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5.1.3

Awareness of Trends in Technology

REPORT ON AWARENESS IN TRENDS IN TECHNOLOGY WITH THE PHOTOGRAPHS

One-Week Workshop on State-of-the-Art Technologies in Engineering Conducted by University of Kashmir, IoT Zakura in 2018

In 2018, the University of Kashmir, IoT Zakura, successfully organized a one-week workshop on "State-of-the-Art Technologies in Engineering." The workshop aimed to provide an in-depth understanding of cutting-edge advancements that are reshaping the engineering field. Participants, including students, researchers, and professionals, had the opportunity to engage with a wide array of modern technological topics, such as artificial intelligence, Internet of Things (IoT), automation, sustainable energy solutions, and advanced materials.

The event was designed to bridge the gap between academic knowledge and industry practices, fostering a strong learning environment through technical sessions, expert-led discussions, and hands-on demonstrations. Prominent experts from both academia and industry shared their knowledge, offering participants insights into how these emerging technologies are driving innovation and transforming various sectors.

The workshop also featured interactive sessions where participants collaborated, exchanged ideas, and applied their learning's to real-world scenarios. This initiative by the University of Kashmir aimed to equip participants with the skills and knowledge necessary to keep pace with technological advancements and contribute to solving modern engineering challenges.

By the end of the workshop, attendees had gained not only theoretical knowledge but also practical insights into the future of engineering, making it a pivotal event in shaping the technical competencies of the participants.

2019 : EMMRC KU URGES STUDENTS TO USE DIGITAL EDUCATION PLATFORM

Srinagar, March 19: In the academic interest of the students Educational Multi Media Research Centre University of Kashmir (EMRC) KU has suggested the students that they can still study from the safety of their homes. In a statement issued by Director EMRC KU Dr Shahid Rasool "We urge the students to reach on the digital education platform being provided by the Consortium for Educational Communication in collaboration with Educational Multimedia Research Centres ((EMRC) KU." "We fully support the initiatives being taken by the Government of India in fighting the COVID-19. As a precautionary measure classes have been suspended in most of the educational institutions in India. Nevertheless, the students can still study from the safety of their homes. For this we urge them to reach on the digital education platform being provided by the Consortium for Educational Communication in collaboration with Educational Multimedia Research Centres ((EMRC)," said Dr Shahid Rasool Director EMRC KU. He added while being at home the students could connect with the CEC digital education platforms for the courseware available as below: • E-content courseware in 87 undergraduate subjects available on CEC website. • 11 subject based SWAYAM Prabha DTH channels available on DD free dish, Dish TV and Reliance Jio mobile App. These channels are providing curriculum based educational programs including live lectures in various Higher education subjects which include Humanities, Science, Management, Professional courses,

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Computer science and Indian and classical music. He said these channels are free to air and can also be accessed through your cable operator. • UG and PG MOOCs which were earlier delivered on SWAYAM Platform are being archived and may be accessed by any learner (even not registered in the courses) on: o http://ugcmoocs.inflibnet.ac.in/ugcmoocs/moocs_courses.php "In current semester, CEC is also delivering more than 150 SWAYAM MOOCs for Under Graduate and Post Graduate level. Besides, students can also go to CEC-UGC YouTube channel and make use of unlimited educational curriculum based lectures absolutely free that could help them keep pace with academics at this hour of distress," said Dr Shahid Rasool

Learning in times of pandemic KU'S

EMMRC INTRODUCES DIGITAL LEARNING CORNER (DLC) FOR STUDENTS

Srinagar, April 22, 2020. To provide novel learning opportunities for students during the pandemic, EMRC (Educational Multimedia Research Centre), University of Kashmir (KU), has launched an interactive multimedia platform, the 'Digital Learning Corner (DLC).' The DLC contains courses and course materials developed by renowned subject experts across various disciplines, allowing students to access these resources conveniently, safely, and at their own pace from home.

Due to the ongoing lockdown, schools, colleges, and universities have been unable to function, placing a heavy burden on the education system, particularly on students and scholars.

"Our aim is to bridge that gap and provide quality content to students at all levels—primary, secondary, undergraduate (UG), and postgraduate (PG)—through different media and digital platforms," said Prof. Shahid Rasool, Director of EMRC, KU. He emphasized that the Vice-Chancellor of KU, Prof. Talat Ahmad, has been personally guiding the EMRC team with full support from Registrar Dr. Nisar A. Mir. The University Administration is also backing this initiative to promote online education.

Prof. Rasool further added, "EMRC Srinagar plays a crucial role in delivering content to not only the Union Territories of Jammu & Kashmir and Ladakh but also to learners worldwide." Through platforms such as the Digital Learning Corner, SWAYAM, and YouTube, content developed by institutions like CEC, UGC-Inflibnet, NPTEL, NIOS, IGNOU, NCERT, IIT, Gyan Darshan, AICTE, NITTTR, and IIMB is made freely available to learners. These resources allow students to make the most of the lockdown without needing to leave their homes.

These platforms offer digital e-content for 87 undergraduate subjects as per the UGC model syllabi under the National Mission on Education through ICT (NME-ICT), along with 86 MOOCs for PG students and 203 MOOCs for UG students. "Our centre (EMRC, KU) offers MOOCs on subjects such as Immunology, Economic Botany, Plant Physiology, Algorithms, Psychology for Health & Wellbeing, and Effective Decision Making," Prof. Rasool said.

