

## Annual Report

April 2020 to March 2021

Activities of the VTU e-Learning Centre from April 2020 to March 2021 are stated below:

### I. VTU e-Shikshana Programme-03:

The following 07 courses were recommended for e-Content development with the active participation of 26 course experts and 257 sessions of the e-content repository.

Course Code	Name of the Course	Course Experts	Module
18MAT41	Complex Analysis, Probability and Statistical Methods	Prof.A.K.Nandakumaran, IISc, Blore	01
		Dr. Pradeep C.R., CIT, Gubbi	02
		Dr. V. Ramachandramurthy, RRIT, B'lore	03
		Dr. K.S.Basavarajappa, BIET, Davanagere	04
		Dr.P.R.Hampiholi, GIT, Belagavi	05
18EE45	Electromagnetic Field Theory	Dr. K. Uma Rao, RVCE, B'lore	01 & 02
		Dr. Abhay Deshpande, RVCE, B'lore	04 & 05
		Dr. N.Smitha, RNSIT, B'lore	03
18CV42	Analysis of Determinate Structures	Dr. Raviraj, SJCE, Mysuru	01 & 02
		Dr. H.S.Nanda, BTI, B'lore	05
		Dr. Kiran Mali Patil, KLECET, Belagavi	03 & 04
17ME63	Heat Transfer	Dr. A M Nagaraj, RGIT, B'lore	01 & 02
		Prof. Kadlimatti H M, BEC, Bagalkotte	05
		Prof. Karthik, BNMIT, B'lore	03
		Dr. Madhukeswara, JIT, Davanagere	04
17CS61	Cryptography, Network Security and Cyber Law	Prof. Arunkumarkhannur, HKBKCE, B'lore	01 & 02
		Dr. Shantaladevi Patil, Reva ITM, B'lore	02 & 03
		Dr. Padmashree T, RVCE, B'lore	04
		Ex. Prof. C. R. Rajagopal, AIEMS, B'lore	05

18EC46	Microcontroller	Dr Sanjay Kumar C Gowre, BKIT, Bhalki	01 & 03
		Dr. Roopa R Kulkarni, DSATM, B'lore	02
		Dr. Andhe Pallavi, RNSIT, B'lore	04
		Dr. Bhagyashree S R, ATMECE, Mysuru	05
15ARC6.6	Landscape Architecture	Ar. Swapna Shivkumar, Mysore School of Architecture, Mysuru	01 & 03
		Ar. Nishita Tadkodkar, GIT, Belagavi	05
		Ar. Seema Naveen, Mysore School of Architecture, Mysuru	02 & 04
Industry Expert Talks		<ul style="list-style-type: none"> <li>• Application Grammar in Placement Process</li> <li>• Advance analysis of Hydraulics</li> <li>• Career opportunities in the Current Industrial Trends</li> </ul>	



e--Shikshana Faculty Advisory Board meeting for Programme - 03

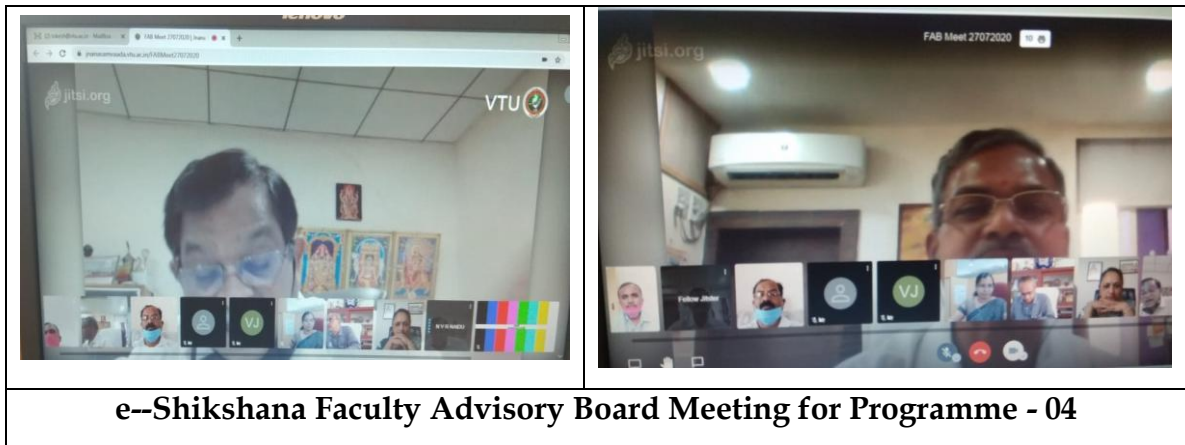
## II. VTU e-Shikshana Programme-04:

The faculty Advisory Board meeting was conducted on 27<sup>th</sup> July 2020 through virtual mode and the following 13 courses from seven major disciplines were recommended for e-Content development with the active participation of 36 course experts and 356 sessions of e-content repository.

