Brief description about different Webinars

1. **Recent trends in Biomedical and Clinical Research - National Conference on March 27, 2022** – The Department of Pharmaceutical Technology, MAKAUT, WB organized an online National

Conference on this theme on March 27, 2022 in collaboration with Indian Association of Pharmaceutical Science & Technology, Kolkata, SDM University, Dharwad and East West College of Pharmacy, Bengaluru.
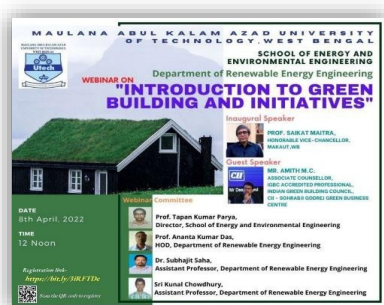
Prof. Saikat Maitra, Hon'ble Vice Chancellor of MAKAUT was the Chief Patron of this National Conference, while Prof. Ramesh Goyal, VC, DIPSARU, New Delhi was the Guest of Honour and delivered his address. The welcome address was given by Prof. Biswajit Mukherjee, Professor, Department of Pharmaceutical Technology, Jadavpur University. Dr N. Udupa, President, IAPST and Dr Subhas Chandra Dinda, Secretary, IAPST were the other distinguished guests. The scientific sessions were chaired by Dr Vishwas Kaveeshwar of SDM University, Dr Srinivas Mutalik of the Manipal College of Pharmaceutical Sciences, Dr Yasavnath Ashokraj of Cipla Ltd and Dr Sandeep Tiwari of BASF, USA

2. **Introduction to Green Building and Initiatives – April 8, 2022** – The Department of Renewable Energy under the School of Energy and Environmental Engineering, MAKAUT, WB organized this webinar which was inaugurated by Prof. Saikat Maitra, Hon'ble Vice Chancellor, MAKAUT. Mr

Amith M.C., Associate Counsellor, IGBC Accredited Professional, Indian Green Building Council was the Guest Speaker in the event. The webinar was attended by Prof. T. K. Parya, Director, School of Energy and Environmental Engineering and Prof. Ananta K Das, Head, Department of Renewable Energy, MAKAUT, WB.

3. **Learning with Earning – March 31, 2022** – The School Connect Division of MAKAUT, WB, in collaboration with the School of Information Science & Technology organized this event which focused on how to make earnings during studies. The programme was inaugurated by the Hon'ble Vice Chancellor of MAKAUT, WB. Tanmay Das, a first year M.Tech student of Data Science gave his account of how freelancing and solo entrepreneurship can become viable career options in today's world. The program created immense interest among the students and generated a great deal of enthusiasm in the audience.

4. **Industry Applications of Chemical Science, Engineering & Technology – April 08, 2022** – This was Lecture Session IV of the Industry-Academia Lecture Series organized by the Department of Applied Chemistry under the School of Natural and Applied Sciences of MAKUT, WB. Dr Gourhari Jana, Head, R&D and Technology Transfer, JSONS Laboratory, Pune gave a talk titled "Manufacturing of API – Intermediate: R&D to Production: An Overview" in the session which was inaugurated by Prof. Saikat Maitra, Hon'ble Vice Chancellor of the University. Several distinguished faculty members from the School were among the panel members. The webinar was followed by a QA session.

5. **Additive Manufacturing and 3D Printing – March 28, 2022** – The Centre for Robotics & 3D Printing organized this webinar. Prof. Saikat Maitra, in his inaugural address, highlighted the importance of this topic and pointed out the initiatives taken by MAKAUT in this field. Prof. Maitra also called for pooling together of resources to create an enabling ecosystem. Dr Manjaiah M of NIT Warangal in his technical session provided an in-depth understanding of the subject and appreciated the effort made by MAKAUT, WB by setting up a separate Centre dedicated to Robotics & 3D Printing. The session was conducted by Prof. Sibamay Dasgupta, Director, School of Engineering Sciences, MAKAUT, WB.

