



MCKV INSTITUTE OF ENGINEERING



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Annual Report

FROM THE DESK OF CHAIRMAN



When the beginning of the year is good then it can be determined to be even better at the end of the year. We started this year with a proud moment as we were recognized as one of the leading educational groups in West Bengal by the esteemed Times of India Group. We have worked tirelessly to see this day so once again I want to congratulate each & everyone from the bottom of my heart. Throughout this year, we have conducted various seminars & activity programs to guide our generation next about future opportunities. To motivate them in core engineering, we yet again conducted several workshops & face to face interactions with industry experts who can give them the appropriate guidance related to the upcoming trends in core engineering studies & emerging career opportunities in the near future. We are glad to inform you that based on our last year's placement record, especially in CSE department, demand grew so much that we increased double the seat count from earlier. In our institute, we always try to teach our students something new beyond their usual syllabus, each and every department organizes a few different seminars, webinars, and workshops on a regular interval based on the social, spiritual, and humanitarian cause to give our students an overall experience of the outer world. We want our students not just to become good engineers in professional life but also can establish themselves as gentle, decent & responsible citizens of society. If we all work together then surely it will be possible.

Mr. Kishan Kumar Kejriwal
Chairman, MCKVIE

FROM THE DESK OF CEO



“ Strive for perfection in everything you do. Take the best that exists and make it better. When it does not exist, design it.” —Sir Henry Royce, British engineer and car designer.

The past year, our students learned through remote modalities and in hybrid mode. It was surely a challenge to keep the bond among the teachers and the students, and also among the students. In this Post-Covid scenario, when we entered our classrooms, we have a generation of students brought up on online platforms. They had long forgotten the art of conversation and the warmth of interaction. Their natural ability to think critically on their own and form unbiased opinions took a back seat in the midst of social media rants and trolls. Teachers are thus set to meet a community in the classrooms who are afraid to voice their opinions. They may even tend to forget the sanctity of boundaries in campus interactions. Teachers needed to restrict the time their students spend on social media and insist on reading extensively, conversing, discussing, and formulating their own opinions. Our students now are educated on a strong code of ethics to distinguish between right and wrong and then have the courage to stand up for what they believe in. I dream the rise of a generation with a mind of their own, who will raise their head and smile when spoken to and who won't do a Google search to find out.

With gratitude, I can say that we still strive with the support of our students, teachers, parents, and alumni. It gave us an opportunity to connect with our alumni virtually and also our parents.

We may never know how much our words and deeds influence the lives around us. But we can choose daily to be a positive inspiration on others in a way that could change the rest of their lives.

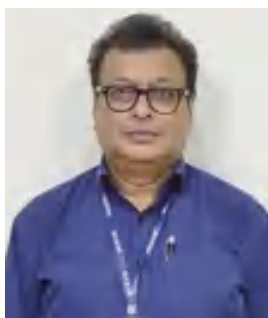
I use this opportunity to appreciate and thank everyone associated with the realization of the report. My sincere gratitude to the management for having faith in me and entrusting the task of developing the College as its CEO.

The Annual Report-2022 is a reflection of MCKVIE's creativity and knowledge. I believe that this will bring out the expressiveness of the MCKV family.

I applaud the College Team and their dedicated committee for their valuable endeavor in bringing out this report.

Prof. (Dr.) Parthasarathi Chakraborty
CEO, MCKV Group

FROM THE DESK OF THE PRINCIPAL



Looking back on this year, I cannot help but be grateful for everything that we have done together. Post-pandemic, the world faced vast challenges and crisis and it was the same for us but fortunately, this year has brought great luck for our institution. This year, MCKV Institute of Engineering joined the industry-oriented internship program in 3D Printing & 3D Scanning to introduce extensive career opportunities to the students. AI, IoT, Robotics, and Machine Learning are creating futuristic career opportunities for new-age engineers and they must combine skills with the ability to visualize future opportunities and challenges in those cutting-edge technologies.

In addition to this, we are also proud to share that Mr. Sohorab Hossain from MCKVIE in association with IIT Madras acted as an expert in designing and implementing a New Ocean Wave Energy Converter to generate power from sea waves which added a new feather to our crown. At MCKV Institute of Engineering, we always motivate students to learn the trending tools and technologies to explore the possibilities of the future. We are confident to continue the same and hope our future will be successful and blessed in all folds.

Prof. (Dr.) Abhijit Lahiri

Principal, MCKVIE

Newsletter and Annual Report Committee

Chairperson: Ms. Soma Bandyopadhyay

Convenor: Dr. Debopoma Kar Ray

Members: Ms. Mahua Nandy Pal

Ms. Juin Ghosh Sarkar

Mr. Subir Bhadra

Ms. Nabamita Majumdar

Mr. Nabankur Mandal

Mr. Tushar Kanti De

Ms. Mahua Raha Patra

Mr. Dhiman Bhattacharyya

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HIGH LIGHTS

Awards Received

MCKV Institute of Engineering received Certificate of Excellence in pursuit of excellence towards practicing Sustainable Education and secured a rank of 67 across India in the Green Institutional Rankings 2022.



Glimpses of the momentous occasion when the Chairman of MCKV Group - Sri. Kishan Kumar Kejriwal received the prestigious recognition from ABP Ananda News for Excellence in Industry Oriented Learning on behalf of MCKV Institute of Engineering.

Our Chairman Mr. Kishan Kumar Kejriwal has been felicitated by ASSOCHAM with the "Team Leader Award" at the ASSOCHAM Leadership Conclave & Excellence Awards 2022.



Mr. Kishan Kumar Kejriwal is felicitated by ASSOCHAM



MoU with Elmax Systems & Solutions Pvt. Ltd.

MOU Signed

Department of Mechanical Engineering signed MoU with Elmax Systems & Solutions Pvt. Ltd. On 4th January, 2022.

CAMPUS NEWS

Inauguration ceremony of The Electrical Vehicle Laboratory in collaboration with , Logiczap NextGen Technologies and the centre of Excellence in 3D Printing was held on 11th May, 2022.



Inauguration ceremony of The Electrical Vehicle Laboratory and the centre of Excellence in 3D Printing

STUDENTS' ACHIEVEMENTS

Itika Sarkar of ECE 8th semester secured 3rd position in IET Young Engineers Award, 2022 in May, 2022.

Vishal Mishra of ECE 8th semester present a poster in Appscicon ,School of Applied Science & Technology, Maulana Abul Kalam Azad University in May, 2022

Anuska Sil of ECE 8th semester secured finalist position in project presentation in IET Young Engineers Award, 2022 in May, 2022.

Saumyapratim Das of ECE 4th semester secured 2nd position in Publication of article in a National media portal Pulse.exe in June, 2022.

Avinaba Ghosh, Sourav Rakshit, Animesh Talapatra, "Design of thermal management system for lithium-ion battery pack using thermoelectric cooling system" In proceedings of APPSCICON 22, An interdisciplinary National Conference, pp.216, 27th -28th May , 2022. .

Rit Prasad Dhar, Pratyay Ghosh, Sudipto Chaki, "Optimization of Fused Deposition Modelling process using Taguchi Method" In proceedings of APPSCICON 22, An interdisciplinary National Conference, pp.218, 27th -28th May , 2022.

Ankita Das of ECE 7th semester became Top Contributor in the Crowdsourc #Vocalize campaign in July, 2022.

Tanmoy Pradhan of CSE(DS) 3rd sem received certificate of excellence in "Nasscom Python" on 10th August, 2022.

Bijit Sen of VLSI 5th semester got Best Portrait Photograph award from World Photographic Forum in September, 2022.

Smart India Hackathon Grand Finale, 2022

Vikas Prajapath, Bhawna Bothra, Khushboo Ojha, Shabaz Ahmed and Khushi Jhunjhunwala of CSE 7th Semester are the finalist team members of Smart India Hackathon, 2022, organised by Ministry of Education, Innovation cell, AICTE.

