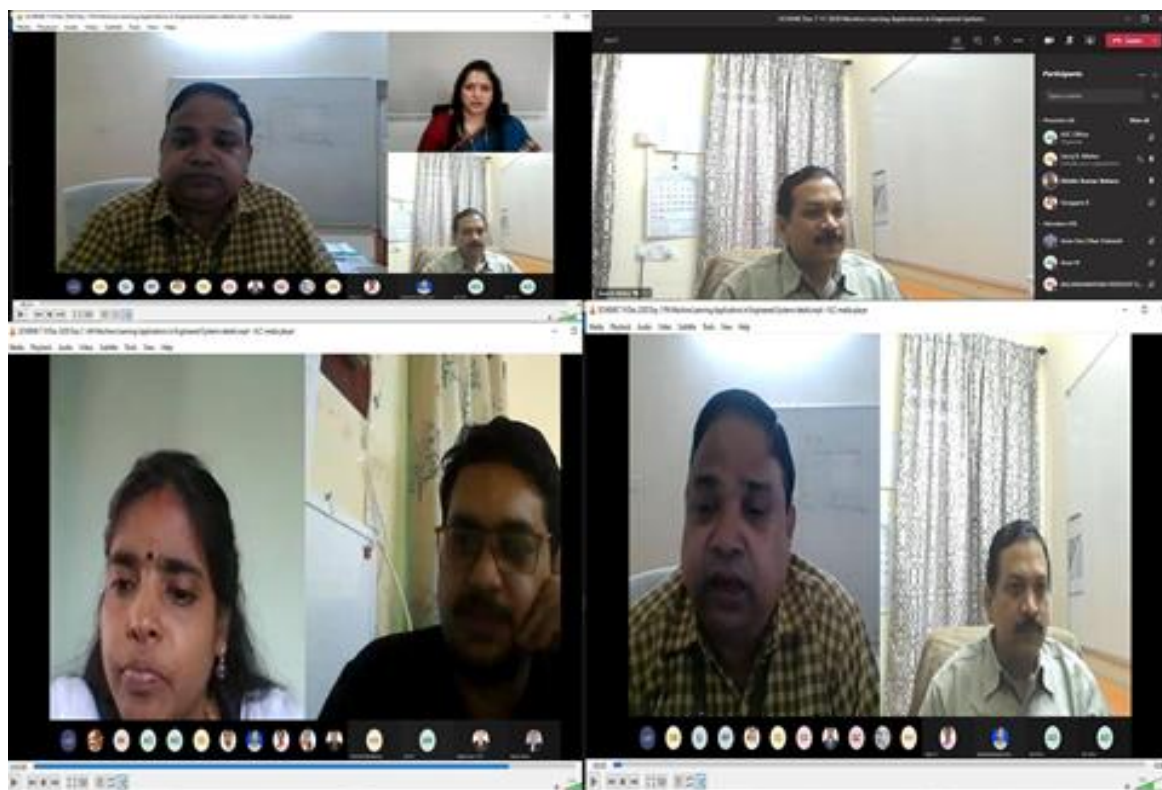
- **Dr Saroj Kumar Meher**  
Indian Statistical Institute, Bangalore
- **Dr Mohd. Zafar**  
University of Technology & Applied Sciences, Sur Campus, Sultanate of Oman
- **Dr Raja Das**  
SAS, VIT Vellore
- **Dr. Kirubakaran Velswamy**  
University of Alberta, Edmonton, Alberta, Canada
- **Dr. Alexander Vincent Paulraj**  
University of Liverpool, Liverpool L69 3BX, United Kingdom

**Discussion Points:**

- Basics of ML
- Some classification/regression algorithms
- Artificial Neural Networks (ANNs)
- Neuro-fuzzy NN, Granular NN
- GA integrated ANN, Reinforcement Learning
- Deep Learning



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**VIT**  
Vellore Institute of Technology

## Academic Staff College(ASC)

In association with (CO<sub>2</sub>) Research and Green Technologies Centre

Program Coordinators: Dr. J. Ranjitha, Dr. S. Vijayalakshmi, Dr. V. Gayathri.



# CO<sub>2</sub> Sequestration, Conversion & Utilization

**Resource Person :**

- Dr. R. Nandhini Devi, National Chemical Laboratory, Pune
- Dr. Hareesh U.S. National Institute for Interdisciplinary, Pune
- Dr. C. Aravind Kumar, IIT, Madras
- Dr. I. Sreedhar, BITS, Hyderabad.
- Dr. M. Premalatha, NIT, Trichy
- Dr. S. Ravichandran, CECRI, Karaikudi
- Dr. Sumitha Dutta, NIT, Durgapur
- Dr. Somenath Garai, Banaras Hindu University, Varanasi
- Dr. S. Venkata Mohan, CSIR-IIT, Hyderabad
- Dr. Seikanth Sandipam, Indian Oil Corporation Limited, Haryana
- Dr. Vamsi Krishna Kamaja, Nanyang Technological University Singapore
- Dr. Ibrahim Ganesh, ARCI, Hyderabad
- Dr. S. M. Senthil Kumar, CSIR - CECRI.
- Prof. Pravin P. Ingole, IIT Delhi
- Prof. Prakash M. Maiya, IIT Madras
- Prof. M. Ramgopal, IIT Kharagpur,
- Mr. Raj Kumar Kamath, Retd Engineer, Danfoss
- Prof. Senthil Kumar A, VIT Vellore
- Dr. Velvizhi G, VIT Vellore
- Dr. Senthil Kumar Annamalai, VIT Vellore




**07 – 11 Dec 2020**  
**(Monday – Friday)**  
**10:00 am – 04:30 pm**

**Discussion Points**

- ❖ CO<sub>2</sub> Sequestration
- ❖ Biological conversion of CO<sub>2</sub>
- ❖ Electrochemical reduction of CO<sub>2</sub> into value added products
- ❖ Utilization of CO<sub>2</sub> as refrigerant

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Vellore Institute of Technology  
Chartered by the University Grants Commission (UGC) Act, 1956

## Academic Staff College(ASC)

In association with Centre for Biomaterials, Cellular and Molecular Theranostics (CBCMT)



Faculty Coordinators : Dr.Geetha Manivasagam, Dr.Loganathan D, Dr. Arunai Nambiraj N, Dr. Amit Kumar Jaiswal, Dr. Arunkumar Palaniappan and Dr. Sumita Nayak


### Building Academic Entrepreneurship and Start-ups: Basic Scientist's, Clinician's and Entrepreneur's Perspectives

**Resource Person :**


Dr.Deepanwita Chatteropadhyay, IKP Knowledge Park Bangalore.  
 Dr. Anil Kumar PR, Sree Chitra Tirunal Institute for Medical Sciences and Technology, Thiruvananthapuram.  
 Dr. Sachin Kadam, Advancells, NOIDA.  
 Dr. Bapu Koundinya Desiraju, Translational Health Science and Technology Institute, Haryana.  
 Dr.Sivan Priya, Sree Anjaneya Institute of Dental Science, Kerala  
 Dr. Aravindan Vasudevan, Co-Founder and Chief Executive Officer, Actorius Innovations and Research.  
 Dr. Atinash Gandhi, Mother Cell Regenerative Centre, Trichy.  
 Dr. S. Anbu, University of Hull United Kingdom  
 Dr. Sanjeeva Kumar Majumdar, National Research Development Corporation, New Delhi.  
 Dr.K.Jagadeesan, KJ Hospital, Chennai.  
 Dr. Anita Aggrawal, Department of Science and Technology, New Delhi.  
 Dr.Sivarajan T. Chettiar, Archeron Group, Gujarat.  
 Dr.Deepak Kalaskar, University College London, London.  
 Dr. Sheba David, PAPRSE Institute of Health Sciences, Brunel.  
 Dr.Aravind K Rengan, Indian Institute of Technology Hyderabad , Hyderabad.  
 Dr. Anuya Nisal, National Chemical Laboratory, Pune.  
 Prof. Rohit Srivastava, IIT Bombay, Mumbai.  
 Dr.Nidhi Sharma, Saveetha University , Chennai.  
 Dr. Deepak Pattansayak, CSIR-Central Electrochemical Research Institute, Karaikudi.  
 Dr. Nitay J. Lakhkar, SynThera Biomedical Private Limited, Pune.  
 Dr. Prasanth Radhinam, Pushpagiri Institute of Medical Sciences and Research Center, Thiruvalla.  
 Dr.Keul C Popat, Colorado State University, USA.

**Discussion Points**

- ❖ AI and Machine Learning in Healthcare
- ❖ 3D Bioprinting, Tissue Engineering
- ❖ Strategies for Translational Drug Discovery
- ❖ Cancer Diagnosis and Treatments - From bench to bedside
- ❖ Biosensors, Stem cells, and Regenerative Medicine
- ❖ Cutting-edge Technologies in Dentistry
- ❖ Overview of the Startup Process
- ❖ How to Promote Translational and Industrial Research
- ❖ Research Facilities, Resources, and Technology Platforms – Sharing
- ❖ IKP Knowledge Park, New Incubation Opportunities
- ❖ The Success Story of Translational Research
- ❖ Intellectual Property Strategies for Technology Startups
- ❖ Affordable Healthcare Technologies with a focus on Entrepreneurship Development



**INSTITUTION'S INNOVATION COUNCIL**  
(Ministry of HRD Initiative)



December 14 - 18 2020  
(Monday- Friday)  
10:30 am – 5:30 pm

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**VIT**  
Vellore Institute of Technology

## Academic Staff College(ASC)

In association with School of Mechanical Engineering (SMEC)

Cordially invites you to



**One-Week FDP December 14 – 18, 2020 (9.30 AM-5.30 PM)**

Faculty Coordinators: Dr Arun Kumar Behnua, Dr Antij Kumar

**Clean Energy Technologies for Sustainable Growth – Current Research & Development**

- Harvesting Ocean Wave Energy – Technical Challenges
- Long-Term Durability and Performance of Solar Plants and the Financial Impacts
- Strategies for exploring generational feedstocks in India for clean fuel production and efficacy of empirical model in biodiesel industry
- Optimization of process parameter to maximize biodiesel production
- Sustainability Initiatives in Infrastructure: Reduction of GHG emissions
- Kinetic Modelling of Anaerobic reactor
- Sustainable Development of Hydro Power Plants
- Development of Integrated Renewable Energy
- System Model from Stand-Alone Applications

- Electric Propulsion System for EV
- Distributed Generation Planning under Smart Grid Environment
- Hydrogen production with CO2 capture using chemical looping reforming
- Utilization of Solar Energy: Indian Prospective
- Role of Homer Software in Microgrid Solution
- Smart Buildings energy systems
- Hydrokinetic Energy- Resource Assessment and Site Selection
- Preparation of DPR for wind energy project
- Wind energy and hydrokinetic turbine
- Role of River Energy System to achieve SDG7



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Cordially invites you to

**One-Week FDP Dec 15 – 19, 2020 (10.00 AM-6.00 PM)**

**Faculty Coordinators: Prof. Vydianathan R, Prof. Surendheran K**

**Transforming Paradigms of Design Education and Practice**

**Speakers**

- Prof. Kuntal De, Consultant, Pune
- Prof. Vaibhav Kumares, Director, Vaibhav Studios
- Prof. Shirsendu Gosh, Consultant, Patna
- Prof. Vasant Dewaji, Consultant, Chennai
- Prof. Shalin AJ, Adobe, Bengaluru
- Prof. Rahul Dutta, AltReal and Hyper Reality Studio, Gurugram
- Prof. Vinod C, Talent Quest, Bengaluru
- Dr. Sougata Karmakar, IIT, Guwahati
- Prof. Ajith Kumar, Altius Designs, India
- Prof. Marcus Vinicius Fainer Bastos, PUC-SP, Brazil
- Prof. Filipe dos Santos Barrocas, University of São Paulo, Brazil
- Prof. Jasper Chalcraft, Sao Paulo, Brazil
- Prof. Rose Satiko Gitrana Hikiji, University of São Paulo, Brazil
- Prof. Prabhakaran Raskiyappan, PAYPAL, India
- Prof. Raja M, School of Design
- Prof. Manoj Sinha, Google, San Francisco
- Prof. Ramesh Naidu, Belmont, US
- Prof. Leena Manimegalai, Indian Filmmaker, Chennai
- Prof. Alphonse Roy, Cinematographer and Filmmaker, Chennai

**Discussion Points**

- Design education and pedagogy
- Creating successful Intellectual Property in Animation
- Experiences of a Designer for the last eight months Post Lockdown
- Role of design in industry, personal experiences
- Current case of missing manual in designer's rockbook
- Immersive technology for education
- Designer's a multi-functional role
- Ergonomics in Industrial Design
- Are you creative?
- The role of Animation in Online Vocational Program
- Art as a material to teach new languages
- Collaborative film and shared knowledge
- Industries' Requirements and Expectations of Design Graduates
- Role of Virtual/Augmented Reality in Education
- What & How of Customer Experience (CX)?
- Importance of design in designing languages
- Role of Digital Technologies in Independent Filmmaking
- Big Cam in Camera - Approach in Wild life Cinematography



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## Academic Staff College(ASC)

In association with School of Bio Sciences and Technology (SBST)

One-Week FDP (9.30 AM- 5.30 PM)



Program Coordinators: Dr. Pragasam, Dr. Anand A, Dr. Padma Thiagarajan,

# Current Trends in Life Sciences

### RESOURCE PERSONS:

Prof. Salvatore Albani, Duke-NUS Medical School, Singapore.  
Mr. Girdhari Lal, National Centre for Cell Science, Pune.  
Dr. Pragasam V, VIT, Vellore.  
Ms. Janani K, Biocon Biologics (Science & Technology Innovation), Bangalore.  
Mr. K. Sekar, Indian Institute of Science, Bangalore.  
Mr. Neelanjana Sinha, AuthorCafe Company, Mumbai.  
Prof. M Michael Gromiha, Indian Institute of Technology, Chennai.  
Prof. Maria Kowalczyk, Springer Nature, London.  
Mr. T Raj Kumar, Cancer Institute Adyar, Chennai.  
Prof. Gautham Pasupuleti, Biodesign Innovation Lab, Chennai.  
Prof. Nagesh Kalakonda, University of Liverpool, Liverpool.  
Prof. Sinisa Dovat, Penn State Cancer Institute, Hershey, PA.  
Prof. Meenakshi Munshi, Department of Biotechnology Government of India, New Delhi.  
Mr. Sukant Khurana, Ioncure Tech Pvt. Ltd., New Delhi.  
Prof. S S Easwaran, Biocon Academy, Bangalore.  
Prof. Suparna Mukherji, IIT, Mumbai.  
Prof. Nurzafirah Mazlan, Management and Science University, KL.  
Dr. Jayaraman G, VIT, Vellore.  
Dr. Anilkumar G, VIT, Vellore.  
Dr. Suresh Pk, VIT, Vellore.

### Discussion Points

- ✓ Current Trends in Biotechnology
- ✓ Trends in Bio-sciences
- ✓ Trends in Bio-Medical Sciences
- ✓ Trends in Integrative Biology

17 – 22 Dec, 2020  
(Wednesday – Tuesday)  
Time : 09.30 AM – 5.30 PM



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**VIT**  
Vellore Institute of Technology

**Academic Staff College(ASC)**

In association with School of Design (V-SIGN)

Cordially invites you to



One-Week FDP Dec 21 – 25, 2020 (9.00 AM - 4.00 PM)

Faculty Coordinator : Dr. Saleem Ahmed

# User Experience Design

**Resource Persons :**

- Prof. Aboli Maydeo  
Senior UX Consultant,  
UX Mentor and Design Thinker  
ImaginXP, Pune
- Prof. Abhinav Paitandy  
Lead, UX Design, Nagarro Software  
ImaginXP, Gurgaon

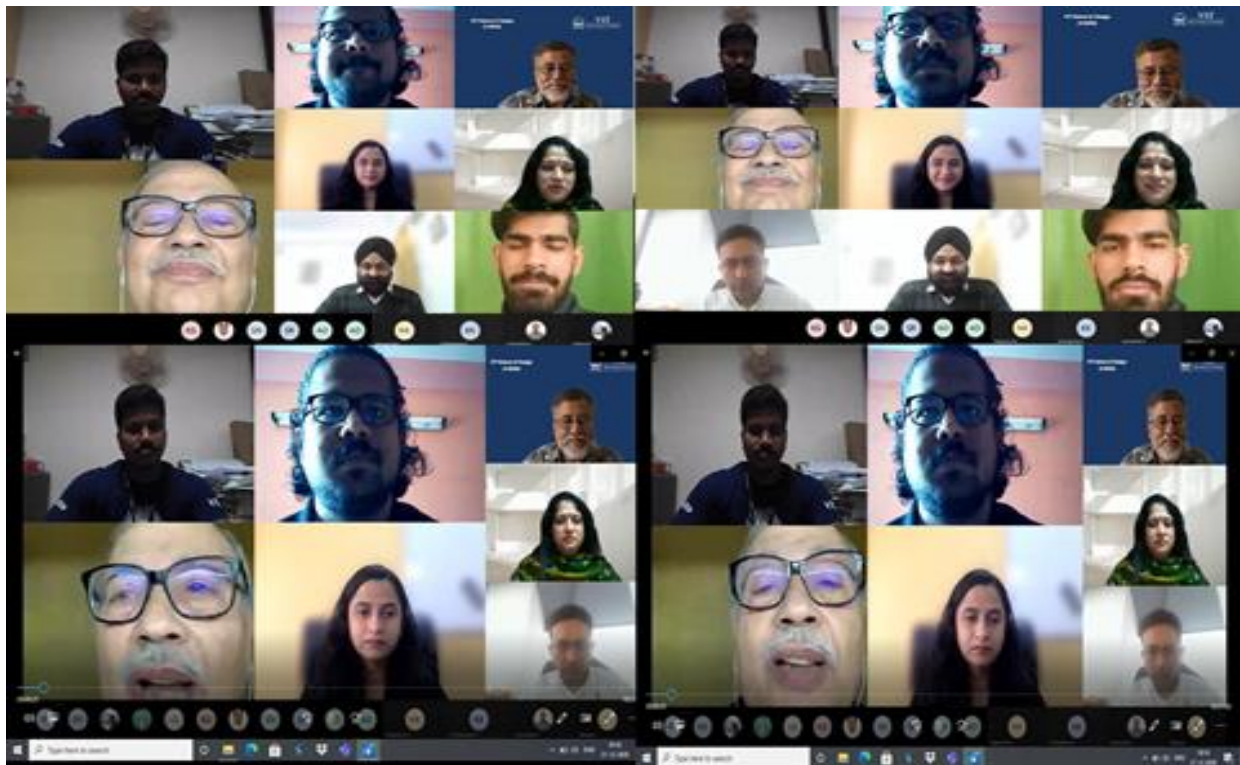
**Discussion Points :**


- ❖ Understanding UX Design
- ❖ Discover problems
- ❖ Define the problems
- ❖ Dream and come up with multiple solutions
- ❖ Design and develop the solutions
- ❖ Deliver the solutions





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**VIT**  
Vellore Institute of Technology

**Academic Staff College(ASC)**

In association with Dept of Technology Management (SMEC)

Cordially invites you to One-Week FDP

Faculty Co-ordinators : Dr. Suraj Kushe Shekhar, Dr. Remya L.



**From Research to Publications: A Holistic Overview**

**Resource Persons:**

Dr. Madhus Gayatri, PGIMER, Chandigarh.

Dr. Manmeet Kaur, PGIMER, Chandigarh.

Dr. Khuram Shahzad, University of Management and Technology, Lahore.

Dr. Venkatesan Chakrapani, C-ShaRP, Chennai.

Prof. Smita Mohendrale, Symbiosis International University, Pune.

Dr. Ganeshtaram C, Indian Institute of Plastiion Management Bangalore, Bangalore.


Dr. Sana Ullah Bhatta, University of Management and Technology, Lahore.

Dr. Soumit Nanda, Amity University, Gwalior.


Dr. Revikumar B, CLRI, Chennai.