6. **Vaccine Technology withCovid-19 perspective – April 08, 2022** – This webinar was an initiative of the Institute Innovation Cell of MAKAUT, WB.

Dr Subhrojyoti Bhowmick, Clinical Director (Academic) of Peerless Hospital was the keynote speaker who shared his invaluable experience and important perspective pertaining to the topic of the webinar. Prof. Debashis De from the Department of Computer Science, Prof Jaya Bandyopadhyay from the Department of Biotechnology and Prof. C. M. Hossain from the Department of Pharmaceutical Technology, all of MAKAUT, WB were the distinguished panelists. The program was moderated by Mr Prodip Mukhopadhyay, Consultant, MAKAUT, WB. This webinar attracted an enthusiastic and keen audience and was followed by a lively QA session.
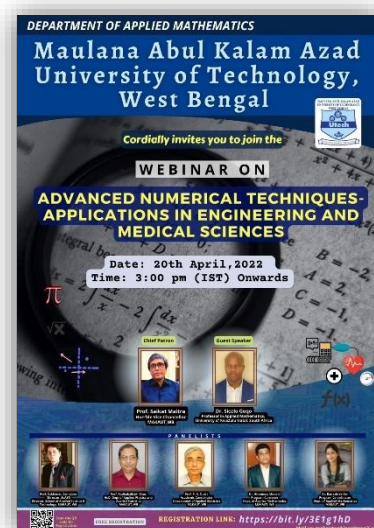
7. **Design of Mixed Signal AI Processor – April 12, 2022** – The

Department of Microelectronics and VLSI Technology under the School ofEngineering Science hosted this webinar which was inaugurated by Prof. Saikat Maitra, Hon'ble Vice Chancellorof the University and had resource persons Prof. Sibamay Dasgupta, Director, School of Engineering Science, Prof. Amitabha Sinha, Senior Professor, and Dr Mihir Kumar Mahata, Faculty Member, Department of Microelectronics and VLSI Technology.

8. **Advanced Numerical Techniques – Applications in Engineering and Medical Sciences – April 20, 2022** – The Department of Applied Mathematics, MAKAUT, WB organized this webinar which had Dr Sicelo Goqo, Professor, Applied Mathematics, University of Kwazulu Natal, South Africa as the Guest Speaker. The panelists included a large number of distinguished faculty members from the School of Natural and Applied Sciences and the Department of Applied Mathematics of MAKAUT, WB. There was extensive discussion on application of advanced numerical techniques in variegated domains of Engineering and Medical Sciences and the wealth of knowledge produced from them. The entire programme was presided over by Prof. Saikat Maitra, Hon'ble Vice Chancellor of the University, who also delivered the inaugural address.

9. **Financial Challenges in Food Industry Entrepreneurship – April 23, 2022** – The Department of Food Science & Technology, MAKAUT, WB organized this webinar where the inaugural speech was delivered by Prof. Saikat Maitra. Prof Maitra highlighted the immense importance being given to start-up and entrepreneurship initiatives by MAKAUT. He also appreciated the efforts by the Department of Food Science & Technology of MAKAUT to spread awareness about entrepreneurship among the students.

Mr Dwigbijoy Banikchoudhury, Associate Member, ICAI and Practising CA provided his perspective of the financial issues and challenges involved in being an entrepreneur in the food industry. Mr Manoj Mishra, Co-Founder, Foodies Agro narrated his experience as an entrepreneur in this domain.

Dr Susmita Chandra, Dr Mousumi Saha and Dr Sonia Kundu, all faculty members of the Department of Food Science also spoke in this webinar. An overall management perspective to entrepreneurship in the food industry including the huge opportunities and tremendous challenges involved in the exercise was outlined by Prof. Sujit Mukherjee of the School of Management Sciences, MAKAUT, WB.