Debopriya Dey of ECE Department and Shreyansh Bhauntyal, Gaurav Modi, Bishal Pandit, Ishika Ghosh and Harsh Baid from CSE Department participated in Smart India Hackathon Grand Finale, 2022.



Smart India Hackathon Grand Finale, 2022

Soujannya Deb, Aftab Mallick, Joy Karmakar, Priyabrata Shee, Arpita Dey, Sounak Pramanik of CSE(DS) 5th sem participated in Smart India Hackathon Grand Finale, 2022, organised by Ministry of Education, Innovation cell, AICTE, Persistent Systems on 26th August, 2022 in Hindustan Institute of Technology Coimbatore Tamil Nadu.



Smart India Hackathon Grand Finale, 2022



Hyland India Hackathon

This hackathon, organised by Hyland India, was based on a theme - "Innovate for the future". Pratik Kumar Agarwal, Ishika Ghosh and Harsh Baid proposed an idea of creating a digital garage ecosystem. In which, one can locate a nearby garage on their mobile phones, they can digitally register for a garage spot, and also can monitor their cars on their screens.

Sourav Chandra and Sukanta Roy of CSE Department were the winners of Coding competition, organized by Rotaract Club of MCKVIE on 7th March, 2022.

Shreya Sen of ECE 4th semester has secured 4th position in Photography, Kolkata.

Priyanka Adhikary of ECE 4th Semester has secured 3rd position in "Code Quest" Competition.

Soumyadeep Banerjee of EE 3rd year presented a paper titled " Load Inspection of Smart Building for Electrical Safety: A Case Study" at All India Seminar on Electrical Safety-2022 National Campaign on Electrical Safety at Residential , Commercial & Public Building & Utility, during the tenure 18th -19th November, 2022 pp. 76-80.



Anubhav Mukherjee & Neha Dolui of CSE won the tiitle "Hackstar" at ABP Infocom held at ITC Sonar on 3rd December, 2022.

FACULTY ACHIEVEMENTS

- **Dr. Juin Ghosh Sarkar** has received her doctorate degree on 14th March 2022 from the University of Kalyani.
- **Dr. Prasenjit Chatterjee** ranked in the World Scientist and University Rankings 2022 in Decision Science and Operations Management. **Dr. Debapriya De**, **Dr. Arun Kr. Jalan** also ranked in the World Scientist and University Rankings 2022 in Natural Sciences and Operations Management respectively. **Dr. Swarup Kumar Mitra** and **Dr. Sudipto Chaki** ranked in the World Scientist and University Rankings 2022 in the field of Engineering and Technology **Dr. Dipankar Ghosh** and **Mr. Soumyajit Ghorai** are also part of this list.
- **Dr. Satadal Saha** has been appointed by Regent Eduaction & Reseach Foundation as an Advisor(NAAC,NBA.)
- **Dr. Prasenjit Chatterjee** contributed as a resource person in “**Summer Workshop on Applications of Mathematics in Various Real World Problems (SWAM'2022)**”, organized by BIT Mesra on 19th May 2022.
- **Mr. Animesh Talapatra**, Asst. Prof., Automobile Engg Dept. has submitted Ph.D. (Engg) thesis on 23rd May, 2022 under guidance of Dr. Debasis Datta, Dept. of Mechanical Engineering, IEST, Shibpur.
- **Mr. Animesh Talapatra**, Asst. Prof., AUE dept. has received MIE membership in the Institute of Engineers (IEI) (India) on 16th June, 2022.
- Under the tutelage of **Dr. S. S. Thakur**, **Soma Bandyopadhyay** submitted PhD thesis in MAKAUT on 27th June, 2022.
- **Mr. Diptayan Bhattacheryya** have become a member of International Business Council in June 2022.
- **Dr. Prasenjit Chatterjee** have become a Distinguished International Collaborative Researcher at School of Engineering, Universidad Católica del Norte, Chile for a period of 3 years from 15th June 2022 to 14th June 2025.
- **Moumita Goswami**, **Mahua Nandy Pal** received second best paper award for the paper "An IoT based Smart Band to Fight Against COVID 19 Pandemic", in 1st International Conference on Computational Intelligence for Engineering and Management Applications (CIEMA) 2022 in March, 2022.
- **Mr. Avijit Bose** completed the 8 week course on “**Strategy- An Introduction to Game Theory**” from NPTEL(IIT Madras) in July-September Session.

- **Mr. Drupad Roy**, Laboratory Instructor, ME Dept. has been enrolled as Provisional Ph.D. scholar in the Industrial Engineering and Management discipline in the Maulana Abul Kalam Azad University of Technology, West Bengal on 1st September, 2022.
- **Mr. Drupad Roy** has become 5% topper and received Elite + Silver (83 % score) certificate in an 8 weeks course on “**Biomechanics of Joints and Orthopedic Implants**” and also received FDP certificate for same course in August to October 2022 session. He received Elite (72 % score) certificate in an 8 weeks course on “**Introduction to Machine Learning**” and also received FDP certificate for same course in July to September 2022 session. He received Elite + Silver (78 % score) certificate in 12 weeks course on “**Introduction to Composites**” and also received FDP certificate for same course in July to October 2022 session.
- **Dr Swarup Kumar Mitra** acted as a Judge in Annual Science Exhibition on 20th October 2022 organized by Don Bosco School (DBL), Liluah, Howrah West Bengal, India.
- **Dr Swarup Kumar Mitra** was appointed as an External Moderator for ODD Semester Examinations 2022-23 of Brainware University and MAKAUT.
- **Dr. Swarup Kumar Mitra** acted as Co-Supervisor of Rathindranath Biswas along with Prof. Mrinal Kanti Naskar, Department of ETCE, Jadavpur University.
- **Dr. Swarup Kumar Mitra** was placed among the World Scientist and University Rankings 2023.
- **Mr. Diptayan Bhattacheryya** conferred the Jewel of India award by the Economic Growth Foundation, New Delhi on 15th December 2022.

EXTRACURRICULAR ACTIVITY



Event on Cyber Security

Bhawna Bhotra-3rd Year and Suchi Kumari-2nd year student of CSE Department received award for being winner in district- wise fastest course completion under Secure Bengal 2021 Hackathon & Learning Challenge on Application Security organised by Cyber Security Centre of Excellence, West Bengal in association with NASSC

Cyber Security Centre of Excellence, Dept of IT & E, Govt of West Bengal; and Indian School of Ethical Hacking (ISOEH) jointly hosted a daylong event on cyber security on 24th March 2022 at Najrul Tirtha, NewTown, Kolkata, where eminent researchers, senior police personnel, start-ups, corporate experts discussed about present and future of Information Security. The program had a 2-hour hackathon open to students and corporate where two teams from MCKVIE participated.



Bhawna Bhotra Received an Award

Campus News

CSE Department organized **Brainrush 2k22** on 10th March, 2022.

BrainRush is a flagship non-technical intra-college competition. This fun-filled event checks the students' ability and acts as an ice breaker between the newly joining freshers and the seniors of the college. The event registered a record-breaking participation from 167 teams, each consisting of 3 members, which is the highest ever in the past six years.



Brainrush 2k22



One Day workshop on 'Familiarization with Virtual Laboratory for Engineering Courses'



One Day workshop on 'Familiarization with Virtual Laboratory for Engineering Courses' was held on 29th March, 2022 was organized by MCKVIE in collaboration with IIT Kharagpur.



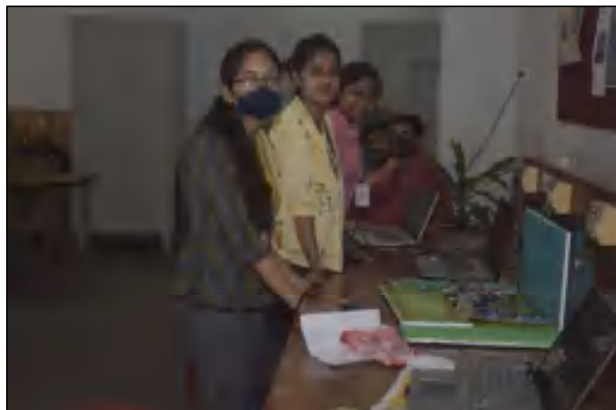
Smart India Hackathon 2K22

MCKV Institute of Engineering organized **Smart India Hackathon 2K22** on 28th March, 2022 in the college campus.