**Discussion Points**

- Research Designs - quantitative, qualitative and mixed methods
- Theory and method selection
- Developing research proposals and managing funded projects
- Theoretical framework development
- Academic writing and publication
- Identifying closed and predatory journals
- Systemic Literature Review
- Role of statistics in scientific research
- NVIVO for Literature Review



**December 21 – 25, 2020**  
(Monday - Friday)  
10:00 am – 5:00 pm



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**VIT**  
Vellore Institute of Technology

**Academic Staff College(ASC)**

In association with School of Electronics Engineering (SENSE)

One-Week FDP (10.00 AM-5.00 PM)

Faculty Coordinator: Dr. Christopher Clement J




## Machine Learning Based 5G Wireless Communication Systems

**Resource Person :**

- Dr. Manoj K Shukla, HBT University, Kanpur
- Dr. Mithilesh Kumar, Rajasthan Technical University, Kota
- Dr. Sanjeev Kumar Raghuvanshi, IIT, Jharkhand
- Dr. Kiran Kumar Gurrula, NIT, Andhra Pradesh
- Dr. Shahid Mehraj Shah, NIT, Srinagar
- Dr. Seemanti Saha, NIT, Patna
- Dr. Surajit Kundu, NIT, Siddim
- Dr. Prakasam P, VIT Vellore
- Dr. Sankar Ganesh S, VIT Vellore
- Dr. Ramachandra Reddy, VIT Vellore

**Discussion Points**

- Recent trends in machine learning techniques
- Machine Learning applications in wireless communication systems

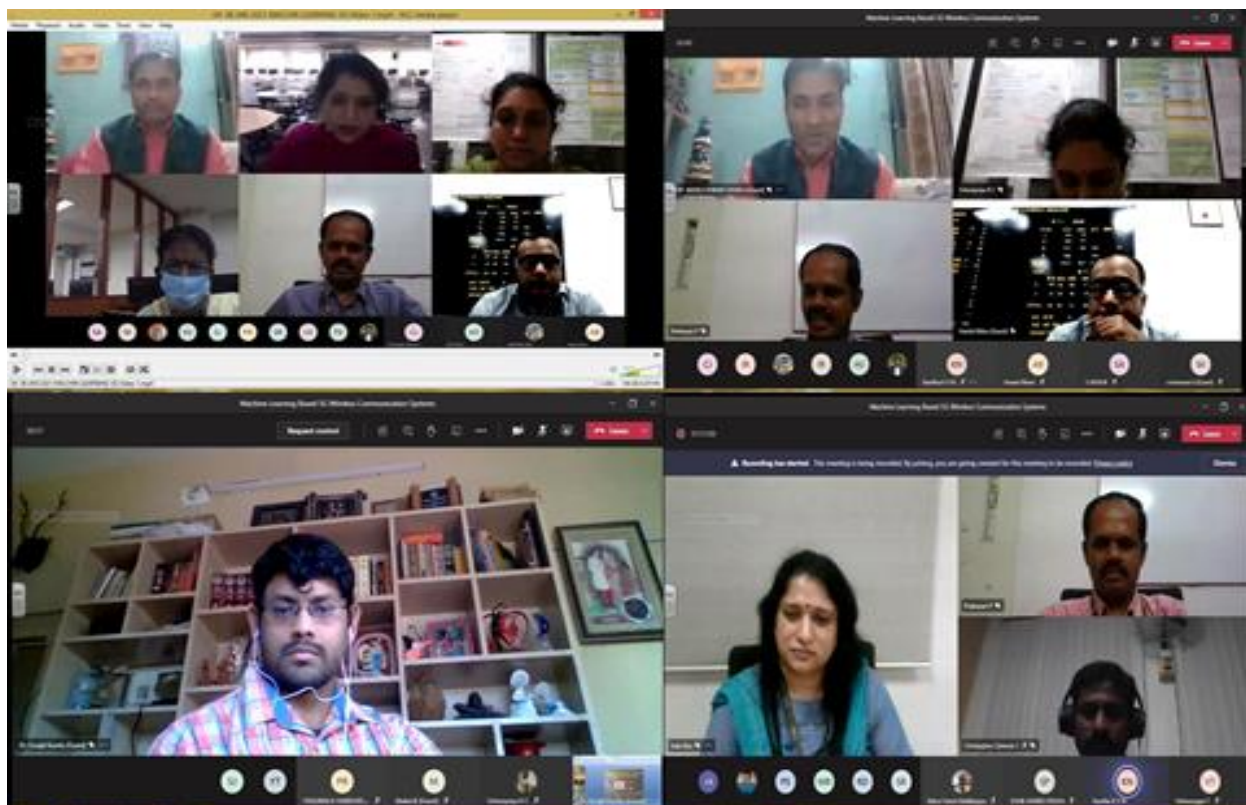


**04 – 08 January 2021**  
( Monday - Friday)



INSTITUTION'S INNOVATION COUNCIL  
University of Vellore

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Vellore Institute of Technology  
(Chartered by the University Grants Commission of India, 1970)

## Academic Staff College(ASC)



In association with School of Electronics Engineering (SENSE)

**One-Week FDP (9.30 AM-4.30 PM)**

Faculty Coordinators : Dr. Naveen Mishra , Dr. Avinash Chandra

# Recent Trends On Microwave And Photonics

**Resource Person :**

- Dr. Sushrut Das, IIT Jharkhand
- Prof. S K Koul, IIT Delhi
- Dr. A R Haish, IIT Kanpur
- Dr. Raghvendra Kumar Chaudhary, IIT Dhanbad
- Dr. Mrinal Sen, IIT Dhanbad
- Dr. Saptrishi Ghosh, IIT Indore
- Mr. Shekhar Saxena, Sterlite Technologies, Aurangabad
- Dr. Surya Kumar Pathak, Institute of Plasma Research Ahmedabad
- Mr. Pravakar Mallick, DRDO Chandipur
- Dr. Kundan Kumar, Sant Longowal Institute of Engineering and Technology, Sangrur
- Dr. Surinder Singh, Sant Longowal Institute of Engineering and Technology, Sangrur
- Dr. Santosh Kumar, Liaocheng University, China

Discussion Points

- Optical Fiber Based Plasmonics Sensors for Clinical Applications
- Radio-frequency Identification
- Introduction to high speed optical transmission systems
- Reconfigurable Microwave absorber based on Frequency selective surfaces
- RCS Stealth Technology
- Applications of photonic crystal in photonic integrated circuits
- Application of FSS in Waveguides
- Dielectric Resonator Antennas : Design and Analysis
- Millimetre Waves
- Ultrahigh Speed Optical Signal Processing Logic Based on SOA-MZI
- Substrate Integrated Waveguide Technology for 5G and IoT applications

**18 – 22 January 2021**  
( Monday - Friday )






**INSTITUTION'S INNOVATION COUNCIL**  
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**VIT**  
Vellore Institute of Technology

## Academic Staff College(ASC)

In association with Centre for Nanotechnology Research (CNR)

One Week FDP (9:30 AM - 4:30 PM)



**Coordinators : Dr. R. Mangayarkarasi, Dr. R. Vimala, Dr. Raja Sellappan, Dr. P. Sathyanarayanan, Dr. G. Swati**

**Recent Trends on Smart Nanomaterials and its Diversified Applications**

**Resource Persons :**


- Prof. Jeeva Sophia P, Bharathiar University, Coimbatore
- Dr. Jayasuragan Govindasamy, Institute of Nano Science and Technology, Mohali
- Dr. Maheshwar Arivandhan, Anna University, Chennai
- Dr. Sudarshana Deepa, National Institute of Technology, Tadepalligudem
- Dr. Sathish Marappan, CSIR-CERI, Karaikal
- Dr. T. Prakash, University of Madras, Chennai
- Dr. Ganes Aggarwal, Indian Institute of Technology, Mandi
- Dr. Rajesh Kumar Shanmugan, Sarveilla Dental College and Hospitals, Chennai
- Dr. Adil Khan, Sharada, DGT, Mohali
- Dr. Senthil Kumar Anand, National Institute of Technology, Tiruchirappalli
- Dr. Durgalakshmi Dhanasekaran, Anna University, Chennai
- Dr. Jeeva Kumar, IISER, Tirupur
- Dr. N. Vasudha, B.S. Abdul Rahman Crescent Institute of Science & Technology, Chennai
- Dr. K.T. Sathyan, CSIR-Institute of Minerals and Materials Technology, Bhubaneswar
- Dr. Sangita Roy, Institute of Nano Science and Technology, Mohali
- Dr. Rajashekar Gupta, NIT, Tirupur
- Dr. G. Bhagavantharam, CSIR NPL, New Delhi
- Dr. Saravananthi Reddy, Institute of Nano Science and Technology, Mohali
- Dr. D. Manohar, National Institute of Technology, Warangal
- Dr. P.S. Vijayalakshmi, Institute of Nano Science and Technology, Mohali
- Dr. Thiruganeshanathan G. Manirajagan, Anna University, Coimbatore

**Discussion Points :**

- Novel Strategies for Printed and Wearable 2D Materials based Devices
- The Synergism of Nanotechnology and Biomaterials Functional Organic Nanomaterials
- Nanostructured thermoelectric materials for energy harvesting from waste heat
- Nanobiosensor and Research: A review on its scope
- Nanostructured carbon-based materials for electrochemical energy storage
- Utilizing tunable dielectric properties of oxides nanomaterials
- Smart Polymers and Nano/Micro-Materials for Targeted Applications
- Biomedical Applications of Nano-based products
- Nano-enabled drug delivery and hyperthermia approaches for cancer management
- Chemistry towards Nanotechnology and its Applications
- Biomedical applications of Nanomaterials
- Recent Advances in Chiral Nanomaterials
- Synthetic and Biomedical Applications
- A Facile synthesis of highly ordered Silvernanoparticles as sensing probe for environmental analysis
- Development of diamond based hybrid materials for field electron emission and microplasma excitation application
- Effects of Defects on Mechanical Properties of Graphene using MD Simulation
- Analytical Techniques for Characterization of Nanomaterials and their structure
- Synthesis of Lanthanide Ions Doped Nanomaterials for Anti-counterfeiting and Luminescence Development
- Smart Materials and Devices Inspired by Nano-nanotechnology in food and agriculture
- Development of materials for energy storage and conversion


01-05 February 2021  
Monday – Friday

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**VIT**  
Vellore Institute of Technology



**Academic Staff College(ASC)**


In association with School of Electrical Engineering (SELECT)

One Week FDP (10:00 AM - 4:00 PM)



Energy Management & Planning In Smart Cities


01-05 February 2021  
Monday – Friday  
10:00 AM – 4:00 PM




**Discussion Points :**

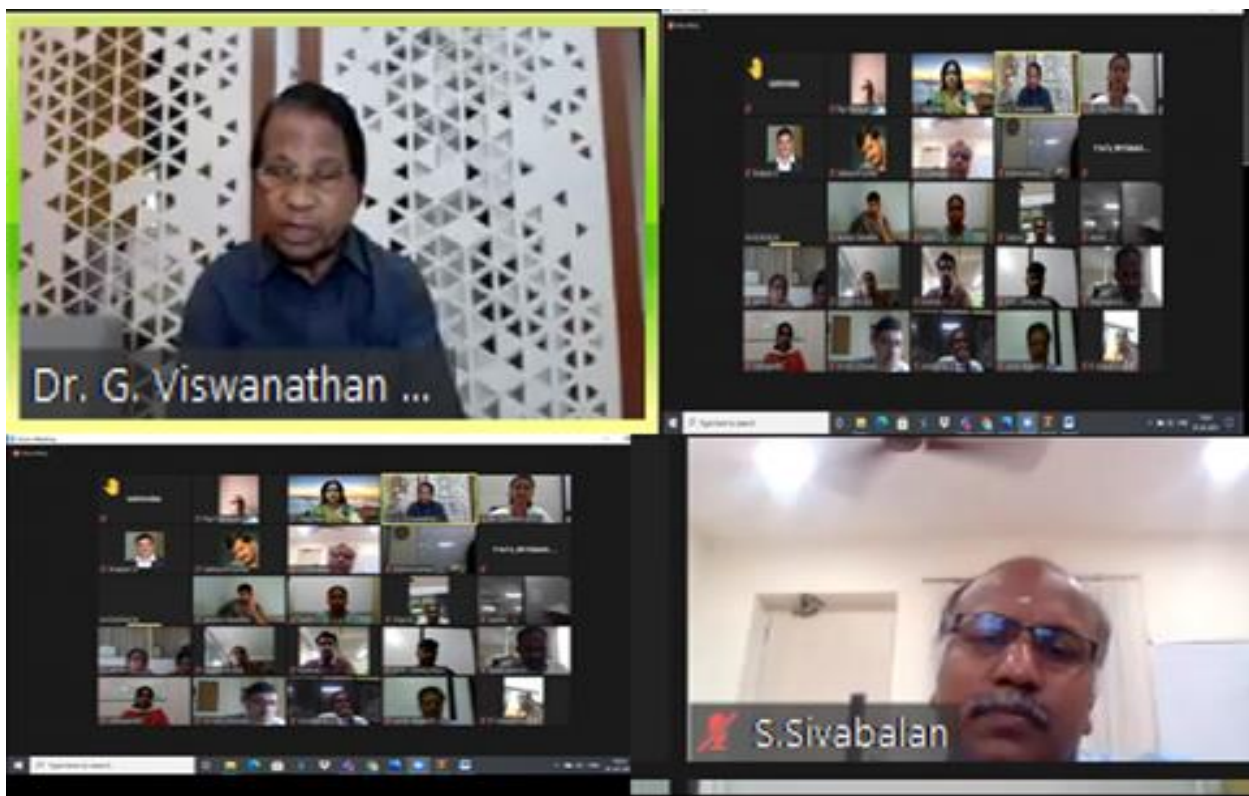
- ☐ Distributed Generation
- ☐ Integration of Renewable Energy sources in smart cities City
- ☐ Smart Energy Automation
- ☐ Electric Mobility in a Smart


**Coordinator :Dr. Kowsalya M**





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**VIT**  
Vellore Institute of Technology

*Academic Staff College(ASC)*

In association with School of Mechanical Engineering (SMEC)


Cordially invites you to



**Two-Week FDP March 01-13, 2021 (9.00 AM-5.00 PM)**


**Faculty Coordinators : Dr. Prabir Chandra Padhy, Dr. Remya L.**

## Entrepreneurship Development- VIT



**Discussion Points :**

- ❑ To equip teachers/trainees with skills and knowledge that are essential for inculcating entrepreneurial values in students, guiding and monitoring their progress towards entrepreneurial career.
- ❑ To expose the participating faculty members to the comprehensive Entrepreneurship Development process and equip them to coordinate/ organize entrepreneurship related activities in their Institutes.
- ❑ To equip them with requisite skills, knowledge and competencies for effective initiation of Entrepreneurship Awareness Camps and Entrepreneurship Development Courses in their institutions.




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**VIT**  
Vellore Institute of Technology

**Academic Staff College(ASC)**

In association with School of Electronics Engineering (SENSE)

*Cordially invites you to One-Week FDP.*




Faculty Coordinator : Dr. Kavitha K.V.N, Dr.Christopher Clement J, Dr. Saravanan K

## 6G and Beyond Wireless Communication Technologies

08-12 March 2021  
(Monday-Friday)  
10:00AM - 5:00 PM

**Resource Persons :**




**Dr. Stephen Ojo,**  
Professor,  
Department of Wireless Information Systems,  
Girne American University, Cyprus




**Dr. Agbotiname Lucky Imoize,**  
Professor,  
Department of Wireless Information Systems,  
University of Lagos, Nigeria

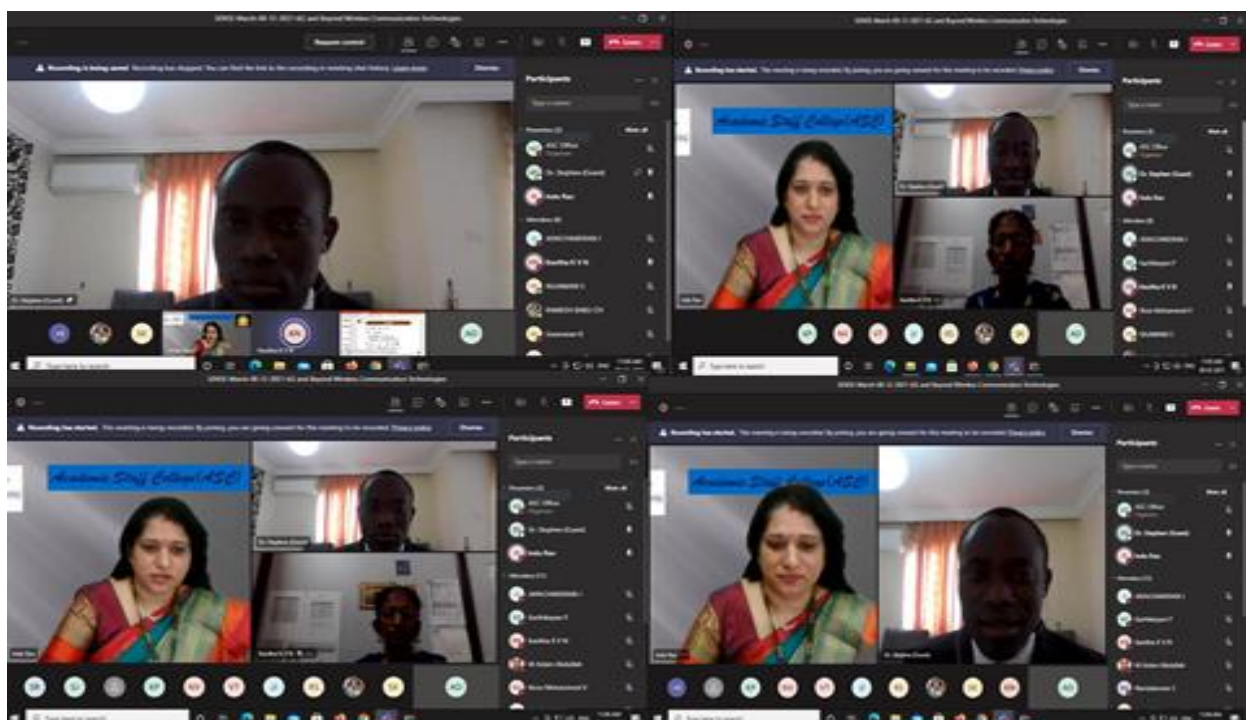
**Discussion Points :**


- ✓ Overview of 6G Wireless Communication
- ✓ Sustainability & Business Model
- ✓ 6G Communication Standards and Technologies
- ✓ Wireless Communication: Beyond the 6G Era





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**VIT**  
Vellore Institute of Technology

**Academic Staff College(ASC)**

In association with School of Electronics Engineering  
(SENSE)

Cordially invites you to



**One-Week FDP March 22 – 26, 2021 (9.00 AM-5.00 PM)**

**Faculty Coordinators : Dr. Sri Adibhatti Sridevi, Dr. Aarth**


**FDP on Nanoscale Device modeling and Simulation**


**Resource Person :**

- ❖ Dr. Maheshwaram Satish, Dept of ECE, NIT Warangal,
- ❖ Dr. Vadthya Narendar, Dept of ECE, NIT Warangal,
- ❖ Dr. Atul Kumar Nishad, Dept of ECE, NIT Warangal,

**Discussion Points :**

- ❑ Introduction to MOSFET and Scaling issues
- ❑ Modelling of FINFET





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## 5. Multidisciplinary Week-End Dialogue Series

ASC achieved a milestone by launching a Multidisciplinary week end Dialogue Series on October 4, 2020. Our honorable Vice Chancellor and pro vice chancellor inaugurated the series. Prof. R. Vaidyanathan from IIM Bangalore was the distinguished speaker in the inaugural event.

The list of week end dialogues conducted during 2020-21 is given below:

Sl. No.	Date	Title of Event	No of Faculty
1	4 Oct 2020	Post-Pandemic World? Emerging Scenario: Economic and Social	113
2	11 Oct 2020	'Research Planning' for a University Faculty: Maximize your Research Output	305
3	16 Oct 2020	Developing Emotional Strength during Pandemic Times	164
4	18 Oct 2020	Multidisciplinary Research for Societal Benefits	214
5	23 Oct 2020	Pitfalls of Bigdata	84
6	1 Nov 2020	Using Online Tools for Student Engagement and Assessment	184
7	8 Nov 2020	Dialogue with VIT's World Top 2% Scientists	74
8	22 Nov 2020	Sharing Experiences from Institutional Leadership	152
9	29 Nov 2020	Role of Teaching Learning Center in Educational Institutions	300
10	5 Dec 2020	Blockchain Technology	122
11	6 Dec 2020	Dialogue with VIT's World Top 2% Scientists	95
12	12 Dec 2020	The Empathetic Teacher	108
13	13 Dec 2020	Targeting Targeted Therapies for Blood Cancers	103
14	20 Dec 2020	Hybrid Faculty: Offline and Online Teaching	87
15	3 Jan 2021	Homemade Video Production for Professors	126
16	9 Jan 2021	Session on Importance of Quality in Teaching & Learning	50
17	9 Jan 2021	Essentials of Research Writing and Using Mendeley reference Manager	322
18	22 Jan 2021	Un-bore Yourself: Say No to Listener – Disengagement	121
19	30 Jan 2021	Web-of- Science – User Education Program	116
20	31 Jan 2021	Academic Leadership Competencies	34
21	6 Feb 2021	Optimization with MATHLAB	190
22	13 Feb 2021	EndNote: A software tool to manage your citations when writing a paper	75
23	13 Feb 2021	R & Oracle	117
24	14 Feb 2021	Scripting a Travelogue: Monasteries in Tibet & Kailas Manasarovar Region	45
25	20 Feb 2021	Selecting a Journal for Publication: Criteria for Consideration	83
26	27 Feb 2021	Applications of Data Science and Analytics: An Industrial Approach	67
27	07 Mar 2021	Quality in Education	46
28	13 Mar 2021	Essentials of IPR, Patent searching and patent drafting	148
29	20 Mar 2021	Strategies of generate revenue from patents	93
30	26 Mar 2021	Art of Commercially successful Patents	42
		<b>Total</b>	<b>3780</b>



**Post-Pandemic World ? Emerging Scenario: Economic and Social**



**Dr. G. Viswanathan**  
Chancellor, VIT



**Mr. Sankar Viswanathan**  
Vice President (Vellore Campus)



**Ms. Kadhambari S. Viswanathan**  
Assistant Vice - President  
Vellore Campus



**Dr. S. Narayanan**  
Vice Chancellor i/c &  
Pro-Vice Chancellor



**Prof. Dr. R. Vaidyanathan,**  
Professor, I.I.M. Bangalore (Retd)  
Cho S Ramaswamy-Visiting Chair:  
Public Policy, Sastra University

- Global / Indian Challenges
- Changes in Work / Life Styles
- New Emerging Areas

**4th October, 2020**  
**(Sunday)**  
**11:00 am – 12:30 pm**



**Prof. Dr. Indu Rao,**  
Director,  
Academic Staff College.  
V.I.T. Vellore

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## 'Research Planning' for a University Faculty: Maximize Your Research Output ....!!