Sl.No	Course code	Course	Credit	Course Experts	Module
1	18MAT11	Calculus and Linear Algebra	4	Dr.Pradeep C.R., CIT, Gubbi	I
				Dr.K.S.Basavarajappa, BIET, Davanagere	IV
				Dr Roopa K M, BIT, Blore	II
				Dr. P R Hampiholi, GIT, Belagavi	III
				Dr V Ramachandra Murthy, RRIT, Blore	V
2	18CPS13	C Programming for Problem Solving	3	Prof. Sudeer Anekal, VTU CPGS, Kalburgi & other IT Industry Experts	I to V
3	18MAT31	Transform Calculus, Fourier Series And Numerical Techniques	3	Dr.Pradeep C.R., CIT, Gubbi	I
				Dr.K.S.Basavarajappa, BIET, Davanagere	V
				Dr Roopa K M, BIT, Blore	II
				Dr. P R Hampiholi, GIT, Belagavi	III
				Dr V Ramachandra Murthy, RRIT, Blore	IV
4	18CV52	Analysis of Indeterminate Structures	4	Dr. B.G.Naresh Kumar, MIT, Mysuru	I & V
				Dr.H.S. Nanda, BTI, B'lore	II
				Prof. Kiran Mali Patil, KLECET, Belagavi	III
				Prof.Bhavyashree B N, MIT, Mysuru	IV
5	18CS32	Data Structures and Applications	4	Dr. S Nandagopalan, VIT, Blore	I, II & V
				Dr. Shrinivasa Naika C L UDBT, Dvanagere	III & IV
				Prof. Manohar Madgi, KLE IT, Hubbballi	I & V

6	18CS52	Computer Networks and Security	4	Dr. Gururaj H L, VVCE, Mysuru	I
				Prof. Sathyanarayana S, JNNCE, Shivmoga	II & III
				Prof. Sunilkumar B S, GMIT, Davanagere	IV & V
7	17EE71	Power System Analysis	4	Dr. K. Uma Rao , RVCE, Bengaluru	IV & V
				Ms. Sushmita Sarkar, RVCE, Bengaluru	I
				Dr. Nagesh Prabhu, NMAMIT, Nitte	II
				Dr. Shobha Shankar, VVCE, Mysuru	III
8	18EC34	Digital System Design	3	Dr. Meghana Kulkarni, VTU CPGS, Belagavi	I
				Dr. Bhagyashree S R, ATMECE, Mysuru	II
				Dr. Rudraswamy, SJCE, Mysuru	III, IV & V
9	18EC54	Information Theory & Coding	3	Prof. Madhupatil, NMIT, B'lore	I, II & III
				Prof. S V Uma, RNSIT, B'lore	IV & V
10	18ME32	Mechanics of Materials	4	Dr. Babu Reddy, VTU CPGS, Kalburgi	I & II
				Dr. Ragavendra G Deshpande, SCE, B'lore	IV & V
				Dr. P L Srinivas Moorthy, Former Professor, BNMIT, B'lore	III
11	18ME52	Design of Machine Elements I	4	Dr. M.H. Annaiah, SCE, Blore	III & IV
				Dr. Babu Reddy, VTU CPGS, Kalburgi	I & II
				Dr. P L Srinivas Moorthy, Former Professor, BNMIT, B'lore	V
12	18ARC53	Building Services-II: Electrical and Illuminations	2	Prof. Mahanthan, MSA, Mysuru	I to V

13	18ARC33	Climatology	3	Prof. Suresh Murthy, RVCA, Blore	IV
				Ar. Kuladeepkumar, IIT, Roorke	II & III
				Prof. Sanketh Ghanti, MSA, Mysuru	I & V



### III. VTU e-Shikshana Programme-05:

The faculty Advisory Board meeting was conducted on 08<sup>th</sup> June 2021 through virtual mode and the following 13 courses from seven major disciplines were recommended for e-Content development with the active participation of 49 course experts and 480 sessions of e-content repository.