14 groups comprised of 6 students each have participated. 10 groups were shortlisted for Smart India Hackathon, 2022. Moumita Goswami from CSE Department was the SPOC of the event.

Campus News

Intra College Technical Project Competition (Technotica 2021-22) was organized by MCKV Institute of Engineering in association with IEEE SSCS Kolkata Chapter on 31st March, 2022. Total 12 teams participated in the final round of the competition and presented their work in front of external judge and other students/faculties of the institute. Soham Banerjee, Anubhab Mukherjee and Neha Dolui of CSE Department received first prize in Technotica 2021-22.. Palash Bag, Sandip Chakraborty of EE 4th year has secured 3rd position in Technotica-21-22 with project title, “Medi well”, on 31st March, 2022.



Technotica 2021-2022

“Cyber Security” awareness program was organized on 6th July, 2022, 3rd August, 2022 and 7th September, 2022.



Cyber Security” awareness program

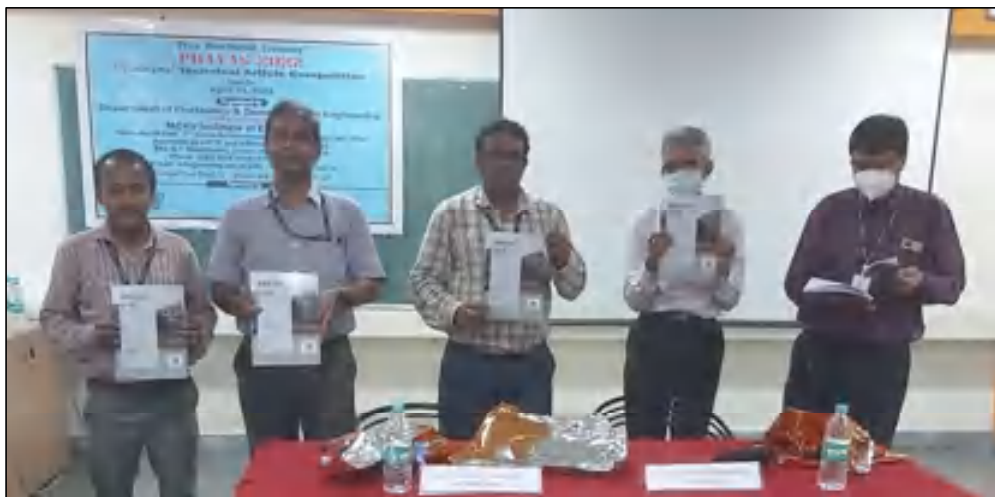
Campus News

Quizathone 2022 was organised on 16th August, 2022. The Faculty members and staff members of different have participated in the program



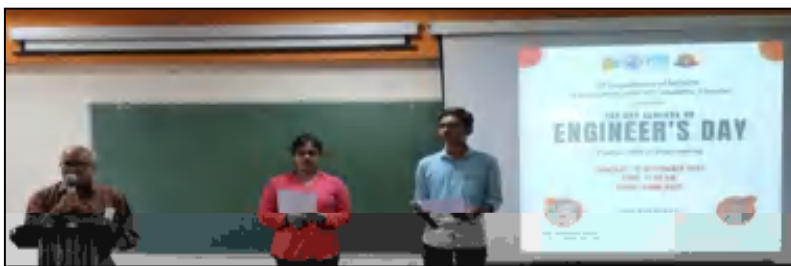
Quizathone 2022

Prayas –Students’ Technical Article Competition (PRAYAS-2022) was organized by ECE Department of MCKVIE on 30th April, 2022 sponsored by IET(UK) Kolkata Local Network. Students of different engineering colleges and universities were participated. 17 papers were shortlisted for presentation.



PRAYAS-2022

IT Department in collaboration with IE(I) organized a one day seminar on “Role of Engineering” to celebrate the occasion of Engineer’s Day on 15th September, 2022.



Celebration of Engineer’s Day

With the initiative of **Dr. Tamal Roy** and **Dr. Debopoma Kar Ray**, EE department has successfully done Energy Audit of MCKVIE campus during the tenure 20th to 30th October, 2022 along with the EE 3rd year students.

RESEARCH PAPER PUBLICATIONS

AUE Department

Journal

- **Animesh Talapatra**, D. Datta, “A review of the mechanical, thermal and tribological properties of graphene reinforced polymer nano composites: a molecular dynamic simulations method”, Polymer Bulletin, DOI: 10.1007/s00289-022-0426-z.
- **Tapas Biswas, Sudipto Chaki**, “Applications of Modified Simple Additive Weighting Method in Manufacturing Environment”. International Journal of Engineering, 35 (4), pp. 830-836, 2022, DOI: 10.5829/ije.2022.35.04A.23
- **Dr. Sudipto Chaki** "Optimisation of spot welding process using Taguchi based Cuckoo search algorithm", Decision Making: Application in Management and Engineering, 2022, doi:10.31181/dmame0318062022 (online first).
- **Mr.Tapas Kumar Biswas** "Applications of Modified Simple Additive Weighting Method in Manufacturing Environment", International Journal of Engineering, vol. 35, p.830-836, April, 2022.
- **Animesh Talapatra**, Debasis Datta “A review of the mechanical, thermal and tribological properties of graphene reinforced polymer nanocomposites: a molecular dynamics simulations method”, Polymer Bulletin (Springer), vol.00, pp. 00–00, April, 2022. DOI: 10.1007/s00289-022-04216-z.
- **Sudipto Chaki, Tapas Kumar Biswas**, “An ANN-entropy-FA model for prediction and optimisation of biodiesel-based engine performance”, Applied Soft Computing, Elsevier, 2022, 109929, ISSN 1568-4946 (Impact Factor: 8.263), <https://doi.org/10.1016/j.asoc.2022.109929>.

Book Chapter

- **Sudipto Chaki** "Application of Artificial Neural Networks to Estimate Tensile Strength of Austenitic Stainless Steel During Metal Inert Gas Welding Process." , In Artificial Neural Network Applications in Business and Engineering. pp.197-221. 2021, DOI: 10.4018/978-1-7998-3238-6.ch009, Scopus.Book chapter.

Conference

- **Sudipto Chaki**, “Optimization of Spot-Welding process using Taguchi based Cuckoo Search Algorithm”, in proceedings 1st International Conference on Computational Intelligence for Engineering and Management Applications (CIEMA – 2022), March 26-27, 2022.

Basic Science Department

Journal

- Binoy Krishna Ghosh, **Dipankar Ghosh**, Mousumi Basu, “Generation of stable temporal doublet by a single-mode silicon core optical fiber,” Journal of Optics (IOP, Print ISSN: 2040-8978, Online ISSN: 2040-8986, Impact Factor: 2.516), vol. 25, no. 5, p. 055503 (12pp), 2022 (March). DOI: 10.1088/2040-8986/ac5b50.

Book Chapter

- B.K. Ghosh, S. Adhikary, R. Chatterjee, D. Chowdhury, N. Bose, **Dipankar Ghosh**, M. Basu, “Parabolic Pulse Generation by Dispersion Increasing Chalcogenide Fiber (DICF) in Normal Dispersion Regime,” Lecture Notes in Networks and Systems (Springer Science and Business Media Deutschland GmbH, ISSN: 23673370, ISBN: 978-981158365-0), Volume 147, 2021, Pages 336-343, DOI: 10.1007/978-981-15-8366-7_49.
- S. Adhikary, B.K. Ghosh, R. Chatterjee, **Dipankar Ghosh**, N. Bose, M. Basu, “Interaction of a Pair of Parabolic Self-similar Pulses in Nonlinearity Varying Chalcogenide Fibers (NVCFs),” Lecture Notes in Networks and Systems (Springer Science and Business Media Deutschland GmbH, ISSN: 23673370, ISBN: 978-981158365-0), Volume 147, 2021, Pages 275-281, DOI: 10.1007/978-981-15-8366-7_39.