11 October 2020  
(Sunday)  
10:00 am – 12:30 pm

*Resource Person:*  
**Dr. Amitava Mukherjee**  
*Professor and Researcher*  
*CNBT*

- Publications
- Impact factor
- Journal ranking
- Citations
- Open access Publications
- Researcher Profile
- Funded Projects



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## Developing Emotional Strength during Pandemic Times

16 October 2020  
(Friday)  
5.30 pm – 6:30 pm

- Mind Full to Mindful
- Tools for enhancing emotional strength
- One letter makes all the difference



*Resource Persons :*  
Dr. Ranjini Manian & Mrs. Lakshmi Subramanian

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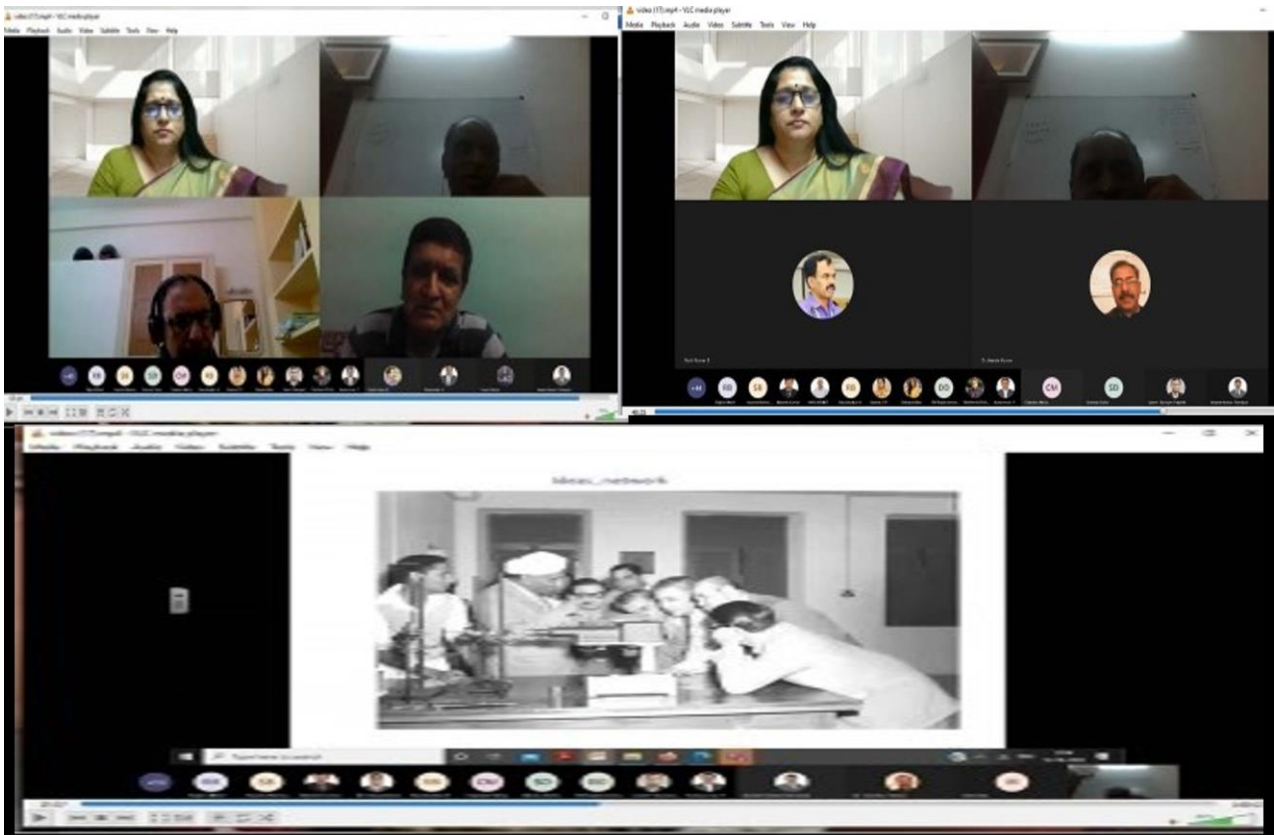


## Multidisciplinary Research for Societal Benefits

18 October 2020  
(Sunday)  
11.30 am – 12:30 pm

- Research for Societal Applications
- Creating Time and Focus on Research
- Case Studies

Resource Person :  
**Dr. Vijayaraghavan R**  
Professor, SAS





# PITFALLS OF BIGDATA



Resource Person:

**Dr Vicki Bier**

*Professor, Industrial and Systems Engineering  
Wisconsin State University Madison*

1. Effective use of big data in Risk Analysis
2. Importance of Anonymization
3. Drawing conclusions from "Big data" from an extremely small number of events
4. False positives or Spurious correlations emerging from big data.



**23 October 2020  
(Friday)  
6:30 pm – 7:30 pm**

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## Using Online Tools for Student Engagement and Assessment

01 November 2020  
(Sunday)  
9:30 am – 10:30 am

- ☐ How to prepare for student engagement online.
- ☐ Group work in online environment.
- ☐ Exam integrity in online teaching

Resource Person:

**Dr Ketul C Popat**  
Professor and Director,  
Colorado State University,  
USA



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## Dialogue with VIT's World Top 2% Scientists

08 November 2020  
(Sunday)  
11:00 am – 12:00 noon



Dr. Nilanjana Mitra  
(SBST)



Dr. Aswani Kumar  
Cherukuri (SITE)

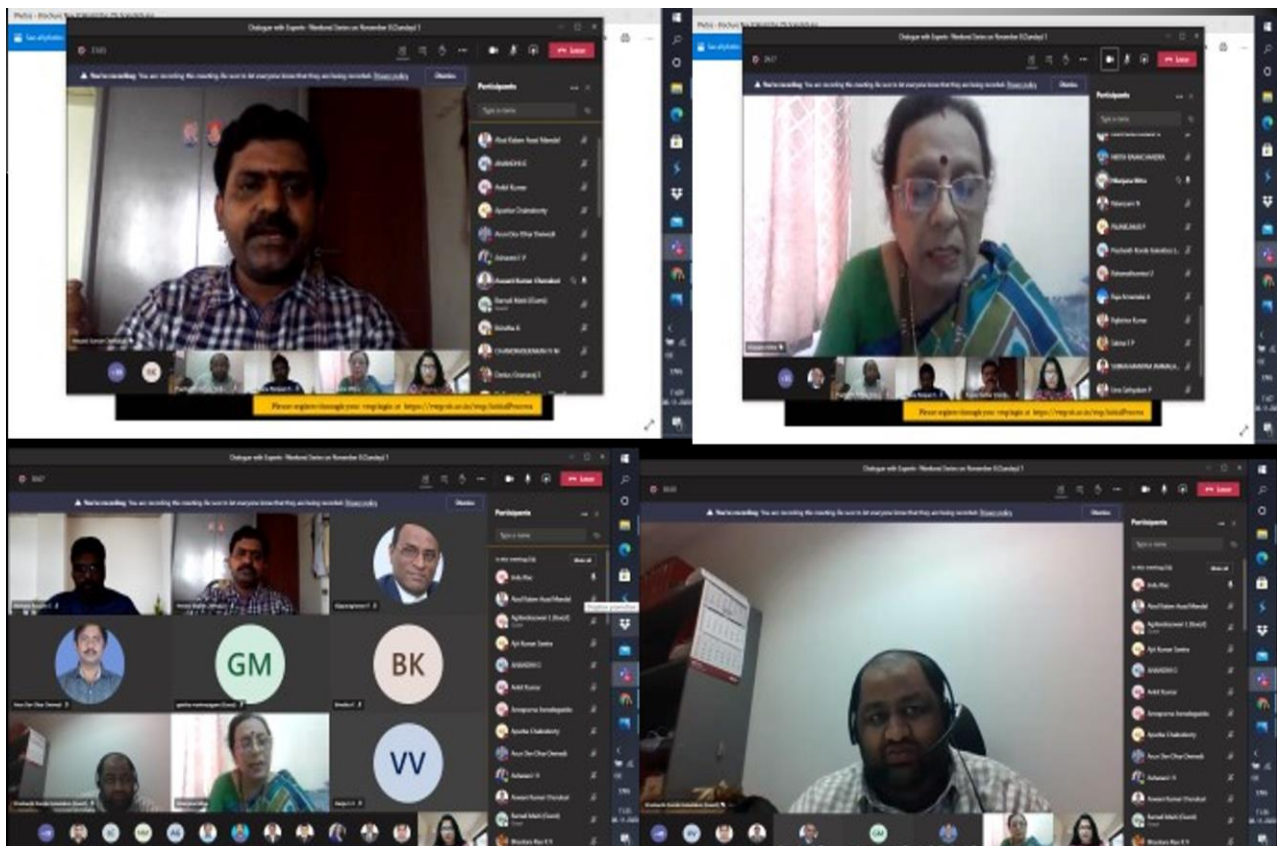


Dr. Mohana Roopan  
(SAS)



Dr. Prashanth  
Konda (SMEC)

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## Sharing Experiences from Institutional Leadership

22 November 2020  
(Sunday)  
11:00 am – 12:00 noon

- Understanding the dynamics of leading
- Differentiating Leadership from Managership
- Dichotomies between theory and practice
- Things that matter in institutions



Resource Person:  
**Dr. Sunil Thomas Chandy**  
Professor, Former Director of CMC,  
ITC Medical Director, Delhi



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## Role of TLC and Faculty Development in Educational Institutions

29 November, 2020  
Sunday  
11:00 AM - 12:00 Noon

- Teaching Learning Center (TLC)
- Faculty Development



**Dr. Shreepad Karmalkar**  
Professor & Head, TLC,  
Indian Institute of Technology Madras



**Dr. Edamana Prasad**  
Professor & TLC Member,  
Indian Institute of Technology Madras.



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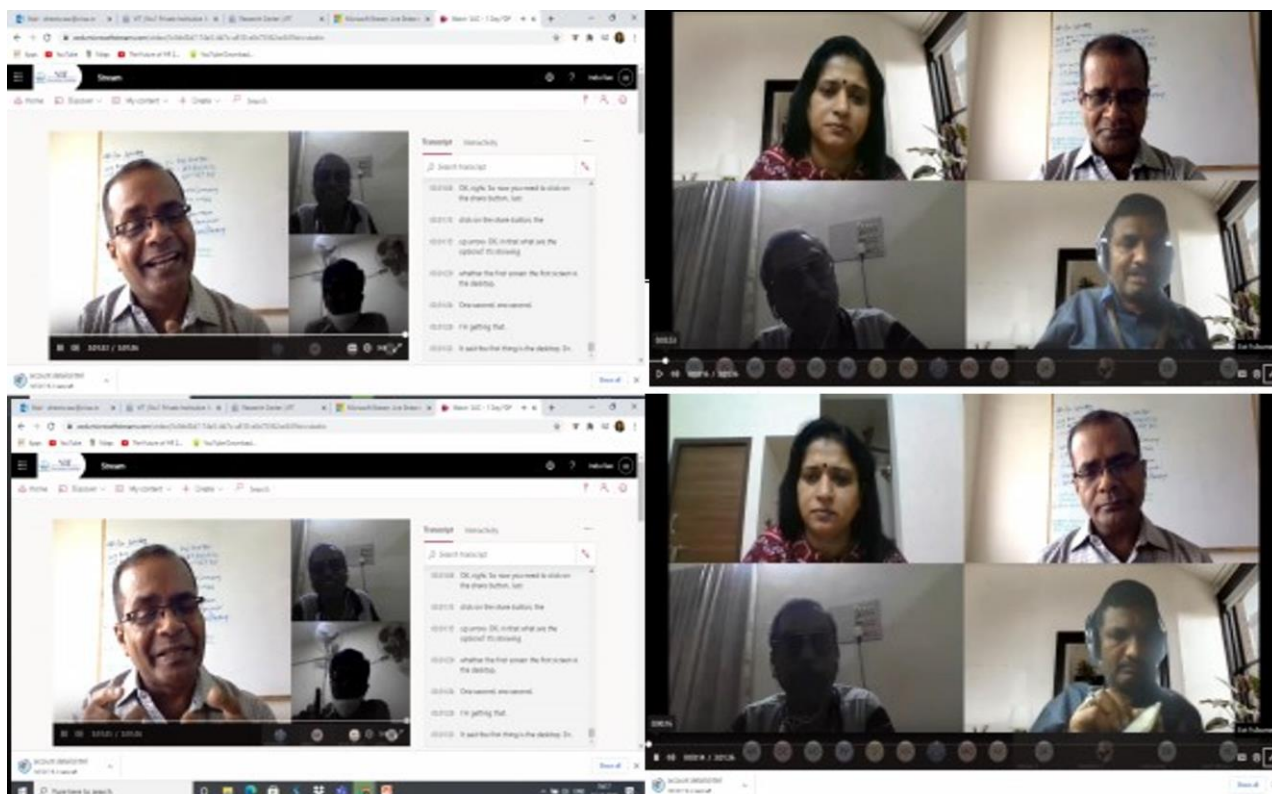
## Business caught between Sustainability and Profitability

03 December 2020  
(Thursday)  
9:30 am – 4:30 pm

### Resource Person :

Dr S. Narasimhan,  
M.S, Ph. D Coach,  
Consultant and Mentor ,  
M/s The Lyceum Management Consulting

- ❖ Sustainable practice is a win-win.
- ❖ It's socially responsible and creates shareholder value.
- ❖ To be sure







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## Academic Staff College(ASC)

In association with School of Computer Science and Engineering (SCOPE)



*Weekend Series- Dialogue with Experts  
(One Day FDP)*

**Coordinators :Dr. T.M. Navamani , Dr. A. Arivoli**

# Blockchain Technology

**05 December 2020**  
(Saturday)  
9:30 am – 4:30 pm

- ☐ Introduction to Blockchain Technology
- ☐ Concepts and Industry Use, Cases of Blockchain
- ☐ Hyperledger Fabric and Docker Image Insallation
- ☐ Running a Sample Blockchain network

*Resource Persons:*

- Naren Krishnan Senior IT Architect,
- Balasekar Natarajan Blockchain Developer,  
*IBM Global Services*





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## Academic Staff College(ASC)



*Weekend Series- Dialogue with Experts*

# Dialogue with VIT's Faculty in World Top 2% Scientists List

**06 December 2020**  
(Sunday)  
11:00 am – 12:00 noon



**Expert Speakers:**



**Dr. Arun Kumar S**  
SCOPE



**Dr. C. George Priya Doss**  
SBST



**Dr. Nanthagopal. K.**  
SMEC




**Dr. Ashok. B**  
SMEC



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**Academic Staff College(ASC)**


In association with School of Mechanical Engineering (SMEC)

*Weekend Series- Dialogue with Experts*



**Coordinators : Dr. DEEPAK KUMAR BISWAL,**

# The Empathetic Teacher




**Discussion Points**

- ❖ Understanding of the natural and joyful learning process.
- ❖ Understanding of how in the process of growing up the natural learning process gets crippled.
- ❖ Learn a method of connecting with your own deeper parts.
- ❖ Learn to hold space for empathetic listening.
- ❖ By knowing yourself better, know your students better. Duration 3

**Resource Person :**  
**Mr. Manoj Pavithran**  
Educator, Auroville,  
Auroville Campus Initiative, Puducherry,,  
India, 605101

**12 December 2020**  
(Saturday)  
**10:00 am – 04:00 pm**



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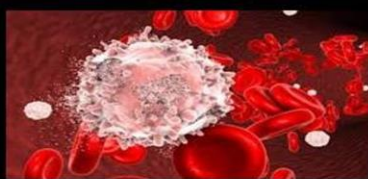


13-December-2020  
(Sunday)  
8:30 AM - 9:30 AM

Faculty Coordinator :  
**Dr. P. K. Suresh, SBST**

# THERAPIES FOR BLOOD CANCER

- Conventional Therapies for Cancer
- Single and/or in combination Therapies
- Targeted therapies -Pros and the Cons



**Speaker :**  
Prof. Muthusamy Natarajan  
Professor, Center for Cancer Research  
Ohio State University, USA







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*Academic Staff College(ASC)*

*Weekend Series- Dialogue with Experts*



## Hybrid Faculty: Offline and Online Teaching

20-December -2020  
(Sunday)  
10:30 AM - 11:30 AM



### Speaker:

Dr . Pramath Raj Sinha  
Founder & MD, Harappa Education;  
Founder & Trustee, Ashoka University;  
Founding Dean, Indian School of Business

### Discussion Points:

- The New Normal in Education
- Offline and Online Teaching
- Hybrid Faculty
- Institution Building



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## Academic Staff College(ASC)

In association with School of Design (V-SIGN)

cordially invites you to

### Weekend Series - Dialogue with Experts

Faculty Coordinator : Prof. Surendheran K



## Homemade Video Production for Professors

### Discussion Points :

- How to make quality lecture videos from home
- Shooting and Lighting Tips
- Sound sync and editing tips
- Producing final video and publishing to students/www



### Resource Person:

Mr. Arjun Pillai

Video Designer, Freshworks, Chennai

03 January 2021

(Sunday)

10:00 AM - 05:00 PM



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## Session on Importance of Quality in Teaching & Learning

### Discussion Points :

- 1. How and how much difference can teacher make
- 2. Importance of Training on Teaching-Learning Process

09 January 2021  
(Saturday)  
09:00 am – 10:30 am




**Dr Shreepad Karmalkar**  
Professor of Electrical Engineering  
Indian Institute of Technology Madras



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***Academic Staff College(ASC)***

In association with Periyar EVR Central Library

***Weekend Series- Dialogue with Experts***




## Essentials of Research Writing and Using Mendeley Reference Manager

**Discussion Points :**


- Author Tools
- Using Mendeley Reference Manager
- Essentials of Research Writing

09 January 2021  
(Saturday)  
10:00 AM - 12:30 PM



**Expert Speaker :**

**Mr. Vishal Gupta**  
Customer Consultant- South Asia,  
Elsevier



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Education for the Twenty-first century

## Academic Staff College(ASC)

In association with School of Mechanical Engineering (SMEC)


*Cordially invites you to*



**Faculty Coordinator :Dr. Jose S**

# Un-bore yourself: Say No to Listener- Disengagement

**Resource Person :**




**Prof Sophia Gruner**  
Lecturer, School of Technology and logistics  
Fontys University of Applied sciences,  
Netherlands



**22 January 2021**  
**(Friday)**  
**7:00 PM – 8:00 PM**

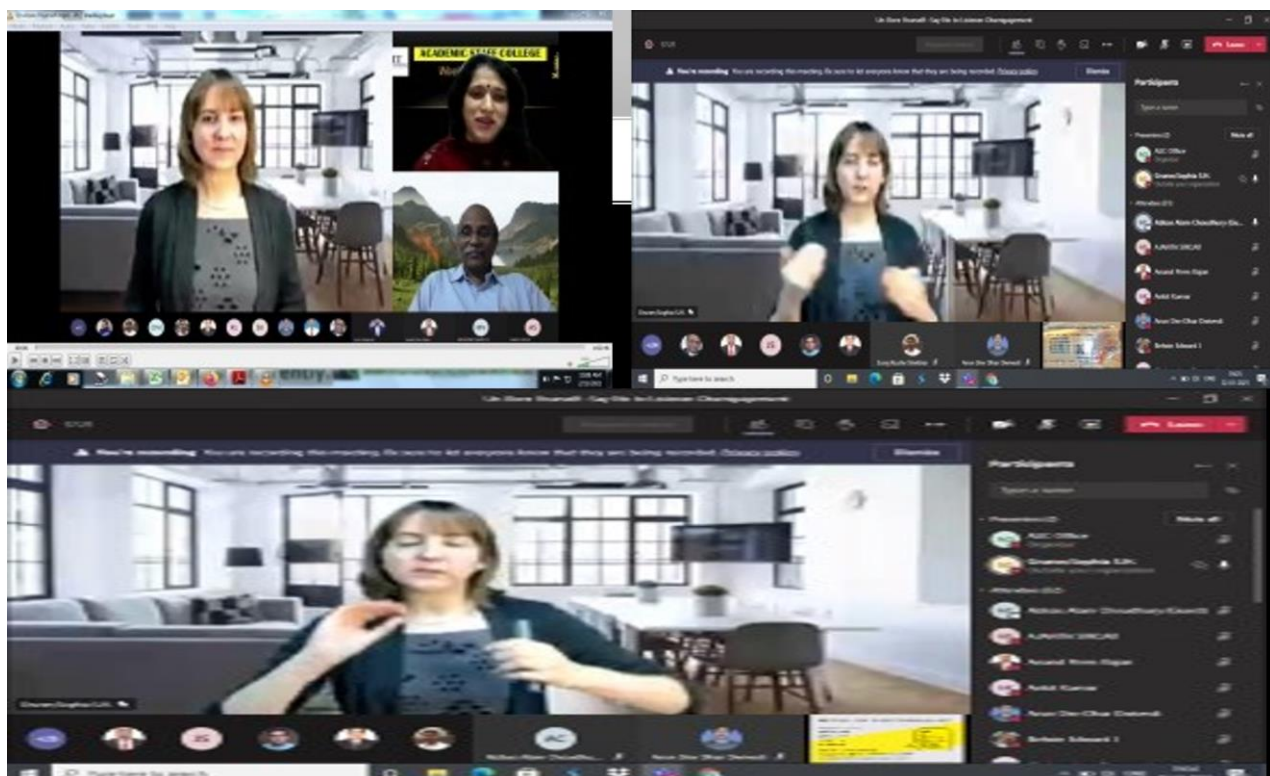
*Discussion Points*

- *Create perspectives on how to connect deeper with your audience*
- *Gain insights in how to drive energy and motivation for your listeners*
- *Receive tools to stimulate interaction and mitigate distraction*
- *Look at strategies how to engage cross-culturally*




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**Academic Staff College(ASC)**

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## Web-of-Science - User Education Program

**Discussion Points:**

- ❖ How to access Web-of-Science.


30 January 2021  
(Saturday)  
10:30 AM - 12:00  
Noon



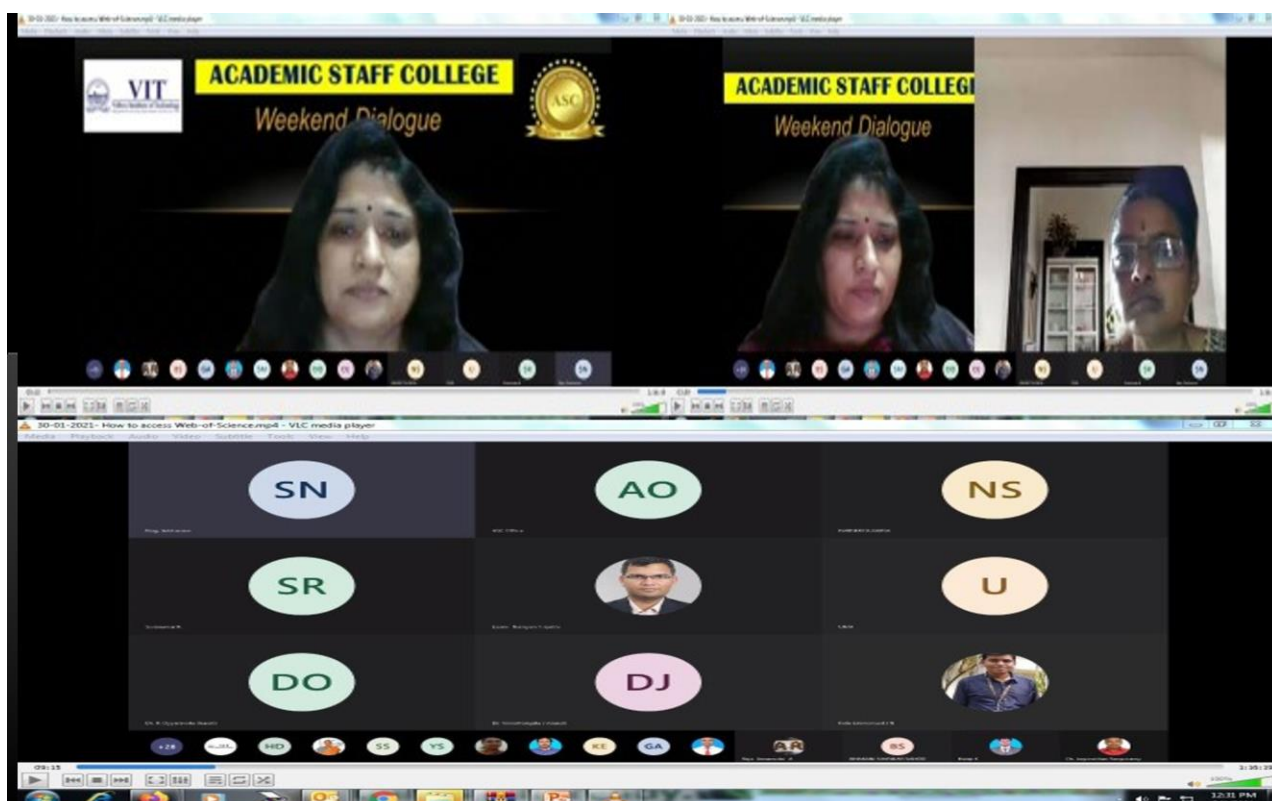


**Resource Person:**

Dr. Subhasree Nag  
Senior solution consultant  
Clarivate Analytics, Mumbai  
India - 400059



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## Academic Leadership Competencies

### Discussion Points:

- ❖ Personal Competencies
- ❖ Interpersonal Competencies
- ❖ Cognitive Competencies
- ❖ Educational Competencies.