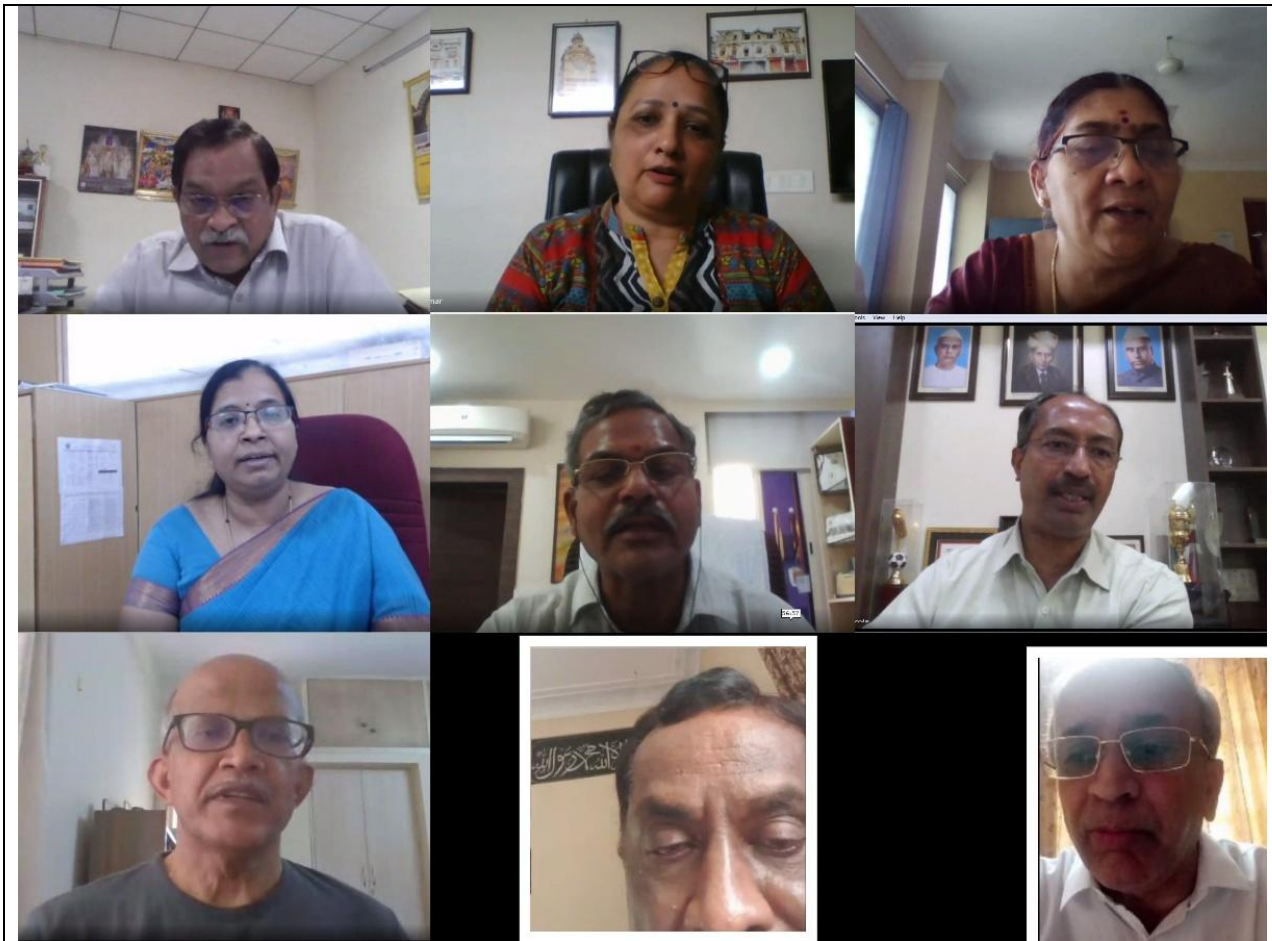
Sl.No.	Course Code	Course Name	Sem/Dept.	Course Experts	Module
1	18ME15/25	Elements of Mechanical Engineering	Sem - II Basic Courses	Dr.K.B.Vinay, VVCE, Mysuru	1
				Dr.B.S.Nityananda, VVCE, Mysuru	2
				Dr.S.A.Mohan Krishna, VVCE, Mysuru	3
				Dr.Babu Reddy, VTU's Centre for postgraduate Studies, Kalaburagi	4
				Dr.Khalid Imran, VVCE, Mysuru	5