CSE Department

Journal

- **Rachita Ghoshhajra**, Kalyan Biswas, Angsuman Sarkar, "Device Performance Prediction of Nanoscale Junctionless FinFET Using MISO Artificial Neural Network", Silicon, E-first, 7th January, 2022.
- **S. Bandyopadhyay, S. S. Thakur**, and J.K.Mandal Emotion detection for online recommender system using deep learning: a proposed method. Published in Innovations in Systems and Software Engineering, (2022). On 17th May, 2022.

Book Chapter

- Kalyan Biswas, **Rachita Ghoshhajra**, Angsuman Sarkar, "High Electron Mobility Transistor: Physics-Based TCAD Simulation and Performance Analysis", HEMT Technology and Applications, Springer, Singapore , pp:155-179, published online 23rd June, 2022 <https://doi.org/10.1007/978-981-19-2165-0> .
- **Mahua Nandy Pal**, Minakshi Banerjee, Shuvankar Roy, "Deep Learning Supported Evaluation of Retinal Vessel Enhancement Techniques", Advances in Data Science and Computing Technology - Methodology and Applications, Apple Academic Press (a unit of CRC Press, Taylor & Francis Group ,USA), Published 13th June, 2022 - Book Chapter.
- Shuvankar Roy, **Mahua Nandy Pal**, "An Efficient and Optimized Deep Neural Network Architecture for Hand Written Digit Recognition", Advances in Data Science and Computing Technology - Methodology and Applications, Apple Academic Press (a unit of CRC Press, Taylor & Francis Group ,USA), Published 13th June, 2022 - Book Chapter.
- **Mahua Nandy Pal**, Minakshi Banerjee, Retinal Vessel Enhancement Evaluation on DRIVE dataset from CNN Performance, "Machine Learning Algorithms for Engineering Applications: Future Trends and Research Directions" Nova Science Publishers Inc. USA. Published 29th June, 2022 - Book Chapter.

Conference

- **Avijit Bose A**, P. Sarkar, " Futuristic Cvcloud Market Game Theoretic Equilibrium" in Proceedings of International Conference on Industrial Instrumentation and Control, Lecture Notes in Electrical Engineering, Vol 815, Springer, Singapore. Published: 1st January, 2022.
- Muppala Sunny Chowdhary, Jacob Jasper Roy Paga, **Sasmita S. Choudhury**, SachiNandan Mohanty and Meera Gandhi." InteliCrop: An Ensemble Model to Predict Crop using Machine Learning Algorithms", in Proceedings of IEEE International Conference on Advances in Computing, Communication and Applied Informatics (ACCAI -2022) Organised by :St. Joseph's College of Engineering, Chennai, Tamil Nadu, India 28th & 29th January, 2022.

ECE Department

Journal

- **Subhasish Banerjee**, P. Monda, IM. Ghosh, "Realization of a reconfigurable Butterworth and Bessel filter using single operational transresistance amplifier and study of their performance. International Journal of Numerical Modelling: Electronic Networks, Devices and Fields, e2987.
- R. N. Biswas, **Swarup Kumar Mitra**, M. K. Naskar, "Localization under node capture attacks using fuzzy based anchor mobility control", Journal of Ambient Intelligence and Humanized Computing, 1-30.
- S. Coomar, S. Mondal, **R. Sanyal**, "Polarization-insensitive ultrathin fractal shaped frequency selective surface for ultra wide band shielding", AEU-International Journal of Electronics and Communications, 147, 154141.
- **Subhasish Banerjee**, M. Ghosh, P. Mondal, A. Ranjan, "Third order inverse multifunction filter employing MOS resistors and capacitors", International Journal of Numerical Modelling: Electronic Networks, Devices and Fields, e3002.
- T. Patra and **Swarup Kumar Mitra**, "Performance Analysis of a Rain Fading Predicted Model in Tropical Areas for 5G Communication." *Progress In Electromagnetics Research M*, 110, 49-59, 2022.

- **J. Banerjee**, “Comparison of cross couple MOS based and Schottky diode based RF energy harvesting circuits using Wilkinson power combiner.” *Frequenz*, 2022.
- J. P. Sarkar, I. Saha, N. Ghosh, **Debasree Maity** and D. Plewczynski, “Online Predictor Using Machine Learning to Predict Novel Coronavirus and Other Pathogenic Viruses”. *ACS omega*, 2022.
- T. Patra and **Swarup Kumar Mitra**, “Resource optimization of MIMO using neural network for 5G communication.” *Alexandria Engineering Journal*, 61(12), 12581-12592, 2022.
- Mazumder, P., Chandra, **S., Rana**, S., Mukhopadhyay, M., & Naskar, M. K. (2022). Parallel Hardware Implementation of Walsh Hadamard Transform. *Journal of Scientific & Industrial Research*, 81(07), 748-753.

Book Chapter

- **Kalyan Biswas**, Angsuman Sarkar, “Analog and RF Performance Analysis and Its Sensitivity to Critical Geometrical Parameters in Junctionless Accumulation Mode Bulk FinFET” in the book: *Low-Dimensional Nanoelectronic Devices Theoretical Analysis and Cutting-Edge Research*, published by CRC Press .
- **Kalyan Biswas** and Angsuman Sarkar, “Analog and RF Performance Analysis and Its Sensitivity to Critical Geometrical Parameters in Junctionless Accumulation Mode Bulk FinFET”. In *Low-Dimensional Nanoelectronic Devices* (pp. 69-93). Apple Academic Press, 2022.
- **Kalyan Biswas**, **Rachita Ghoshhajra** and Angsuman Sarkar, “High Electron Mobility Transistor: Physics-Based TCAD Simulation and Performance Analysis. In *HEMT Technology and Applications* (pp. 155-179). Springer, Singapore, 2023.

EE Department

Journal

- **Suchismita Ghosh**, “MATLAB Simulation of Circle Diagram in Three Phase Induction Motor”, *IETE Journal of Education*, Jan, 2022. DOI: 10.1080/09747338.2022.204439
- S. Dasgupta, A. Baral, **Abhijit Lahiri**, “Estimation of electric stress in a vacuum interrupter using Multiple Linear Regression”, *IEEE Transactions on Dielectrics & Electrical Insulation*, Vol. 29, no. 3, June, 2022, pp. 859-865.
- **Chandrani Sadhukhan**, **Swarup Kumar Mitra**, **S. Bhattacharyya**, E. Almatrafi, B. Saleh and M. K. Naskar, “Modeling and simulation of high energy density lithium-ion battery for multiple fault detection”. *Scientific Reports*, 12(1), 1-13, 2022
- S. Dasgupta, A. Baral and **Abhijit Lahiri**, "Optimization of Electric Stress in a Vacuum Interrupter Using Charnes' Big M Algorithm," in *IEEE Transactions on Dielectrics and Electrical Insulation*, doi: 10.1109/TDEI.2022.3231224.
- A. Banerjee, N. Bose and **Abhijit Lahiri**, "Effect of Zinc Oxide Nanofiller on the Dielectric Thermal and Optical Properties of Polypropylene," in *IEEE Transactions on Industry Applications*(In Press).

Book Chapter

- **Suman Das**, "IPMC as EMG Sensor to Diagnose Human Arm Activity", *Proceedings of International Conference on Industrial Instrumentation and Control. Lecture Notes in Electrical Engineering*, Springer, Singapore, Chapter-11, https://doi.org/10.1007/978-981-16-7011-4_11, Vol. 815, pp. 111-117, 2022.