He also highlighted that KU's YouTube channel, KU Television, which has around 5,000 subscribers, features lectures on Botany, Laparoscopic Surgery, MOOC lectures on Genetics, and other lecture- and discussion-based programmes. In addition to YouTube videos, the channel offers educational documentaries and Google Drive content links for various MOOCs, including content for undergraduate and postgraduate students on subjects such as Languages, Elementary Education, English Teaching, Special Education for Visually Impaired, Home Science, Environmental Science, and Physical Education. The course materials also include a three-year BA Education programme and related enrichment programmes.

The DLC also provides links to educational content for classes 9th to 12th, developed by NCERT and NIOS. Addressing concerns about internet access, Prof. Rasool reassured students that 32 dedicated, free-to-air DTH channels from the Ministry of Human Resource Development (MHRD), which run content 24/7, are available on DD Free Dish, Dish TV, and the Jio app. "All you need to do is request your cable operators to make these channels available on their networks," he added, expressing his hope that in times of COVID-19, it will be mandatory for all cable and DTH operators to carry these educational channels. Requests to this effect have been made to the authorities.

EMRC KU also runs a 24x7 DTH channel on SWAYAM Prabha called SPANDAN, which airs content for students in Botany, Zoology, Biomedical Science, Life Science, Biotechnology, Biochemistry, and Bioinformatics. The programmes follow the UGC curriculum, and the schedule is available on the DLC and the EMRC website.

"Digital and online education is the future, and we need to encourage students to use our available media platforms for their benefit," Prof. Rasool said, adding that "when education is

delivered directly to your devices, there's no need to worry—you just have to tap or click." He also called upon teachers and scholars to contribute by packaging knowledge in digital forms.

To promote digital education, EMRC KU has been utilizing various methods to reach people, including social media, posters, and newspaper publications. Prof. Rasool pledged that no learner would be left behind, affirming that "education is a right, and we, as an educational media centre, are committed to ensuring that education is delivered, which is not only our collective responsibility as a society but also our duty."

Workshop on VISAKA Digital Economy Campaign Conducted by the Directorate of IT&SS, University of Kashmir (2022)

The Directorate of Information Technology & Support Services (ITSS) successfully organized a one-day workshop on the **VISAKA (Vittiya Saksharta Abhiyan) Digital Economy Campaign** in the year 2022. The workshop was part of the ongoing efforts to promote digital literacy and accelerate the adoption of cashless transactions, in alignment with the Government of India's Digital India initiative.

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Special lecture on "Machine learning using Neural Networks (2022)

The Department of Computer Sciences at the Kashmir University's South Campus on Thursday organised a special lecture on "Machine Learning using Neural Networks."The lecture was delivered by research scientist from IBM, California, Dr Sheikh Nasrullah, and was attended by faculty, research scholars and students of the department.Academic Coordinator, Department of Computer Sciences, Dr Hilal Ahamed Khanday, welcomed the guest speaker and participants, and also gave a brief account of the departmental activities.In his lecture, Dr Nasrullah spoke in detail about the machine learning tools and highlighted its importance in the field of computer engineering.He further underlined the role of machine learning in making the healthcare system very robust through artificial intelligence."Days are not far when doctors will be replaced by machine learning tools in curing the patients," he said.Director South Campus Dr Mukhtar Ahmad Khanday gave the concluding remarks and said that machine learning is going to bring a revolution in all the spheres of life."Students should be service providers and need to connect the teaching and research with the industry. The South Campus administration is always ready to support such events," he said, requesting the guest speaker to help the campus students and scholars in placements as well as in joining hands with the industry.Dr Mudasir Muhammad, faculty at the department, presented a vote of thanks.

KU VC inaugurates MeitY -sponsored FDP on 'Artificial Intelligence, Future Communications'

2023 : Vice-Chancellor University of Kashmir, Prof. Nilofer Khan, on Monday inaugurated a 10-day faculty development programme (FDP) on 'Artificial Intelligence and its Role in Future Communications, Signal Processing, and Computing Applications.'

The online FDP has been organised by the Electronics and ICT Academy, NIT Warangal, in association with the Department of Electronics and Instrumentation Technology, University of Kashmir. It is sponsored by the Ministry of Electronics and Information Technology (MeitY), Government of India.

In her presidential remarks, Prof. Nilofer said that with AI domains influencing different aspects of life, academics will have to realign their teaching-learning processes in accordance with the changing requirements to train young students in newer areas of study, like AI and ML.

She added that the University of Kashmir will work on the curriculum and other modalities for the launch of a PG programme in Artificial Intelligence and aim to make it one of the best academic modules in this specialised area.

She congratulated the organisers from KU and NIT Warangal for holding the important FDP, which is being attended by more than 100 faculty members from various engineering institutions and universities across the country.

KU Registrar, Dr. Nisar A. Mir, who was a guest of honour, said that the University will provide full support to such programmes, which aim to build the capacities of faculty members in emerging areas of Artificial Intelligence.

Head of the Department of Electronics at KU, Prof. M. Tariq Banday, said that the current FDP is the second joint effort between the University of Kashmir and ICT Academy, NIT Warangal, to upgrade the capacities of faculty members in AI and its related domains.

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FDP Coordinator from KU, Dr. Javaid A. Sheikh, outlined the objectives of the programme, which, he said, aims to impart new knowledge among participants on AI, new communications, and signal processing applications using AI.

Dr. J. Ravi Kumar, Coordinator from NIT Warangal, also spoke on the occasion.