2	18ME44	Kinematics of Machines	IV Sem ME	Prof. Y.P.Mamatha, VVCE, Mysuru	1
				Prof. H.M.Gurudatt, VVCE, Mysuru	3
				Dr.Veeresh Chandra, SJCIT, Chickaballapur	2
				Dr.Chandra Mohan H K, SJCIT, Chickaballapur	4
				Prof. Chandan V, VVCE, Mysuru	5
3	18PHY12/22	Engineering Physics	II Sem Basic Sciences	Dr.Vijaylakshmi Dayal, MIT, Mysore	1
				Dr.D.Nagaraja, BIT, Bangalore	2
				Dr.Mahesh Lohith K S,ATME, Mysore	3
				Dr.Anandaram B N, JNNCE, Shivamogga	4
				Dr.Vincent Crasta, SJEC, Mangalore	5
4	18ARC63	Building Services III (Airconditioning, Mechanical transportation & fire protection)	Sem VI Architecture	Ar.Dakshayini Patil, BMSCA	1 & 2
				Ar.Arjun K S, KSSA	3
				Ar.Mangala Mahanthan J, MSA	4 & 5
5	18EE43	Transmission and Distribution	Sem IV EEE	Dr.Uma Rao K, RVCE, Bangalore	1, 3 & 5
				Dr.Gautham N, VVCE, Mysuru	2 & 4

6	18EE825	Electrical Power Quality	Sem VIII EEE	Dr.Uma Rao K, RVCE, Bangalore	1 & 5
				Dr.Prema V, BMSCE, Bangalore	3 & 4
				Prof.Sushmitha Sarkar, RVCE, Bangalore	2
7	18MATDIP401	Advanced Mathematics-II	Common	Dr.K.M.Roopa, BIT, Bangalore	3 & 5
				Dr.K.S.Basavarajappa, BIET, Davangere	1 & 2
				Dr.P.R.Hampiholi, GIT, Belgaum	4
8	18CS61	System Software and Computers	Sem VI CSE/ISE	Mr. Vishwanath Kamatar, KLEIT, Hubballi	2 & 3
				Dr.B.A.Patil, KLE Dr.MSS College of Engineering, Belagavi	1, 4 & 5
9	18CS46	Data Communication	Sem IV CSE/ISE	Dr.Yerriswamy T, KLEIT, Hubballi	1, 2 & 3
				Dr.Umesh Somanahatti, KLE Dr.MSS College of Engineering, Belagavi	4 & 5
10	18EC63	Microwave and Antennas	VI Sem ECE	Dr.Andhe Pallavi, RNSIT, Bengaluru	5
				Dr.Venkatesh M, Sai Vidya Institute of Technology, Bengaluru	4
				Dr.K.Sreelakshmi, RVCE, Bengaluru	1
				Dr.Prasanna Paga, Nitte Meenakshi Institute of Technology, Bengaluru	3
				Dr.Sasmita Mohapatra, Sir MVIT, Bengaluru	2

11	18EC42	Analog Electronic Circuits	IV Sem ECE	Dr.Uma S V, RNSIT, Bengaluru	5
				Dr.Poornima G, BMSCE, Bengaluru	1
				Dr.Supriya V G, SirMVIT, Bengaluru	2
				Prof.C.R.Prashanth, Dr.AIT, Bengaluru	4
				Dr.Bhaskar B, SJBIT, Bengaluru	3
12	18CV43	Applied Hydraulics	IV Sem CV	Dr. Nagaraj Sitaram, EPCET, B'lore	1
				Prof. Suresh Ramaswamyreddy, BMSCE, B'lore	2 & 3
				Dr. B R Ramesh, NMIT, B'lore	5
				Dr Reshmidevi, BMSCE, B'lore	4
13	18CV61	Design of Steel Structural Elements	VI Sem CV	Prof. M C Nataraja, MSRIT, B'lore	1 & 5
				Prof. Raviraj S, SJCE, Mysuru	4
				Prof. Anil Kumar R, MSRIT, B'lore	2 & 5
				Prof. Geeta Kumari T, MSRIT, B'lore	3





**e--Shikshana Faculty Advisory Board meeting for Programme - 05**

#### **IV. VTU e-Shikshana YouTube Channel**

The teaching/learning resources of VTU e-Shikahana Programme - 03, 04 and 05 are being made available to the learner’s community through the VTU e-Shikshana YouTube channel. Presently, the channel comprises 1350 sessions of lectures. Approximately 9500 students have subscribed to the VTU e-Shikshana channel with total views of 3,50,091 and total impressions of 65,25,192. The 91% of total e-contents being accessed by the students of age group 19 to 24, out of which 55% are male students and 45% are female students.