ME Department

Journal

- **Soutrik Bose**, T. Nandi, “Improvement in performance measures by desirability coupled with Lean Six Sigma tool on titanium matrix composite: a novel approach”, *International Journal of Six Sigma and Competitive Advantage*, Vol. 13, no. 1-3, pp. 38-54.
- **Jaideep Dutta**, **Nabankur Mandal**, **Prasenjit Chatterjee** and **G. Kibria**, “Evaluation of thermal characteristics of laser induced heating of microfilm in relation to printed circuit board

manufacturing”. Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering, 09544089221116165, 2022.

- **Soutrik Bose**, T. Nandi, "DMOGA on performance measures of WEDM for titanium matrix composite". Materials Today: Proceedings. Online First Published on 11.11.22.

Conference

- **Mr. Biswajit Gayen**, “Assessment of Micro – mixing Process of Electroosmotic Flow in a Microchannel”, in proceedings of International Conference on Thermal Engineering and Management Advances ICTEMA2022, at Jalpaiguri Govt. Engineering College, India on 15th to 16th January 2022.
- **Mr. Nabankur Mandal**, “Evaluation of Thermal Characteristics of Laser Induced Heating of Microfilm for Printed Circuit Board (PCB) Manufacturing”, in proceedings of International Conference on THIN-FILM Processing and Application (ICTFPA-2022) on jointly organized by MATS University jointly with CEMMPRE-University of Coimbra, School of Sciences-University of Minho, and University of Johannesburg, during 4th and 5th March, 2022.
- **Mr. Nabankur Mandal**, “An Industrial Robot Selection Model using logarithm methodology of Additive Weights and Multi-Attributive Border Approximation Method” and “Material Selection for Mechanical Components: A Novel Distance-Based Approach”, in proceedings of 1st International Conference on Computational Intelligence for Engineering and Management Applications (CIEMA) – 2022 on jointly organized by Regional Association for Security and Crisis Management, Serbia, Mathematical Institute of the Serbian Academy of Sciences and Arts, MCKV Institute of Engineering, W.B. and CT Institute of Engineering, Management & Technology, Punjab, India, during 26th and 27th March, 2022.

MSH Department

Conference

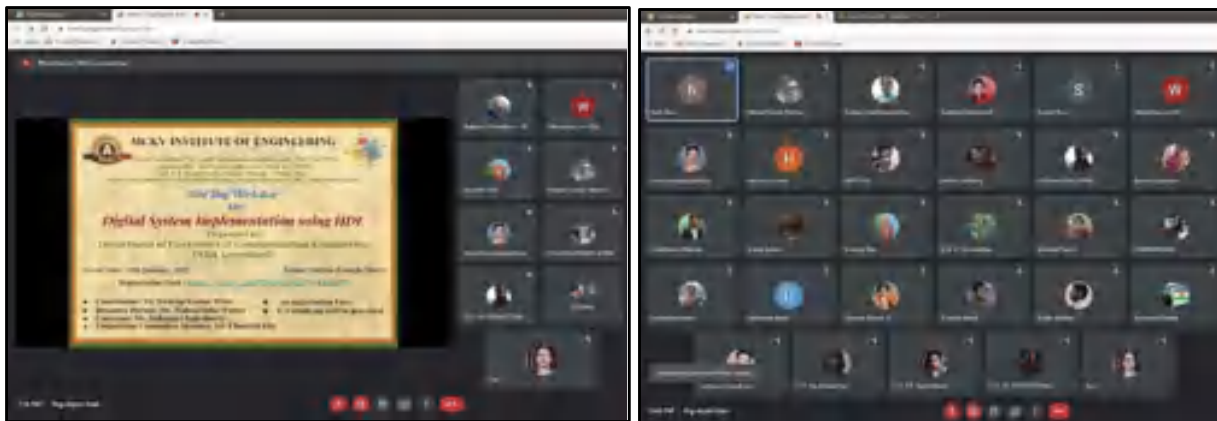
- **Kalipada Senapati**, ‘The Trend of Indian organized retail sector: A forecast with double exponential smoothing technique’, in proceedings of e-NCLAVE 2022 organized by NSHM Business School on 17th and 18th February 2022.

NDLI Club Events organized by MCKVIE

Sl No	Date	Topic	Resource Person
1	16.01.2022	User Awareness Session	Prof.(Dr.) Parthasarathi Chakraborti, CEO (MCKV Group) Dr. Krishnendu Chattopadhyay, Chairman – Library Committee, MCKVIE Mr. Avijit Bose, HOD (CSE Dept.), MCKVIE Mr. Tapas Kanti Sarkar, In-Charge, Library, MCKVIE
2	28.06.2022	Social Media and the Fear of missing out – the impact on Mental Well Being	Ms. Satakshi Ghoshal, Student Counselor, MCKVIE
3	27.08.2022	Value Education	By Ms. Susmita Sarkar, Asst. Prof. of ECE Dept., MCKVIE
4	24.09.2022	The Art of Public Speaking	By Mr. Asish Kumar Bose, Asst. Prof. of MSH Dept., MCKVIE
5	28.10.2022	Digital Reading and its’ importance	By Mr. Suvankar Dasgupta, Project Management Professional, Abu Dhabi National Oil Company, UAE.
6	18.11.2022	Human Learning VS Machine Learning	By Dr. Shampa Sengupta, Associate Prof. of IT Dept., MCKVIE

Seminar / Workshop / FDPs / Webinar Organized

ECE Department organized one day workshop on “**Digital System Implementation using HDL**” on 12th January, 2022.



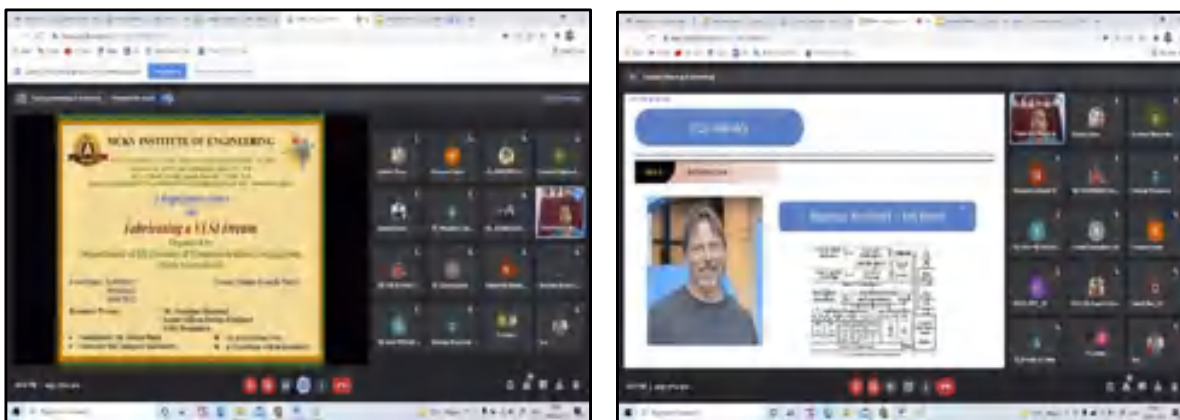
Workshop on “**Digital System Implementation using HDL**”

CSE Department organized an **Expert Lecture on “Machine Learning – a brief introduction from foundation to frontiers”**, on 21st February, 2022. Mr. Abhishek Singh, Alumnus of CSE 2016 POB and Machine Learning Engineer at Oracle Corporation was the speaker. The audience were the 3rd and final Year students of MCKVIE.

Department of IT organized a One Day Webinar on “**Full Web Development Roadmap 2022**” on 26th February, 2022.

Advanced Learning Center for Continuing Education (ALCCE) of CSE Department is organizing a continuing education course on “**Programming with C++ (EDS-CS481)**” for all the 4th semester CSE students, keeping in the mind the application beyond the curriculum. The program has been started on 12th March, 2022 and all the 4th semester CSE students will be benefited from the course.

Department of ECE organized Three Days Lecture Series on “**Fabricating a VLSI Dream**” on 2nd March, 9th March and 16th March, 2022.