10. **<u>Don't stay addicted to mobile phone – April 23, 2022</u>** – The School Connect Division of MAKAUT, WB organized this online interactive session which was inaugurated by Prof. Saikat Maitra, Hon'ble Vice Chancellor of the University and had resource person in the form of Dr Rakhi Roy, Arachnologist, Academician and Psychologist, BNHS, Kolkata. This was essentially a social awareness program highlighting the lasting damage caused by addiction to mobile phones thereby resulting in prolonged exposure to this device.

11. **<u>Simple tools and techniques for preparation of digital content – April 24, 2021</u>** – In the era of Digital Education particularly following the pandemic induced global lockdown, the importance of digital content has increased manifold in the realm of teaching-learning. To facilitate academics in the digital mode, preparation of proper digital content is very crucial. Digital content has some marked differences with standard content as is delivered in physical mode classrooms. To equip the faculty members with the tools and techniques necessary for the preparation of digital content, MAKAUT, WB organized this webinar where the keynote speech was delivered by Prof. Saikat Maitra, the Hon'ble Vice Chancellor of the University and the tools and techniques were explained in great detail by Mr Pritimoy Sanyal, Head, Technology Cell and Member, Precision Farming Group of the University.

Prof. Maitra dwelt at length on the huge importance of proper digital content in the successful delivery of online education, highlighting, in particular the quality of the digital content delivered by internationally recognized digital education providers. Mr Sanyal painstakingly explained the techniques to be deployed for successful creation of effective and meaningful digital content.

12.

ERP Training-Weekly training starting May 1ˢᵗ, 2020

The faculty members and staff of the University attended training sessions on use of various modules of the ERP system conducted by Mastersoft. Some of the meeting links for the mentioned training are mentioned below:

1) MAKAUT, WB, WEBINAR TEAM is inviting you to Join scheduled Zoom Webinar.

   Topic: "Online ERP Training Session".
   Date: MAY 01, 2021, Time- 4:00 PM India
   Online Training Session Joining Link-
   https://us02web.zoom.us/j/81021423216?pwd=MmxsYzBEcWZ0eHBHcUp0VlZ1WEd0QT09
   Webinar ID:810 2142 3216
   Webinar Passcode:195961
   The training was attended by 194 participants.

13.

   MAKAUT, WB, scheduled Zoom meeting on .

   Topic: ERP File Movement Training.
   Date: May 22, 2021, Time: 12:30 PM India
   Join Zoom Meeting
   https://us02web.zoom.us/j/89642991529?pwd=UTdJOERDcmFTL2owZ3k3RnM0OVVkdz09
   Meeting ID: 896 4299 1529
   Passcode: 913831

   The training was attended by 194 participants.

14.

Report of 5-day Faculty Development Programme on Applications of Artificial Intelligence on Geospatial Data (26ᵗʰ July 2021 to 30ᵗʰ July 2021)

A 5-day Faculty Development Programme on "Applications of Artificial Intelligence on Geospatial Data" sponsored by AICTE Training and Learning (ATAL) Academy was organized by the Department of Information Technology of the Maulana Abul Kalam Azad University of

Technology, West Bengal (MAKAUT, WB) from 26th July 2021 to 30th July 2021. The FDP was coordinated by Dr Somdatta Chakravortty, Associate Professor and Head of Information Technology, MAKAUT, WB. The target audience comprised faculty members, Research Scholars, and Scientists of Engineering/Technology of Colleges/Scientific Institutions/Universities from different states in India.

It was an effort to focus on Geospatial Artificial Intelligence, the intersection of geospatial data and artificial intelligence with engrossing theory and practical sessions by eminent experts in this field.

The event was inaugurated by the Hon'ble Vice-Chancellor of the University, Prof.(Dr.) Saikat Maitra. In his address, he elaborately discussed the applications of Geospatial data in the Environment, Society and our day to day life. The session was also attended by the Registrar of the University, Dr Partha Pratim Lahiri and Director of School, Prof. Debasish De.