## V. VTU e-Learning Studio, Mysuru

A dedicated full-fledged multimedia e-Learning studio has been set up by VTU e-Learning Centre, Mysuru. The e-Learning Studio comprises the recording room and control room. The e-Learning studio is being used to broadcast live lectures of the VTU e-Shikshana programme from eminent course experts from both academia and industry through the VTU e-Shikshana platform and also for development of e-Contents.



## VI. Additional activities

- Arrangements were made for the Video Conference meeting of Hon'ble Vice Chancellor, VTU and Registrar with all the Principals of VTU affiliated Institutions through VTU e-Shikshana platform on dated: 9.06.2020, 13.07.2020, 19.08.2020 respectively.
- Arrangement of BoE meeting through VTU e-Shikshana platform on dated: 06.11.2020
- Arrangements made for Live transmission of "Degree Presentation Ceremony" (Doctor of Science, Honoris Causa) to Dr K. Sivan at Raj Bhavan, Bengaluru dated: 21.11.2020
- Arrangements were made for Video recording 20<sup>th</sup> Annual Convocation, JnanaSangama, Belagavi dated: 03-04-2021

- Set up e-Shikshana studio and VTU Stall at Bharatiya Shikshan Mandal, Sarthak Eduvision 2020-2021 for Atma Nirbhar Bharat, National Expo and Conference 2021, Bhopal from 15.03.2021 to 17.03.2021



## **VII. e-Content Management System Portal:**

VTU e-Learning Centre has developed an e-Learning Content Management Portal using open-source software. The e-Learning Content Management system comprises of e-Contents for 392 courses with the participation of 936-course experts with a repository of 15921 video sessions

## **VIII. Sharing of e-Contents**

VTU e-Learning Centre is providing available e-contents to requested colleges for local intranet campus access. We have deployed VTU Content Management System to VTU Centre for Post Graduation Studies, Mysuru

## IX. Webinars and Live Streams Conducted:

A webinar was organized on "Impact of COVID-19 on Higher Education System in India: Challenges and Opportunities" dated: 03.08.2020 (**Annexure - I**).



**Visvesvaraya Technological University, Belagavi**  
**e-Learning Centre, Mysuru**  
**Webinar on**  
**Impact of COVID-19 on Higher Education System in India**  
**Challenges and Opportunities**  
3 August 2020 11 A. M.