Lecture Series on “**Fabricating a VLSI Dream**”

EE department has organized One week AICT-ISTE Induction/Refresher Program on “**Application of ETAP for Design & Analysis of Power System Network**”, during 25th -31st January, 2022, wherein Mrs. Debopoma Kar Ray was a resource person for two sessions.

Seminar / Workshop / FDPs / Webinar Organized

A workshop for students of MCKVIE was organized by the Basic Science Department on “**Cyber Security**” for the celebration of 75th year of India’s Independence under the scheme of AICTE “**Azadi ka Amrit Mahotsav**” on 19th March, 2022. Mr. Somdeb Chakraborty of Indian School of Ethical Hacking and Dr. Hrishikesh Bhaumik, Associate Professor of RCC. College addressed the gathering and discussed all possible ways of cyber-crimes and paths of different cyber securities to maintain the privacy and protect the personal data from the cyber criminals. They also discussed extensively of the various malpractices throughout the internet.

IT Department organized One Day Webinar on “**Applications of Classical AI in CAD for Cyber Physical System (CPS)**” on 21st March, 2022.

Advanced Learning Center for Continuing Education (ALCCE) of CSE Department is organizing a continuing education course on “**Industry Oriented Refresher Course on JAVA (EDS-CS682)**” for the 6th semester students, keeping in the mind of the industrial needs on JAVA. The program has been started on 25th March, 2022 and total Thirty four students registered.

AUE Department organized workshop on “**Latest Development in Automotive Technology**” for the students of different Polytechnic Institute during from February to March, 2022.

AUE dept. conducted a seminar on "Introduction to Hybrid & Electric Vehicle and carrier aspect on Hybrid electric vehicle" organized in association with LOGICZAP TECHNOLOGIES on 9th April 2022 for 1st year ME, AUE,EE stream & 2nd year AUE stream students. The Speaker was Mr. Sourav Rakshit, Founder & Director, Logiczap NextGen Technologies.

AUE dept. conducted a seminar on "Introduction to Bosch Common Rail System" organized in association with MCKVIE-Bosch Centre for Automobile Technology on 18th April 2022 for 1st year ME, AUE,EE stream & 2nd year AUE stream students. The Speaker was Arnab Barman, AA-AS/TSS- Local Trainer, BOSCH, Kolkata.

AUE dept. conducted a training program on “BS-VI Technology through Running on Wheels” organized in association with MCKVIE–EICHER Centre for Automobile Technology on 22nd April 2022 for 2nd and 3rd-year Automobile Engineering students. Md. Afroz Alam (Zonal Training Head, VE Commercial Vehicle Ltd) and his team members had provided the above-said training. Department of Information Technology (IT) organized Interactive talk (offline session) on “Recent demands of industry with mock interview for campus recruitment.” on 23rd April, 2022.

AUE dept. conducted a seminar on "Automobile industry in India and EICHER’s role in developing this Industry " organized in association with MCKVIE –EICHER Centre for Automobile Technology on 27th April 2022 for 1st year ME, AUE, EE stream & 2nd year AUE stream. The Speaker was Md. Afroz Alam, Zonal Training Head, MCKVIE –EICHER Centre for Automobile Technology.

Department of Information Technology (IT) organized a Colloquium on “Blockchain Fundamentals & Applications” on 19th May, 2022.

Department of Management Science and Humanities organized an Expert Lecture Session on “Non-Verbal Communication” by Dr. Soujanya Pudi-Head of NSHM Centre of Language and Communication on 21st May, 2022.

CSE Dept. in collaboration with Ardent Computech Pvt Ltd, organized “An Overview on Full Stack Development & Recent Trends in Industry” on 23rd May, 2022. Audience - CSE 6th Semester, CSE, CSE-DS 4th Semester.

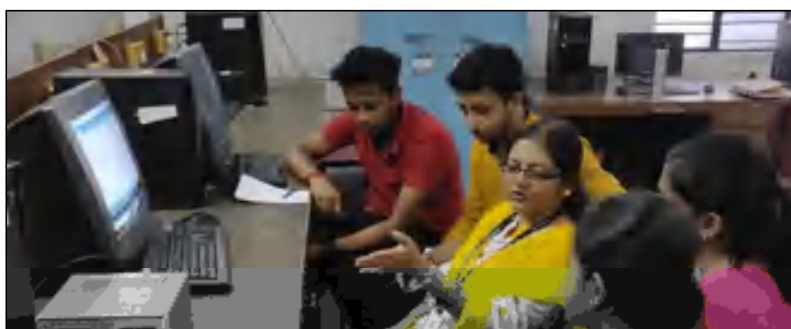
Seminar / Workshop / FDPs / Webinar Organized



Training on Campus Readiness Program on Spring Maven

CSE Dept. in collaboration with Euphoria GenX organized Special Training on "Campus Readiness Program on Spring Maven" for the students selected in Cognizant Digital Nurture 2.0 on 24th – 26th May 2022. Audience - Students from CSE, IT and ECE selected in Cognizant Digital Nurture 2.0.

A workshop “Introduction to Arduino Based Systems” was organized by ECE Department of MCKVIE on 28th May, 2022 in online mode. Fifty-three students from different Diploma Engineering College were participated in the programme.



Workshop on Introduction to Arduino Based Systems

Department of Information Technology (IT) organized a Seminar on “Full-stack Web Development.” on 2nd June, 2022.

A Industry Interaction Program was organized by ECE Department of MCKVIE on 4th June, 2022. The speaker was Dr. Sagar Mukherjee (Staff Engineer, Western Digital, Bangalore) and the participants were 1st year ECE and EC-VLSI students.

CSE Dept. in collaboration with Sarvagya Learning, organized Seminar on "Automation and Full Stack Development" on 9th June, 2022. Audience was students of 4th Semester.

Department of Management Science and Humanities organized an Expert Lecture Session on “Digital Marketing in Covid Era” by Dr. R.K. Jha- Principal, ABS Academy of Science, Technology and Management, Durgapur on 19th June, 2022.

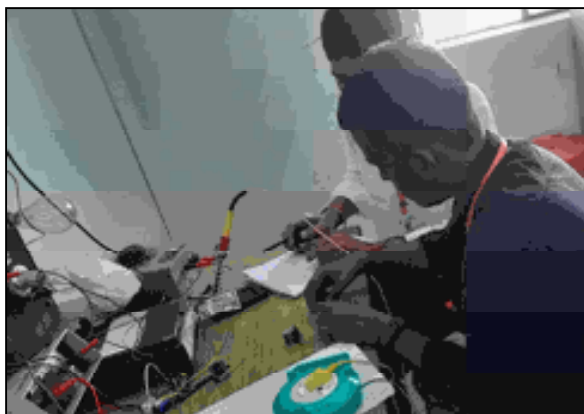
AUE dept. Organized a workshop on "Emerging Careers in Core Engineering" on 23rd July 2022 (Saturday) from 10 AM-01 PM at the MCKVIE campus. This program is specifically intended for students of class XII standard and students pursuing a Diploma in Automobile / Mechanical Engineering disciplines. It is an awareness program where the latest trends in the industry will be explained with certain career opportunities.

One day workshop on Circuit Design using LTspice is organized by ECE department of MCKVIE in association with IEEE SSCS Kolkata Chapter on 26th July, 2022. Around 30 students of ECE and EC-VLSI, 5th semester participated in the event.

Advanced Learning Center for Continuing Education (ALCCE) of CSE Dept. organized a program on “Introduction to Database Design with MySQL (EDSCS 581)” in collaboration with ‘UpGrad Campus’ during 29th August 2022 to 1st September, 2022 for 5th Semester students of CSE and CSE(DS).

Seminar / Workshop / FDPs / Webinar Organized

Advanced Learning Center for Continuing Education (ALCCE) of CSE Dept. iorganized a program on “Data Science in E-Commerce (EDSCS 38for 3rd CSE and CSE(DS). 1)” Semester students of in collaboration with ‘UpGrad Campus’ during 6th to 9th September, 2022



Hands on Workshop on Electric Circuit Design

EE department has organized 2 day “Hands on Workshop on Electric Circuit Design”, during 8th to 9th September, 2022.