31 January 2021  
(Sunday)  
10:30 AM - 12:00 Noon



### Resource Person:

*Prof. Satbeesh Kumar S L*

Ex- Principal Consultant,  
Head -Content and Technical Delivery (All India)  
Wipro Flagship program/Talent Next Initiative (2008-2019)



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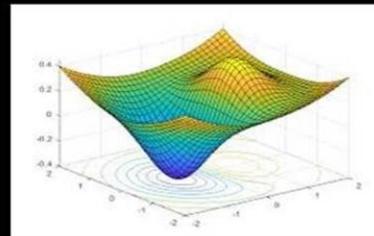


Program Coordinators: Prof. Renold Elsen S, Prof. Senthil Kumaran S, Prof. Naveen J

# Optimization with MATLAB

## Discussion Points :

- After attending this workshop
- Faculties will be comfortable in Setting up optimization problems using MATLAB and will Identify the best work flow



## Resource Person:




**Prof. Akhil Gopinath**  
Education Customer Success Engineer  
MathWorks India Private Limited,  
Bangalore

**06 February 2021**  
**(Saturday)**  
**10:00 AM - 12:00 Noon**








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## EndNote: A software tool to manage your citations when writing a paper

*Discussion Points:*


- Get the EndNote program
- Add citations to EndNote from common databases and websites
- Manage citations
- Finding and attaching pdf's

13 February 2021  
(Saturday)  
10:30 AM - 12:00 Noon





**Resource Person:**  
Dr. Subhasree Nag  
Senior solution consultant  
Clarivate Analytics,  
Mumbai




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## Selecting a Journal for Publication: Criteria for Consideration

**Discussion Points:**


- Editorial Quality
- Peer Review Process
- Ethics
- Editorial Board Members
- Journal Reputation/Business Model
- Author Rights & Copyright
- Indexing Status

**Resource Person:**

**Dr. Subhasree Nag**  
Senior solution consultant  
Clarivate Analytics  
Mumbai



**20 February 2021  
(Saturday)  
10:30 AM - 12:00 Noon**



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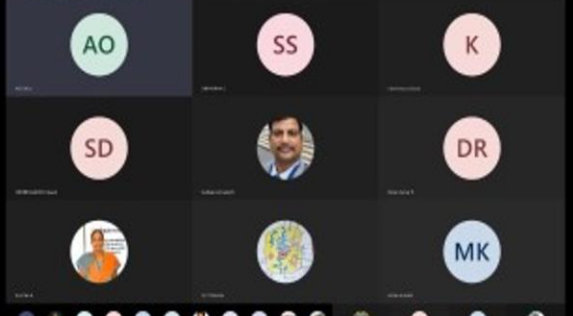
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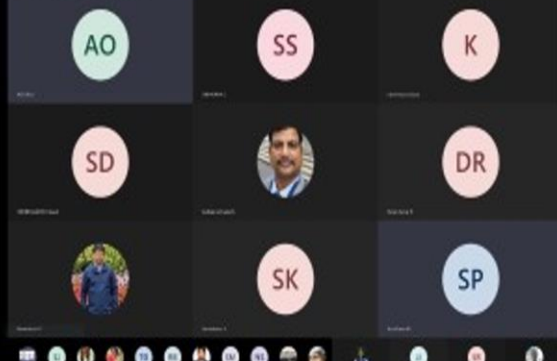
Microsoft Teams


**Lib-20-02-2021- Selecting a Journal for Publication: Criteria for Consideration**


2021-02-20 05:18 UTC

Hosted by: ASC Office | Co-hosted by: ASC Office | Guest: General










**ACADEMIC STAFF COLLEGE**

*Weekend Dialogue*





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## Academic Staff College(ASC)

In association with School of Advanced Science(SAS)

Cordially invites you to

Weekend Series - Dialogue with Experts



Coordinator : Dr.Venkataramana B

### APPLICATIONS OF DATA SCIENCE AND ANALYTICS: AN INDUSTRIAL APPROACH

**Discussion Points :**

- ✓ Defining the Industrial and business problem to be solved
- ✓ Training and Assessing a model's performance and making improvements

27 February 2021  
(Saturday)  
9:30 AM - 12:30 PM

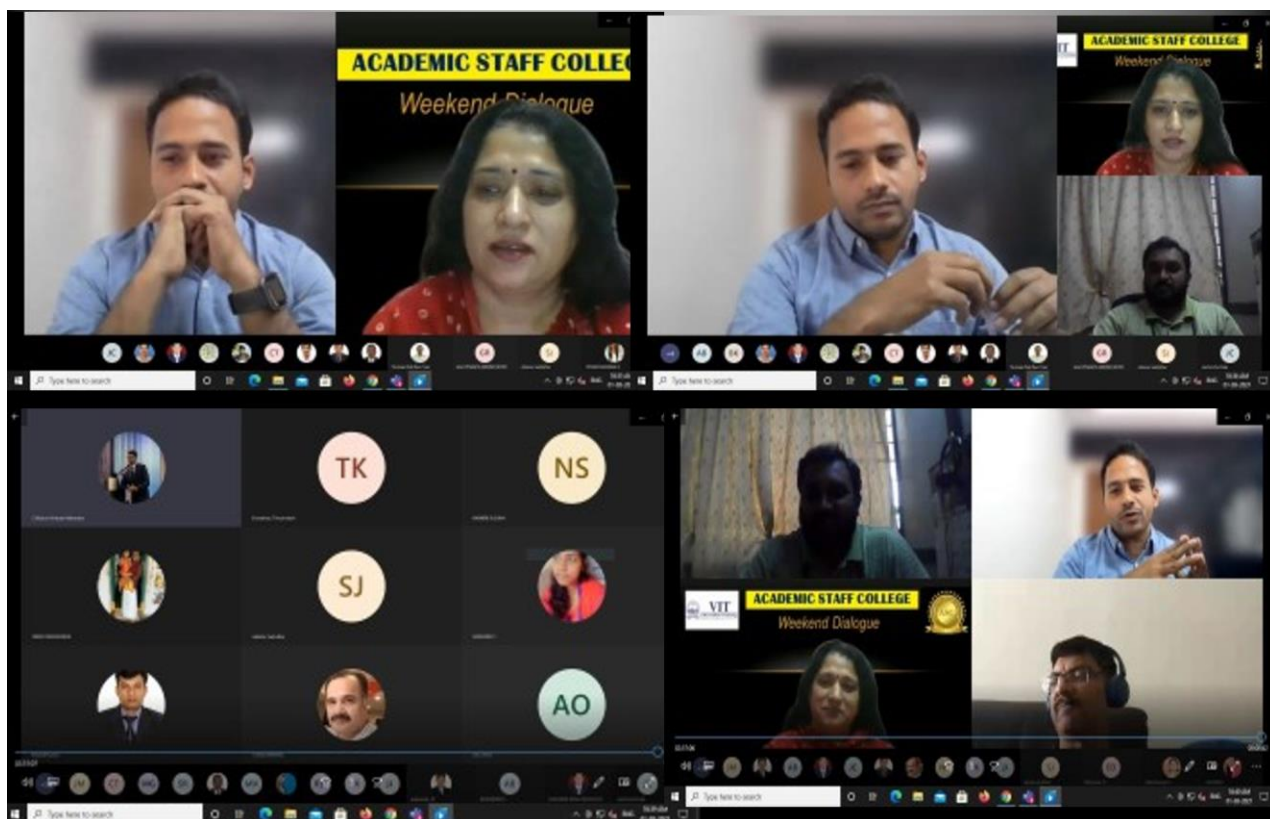




**Resource Person:**  
 Prof. Thirumalesh Konathala  
 Director,  
 Data Science & Analytical Services Cardlytics,  
 Visakhapatnam



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In association with School of Information Technology and Engineering (SITE)

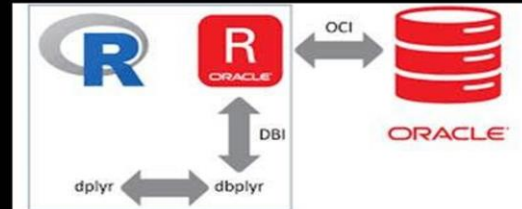
*Weekend Series - Dialogue with Experts*



# R & Oracle

## Discussion Points :

- R basics
- SQL basics
- Installations
- R and Oracle connectivity
- Analyzing Oracle data with R



## Resource Person:

- ❖ Dr. Ranichandra C
- ❖ Dr. Senthilkumar N C  
SITE, VIT, Vellore

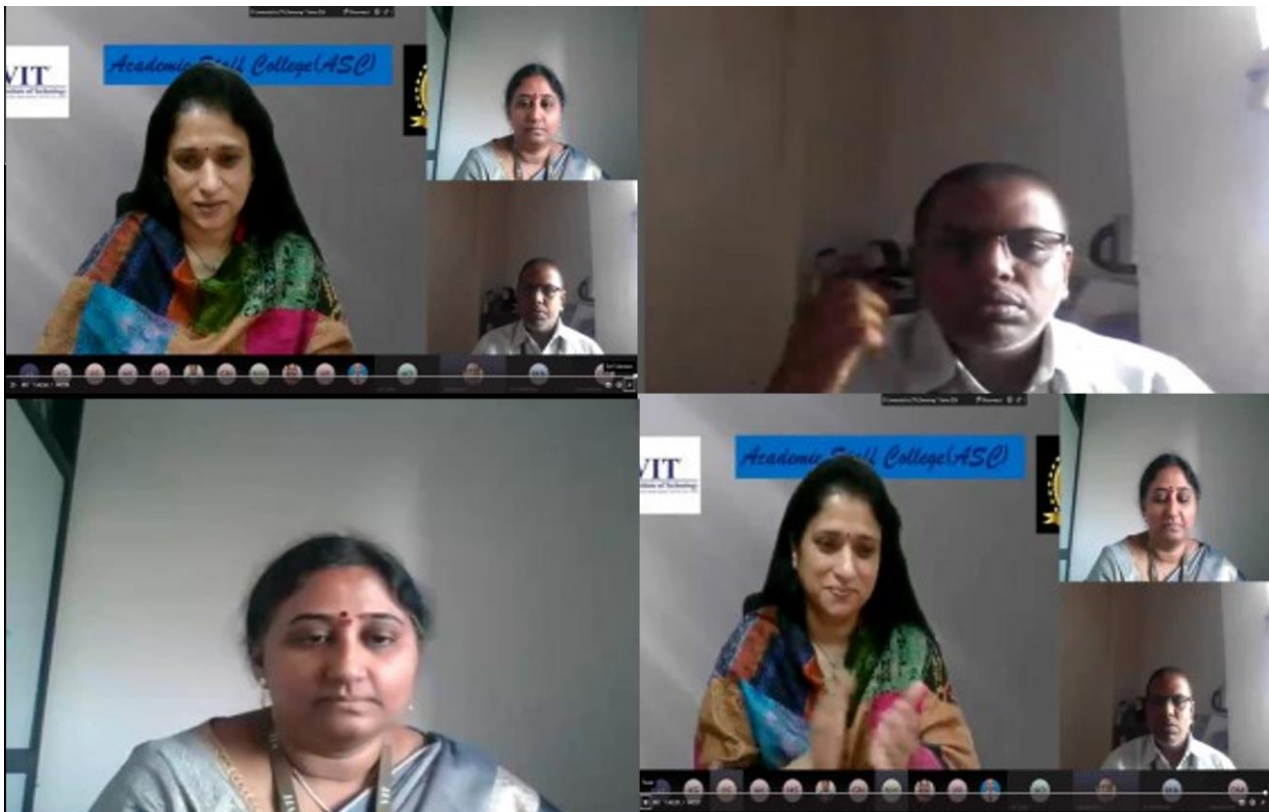
13 February 2021

(Saturday)


10:00 AM - 05:00 PM



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**Weekend Series - Dialogue with Experts**



**Scripting a Travelogue:  
Monasteries in Tibet and the Kailas Manasarovar Region**


**14 February 2021  
(Sunday)  
11:00 AM - 12:30 PM**



**By Dr. Satyajit Ghosh**  
**Professor (SMEC), VIT Vellore**

**Discussion Points :**


- ☐ How the Silk Route shaped Civilizations
- ☐ Testing the pulse of endurance in difficult pilgrimages
- ☐ How this benefits present-day Industrial visits with students



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## Academic Staff College(ASC)

In association with School of Bio Sciences and Technology (SBST)

*Cordially Invites you to*

*Weekend Series - Dialogue with Experts*




Program Coordinators: Dr. Mythili S, Dr. Gayathri M


# Essentials of IPR, Patent searching & Patent Drafting

**Discussion Points :**


- How to move from idea to invention to patent?
- Checking the patentability of the invention
- Who can submit a patent?
- Filing the patent application

**13 March 2021**  
**(Saturday)**  
**9:00 AM - 12:30 PM**



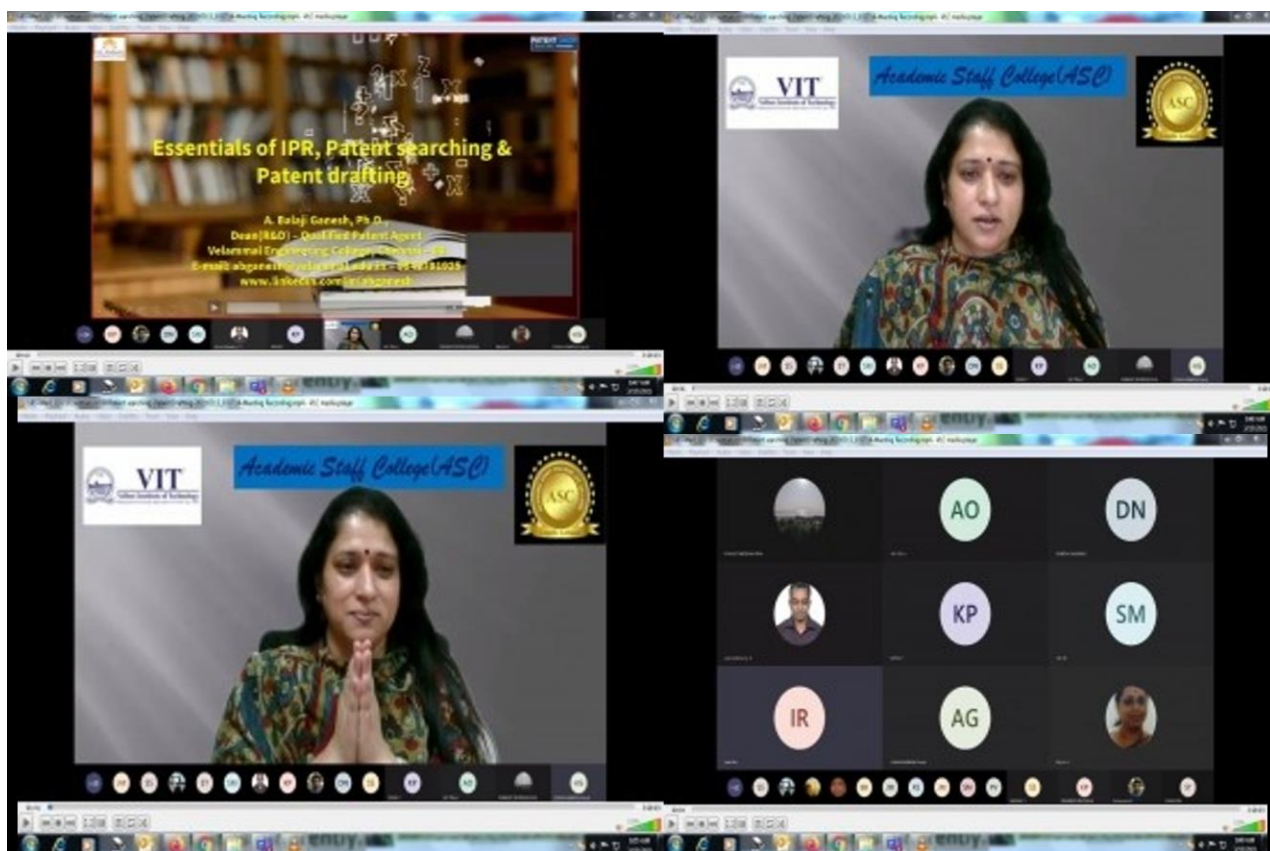


**Resource Person:**  
**Dr. Balaji Ganesh**  
*Dean (Research & Development), CSE*  
*Velammal Engineering College, Chennai*




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Program Coordinators: Dr. Mythili S, Dr. Gayathri M


# Strategies to Generate Revenue from Patents



**Discussion Points :**


- ☐ Difference between a patent agent and a patent attorney.
- ☐ Patent drafting.
- ☐ How to make money from a patent?

**Resource Person:**




**Dr. Balaji Ganesh**  
Dean (Research & Development), CSE  
Velammal Engineering College, Chennai


20 March 2021  
(Saturday)  
9:00 AM - 12:30 PM





Please register through your vtop login at <https://vtop.vit.ac.in/vtop/initialProcess>



Dr. Balaji Ganesh, Ph.D.,  
Dean (R&D) - Co-Ordinated Patent Agent (IN PA 1641)  
Velammal Engineering College, Chennai - 60  
Mobile: 9442791420 / 9842791420  
Email: balajiganesh@velengg.ac.in







Dr. Balaji Ganesh, Ph.D.,  
Dean (R&D) - Co-Ordinated Patent Agent  
Velammal Engineering College, Chennai - 60  
Mobile: 9442791420 / 9842791420  
Email: balajiganesh@velengg.ac.in



## 6. Regular FDPs (Half/One/ Two/ Three days) Faculty Development Program

In 2020-21 all regular FDP's in half day, one, two day and three-day formats were conducted in fully online mode using Microsoft teams meetings. The three days Faculty Development Program was conducted for 4 training sessions for 206 faculty members. The two days Faculty Development Program was conducted for 1 training sessions for 42 faculty members. The Online Faculty Development Program was conducted by ASC 41 FDPs 9116 faculty members attended so far.

The list of all regular FDP's is given below:

Sl. No.	Date	Topic	No. of Faculty
1	23 Apr 2020	How to conduct online Classes using MS-team	250
2	24 Apr 2020	How to conduct online Classes using MS-team	250
3	4 May 2020	Remote learning and on-line teaching	276
4	4 May 2020	Remote learning and on-line teaching	385
5	5 May 2020	Remote learning and on-line teaching	247
6	11 May 2020	How to safeguard ourselves from Cyber Attacks during Corona times?	95
7	25 May 2020	Writing a Research Project Proposal	300
8	2 Jun 2020	To be an Effective Teacher	250
9	7 Jul 2020	Using MS teams effectively for online class	245
10	11 Jul 2020	Effective use of Moodle for Online class	775
11	26 Jul 2020	Research proposal writing for funding agencies in India and Abroad	250
12	26 Jul 2020	Understanding and learning online tools for effective online classes	242
13	2 Aug 2020	Fall 2020 CAT:1 Assessment and Evaluation	876
14	5 Aug 2020	Clarifying concerns related to CAT 2020	330
15	8 Aug 2020	CAT 2020 - Clarifying technical concerns in MS	287
16	16 Sep 2020	Recent artificial tissues	37
17	18 Sep 2020	Digital tools, services and best practices for scholarly communication	261
18	20 Sep 2020	Belonging power point using digipads	415
19	22 Sep 2020	How to conduct interesting interactive effective online classes	315
20	27 Sep 2020	Open sources educational resources	263
21	7 Oct 2020	Effective proctoring at VIT for new students batch of 2020	150

22	2 Nov 2020	3D Printing: 2 %Selection of Materials and Techniques	94
23	11 Nov 2020	Proctoring and Counselling	101
24	23 Nov 2020	Project Based Learning in VIT	148
25	3 Dec 2020	Business caught between Sustainability and Profitability	46
26	8 Dec 2020	X Ray Diffraction Applied to the Field of Materials Science and Engineering	155
27	21 Dec 2020	Story Telling-In the class room	136
28	21 Dec 2020	Importance of Internal Academic and Administrative Audit	143
29	25 Dec 2020	How to Conduct Online FALL-2020 FAT Exam?	200
30	25 Dec 2020	How to Conduct Online FALL-2020 FAT Exam?	201
31	26 Dec 2020	How to Conduct Online FALL-2020 FAT Exam?	201
32	26 Dec 2020	How to Conduct Online FALL-2020 FAT Exam?	201
33	26 Dec 2020	How to Conduct Online FALL-2020 FAT Exam?	201
34	27 Dec 2020	How to Conduct Online FALL-2020 FAT Exam?	221
35	27 Dec 2020	How to Conduct Online FALL-2020 FAT Exam?	221
36	17 Feb 2021	Turnitin Training program	163
37	23 Feb 2021	Recent Advances in Solar Energy Applications	12
38	24 Feb 2021	Springer Nature Online User Awareness and Author Workshop	110
39	10 Mar 2021	Torrefaction of Lignocellulosic biomass for bioenergy production	22
40	11 Mar 2021	Quantum Computing	62
41	24 Mar 2021	Best practices in High performance	43
42	30 Mar 2021	RemoteXs: A Gateway to Accessing Your Digital Resources	38
		<b>Total</b>	<b>9218</b>