**Inaugural Address**



Prof. Karisiddappa  
Hon'ble Vice-Chancellor  
VTU, Belagavi

**Speakers**



Prof. S. C. Sharma  
Director, NAAC  
New Delhi



Prof. S. A. Kori  
Executive Director  
KSHEC, Bengaluru

**Panelists**



Prof. A. S. Deshpande  
Registrar,  
VTU Belagavi



Prof. Satish Annigeri  
Registrar (Evaluation)  
VTU Belagavi

**Coordinator**

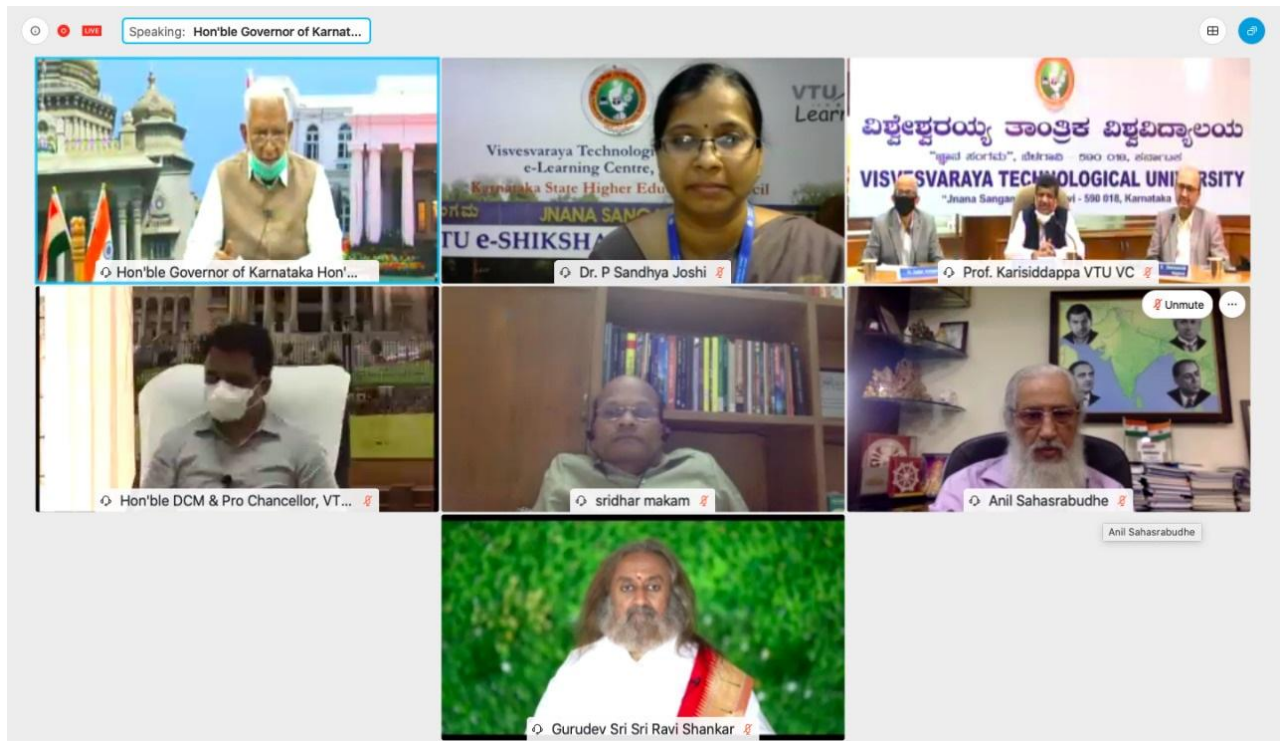


Dr. P. Sandhya  
Special officer  
VTU e-Learning center, Mysuru

**Registration link: <http://bit.ly/VTUEARNING>**

- Live streaming webinar on 'Nuances in NAAC Revised Accreditation Process' dated: 14.08.2020 through VTU e-Shikshana YouTube channel

- Live Streaming, coordination and technical support for International conference on “Atmanirbhar Bharath: Turn Crisis into an Opportunity”, Organized by Department of Management Studies, VTU Belagavi In association with Scientists & Engineering Wing, R.E. & R.F. of Prajapita Brahma Kumaris from 20.8.2020 to 21.8.2020 (**Annexure-II**)
- National Webinar was organized on “National Education Policy-2020: Making India a Global Knowledge Superpower” on **5<sup>th</sup> November 2020**, The Webinar was inaugurated by **Honorable Shri. Vajubhai R Vala**, Government of Karnataka and Chancellor of VTU, **Dr C N Ashwath Narayan**, Hon’ble Deputy Chief Minister, Minister for Higher Education, Govt. of Karnataka, Bengaluru and Pro-Chancellor of VTU and **Gurudev Sri Sri Ravi Shankar**, Founder, The Art of Living, Bengaluru and **Hon’ble Vice Chancellor, Prof. Karisiddappa**, VTU, Belagavi (**Annexure-III**).





ವಿಶ್ವೇಶ್ವರಯ್ಯ ತಾಂತ್ರಿಕ ವಿಶ್ವವಿದ್ಯಾಲಯ, ಬೆಳಗಾವಿ

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI  
e-LEARNING CENTER, MYSURU

**Webinar on  
National Education Policy-2020 :  
Making India a Global Knowledge Superpower**

5 NOVEMBER 2020 @ 11.30 AM

**CHIEF GUESTS**



Hon'ble Shri Vajubhai R Vala  
Governor of Karnataka and Chancellor of VTU



Dr. C N Ashwath Narayan  
Hon'ble Deputy Chief Minister,  
Minister for Higher Education,  
Govt. of Karnataka, Bengaluru and  
Pro-chancellor of VTU