Automobile Engineering Dept. has organized a 10 days training programme on “Advanced Automobile Engineering” under the MCKVIE-BOSCH JCC in MCKVIE Campus. from 12th September, 2022 for 4th year AUE students. The trainer were Mr. Kishor Kunal (AA-AS/TSS2-IN Local Trainer Kolkata, BOSCH), Mr. Tapas Kumar Biswas, Mr. Swagata Shannigrahi and Mr. Rajib Majhi.

One Day Seminar on “Machine Learning using Python” (Hands on training/workshop) in collaboration with Ardent Computech Pvt. Ltd. was organized by ECE Department, MCKVIE on 11th October,2022. Around 35 students of ECE and EC-VLSI Design, 5th semester participated in the event.

EE department organized 50 hours offline workshop on “ECAD” in collaboration with Euphoria GenX during the tenure 10th - 4th November, 2022.

IIC EVENTS ORGANISED

IIC Event List from October-2022 to December 2022		
Sl.No	Name of the event	Date
1	Funding Opportunities for Innovation and Entrepreneurship Development	9/01/2022
2	Intellectual property rights (IPRs) Awareness program.	12/01/2022
3	Session on Achieving Problem-Solution Fit & Product-Market Fit	12/02/2022
4	Workshop on “Entrepreneurship and Innovation as Career Opportunity”	26/02/2022
5	Workshop on Entrepreneurship, Skill, Attitude & Behavior Development	27/02/2022
6	National Science Day Celebration	28/02/2022
7	BrainRush-2k22	10/03/2022
8	Prototype/Process Design and Development- Prototyping.	13/03/2022
9	SMART INDIA HACKATHON 2022	28/03/2022
10	Technotica 2021-22	31/03/2022
11	Smart India Hackathon 2022	30/3/2022
12	KODIKAS 2022	27/04/2022
13	E-Conclave	30/04/2022 to 1/5/2022
14	IP Awareness Programmee	29/04/2022
15	How to Plan for Start-up and Legal & Ethical Steps	31/05/2022
16	Nurturing Innovation	31/05/2022
17	Impact Lecture Series 2022 Session 1.	22/06/2022
18	Impact Lecture Series 2022 Session 2.	05/07/2022
19	Article Writing Competition about Business Model Development	28/07/2022
20	Design Thinking and Affordable Innovation	29/07/2022
21	Angel investment or VC Funding Opportunity for Early Stage Entrepreneur	18/08/2022
22	Accelerators/Incubation opportunities for student and facilities early stage entrepreneurs	19/08/2022
23	Business model canvas (BMC)	29/08/2022
24	Additive Manufacturing and its application in Automotive Technology	24/09/2022
25	Workshop on “Electric Circuit Design”	26/09/2022 to 27/09/2022
26	Industrial Training on ECAD	Started on 10.10.2022 Still continue
27	Seminar on Machine Learning Using Python	11/10/2022

28	Expert talk on “ National Education Day”	11/11/2022
29	My Story - Motivational Session by Successful Innovators	18/11/2022
30	Exposure and field visit for problem identification	23/11/2022
31	Workshop on “Entrepreneurship Awareness Program”	23/11/2022
32	Intra-college technical_ event- “Trace.IT 2k22”	25/11/2022
33	Expert Session on Problem Solving and Ideation Workshop	26/11/2022
34	Expert talk on “Exploring opportunities on 3D printing.”	27/11/2022
35	Workshop on “Entrepreneurship and Innovation” as Career Opportunity	28/11/2022
36	Expert talk on “ National pollution control Day”	02/12/2022

OTHER ACTIVITIES

Saraswati Puja was celebrated in the campus on 5th February, 2022.

Womens’ day was observed on 8th March, 2022.



Womens’ Day Celebration

Holi was celebrated on 17th March, 2022.



Holi Celebration

Rabindra Jayanti was celebrated in the campus on 9th May, 2022.

Farewell Function **Ascent' 2022** was organised on 30th June, 2022.



Ascent' 2022

Teachers Day was celebrated on 5th September, 2022.

Viswakarma Puja was celebrated in the campus on 17th September, 2022.

On 29th September, 2022 on the eve of Durga Puja Festival '**Agomoni**' was celebrated.



Agomoni

Fresher's Welcome Function **BALAKA'2022** was organized by the 2nd year students on 1st December, 2022. Students were awarded for their best academic performance. NPTEL Toppers were also awarded in this event.



BALAKA'2022

SEMINAR / CONFERENCE / WORKSHOP / FDP ATTENDED

FDP Attended:

- **Ms. Debanjali Chowdhury and Mr. Mojammel Rahaman** completed a Five Days FDP on “**Astronomy, Astrophysics and Related Challenges**” organized by B. P. Poddar Institute of Management & Technology, during 4th to 8th January 2022.
- **Ms. Jayanti Pathak Rudra** attended a AICTE ATAL sponsored Five days online FDP on “**Artificial Intelligence (AI) on System-on-chip (Soc)**” organized by ECE, IIIT Delhi from 10th to 14th January 2022.
- **Ms. Jayanti Rudra Pathak** attended a AICTE Training And Learning (ATAL) Academy online elementary FDP on “**Machine Learning Applications on Image Processing**” organized by Nagarjuna College of Engineering and Technology from 17th to 21st January 2022.
- **Ms. Sasmita S. Choudhury and Dr. Shampa Sengupta** attended FDP on “**Natural Language Processing**” organized by Electronics & ICT Academies, IIT Kanpur, IIT Roorkee, MNIT Jaipur, PDPM IITDM Jabalpur and NIT Patna during 7th to 18th February 2022.
- **Dr. Suchismita Ghosh** attended FDP on “**AICTE Student Learning Assessment-STTP PARAKH**” during 7th to 19th February 2022, collaboration with Construction Industry Development Council (CIDC).
- **Mr. Mojammel Rahaman** completed a Five Days FDP on “**Universal Human Values in Education**” organized by Induction Program Cell, AICTE, during 7th to 11th February, 2022.
- **Ms. Arpita Ghosh** completed a Two Days FDP on “**Recent Trends in Research**” organized by SRM Institute of Science and Technology, 10th February, 2022.
- **Ms. Arpita Ghosh** completed a **Five Days** FDP on “**Universal Human Values in Education**” organized by **Induction Program Cell, AICTE**, during 14th to 18th February, 2022.
- **Ms. Debanjali Chowdhury** completed a Five Days FDP on “**Universal Human Values in Education**” organized by Induction Program Cell, AICTE, during 21st to 25th February, 2022.
- **Dr. Debopoma Kar Ray, Dr. Suchismita Ghosh, Mrs. Tanushree Kumar, Mr. Sudeep Samanta, Mr. Debanka De** has attended Five Days FDP-SIUHV on “**AICTE incorporating Universal Human Values in Education (An AICTE Initiative)**”, during 28th February to 4th March, 2022.
- **Dr. Shampa Sengupta** attended FDP on “**CII Education East Summit**” organized by CII East from 25th to 26th March, 2022.
- **Ms. Sasmita Subhadarsinee Choudhury** attended FDP on “**Emerging Trends in Data Analytics, Machine Learning, Cloud Computing and Internet of Things**” during 23rd to 27th May, 2022.
- **Ms. Mahua Raha Patra, Ms. Susmita Sarkar and Ms. Sulagna Roy** Participated in One week FDP on “**Augmented & Virtual Reality with Data Science**” organized by the Department of EXTC & CSE, P.R. Pote Patil College of Engg. & Management in association with PANTECH E-LEARNING from 6th to 11th June, 2022.
- **Mr. Nilay Kumar Nag, Ms. Saptami Roy Chowdhury** completed Five Days online FDP on “**Inculcating Universal Human Values in Technical Education**”, organized by All India Council for Technical Education (AICTE), from 11th to 15th July, 2022.
- **Ms. Debanjali Chowdhury** attended a Five Days FDP on “**Research Trends and Methodologies in Machine Learning**” organized by “Departments of Computer Science & Engineering, Computer Science & Engineering (AIML), Computer Science & Engineering (CS), Computer Science & Engineering (DS) in association with IQAC, Haldia Institute of Technology.” from 25th to 29th July, 2022.
- **Mr. Tapas Kumar Biswas, Mr. Swagata Shannigrahi and Mr. Kajal Kumar Ghosh** participated one week online International FDP on “Trends and challenges in the development of Electrical vehicles and Hybrid electrical vehicles (series2)”, organized by Department of Mechanical Engineering, Lendi Institute of Engineering & Technology during 14th to 18th November, 2022.
- **Mr. Nabankur Mandal** attended UGC Approved Short Term Professional Development Programme on ‘**Implementation of NEP 2020 for University and College Teachers**’ and obtained 'A' Grade, held from 7th to 15th October, 2022.
- **Mr. Avijit Bose** completed the FDP on “**Social Network Analysis**” by NPTEL in Online mode, Duration: July-October, 2022.