DAY-1

Inaugural session (26.07.2021)

It was a privilege to have 12 very eminent researchers and experts in the field of Geoinformatics during the 5-day FDP. The experts and schedule of lectures along with topics are mentioned:

Session wise schedule

	Session-1(9:30am-11:30am)	Break 11:30-11.45	Session-2(11:45am-1:45pm)	Lunch Break 1:45pm-3:00pm	Session-3(3:00pm-5:00pm)
26.7.2021	The Emerging Paradigm of Geospatial AI - A Meta-Analysis of Research and Applications Prof. Sucharita Gopal. Boston University		Mathematical Morphology in Geoscience, Remote Sensing and Geospatial Data Science: An Overview (Prof. Daya Sagar, ISI, Bangalore)		Machine Learning Algorithms for Remotely Sensed Image Classification (Prof. B.K. Mohan, IIT Mumbai)
27.7.2021	Hands-on Session on Transfer Learning Mr. Subhro Dutta, Tata Consultancy Services				Role of ML/DL and BDA in Remote Sensing Applications Dr. Sameer Saran IIRS(Dehradun)
28.7.2021	Sensing and Big Data Analytics in Smart Agriculture (R.N. Sahoo)		Spatial Data Infrastructure and Applications (Prof. S.K. Ghosh, IIT Kharagpur)		Imaging Spectroscopy and Applications (Prof. Ramakrishnan Desikan)
29.7.2021	Hands on Session on Challenges and Uses of GPS Data for Industry IoT Analytics Dr. Tanushyam Chattopadhyay, Tata Consultancy Services				Spatial Data Science and Geo-AI Prof. Shashi Sekhar University of Minnesota
30.7.2021	Big Geospatial Data Analytics (Prof. N. Ramarao, IIST, Trivandrum)		Remote Sensing and GIS (Dr. Balen Basu, Opsis Systems)		Valedictory Session/Feedback

Day-1 Session-II (26.07.2021) by- Prof. B.S. Daya Sagar, Indian Statistical Institute, Bangalore

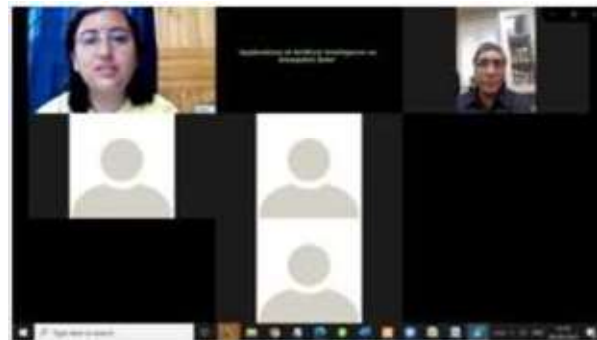Day-1 Session-III (26.07.2021) by- Prof. B.K. Mohan, IIT Mumbai

Day-2 Session-I (27.07.2021) Hands on Session on Transfer Learning by- (Mr. Subhro, Tata Consultancy Services)

Day-2 Session-III (27.07.2021) BY- Dr. Sameer Saran (Indian Institute of Remote Sensing, Dehradun)

Day-4 Session-III (29.07.2021) by- Prof. Shashi Sekhar, University of Minnesota

Day-5 Valedictory session (30.07.2021)

A very fruitful discussion session followed the deliberations and interesting questions were posted by the participants. A discussion blog has been created in which participants are positing their queries even after the programme, thus taking the discussion forward. The FDP ended successfully with an online exam conducted for the participants.

Geospatial AI, the intersection of geospatial data and artificial intelligence, is thus the new frontier of technological innovation that promises to transform entire business industries. For decades, geographic information systems (GIS) have been used widely to present a view of our world based on geographic and geospatial data. This is a significant revolution, expanding the use of geographic data in a way that promises to disrupt entire industries.