## How to Conduct Online Classes using Microsoft Teams

### Resource Person:

**Mr. Siddharth Arora,**  
Analyst, Advisory Services ,  
Ernst & Young LLP  
Golf View Corporate, Tower B,  
Gurgaon



23 & 24 April 2020  
(Thursday & Friday)  
11:00 AM - 01:00 PM





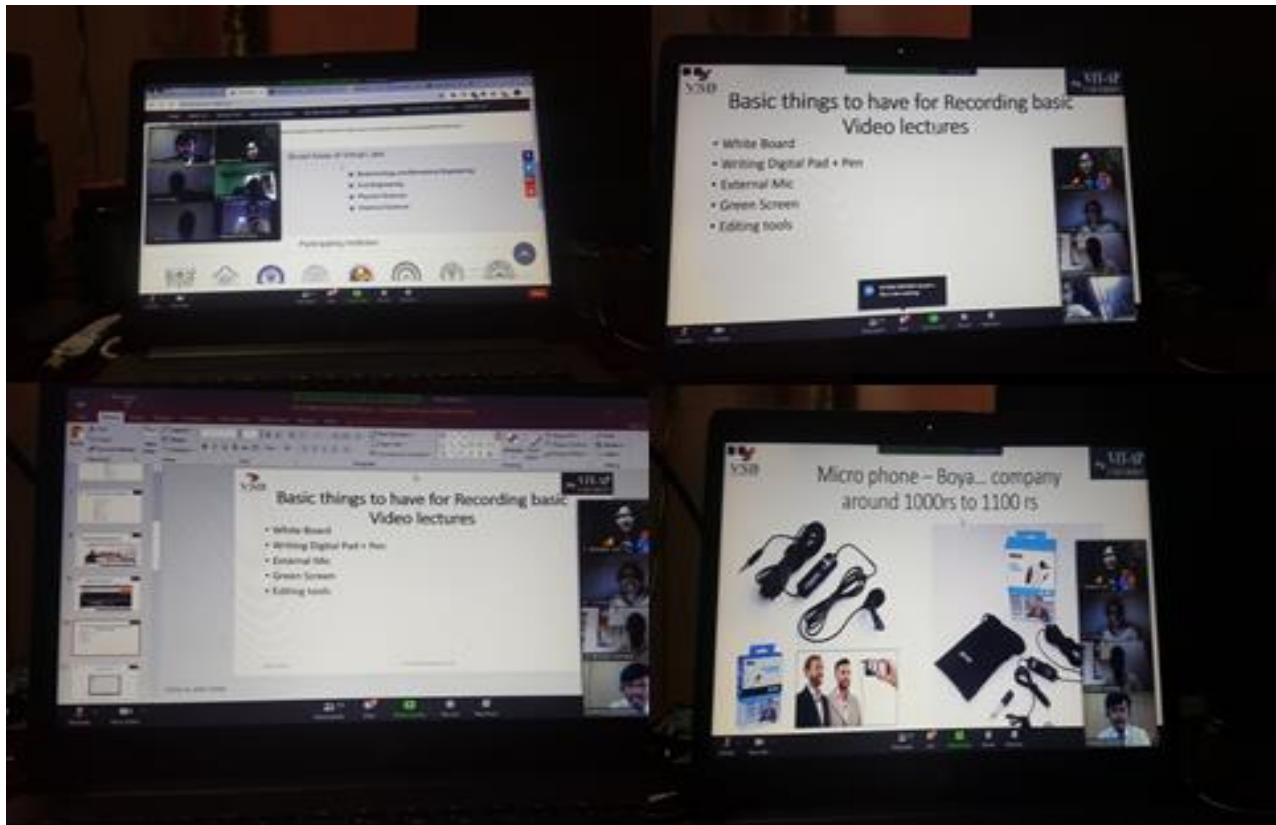
## Remote Learning and Online Teaching - Open source ICT Tools



**4 & 5 May 2020**  
**(Monday - Tuesday)**  
**10:00 AM - 11:00 AM**  
**4:00 PM - 5:00 PM**

**Resource Person:**

**Prof. Samuel Johnson**  
**VIT-AP School of Business,(VSB)**  
**VIT-AP University,**  
**Amaravati**





**VIT**  
Vellore Institute of Technology

*Academic Staff College(ASC)*



On-line FDP

**How to Safeguard Ourselves from Cyber Attacks during Corona Times ?**



**11 May 2020  
(Monday)**

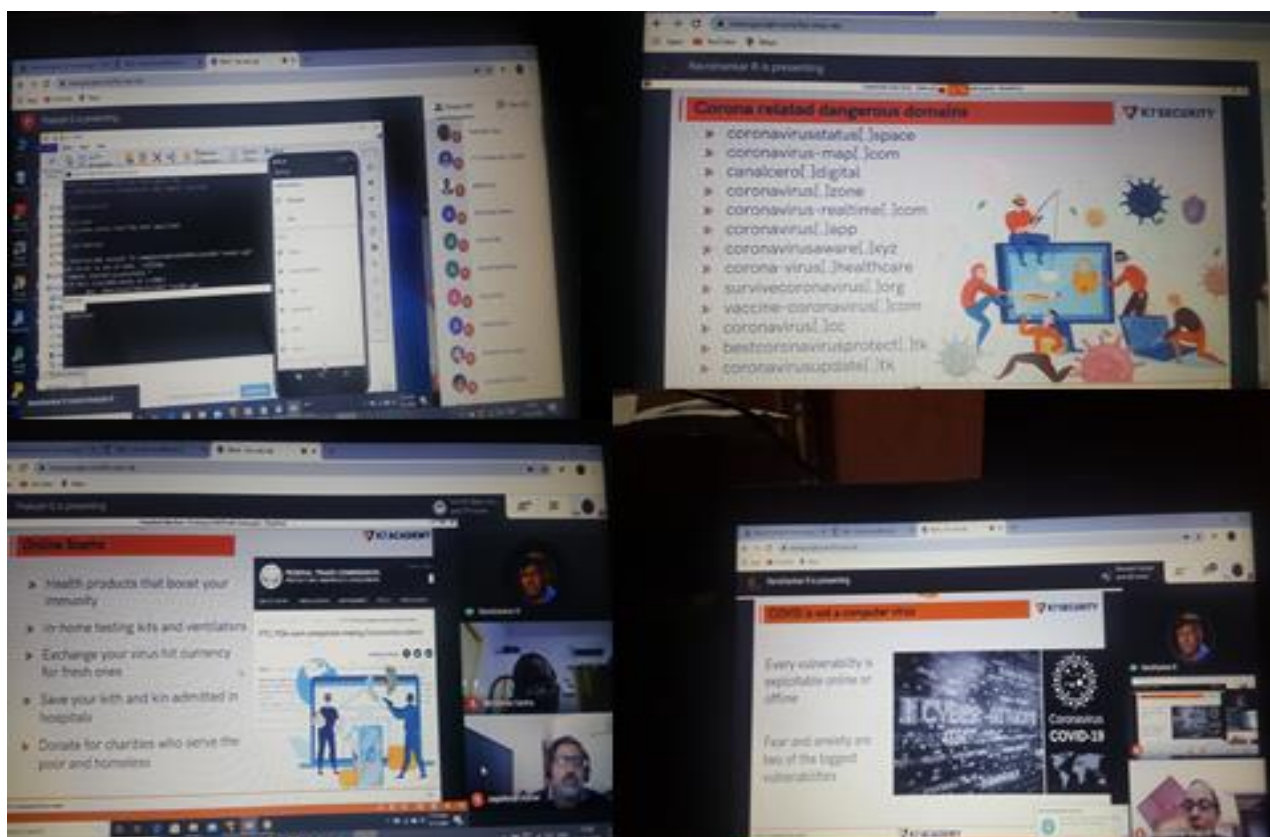
**10:00 AM - 11:00 AM**

**4:00 PM - 5:00 PM**



**INSTITUTION'S  
INNOVATION  
COUNCIL**  
(Creating an open culture)

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On-line FDP

# Writing a Research Project proposal

**Resource Person :**  
**Prof. Claire Komives,**  
 San Jose State University,  
 One Washington Square





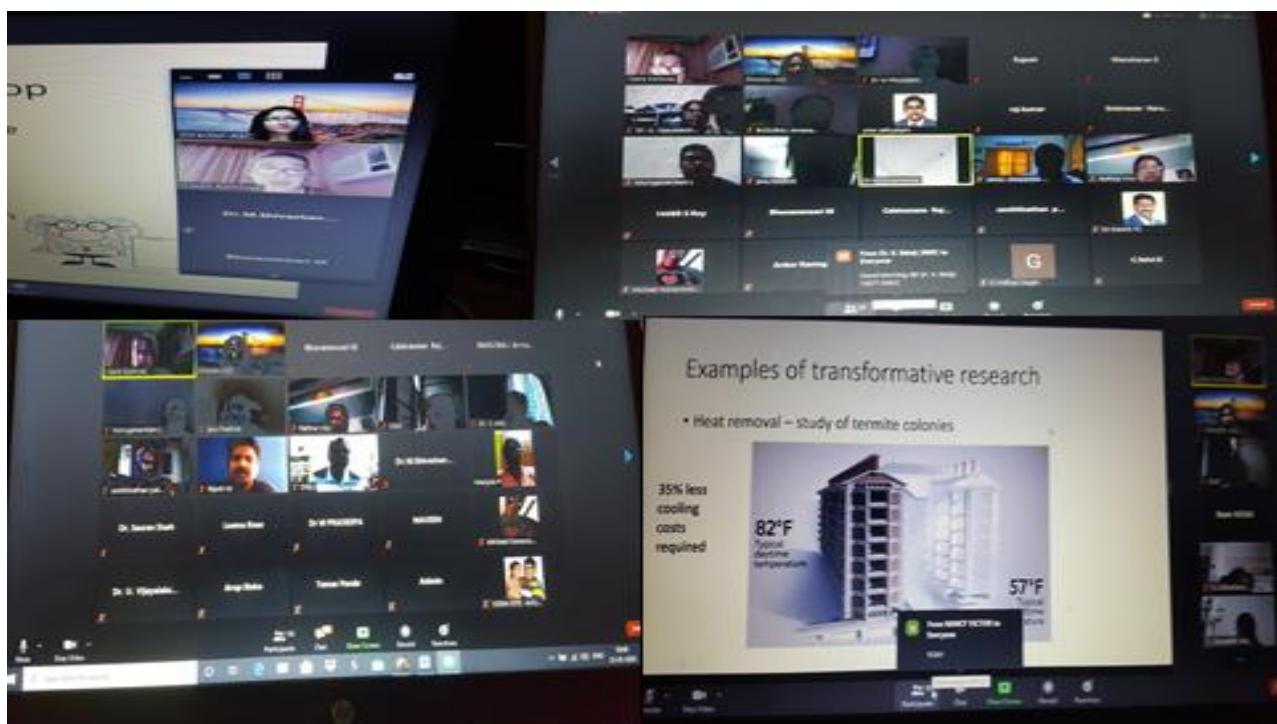
RESEARCH

**25 May 2020**  
**(Tuesday)**  
**10:30 am – 12:00 noon**

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**INSTITUTION'S  
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# To be an Effective Teacher

A word cloud shaped like a right hand, palm facing forward. The words are arranged to form the fingers and palm. Key words include "EFFECTIVE", "TEACHER", "MOTIVATE", "ENTHUSIASM", "QUALITY", "PASSION", "MAXIMIZE", "LEARNING", "GROWTH", "IMPACT", "INSPIRE", "CHALLENGE", "INNOVATE", "COLLABORATE", "EMPOWER", "ENGAGE", "FACILITATE", "GUIDE", "SUPPORT", "ENCOURAGE", "INSPIRE", "CHALLENGE", "INNOVATE", "COLLABORATE", "EMPOWER", "ENGAGE". The words vary in size and color, with some appearing more frequently than others.



INSTITUTION'S  
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COUNCIL  
*Drinking at the Well*

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## Using MS Teams Effectively for Online Classes

### Resource Person :

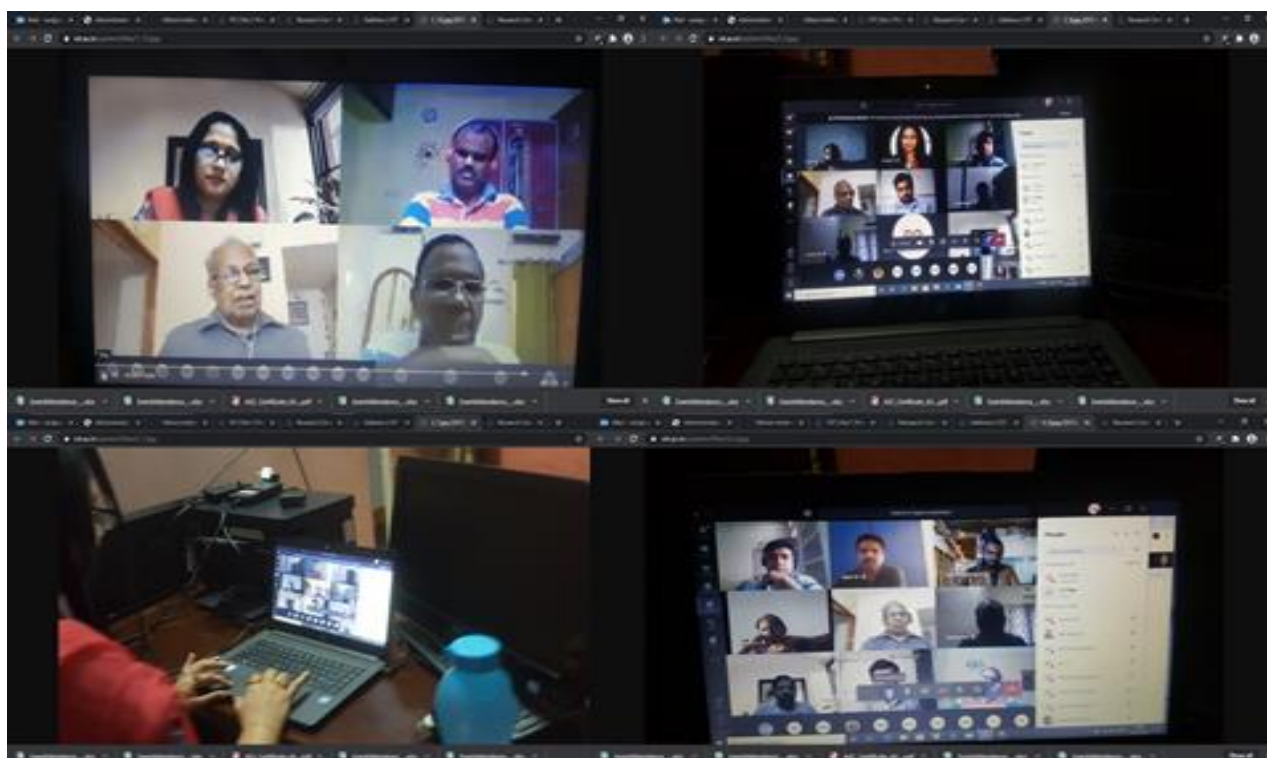
- Dr. Anthoniraj A  
Associate Professor Grade 2,  
School of Computer Science and Engineering (SCOPE)  
VIT, Vellore
- Prof. John Sushil Packiaraj  
Assistant Professor (Senior),  
School of Civil Engineering (SCALE)  
VIT, Vellore



**07 July 2020  
(Tuesday)  
11:00 am – 12:30 pm**



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## Effective use of Moodle for Online Classes

**11 July 2020  
(Tuesday)  
10:00 am – 1:00 pm**



### Resource Person :

❑ **Dr. Anthoniraj A**

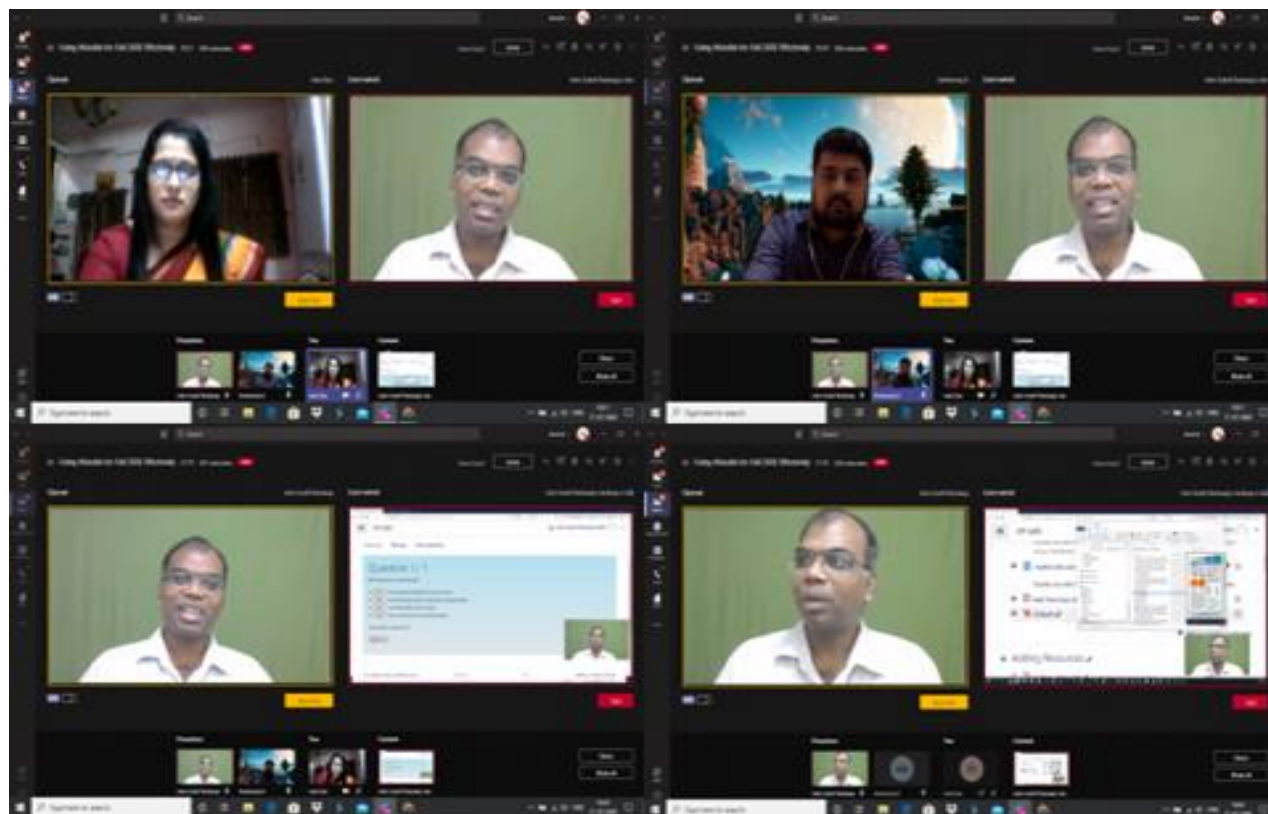
Associate Professor Grade 2,  
School of Computer Science and Engineering (SCOPE)  
VIT, Vellore

❑ **Prof. John Sushil Packiaraj**

Assistant Professor (Senior),  
School of Civil Engineering (SCALE)  
VIT, Vellore



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# Research Proposal Writing for Funding Agencies in India & Abroad

## Resource Person :

Dr. Nishant Kumar  
Visiting Fellow, Zoology  
University of Oxford, England  
United Kingdom, OX13SZ

**26 July 2020  
(Sunday)  
4:00 pm – 5:00 pm**

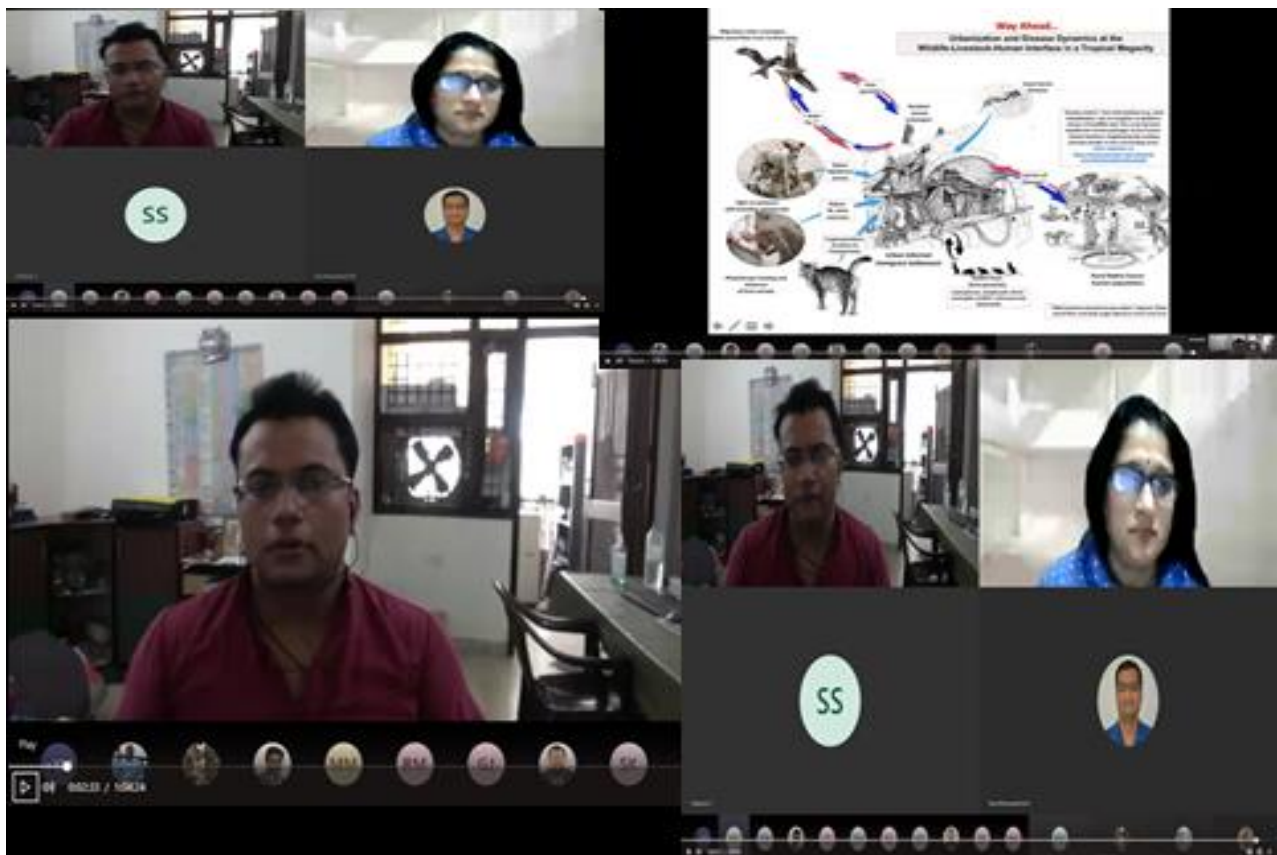


## Discussion Points :

- Challenges in writing Research Proposal writing to funding agencies in India & Abroad



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Academic Staff College (ASC)



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Online FDP

## Fall 2020 CAT-1: Assessment and Evaluation



Discussion points :