**Divine Presence**



Gurudev Sri Sri Ravi Shankar  
Founder, The Art of Living, Bengaluru

**KEY SPEAKERS**



Prof. Anil Sahasrabudhe  
Hon'ble Chairman,  
AICTE, New Delhi



Prof. M K Sridhar  
Hon'ble Member,  
UGC & NEP Draft Committee



Prof. Karisiddappa  
Hon'ble Vice Chancellor,  
VTU, Belagavi

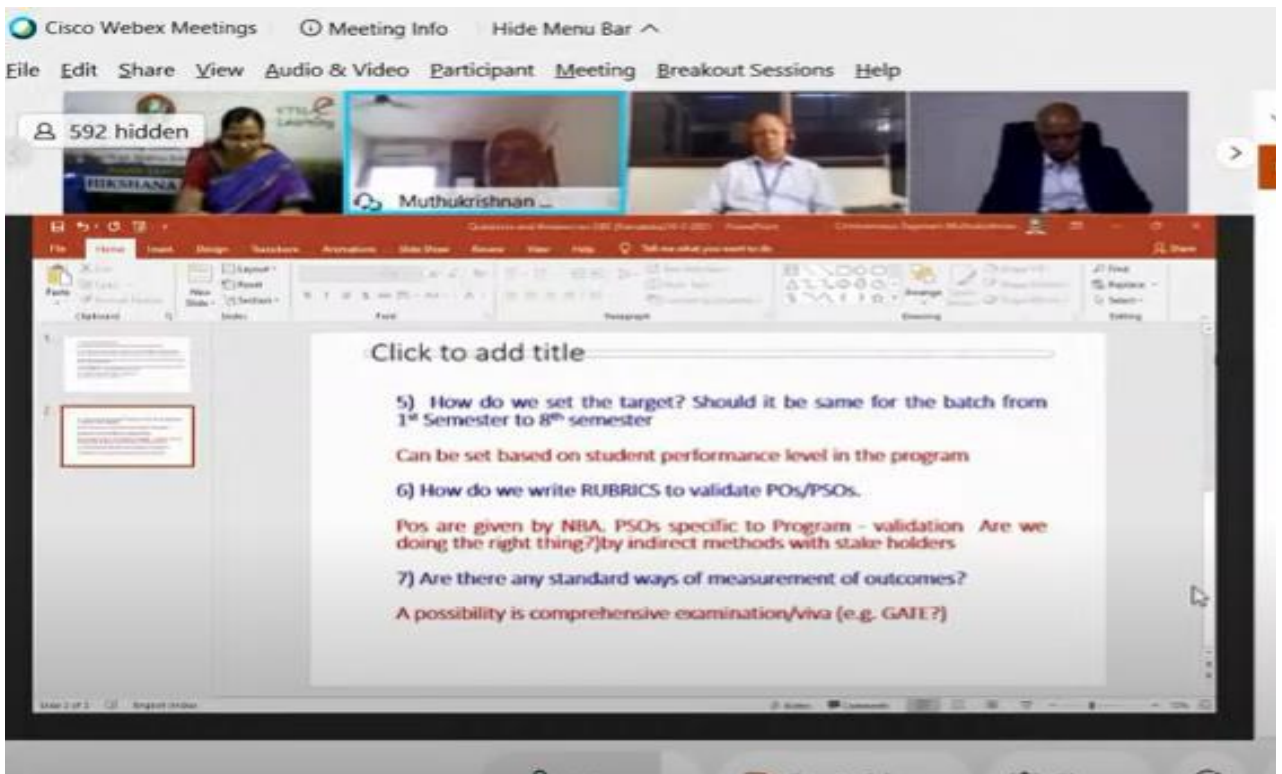
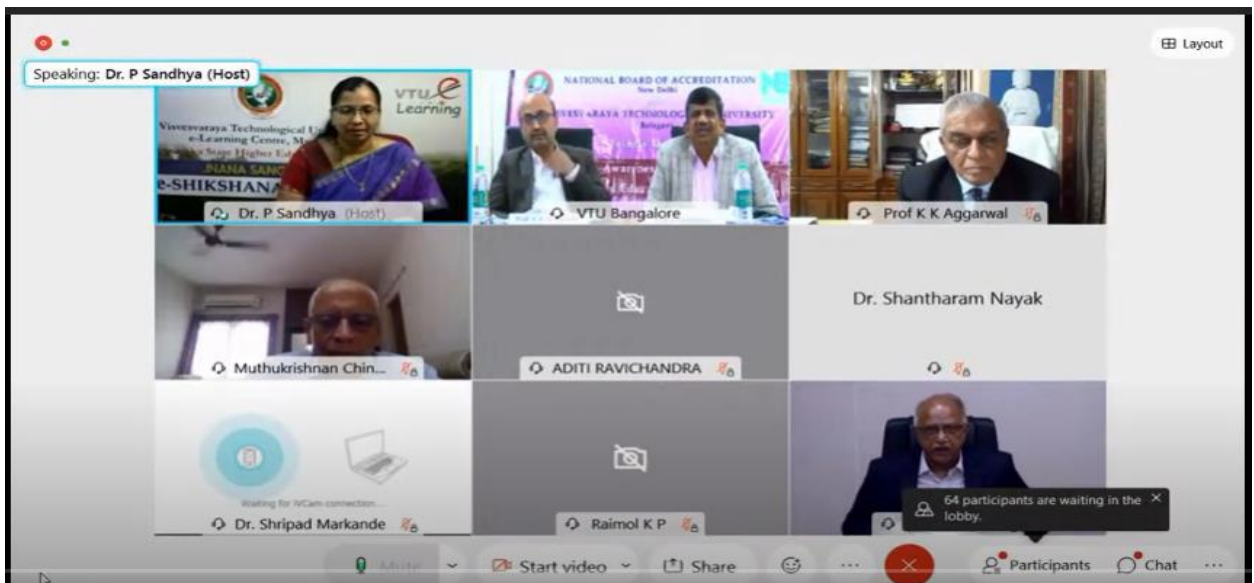
Dr. P Sandhya  
Special Officer, e-Learning Center