15. **Big Data Analytics – 5 day workshop – September 13-18, 2020** – The Department of Information Technology, MAKAUT, WB, in association with Islamic University of Science & Technology (IUST),

J& K, organized a workshop on Big Data Analytics funded by TEQIP III. The resource persons at the Workshop were Prof. Sanasam Ranbir Singh and Prof. Vijaya Saradhi, both faculty members from IIT Guwahati as well as industry professionals in the form of Mr Gaurav Kumar of CTS, Mr Dipanjan Chatterjee of TCS and Mr Sanjay Sikdar of IBM. Dr Somdatta Chakravortty, Head and Sayantani Saha, Faculty Member of the Department of Information Technology were the Program Coordinators. Prof. Saikat Maitra and Prof. Mushtaq A. Siddiqui, Hon'ble Vice

Chancellors of MAKAUT and IUST respectively were the patrons of this five-day Workshop.

The Workshop featured lectures, hands on sessions, practical demonstrations, exercises, case studies and similar activities. The resource persons dealt with, at length, on the efficacy of big data, in terms of volume, velocity, variety and veracity as well as the value added to an organization through the usage of such data sets. The speakers pointed out that all leading technology organizations like Google, Amazon and Mea were extensively using big data technologies to monitor sales, enhance supply chain efficiency and customer satisfaction and predict business outcomes.

In the Workshop, all the four types of big data technologies were discussed, viz. Data Storage (using tools like Apache Hadoop and MongoDB); Data Mining (using tools like Rapidminer and Presto); Data Analytics (employing tools such as Apache Spark and Splunk) and Data Visualization (using Tableau and Looker).

16. **MAKAUT, WB Organized Webinars on AR/VR Every Saturday for the Students from 18.4.2020 Webinars on Augmented Reality and Virtual Reality (AR/VR)** Every Saturday amidst Lockdown
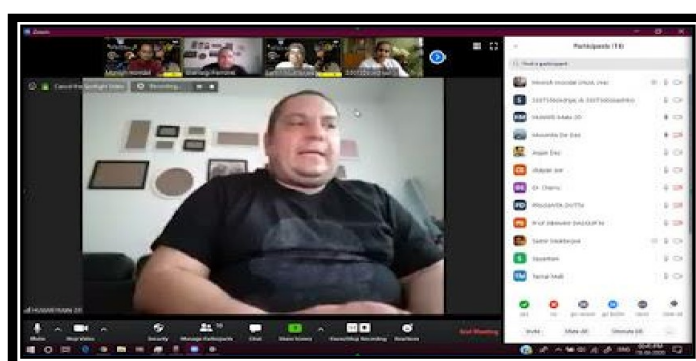
Webinar scheduled on 25.04.20. was delivered byMr. Peter Vesterbacka

Day by day, it is being widely accepted that Virtual Reality and Augmented Reality (VR/AR) technologies are becoming more and more important all over the world in various fields and also in the teaching-learning process. It is needless to mention that medical science, journalism, tourism and entertainment industry have undergone a sea change with the help of these immersive technologies. The reason is that, it is possible to penetrate deep into the subject by using these technologies. Experts are of the opinion that these

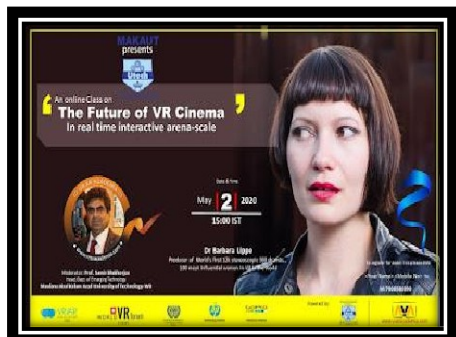technologies will penetrate more into India also in the coming days. It is in this perspective that the Hon'ble Vice Chancellor of MAKAUT, WB Prof. (Dr.) Saikat Maitra took the initiative to organize Webinars every Saturday from 3 pm to 4 pm since 18.04.2020 on various themes encompassing these emerging and immersive technologies for the students of MAKAUT, in the midst of Lockdown imposed to check the spread of Corona Virus. It was decided in an Online Meeting on 14.04.2020, attended by Prof. Maitra, other Officers and Directors of the University and Prof. Samir Mukherjee, the then Head, Department of Emerging Technology & VR/AR/MR/XR of MAKAUT. Before Lockdown, already a Faculty Development Programme (FDP) for 10 days was conducted by MAKAUT at its Salt Lake Campus on these technologies.