- How to conduct CAT-1 in Fall 2020-Policy
- How to conduct CAT-1 in Fall 2020-Tools

Resource Person :

□ Dr. Jayaraman G  
Higher Academic Grade  
School of Bio Sciences and Technology  
VIT, Vellore

□ Dr. Nageshwar Rao Ragi  
Assistant Professor Sr. Grade I  
School of Advanced Sciences  
VIT, Vellore

02 August 2020

(Sunday)

11:00 am – 12:00 noon

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# Academic Staff College (ASC)



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Vellore Institute of Technology

Online FDP

## Fall 2020 CAT-1: Assessment and Evaluation

05 August 2020  
(Wednesday)  
11:00 am – 12:00 noon

### Resource Person :

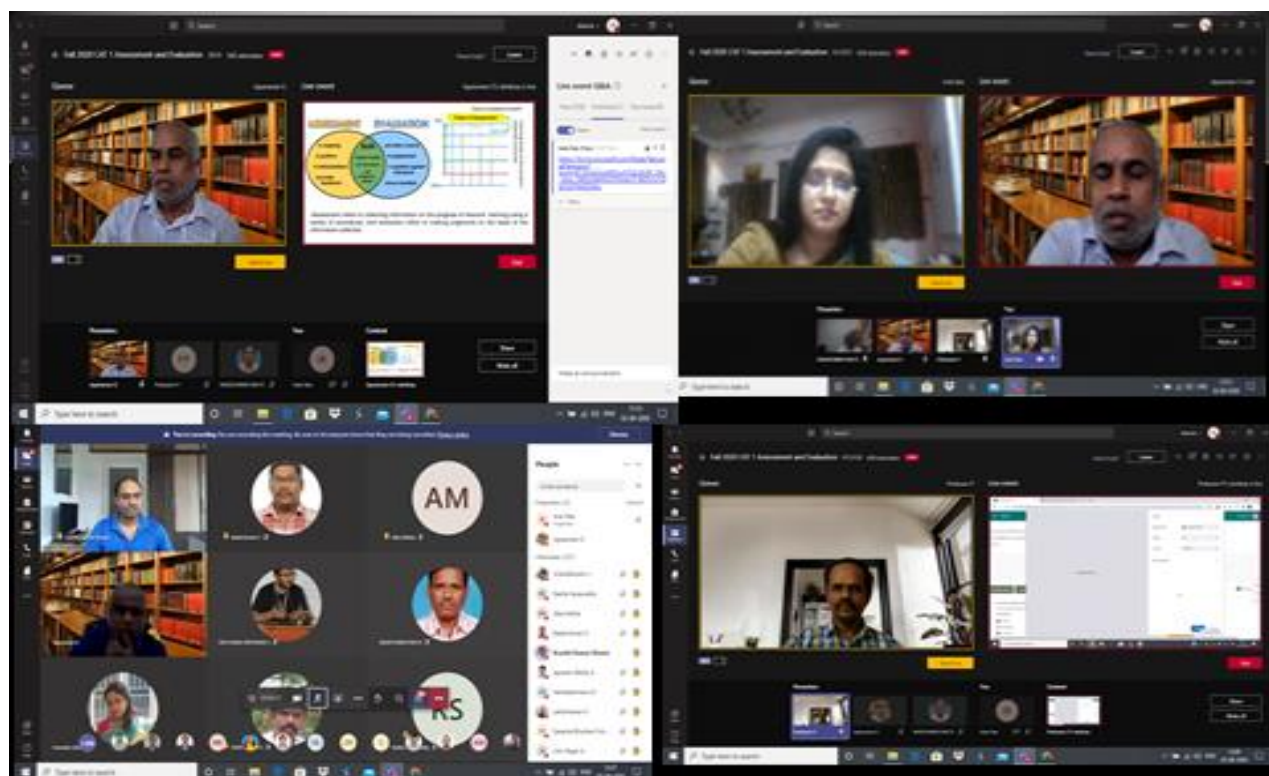
Dr. Jayaraman G  
Higher Academic Grade  
School of Bio Sciences and Technology  
VIT, Vellore

### Discussion points :

- Clarifying Concerns Related to CAT 2020



Please register through your vtop login at <https://vtop.vit.ac.in/vtop/initialProcess>







Academic Staff College (ASC)



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Online FDP

## Fall 2020 CAT-1: Assessment and Evaluation



### Resource Persons :

- ❖ Dr. Anthonraj A  
Associate Professor Grade 2,  
School of Computer Science and Engineering  
VIT, Vellore
- ❖ Mr. Mohan Kumar C M  
Assistant Director-Systems,  
Center for Technical Support  
VIT, Vellore
- ❖ Mr. Gopi K  
Assistant Manager, Center for Technical Support  
VIT, Vellore

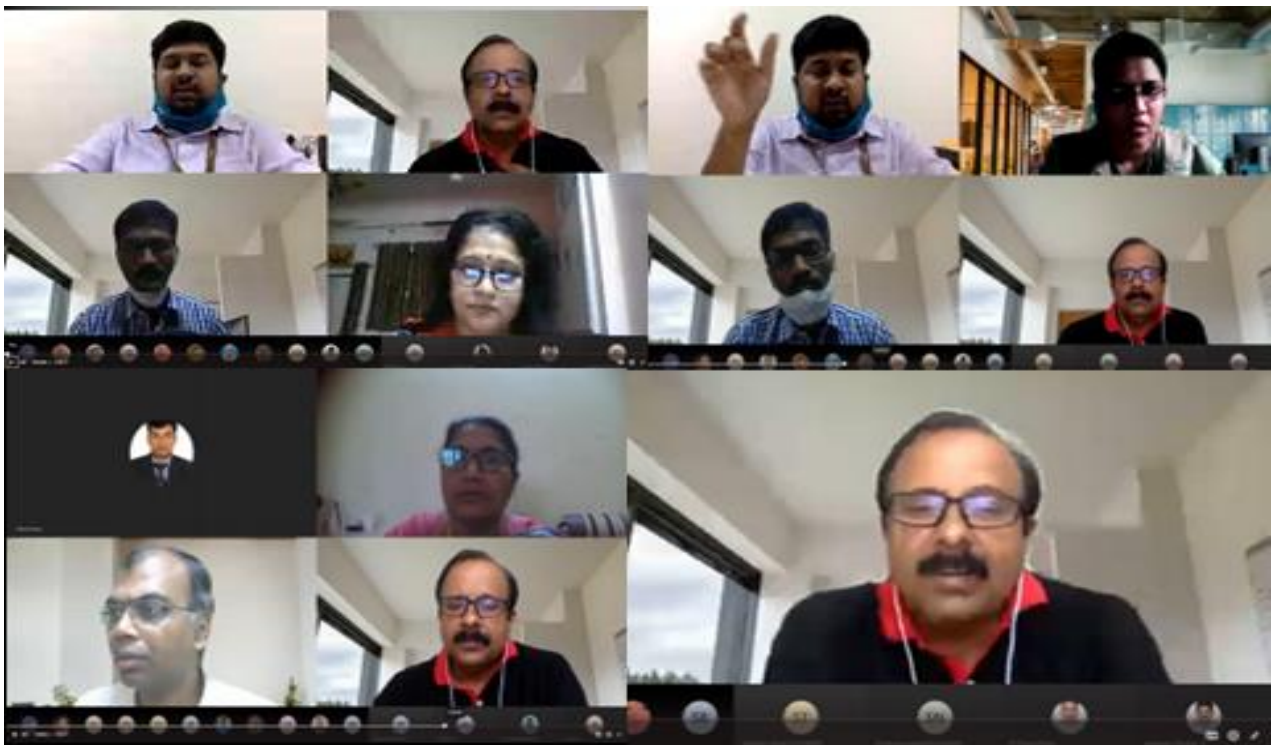
### Discussion points :

- CAT 2020 - Clarifying Technical Concerns in MIS Teams

08 August 2020  
(Saturday)

11:00 am – 12:00 noon

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Academic Staff College (ASC)



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Online FDP

## Recent Innovations in Artificial Tissues



Discussion points :

- Building 3D in vitro disease models
- Bioengineering, and drug delivery

Resource Person :

Dr Shabir Hasan  
Senior Postdoc,  
Harvard Medical School,  
Boston  
USA



16 September 2020  
(Wednesday)  
8:00 am – 9:00 am

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Online FDP

## Digital tools, services and best practices for effective scholarly communication

### Discussion points :

- ❑ Collaborative scientific writing and its multiple facets (including Thesis, Dissertation, Grants and Manuscript writing)
- ❑ Refining the current research workflows and increasing its efficiency with the help of digital tools
- ❑ How to write manuscript, select journals and publish successfully

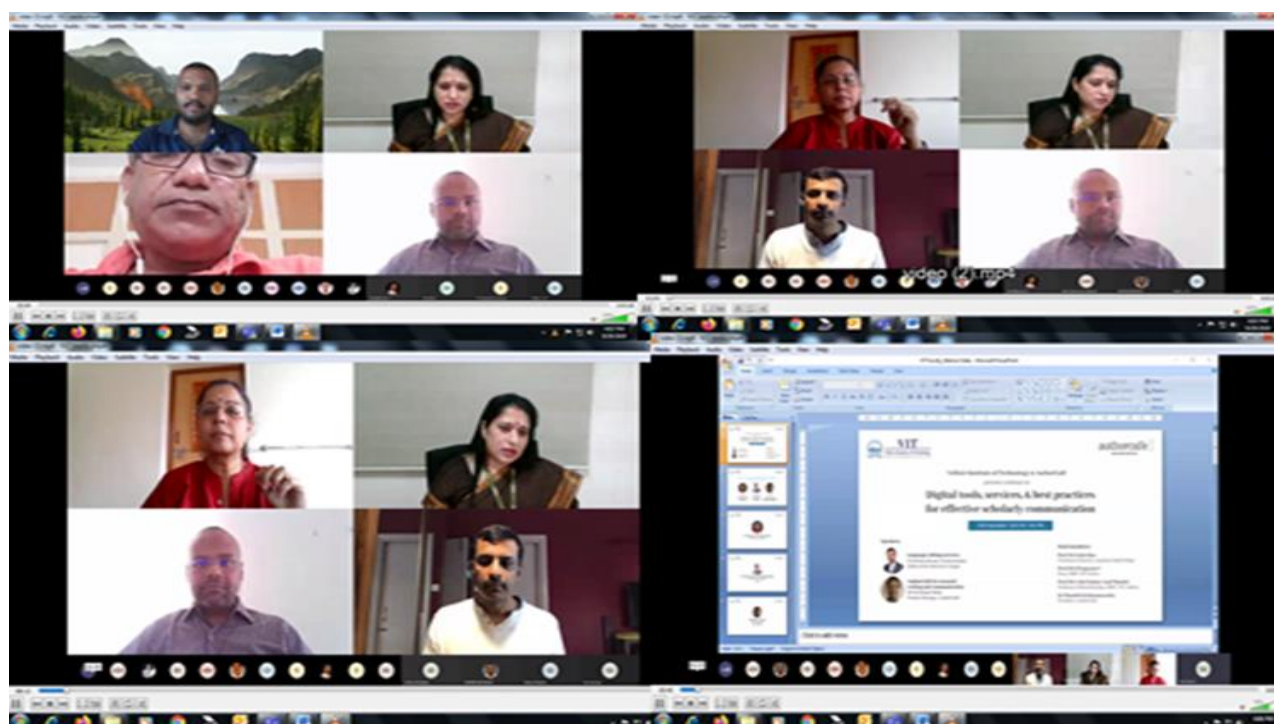


18 September 2020  
(Friday)  
9:30 am – 1:00 pm

### Resource Person :

- Dr Shanthi Krishnamoorthy  
President, AuthorCafe, Chennai
- Mr Neelanjan Sinha  
Product Manager, AuthorCafe, Chennai
- Dr Krishna Kumar Venkitachalam  
Editor and Peer Reviewer, Enago
- Dr. Abul Kalam Azad Mandal  
SBST, VIT Vellore

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Academic Staff College (ASC)



VIT  
Vellore Institute of Technology

Online FDP

## Beyond Powerpoint Presentations - Using whiteboard and Digipads for Online Classes

Resource Person :

- Dr. Anthoniraj A  
SCOPE, VIT Vellore
- Dr. Saravanaguru Ra.k  
SCOPE, VIT Vellore
- Dr. Sri Rama Vara Prasad Bhuvanagiri  
SAS, VIT Vellore

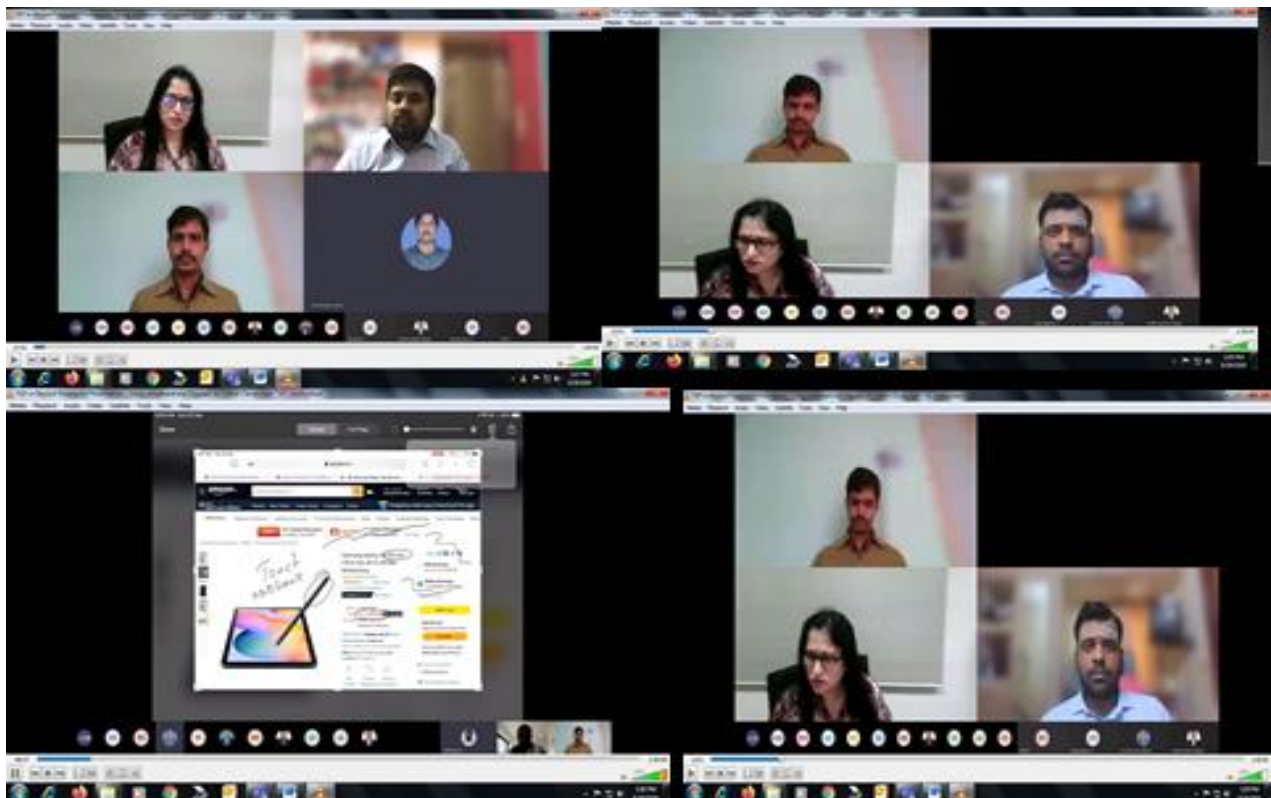
Discussion points :

- ☐ Digital tools for Instruction during online classes
- ☐ Solving equations using white board and Digipads
- ☐ How to procure digital aids for online classes

20 September 2020  
(Sunday)  
10:00 am – 11:00 am



Please register through your vmp login at <https://vmp.vit.ac.in/vmp/initialProcess>





# Academic Staff College (ASC)



VIT  
Vellore Institute of Technology

## Online FDP

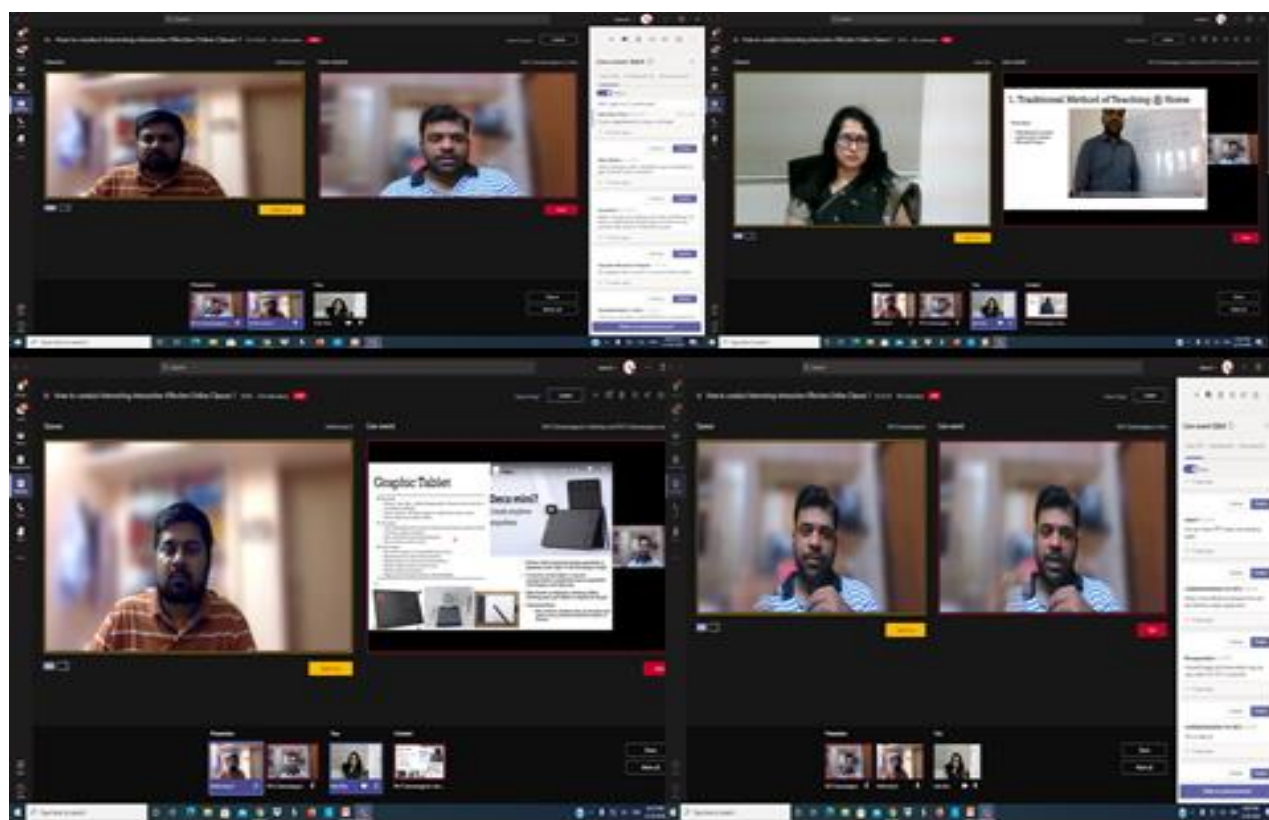
### How to conduct Interesting, Interactive and Effective Online Classes ?

3:00 pm – 3:02 pm	Welcome Address	Director, ASC
3:02 pm – 3:05 pm	Inaugural Address	Dr.S.Narayanan Vice Chancellor I/c & Pro-Vice Chancellor
3:05 pm – 3:25 pm	Session on • Beyond Powerpoints : Making Online classes more interactive • Using Diggpads Whiteboards and Graphic Tablet	Dr. Saravanasoru R.a.k Assistant Dean, Academics, SDC
3:25 pm – 3:45 pm	Session on • Different methods of enhancing effectiveness of online classes	Dr. Anthonmaraj, Deputy Director, SDC
3:45 pm – 4:00 pm	Q & A by Panel members	
4:00 pm	Vote of thanks	Director, ASC



22 September 2020  
(Tuesday)  
3:00 pm – 4:00 pm

Please register through your vtop login at <https://vtop.vit.ac.in/vtop/initialProcess>







*Academic Staff College(ASC)*

*Dialogue with experts*



*Online FDP - Sunday Series*

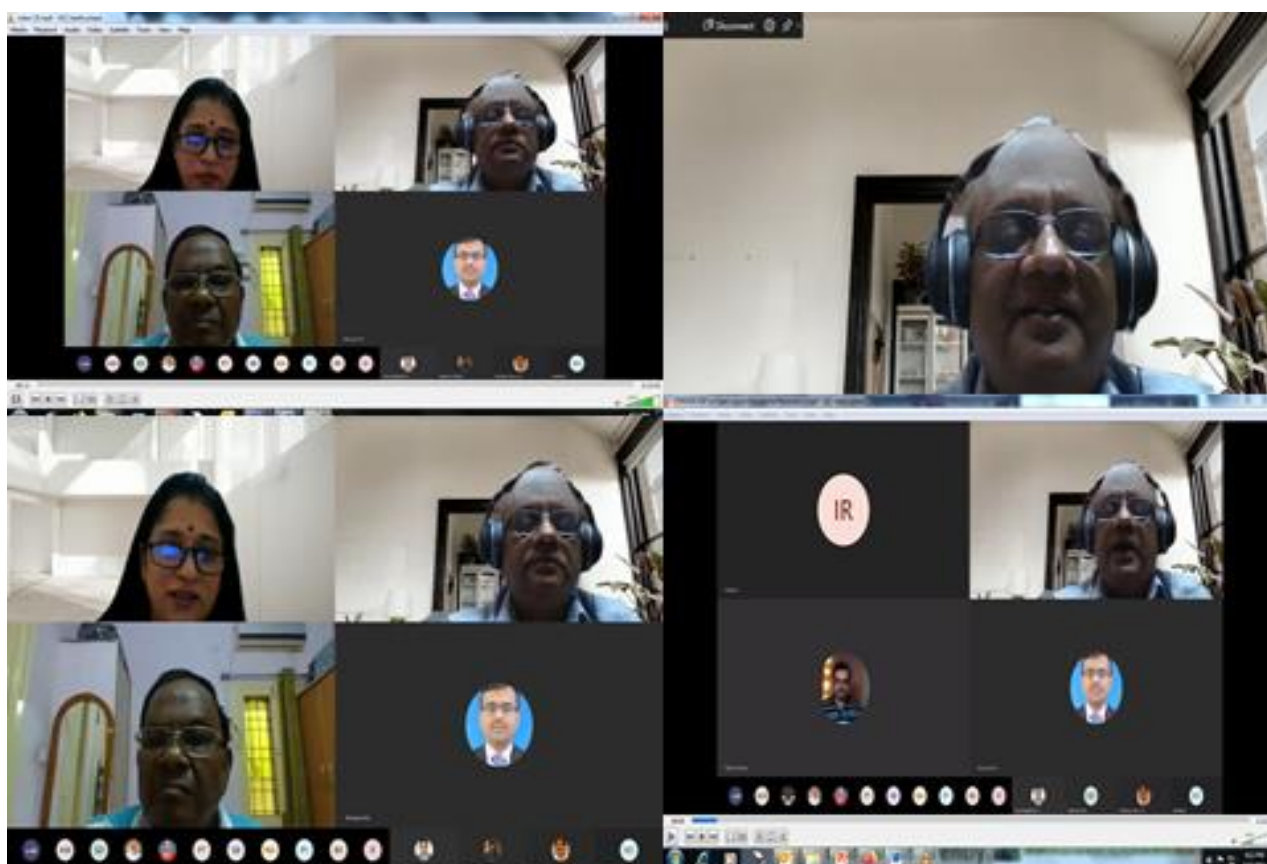
## **Open Source Educational Resources**

1. What are OER and why are they important to educators
2. Copyright and Creative Commons licences
3. How do I download OER?