Prof. Satish Annigeri  
Registrar Eval., VTU

Prof. A S Deshpande  
Registrar, VTU

REGISTRATION LINK:- <http://bit.ly/ELEARNINGNEP>

- NATIONAL BOARD OF ACCREDITATION and Visvesvaraya Technological University, Belagavi e-Learning Centre, Mysuru Jointly Organizes “Awareness Webinar on Outcome Based Education and Accreditation for Engineering Colleges and Deemed to be Universities in Karnataka” On 16th February 2021 (Annexure-IV)





## X. VTU Online Certification Course

VTU e-Learning Centre is initiated to offer VTU Online Certification Course in the area of Data Science. The teaching-learning contents will be developed in the 4 Quadrant approach. The proposed certification course helps the learning aspirants to build their careers in the area of Data Science. The following courses are approved for Certification Courses

Sl.No	Name of the Course
01	Machine Learning for Data Science using R
02	Data Analysis and Visualization
03	Artificial Intelligence and Machine Learning

## XI. VTU - SWAYAM Local Chapter

VTU e-Learning Centre, Mysuru has set up VTU SWAYAM Local chapter in November 2015. The objective is to create awareness and enable students to obtain certification on different subjects, which makes them more employable or helps them to pursue higher education. The enrollment details for SWAYAM MOOC courses are shown in the below table.

#	Semesters	Courses Offered	Enrollments
1	January - April 2020	390	1395
2	July December 2020	416	1311
3	January - April 2021	505	588

## XII. Online IPR Programme

VTU e-Learning Centre in association with Origin IP Academy, Bengaluru has launched an online course on Intellectual Property Rights (IPR) to make the VTU faculty/students learn various skills needed for research and development. Around 16

candidates have completed the online certification course on IPR and 08 students have enrolled for the course.

### **XIII. VTU Learning Management System: VTU-LMS**

With the present pandemic hitting the world, it is interesting to note that the traditional means of imparting knowledge in institutes of higher education have also been impacted to a considerable extent. In this context, it has become imperative to explore other learning mechanisms one of which is the Virtual Learning Approach. In this scenario, VTU e-Learning Centre, Mysuru has deployed VTU-Learning Management System for the benefit of VTU Stakeholders.

Using VTU-LMS, the faculty can create and disseminate e-content in four-quadrant approaches to their students in a flexible manner. The features of VTU-LMS are personalized dashboard creation, easy to use interface, collaborative tools, automatic alerts and notifications, customized role creation, etc

VTU-LMS can assist to customize the content for teachers' course content and also aid course delivery administrators to track the performance of the students and customize the site as per institutional requirements. **(Annexure - V)**

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