The FDP was inaugurated at ITC Sonar, on the 19th of December 2020. The session at Salt Lake Campus of MAKAUT was initiated by Prof. (Dr.) P. N. Dutta of MAKAUT and Prof. Samir Mukherjee on the 18th of January, 2020.

A moment from Perrone's talk on 18th April

The first Webinar was delivered by Mr. Gianluigi Perrone, on **18th April, 2020**. He was from Italy, and is the creator of the Dogma VR Story-telling Method. He is a pioneering movie director who works with virtual reality. He discussed on the ways to tell a VR Story, which was very inspiring for the students. It was attended by 700 students.

The second Webinar was delivered on **25th April, 2020** from 3-4 pm by Mr. Peter Vesterbacka, who was from Finland and is the Developer of Angry Bird. Angry Bird is a 2009 casual puzzle video game. Inspired primarily by a sketch of stylized wingless birds, the game was first released for iOS and Maemo devices in December 2009. It was also attended by 700 students.

Dr. Barbara Lippe was present for the Third Webinar on 02.05.2020

The third Webinar will be on 2nd May, 2020 and the speaker was Dr. Barbara Lippe from Germany. She is the first VR series developer in the world. Dubbed "Björk of Virtual Worlds" Dr Barbara Lippe bridges creativity with a deep knowledge of the business of Extended Reality (XR) entertainment. Having created video-game characters and avatars for virtual worlds in Japan she went on to found entreZ, an award-winning VR content studio premiering one of the world's first 12k stereoscopic 360 dramas. Barbara holds a PhD in game studies, was appointed Head of Curation at VR Days Europe and co-founded the LBVR company Holodeck VR. Researching on

the philosophical implications of XR she speaks at conferences worldwide and has been selected one of the 101 most influential women in VR.

Laurent Chretian talked about AR/VR in the FourthWebinar on 09.05.2020

The schedule for other Webinars was asfollows:

Laurent Chretian	**He is from France,** One of the co-founder of VR Days,	He is a figure in Europe for VR AR MR XR industry, and organizes the biggest show on VR film Festivals in Europe	Saturday **9th May'20** at 03:00 PM
Petteri Jacobsson	**He is from Paris,** Expert in VR Entertainment	Petteri is recognized by the world for introducing VR entertainment in different areas.	Saturday **16th May'20** at 03:00 PM
Salar Sahana	**He is from Switzerland** Founder, WVRF	Salar is a veteran in VR in Switzerland, he is the man who put the VR Legal, Copyright and different aspects of the world.	Saturday **23rd May'20** at 03:00 PM
Eliza Flores	**She is from Brazil,** Founder VR Film Festivals in Brazil	Eliza, is a famous actress, very eminent and and important person in promoting Emerging Technology in South Africa.	Saturday **30th May'20** at 03:00 PM

17. **Digital Education: A New Frontier – April 30, 2020** – MAKAUT, WB is association with Calcutta Management Association, organized this webinar which was attended by a large number of enthusiastic students, faculty members, parents/guardians, digital education providers and others. The resource persons included Dr Santosh Sangem, Associate Dean in charge of Virtual Interactive Learning, XLRI, Prof. Soumyakanti Chakraborty, IIM Calcutta and Mr Atanu Ghosh, Founder and CEO, Bluebeaks Solutions. The University was represented by Prof. The entire program was presided over by Prof. Saikat Maitra, Hon'ble Vice Chancellor, MAKAUT, WB.
In his opening remarks, Prof. Maitra emphasized the growing importance of digital education, not

only in the backdrop of
the COVID-19 induced
unprecedented
lockdown, but also
in the general context of the huge
availability of digital resources and how these are causing a paradigm shift in academics the
world over.