**Prof. H.Ramaseshan,  
SMEC**

**27 September 2020  
(Sunday)  
2:00 pm – 4:00 pm**

**Please register through your vtop login at <https://vtop.vit.ac.in/vtop/initialProcess>**





## EFFECTIVE PROCTORING AT VIT FOR NEW STUDENTS BATCH OF 2020

7th October 2020  
(Wednesday)  
11:00 am – 12:00 noon

- Answering common queries of Students
- Effective Counseling to Students
- Establishing Proctor-Proctee Relationships

Resource Person:  
**Dr. Ramesh Babu K**  
*Students Welfare*



Please register through your vmap login at: <https://vmap.vit.ac.in/vmap/attendPage.asp>



## 3D Printing: Selection of Materials and Techniques

02 November 2020  
(Monday)  
10:00 am – 11:00 am

- ☐ Basics of 3D Printing.
- ☐ Selection of Materials and Techniques.
- ☐ Application of 3D printing.

**Resource Person :**  
Mr. TAPAS KUMAR NANDY  
Chief Executive Officer,  
Bio Genomics Asia, Hooghly,  
India, 712136.



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Vellore Institute of Technology

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# Proctoring and Counselling

11 November 2020  
(Wednesday)  
11:00 am – 12:30 pm

Resource Persons:

Dr. Rita Rani Bhattacharya, *Counselling Psychologist, Head Counselling Services*  
Prof. Felix Dammann J N, *Head Counsellor*  
Prof. Elomeng Calvin G S, *Head Counsellor*  
Prof. Harish T, *Head Counsellor*  
Dr. Jeyan Satya Gopal, *Head Counsellor*  
Prof. Pathik D, *Head Counsellor*

- Awareness of Professional Counsellors and Counselling Services at VIT, Vellore
- Student - Proctor relationship/Counsellors - Proctor relationship
- Mental health issues faced by students
- Approach of Proctors towards their Proctees
- Supportive Counselling Services
- Counselling Module in VTOP
- Awareness of students falling into high risk situations



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## Project Based Learning in VIT

23-Nov-2020  
(Monday)  
11:30 AM - 01:00 PM

### Resource Person:

Dr. Satyajit Ghosh,  
Higher Academic Grade, School of  
Mechanical Engineering  
VIT, Vellore

- How PBL is initially faculty-led but thereafter the students take over
- Societal relevance
- Case studies
- Publications and Patents from PBL projects



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# Story Telling in Classroom

21 December 2020  
(Monday)  
10:30 am – 1:00 pm

- ☐ Teaching through Story Telling
- ☐ Handling Class by Story telling
- ☐ Benefits of Story telling

*Resource Person:*

**Dr. Padmanabhan K**  
**SMEC**







**VIT**  
Vellore Institute of Technology

*Academic Staff College(ASC)*


In association with Internal Quality Assurance Cell (IQAC)




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## Importance of Internal Academic and Administrative Audit

21-December -2020  
(Monday)  
12:00 Noon - 1:15 PM



**Resource Person:**  
Dr. Jayasankaran N,  
Advisor VITBS, VIT,  
Former Vice Chancellor  
Kanchi University





**INSTITUTION'S  
INNOVATION  
COUNCIL**  
(Initiating the future)

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**VIT**  
Vellore Institute of Technology

*Academic Staff College(ASC)*


*Cordially Invites you to*




On-line FDP

# Turnitin Training Program

17 February 2021  
(Wednesday)  
10:30 AM - 12:00 NOON




**Resource Person:**  
**Mr. Binay K. Guin**  
 Territory Manager – Subscription  
 Higher Education & Government Research



**INSTITUTION'S  
INNOVATION  
COUNCIL**  
(University of Vellore Institution)

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**VIT**  
Vellore Institute of Technology

**Academic Staff College(ASC)**

In association with School of Mechanical Engineering (SMEC)

*Cordially invites you to Online FDP*



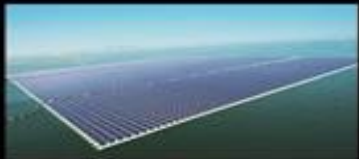
Faculty Coordinator : Dr. Vincent Herald Wilson

## Recent Advances in Solar Energy Applications


**Discussion Points :**


- ✓ Energy storage materials for thermal storage
- ✓ Solar photovoltaic systems
- ✓ Solar thermal systems
- ✓ Solar fuels and CO2 capturing

23 February 2021  
(Tuesday)  
04:00 PM - 5:00 PM



**Resource Person:**  
Dr.Sudhakar  
Faculty of Mechanical Engineering  
Universiti Malaysia






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**Academic Staff College(ASC)**

In association with Periyar EVR Central Library

*Cordially invites you to*

**Online FDP**



## Springer Nature Online User Awareness and Author workshop for VIT Vellore

**Discussion Points:**


- ❖ Authorship and authors' responsibilities
- ❖ Selecting a journal for publication
- ❖ Submitting your paper
- ❖ Understanding peer review


24 February 2021  
(Wednesday)  
10:00 AM - 12:30 PM



**Resource Person:**

Ms. Surina Srivastava  
Editorial Director- Journals,  
Springer Nature,  
New Delhi 110 001.





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In association with School of Mechanical Engineering (SMEC)

*Cordially invites you to*

**Weekend Series - Dialogue with Experts**



Faculty Coordinator : Dr. Ramaseshan H.

## Quality in Education

07-March -2021  
(Sunday)  
10:00 AM - 01:00 PM

**Discussion Points :**

- Total Quality Management
- TQM in Education




**Resource Person:**  
Dr. Girdhar Gyani,  
Director General,  
Association of Healthcare Providers(India),  
New Delhi.





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*Cordially invites you to Online FDP*




Faculty Coordinator : Dr.Senthilnathan N

**Torrefaction of Lignocellulosic biomass for Bioenergy production**

**Resource Persons:**



Dr. Adekunle Akanni Adeleke,  
Professor, Department of Mechanical Engineering,  
Landmark University,  
Kwara State, Nigeria.




Dr. Omiogbemi Momoh-Bello Ibrahim,  
Professor, Department of Mechanical Engineering,  
Air Force Institute of Technology, Kaduna, Nigeria.

10 March 2021  
(Wednesday)  
10:00 AM - 5:00 PM

**Discussion Points :**

- Session-1
- Torrefaction Technology
- Bioenergy Production
- Torrefaction of Lignocellulosic Biomass
- Session-2
- Physico-Thermo-Mechanical Characteristics of Hybrid composite
- Adansonia Digitata Glass fibres and Ceramic Hybrid composite



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**Academic Staff College(ASC)**

In association with School of Computer Science and Engineering (SCOPE)

*Cordially invites you to*  
**Online FDP**

Programme Co-ordinator : Prof. Narayanan Prasanth, Prof. Parveen Sultana H, Prof. Thenmozhi T



# Quantum Computing

**Discussion Points:**

- Basics of Quantum Computing
- Quantum Information
- Quantum computers - Simple experiments
- Research Opportunities

11 March 2021  
(Thursday)  
11:00 AM - 5:00 PM






**Resource Person:**  
Dr. Bikash K. Behera  
Director and CEO,  
Bikash's Quantum (OPC) Private Limited  
Nadia,  
West Bengal.



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**Academic Staff College(ASC)**


In association with School of Mechanical Engineering (SMEC)

*Cordially invites you to*  
**On-line FDP**



Coordinator: Dr. Sekarapandian N, Dr. Ashok K, Dr. Bibin John

## Best Practices in High Performance Computing





**Resource Person :**  
Mr. Akhilesh Tanwar  
Scientist, Data and Computational Sciences  
SABIC Research and Technology Pvt. Ltd,  
Bengaluru

**Discussion Points :**

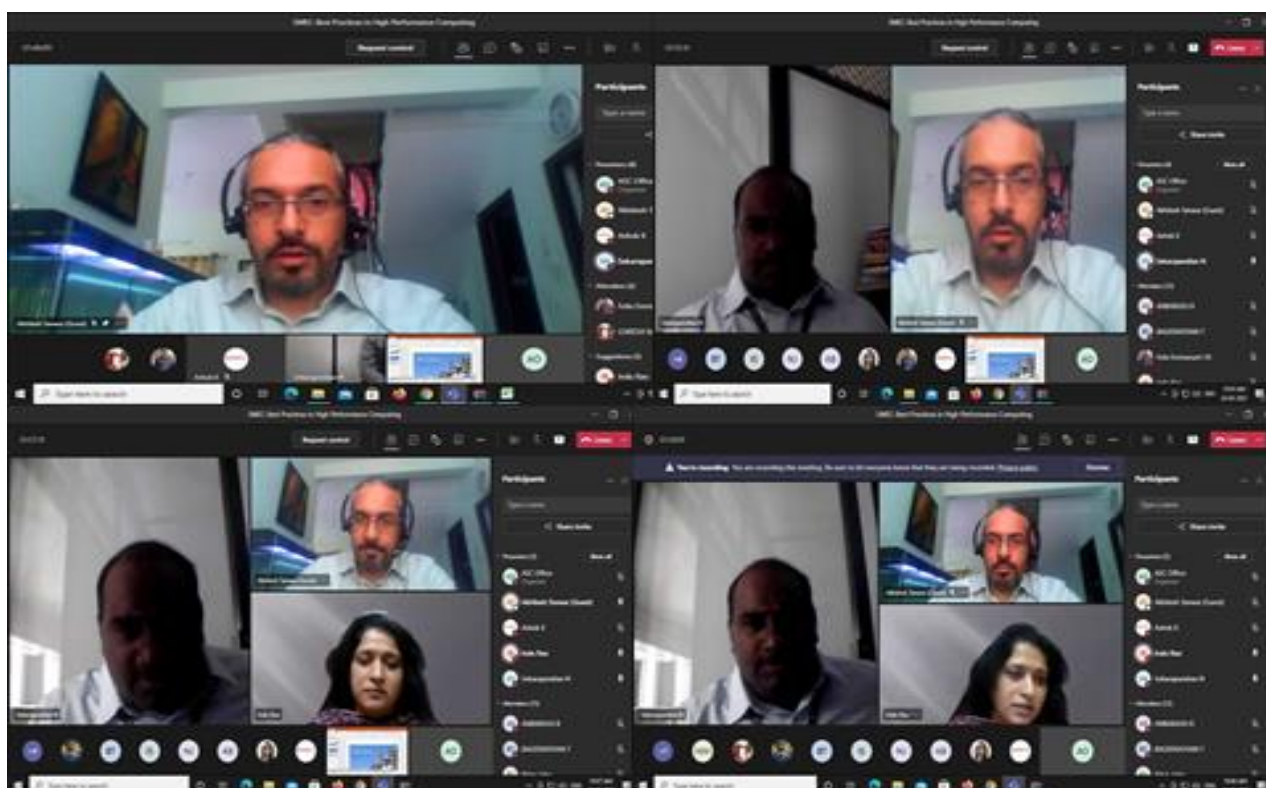
- ❖ Linux Basics
- ❖ Parallelization methodologies (OMP vs MPI)
- ❖ HPC cluster Basics
- ❖ Best Practices for sharing HPC resources

24 March 2021  
(Wednesday)  
10:30 AM - 12:30 PM






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### Three - Day FDP (2020-21)


Sl. No.	Date	Title of FDP	No. of Faculty
1	27 Nov – 29 Nov 2020	Artificial Intelligence and Machine Learning using R: A case study approach	103
2	7 Dec – 9 Dec 2020	FDP on How teachers can make a difference!!! (TLC)	30
3	21 Jan – 23 Jan 2021	FDP on Computer Aided Engineering for Process Planning	35
4	23 March – 25 March 2021	Emerging Areas of Technology	37
		<b>Total</b>	<b>205</b>



**VIT**  
Vellore Institute of Technology

***Academic Staff College(ASC)***


In association with School of Mechanical Engineering (SMEC)




Program Coordinator: Dr. Suraj Kushe Shekhar

## Artificial Intelligence and Machine Learning using R : A Case Study approach


27 – 29 November 2020  
10:00 AM - 05:00 PM



**Speaker**  
**Dr. C Ganesh Kumar,**  
 Decision Science & Operations Management,  
 IIPM Indian Institute of Plantation Management,  
 Bangalore




- Importance of AI
- Multiple Linear Regression
- Logistics Regression
- Text Analytics
- CART and Random forest model
- Cluster Analysis



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**VIT**  
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**Faculty Development Program (FDP)**




## How Teachers can Make a Difference

Session	Schedule	Dec.7	Dec.8	Dec.9
I	10-00 AM to 11.30 AM	How and how much difference can a teacher make	Learning Outcome -2	A recipe for effective and efficient teaching - 2
II	3-00 PM to 4.30 PM	Learning Outcome - 1	A recipe for effective and efficient teaching - 1	Active Learning and Assessment




**Dr. Shreepad Karmalkar**  
Professor of Electrical Engineering  
Indian Institute of Technology Madras

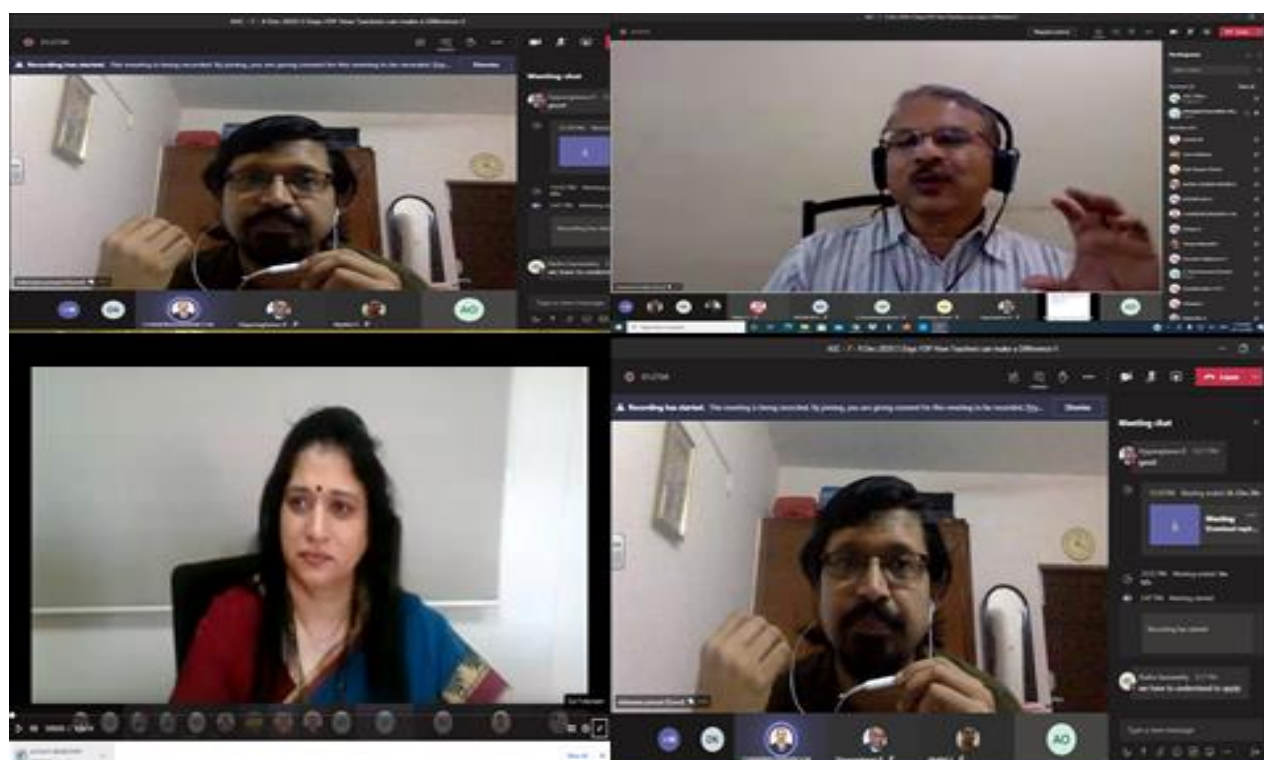


**Dr. Edamana Prasad**  
Professor at the Department of Chemistry,  
Indian Institute of Technology Madras.

**07 – 09 December 2020**  
(Monday to Wednesday)



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## Academic Staff College(ASC)

In association with School of Mechanical Engineering (SMEC)

Cordially invites you to



Coordinator :Dr. Renold Elsen S

## Computer Aided Engineering for Process Planning

### Discussion Points:

- ❖ Computer Aided Engineering
- ❖ Computer Aided Manufacturing
- ❖ Finite Element Method

21-23 January 2021  
(Thursday-Saturday)  
6:00 PM - 8:00 PM

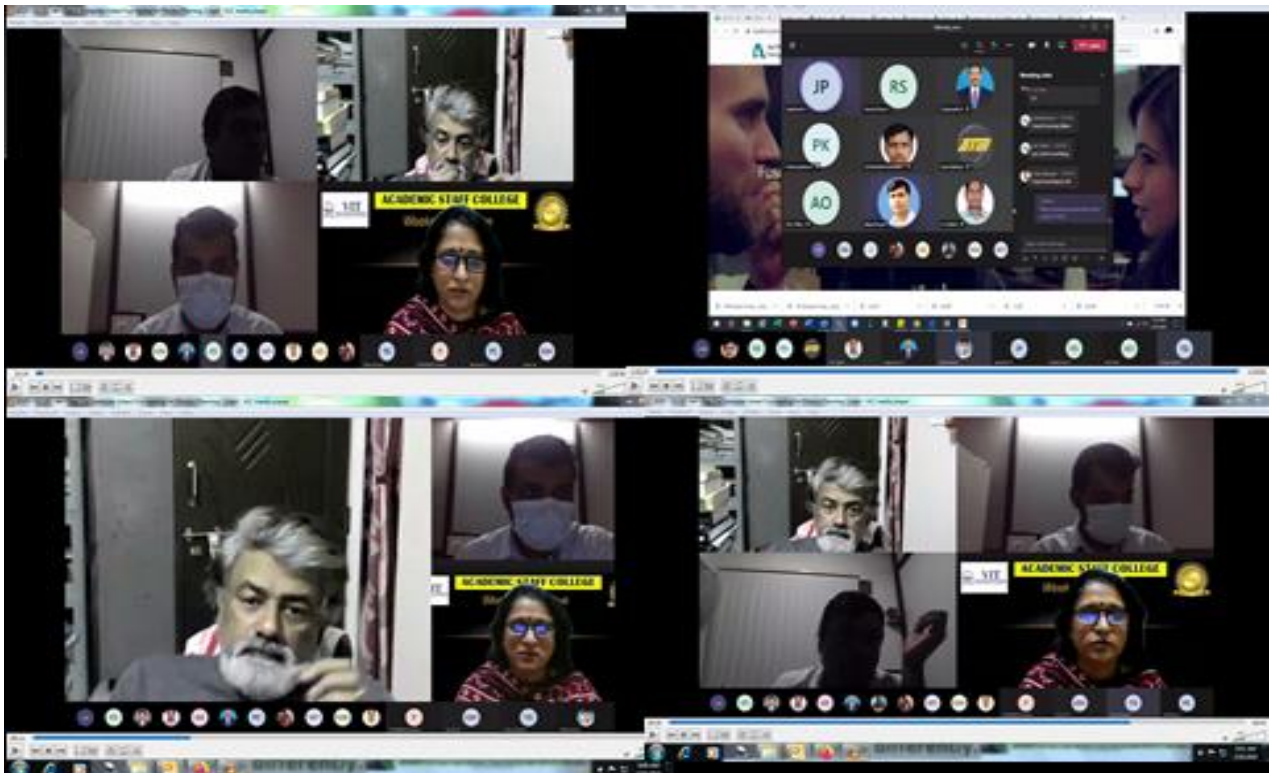


### Resource Person:

Mr. Rajesh Yadav,  
Education Engagement Specialist  
Autodesk.



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## Academic Staff College(ASC)

In association with School of Electrical Engineering (SELECT)

*Cordially invites you to*

3-Day On-line FDP (Mar 23-25, 2021 : 1.45 -5.45 pm)



Faculty Coordinator : Dr. Arulmozhiarman P

## Emerging Areas of Technology

### Resource Persons :

- ✓ Dr.C.S.Saravana Kumar
- ✓ Mr. Sreekanta Aradhya B, Robert Bosch, Coimbatore.
- ✓ Mr. Ramesh A V
- ✓ Mr. Prashanth M N
- ✓ Mr. Soj Thomas
- ✓ Ms. Priya Krishnamoorthy
- ✓ Mr. Shri.Gulshan Purswani
- ✓ Dr. Vishal Saraswat
- ✓ Mr. Bellur Mohan, Robert Bosch, Bangalore.