Prof. Santosh Sangem provided an outline of the activities being undertaken in the domain
of interactivelearning in the online mode at XLRI. Prof. Soumyakanti Chakraborty gave an
account of the digital teaching-learning initiatives taken at IIM Calcutta. Prof. Sibamay
Dasgupta, while moderating the discussion, provided his own perspective on digital
education by summarizing the initiatives being taken in different internationally reputed
Universities. All the panelists agreed that while digital education was of paramount
importance, the importance of physical classrooms will continue to exist and a hybrid
(phygital) mode of teaching-learning would probably be the way forward in the days to
come.

18. Online Summer Training on Ethical Hacking from 18.05.2020 for MAKAUT, WB Students

The Department of Forensic Science of Maulana Abul Kalam Azad University of
Technology and Indian School of Ethical
Hacking (ISOEH) organized an Online Summer
Training for the benefit of the students in the
midst of Lockdown. The course was offered at a
very concessional rate.Classes were conducted by
ISOEH faculties. It was attended by 750 students.

ISOEH, training wing of ISOAH Data Securities
Pvt. Ltd.(www.isoah.com) has several years of
experience in IT Security Industry working with
Governments, law enforcement agencies and
Corporate clients.
This school is an effort to impart in-depth IT
security know-how to fresher engineers as well as senior working professionals.

At ISOEH, the training is imparted by only Ethical hackers who are associated with the IT
Security industry over the last 10 years; and are qualified ISO / IEC 27001: 2013 Lead
Auditors, CCNP, CEH (Certified Ethical Hacker), CISSP, CISA, ITIL, OSCP (Offensive
Security Certified Professional).

MAKAUT, WB Creates Awareness about DigitalCommunications: Learnings and Applications

A Journey Towards Digital Domain

Maulana Abul Kalam Azad University of Technology (MAKAUT), WB is relentless in its efforts towards spreading awareness about the digital revolution. With this aim in view, the University organized a Webinar on Digital Communications: Learnings and Applications on **June 15, 2020**.

The keynote address was delivered by the Hon'ble Vice Chancellor of MAKAUT Prof. (Dr.) Saikat Maitra. The other eminent speakers were: Mr, Arup Bose, Chief Client Officer of market research agency IPSOS, United Arab Emirates (UAE), Mr. Pinaki Banerjee, Chief Research Officer of IPSOS, UAE and Prof. Sujit Mukherjee of School of Management Sciences, MAKAUT.

Prof. Maitra in his inspiring speech has rightly pointed out that at present everything is moving in digital domain. Everybody must be aware of this new world. In order to be a part of this digital domain, there must be a massive transformation of the education system worldwide, right from the school level. Prof. Maitra said that Industry 4.0 has already started in many countries and India must be a part of this. In this context it may be mentioned that, 'The Fourth Industrial Revolution' or 'Industry 4.0', is the current transformation of traditional manufacturing and industrial practises with the latest smart technology. This primarily focuses on the use of large-scale machine to machine communication (M2M) and Internet of Things (IoT) deployments to provide increased automation, improved communication and self-monitoring, as well as smart machines that can analyze and diagnose issues without the need for human intervention. Prof. Maitra pointed out that, India must prepare its work force for handling all these features of the industrial sector and it means the future generation must have proficiency in computer.

Prof. Maitra said that a massive work force will be required for managing data, for maintaining network security in the cyber domain. Therefore, the youngsters must be trained in these specific areas to improve their employability.

Moreover, Prof. Maitra pointed out the importance of integrating physical learning system with digital mode to transcend physical boundaries. The importance of such digital mode of learning has been already proved during the ongoing Corona virus

pandemic.

Mr. Arup Bose discussed about the importance of digital communication in marketing. He explained how the distinction between advertisement and content is disappearing in the digital platforms. Mr. Pinaki Banerjee highlighted the increased importance of consumers in this digital era, as they can interact with the marketeers in these platforms.