### Discussion Points :

- ❖ Robert Bosch
- ❖ Bangalore willing to support FDP on Emerging Areas
- ❖ Based on continuous interaction now they shared resource person details



23-25 March 2021  
(Tuesday-Thursday)  
01:45 PM - 05:45 PM



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**Two - Day FDP (2020-21)**

S. No.	Date	Title of FDP	No. of Faculty
1	10-11 Mar	Ethical Hacking and Cyber Forensics	42
		<b>Total</b>	<b>42</b>



# Ethical Hacking and Cyber Forensics

10-11 March 2021  
(Thursday-Friday)  
10:00 AM - 05:00 PM

**Resource Person:**  
Mr. Dinesh Paranthagan,  
CEO & Founder,  
Hackup Technology,  
Coimbatore



## Discussion Points :

- ✓ Ethical hacking
- ✓ Hands-on session and Digital forensics
- ✓ Practical evaluation of security tools and techniques



Please register through your vtop login at <https://vtop.vit.ac.in/vtop/initialProcess>



## 7. Resource Person details

During this year we were able to invite a large number of Resource persons from across the globe due to transition to fully online mode of delivery of FDP's. Experts from industry, government and premium universities of National and International Repute graced our ASC events. In addition, many of our expert internal faculty also delivered sessions across different formats and disciplines of ASC FDPs. The details are given below.

- National – 160
- International – 33
- Industry– 45
- Internal (VIT) - 64

### International Speakers From:









Dr. S. Anbu



Dr. Deepak Kalaskar



Dr. Sheba David



Dr. Ketul C. Popat



Dr. O.D. Samuel



Dr. Tanq Shamim



Dr. Puneet Verma



Prof. Arindam Banerjee



Prof. Marcus Vinicius  
Fainer Bastos



Prof. Filipe dos Santos Barrocas



Prof. Rose Satiko Gitirana Hikiji



Prof. Manoj Sinha



## **8. Fully Integrated Online FDP System**

ASC developed a Fully integrated online FDP system with the help of software and hardware teams of VIT. In this system, a faculty is able to view the upcoming events along with brochures with date and resource person details. Accordingly, a faculty can choose to register for any FDP as per their interest with the single click in their VTOP login. The meeting is scheduled online and the link can be shared through the system to the registered participants of the specific FDP. All information related to the FDP can be shared through email or SMS to the concerned participants. After the event, attendance is posted online and certificate is generated through the system. The faculty who attended the event can fill up the feedback form online and download their certificates.

In addition, we made an attempt to utilize the networks of all our competent faculty of VIT. For this we created FDP requisition form accessible to each faculty in their VTOP login. By filling up this form, the faculty is able to make suggestions online to ASC and float an FDP with resource person information. The FDP approval process is also completed online at the ASC office through our committee. After approval the brochure is also created online and made available to all for dissemination to all faculty through their VTOP login. In addition, Director, ASC office sends invitation email and reminders to encourage faculty to attend the FDPs. Faculty coordinator certificates and Resource persons certificates (internal/external) can also be generated and downloaded online.

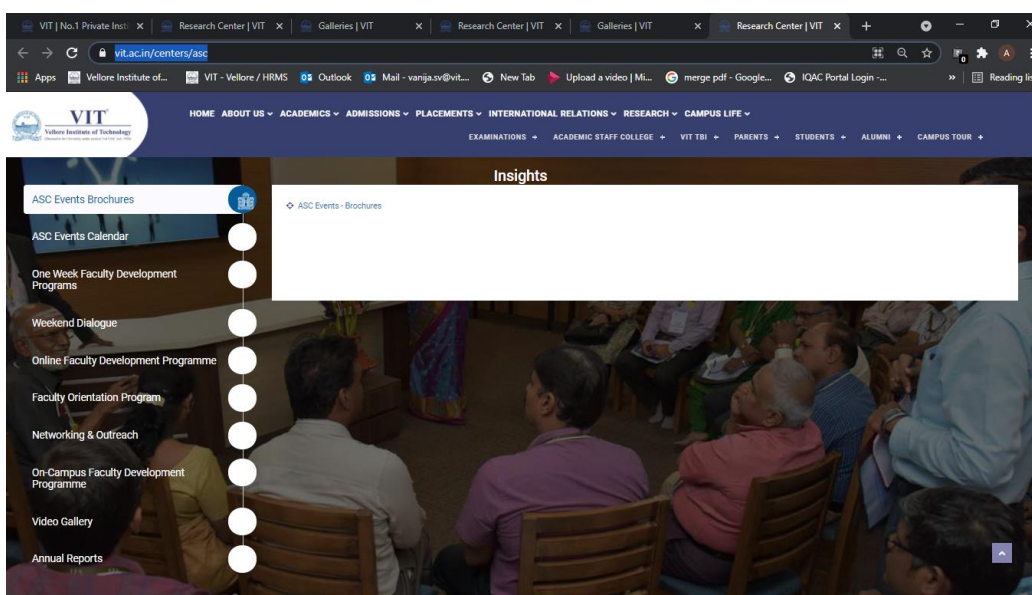
A new ASC FDP tab was created in the main menu in the VTOP portal of VIT. All the above initiatives helped ASC and the faculty to continuously participate in Faculty Development Activities during the lockdown period and created an excellent culture of learning and sharing.

## 9. ASC Website

A detailed ASC website was created and positioned on the main VIT webpage during this year 2020-21. The website address is as below:

<https://vit.ac.in/centers/asc>

The website is updated on a daily basis and gives information about ASC events monthly calendar, upcoming events, the faculty registrations, brochures, event photos and videos, networking and outreach in a comprehensive manner.

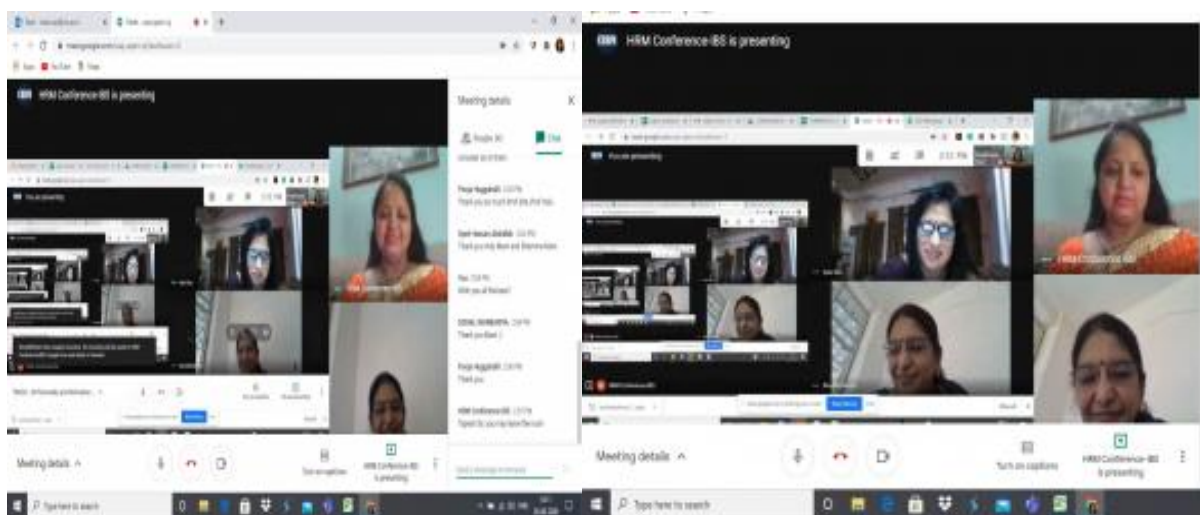


## 10. Networking and Outreach

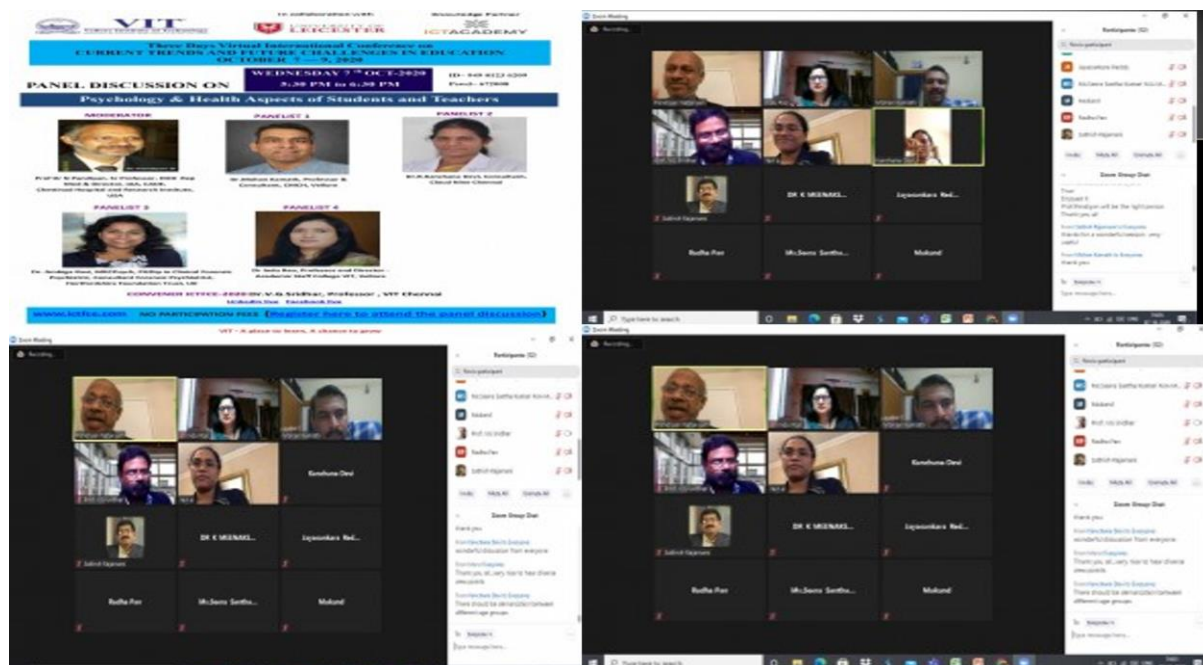
Networking with professionals and experts from academia and industry is an important activity in order to connect with and invite accomplished resource persons to our ASC FDPs. Director, ASC participated and delivered keynote address and talks online at various national and International forums during this pandemic year for this purpose.

Some of the event details are given below:

### September 28, 2020 - IBS Human Resource Management Conference

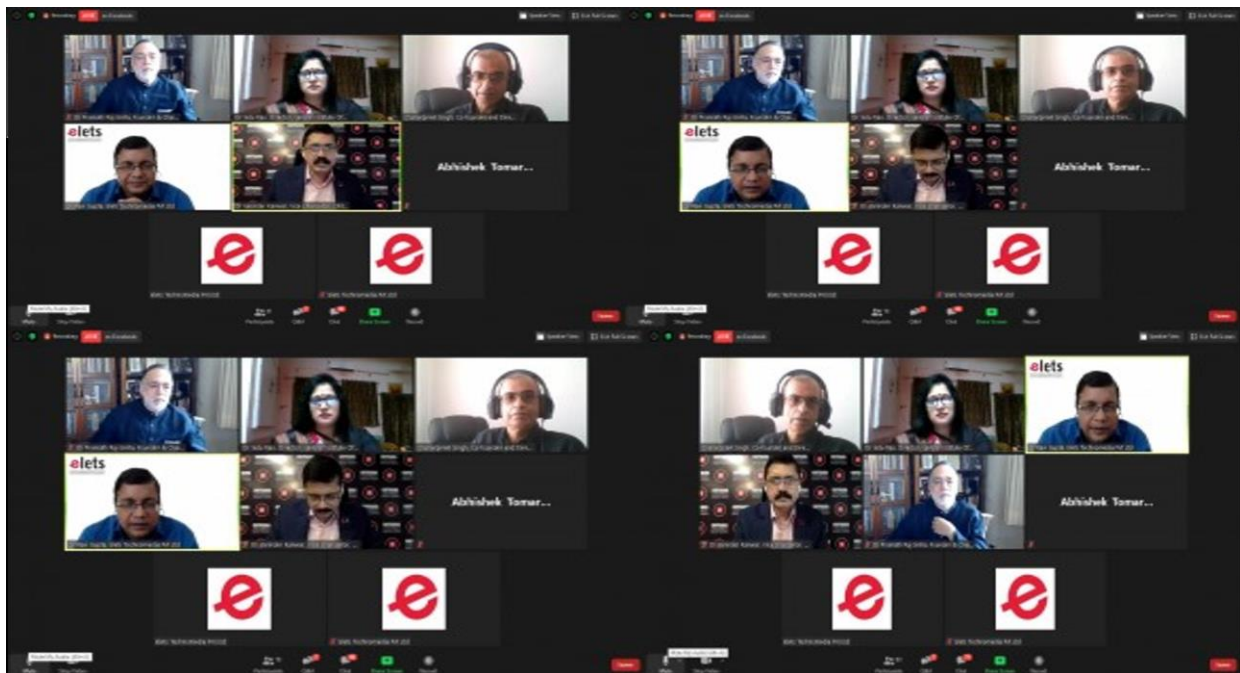


### October 7, 2020 - ICTFCT-2020 - Psychology and Health Aspects of Students and Teachers

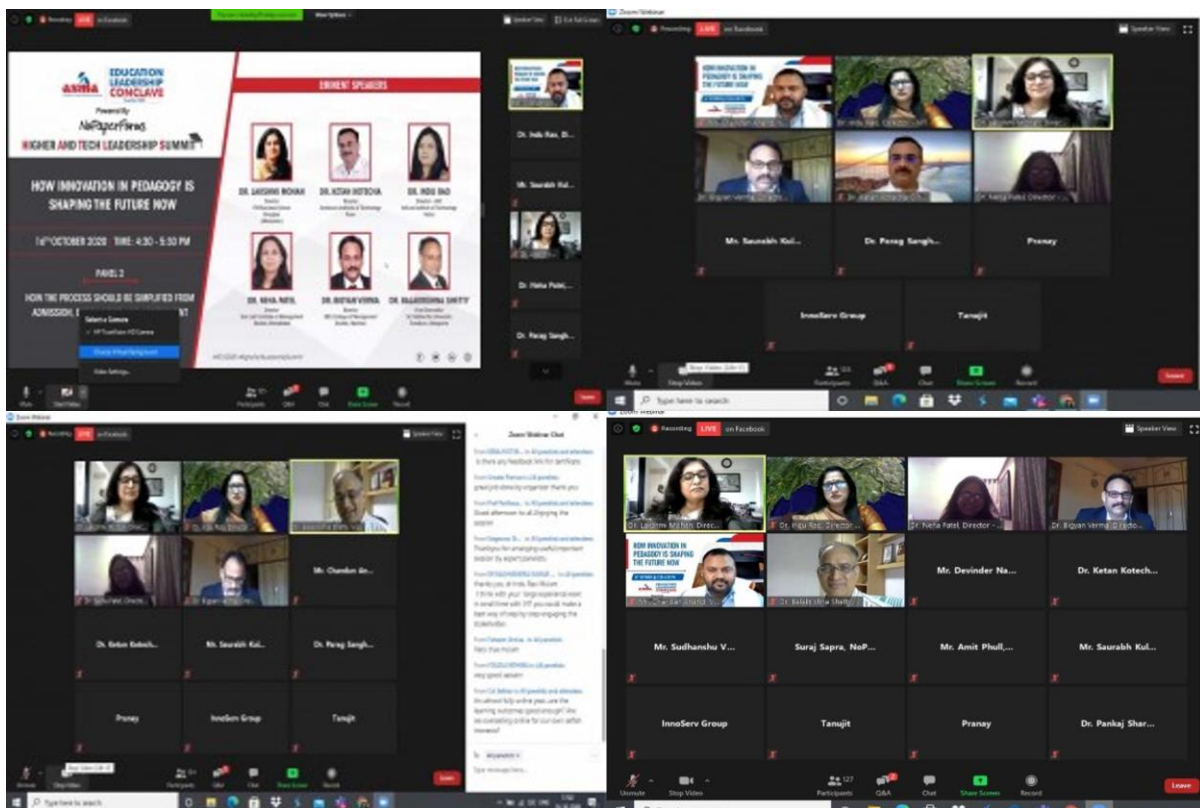




## October 9, 2020 - Elets Harappa- Building a Cadre of Online-First Faculty- Digital learning



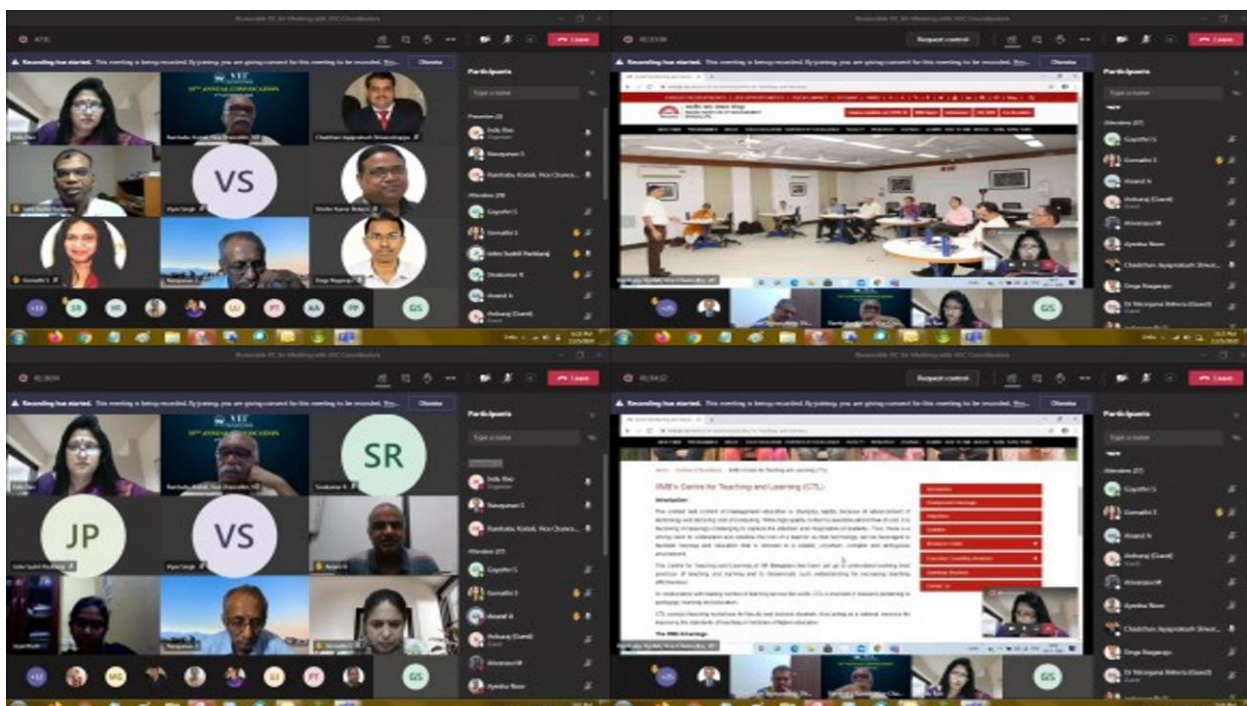
## October 16, 2020 - Asma Education Leadership Conclave-How Innovation in Pedagogy is shaping future now



## October 28, 2020 - Dialogue with ASC Co-Ordinator (Schools and Centers)

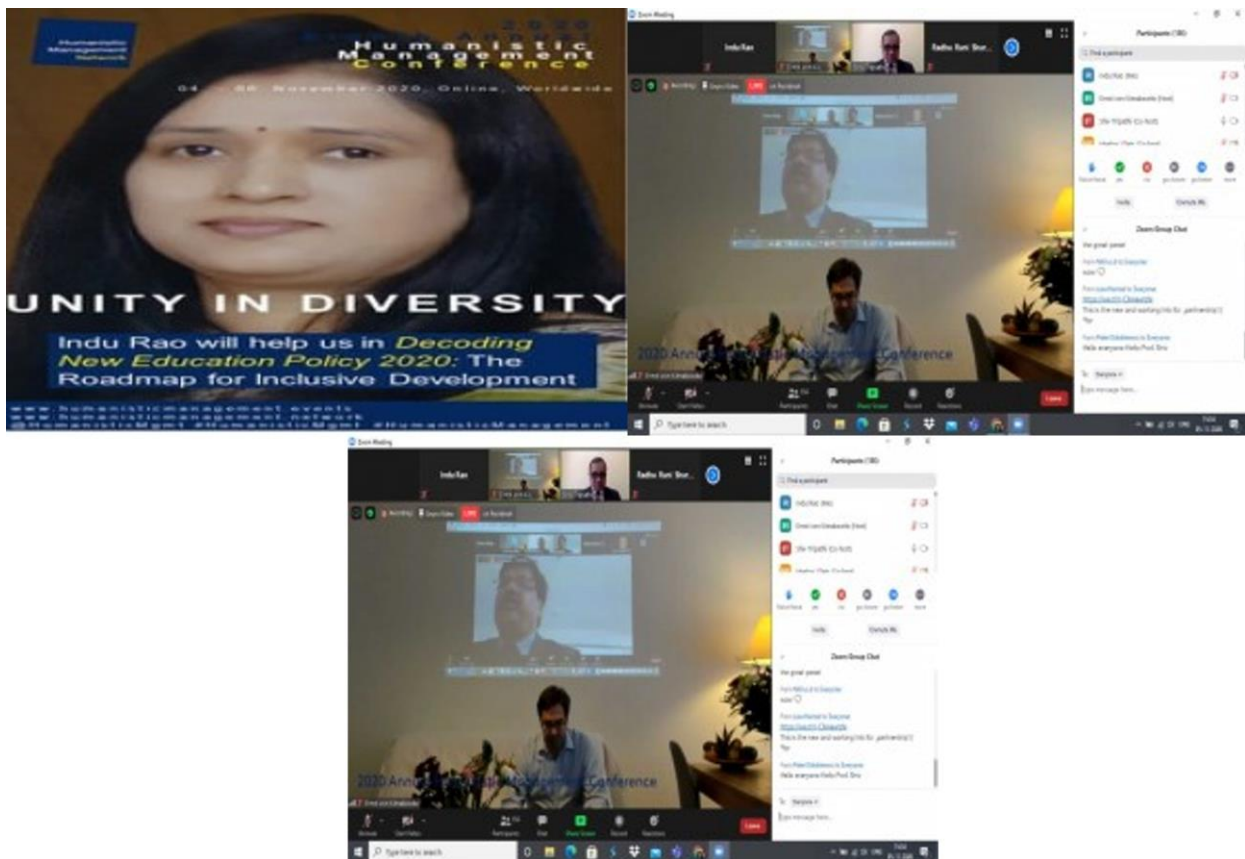


November 5, 2020 - Dialogue with ASC Faculty Coordinators and Honorable Vice-Chancellor



November 5, 2020 - International Humanistic Conference: Decoding NEP-2020- Roadmap for Inclusive Development







## **11. ASC Budget**

**Year -2020-2021**

**Number of Programs conducted : 97**

**Number of Participants : 14646**

**Budget in INR (Lakhs) : 120**