- **Mr. Suman Das** attended and successfully completed FDP on “**Introduction to Robotics**” during the tenure July to October, 2022.
- **Dr. Jaideep Dutta** attended One Week FDP on “Trends & Challenges in the Development of Electric Vehicles and Hybrid Electric Vehicles (Series – II)”, 14th to 18th November, 2022, organized by the Department of Mechanical Engineering, Lendi Institute of Engineering and Technology, Andhra Pradesh, India.

STTP Attended:

- **Ms. Mahua Nandy Pal, Ms. Moumita Goswami, Mr. Soutrik Bose, Mr. Biswajit Gayen and Dr. Pubali Mukherjee** attended Two weeks training program for faculty members on “**AICTE Student Learning Assessment – STTP- PARAKH**”, organized by ICTE in collaboration with Construction Industry Development Council (CIDC) during 7th to 19th February, 2022.
- **Ms. Debasree Maity** participated in STTP through ICT Mode on “**Fundamentals to Data Security**”, organized by NITTTR, Kolkata during 2nd February to 25th February, 2022.
- **Mr. Arindam Das** attended One Week STTP on “**Emerging Trends in Optimization Technology for Research (online mode)**” organized by REST Society for Research International (RSRI) Krishnagiri, Tamil Nadu, India from 14th to 19th March, 2022.
- **Mr. Sourav Ghorai and Mr. Sudeep Samanta** attended a two days STTP on “**Innovation and Entrepreneurship exposure visit and training programme**” organized by “Techno India University” during 25th to 26th July, 2022.
- **Ms. Debanjali Chowdhury** attended a five days STTP on “**Deep Learning Tools and its Applications**” organized by ISTE sponsored project, Sri Sai Ram Engineering College from 25th to 29th July, 2022.
- **Dr. Abhijit Pramanik** attended a Six days Short-Term Professional Development Programme on “Implementation of NEP-2020 for University and College Teachers” organized by “Indira Gandhi National Open University” and completed by 25th October, 2022.
- **Mr. Nilay Kumar Nag, Ms. Sulagna Roy and Mr. Biswajit Gayen** participated in UGC-Approved Professional Development Programme on “Implementation of NEP-2020 for University and College Teachers” during 27th October to 5th November, 2022.

Workshop Attended:

- **Dr. Satadal Saha** participated in National level Workshop on “**NIRF India Rankings 2022 for Higher Educational Institutions**” conducted by Institute of Academic Excellence, Hyderabad and Collegiate Education & Technical Education Department, Govt. of Telengana during 5th to 6th January, 2022.
- **Dr. Swarup Kumar Mitra** participated in “**AICTE-UKIERI Further Education Leadership and Management Training Programme (Workshop2)**”, organized by IEM Kolkata in collaboration with Dudley College (UK) and British Council in Online Mode from 18th to 21st January, 2022.
- **Ms. Jayanti Rudra Pathak** attended a AICTE-ISTE approved Orientation/Refresher Programme on “**Application of ETAP for Design & Analysis of Power System Network**”, organized by the Department of EE, MCKVIE from 25th to 31st January, 2022.
- **Ms. Arpita Ghosh** completed a **Two Days** Workshop on “**Software learning**” organized by ACS-International Students Chapter on 29th January, 2022.
- **Dr. Swarup Kumar Mitra** participated in “**AICTE-UKIERI Further Education Leadership and Management Training Programme in offline mode (Workshop3)**”, organized by IEM Kolkata in collaboration with Dudley College (UK) and British Council in Online Mode from 21st to 23rd March, 2022.
- **Ms. Debasree Maity** participated in the workshop “**Designing and Modelling of IoT, AI & ML Systems**”, organized by- AICTE ATAL Academy, Arm Education and STMICROELECTRONICS from 1st to 5th August, 2022.
- **Mrs. Chandrani Sadhukhan** attended Three Days live online workshop on “**Basics of Electric Vehicles and its Design Process**”, organized by EduxLabs in association with Mechanica IIT Madras during the tenure 5th to 7th October, 2022.

- **Mrs. Mahua Nandy Pal** attended hands on **Qiskit Fall Fest** Kolkata Chapter 2022, organized by IBM during 17th to 21st October, 2022 in Online mode.

Webinar Attended:

- **Mr. Sumit Majumdar** attended webinar on “**Ranking, Accreditation and Grading of Institutions**” organized by Institute for Academic Excellence during 5th to 6th January 2022.
- **Dr. Kalyan Biswas** participated in the webinar on “**Recent Advances in Emerging Electronics**” organized by P.G. Dept. of Electronic Science & Technology, Berhampur University, Odisha during 22nd to 23rd February, 2022.
- **Ms. Ipsita Dalui** attended Three Days Winter School on “**Advances in Deep Learning for Multimedia Signal Processing**” jointly organized by IEEE Signal Processing Society GS, IEEE Computer Society GS, IEEE Geoscience & Remote Sensing Society GS in association with IEEE SCET Student Branch from 3rd to 5th March 2022.

Conference /Summit/Symposium Attended:

- **Mr. Biswajit Gayen** has successfully presented his paper entitled “**Assessment of Micro – mixing Process of Electroosmotic Flow in a Microchannel**” in a virtually organized “International Conference on Thermal Engineering and Management Advances ICTEMA2022” at Jalpaiguri Govt. Engineering College, India on 15th to 16th January 2022.
- **Dr. Kalyan Biswas** attended 3rd IEEE International Conference on VLSI Device, Circuit and System (IEEE VLSI DCS 2022), held in virtual mode during February 26th to 27th February, 2022 in Kolkata, India.
- **Mr. Nabankur Mandal** participated and presented a research paper in International Conference on THIN-FILM Processing and Application (ICTFPA-2022) on “**Evaluation of Thermal Characteristics of Laser Induced Heating of Microfilm for Printed Circuit Board (PCB) Manufacturing**” jointly organized by MATS University jointly with CEMMPRE-University of Coimbra, School of Sciences-University of Minho, and University of Johannesburg, during 4th to 5th March 2022.
- **Mr. Nabankur Mandal** participated and presented two research paper in 1st International Conference on Computational Intelligence for Engineering and Management Applications (CIEMA) – 2022 on “**An Industrial Robot Selection Model using logarithm methodology of Additive Weights and Multi-Attributive Border Approximation Method**” and “**Material Selection for Mechanical Components: A Novel Distance-Based Approach**” jointly organized by Regional Association for Security and Crisis Management, Serbia, Mathematical Institute of the Serbian Academy of Sciences and Arts, MCKV Institute of Engineering, W.B. and CT Institute of Engineering, Management & Technology, Punjab, India, during 26th to 27th March 2022.
- **Mr. Avijit Bose** presented a paper titled “**Crowd funding– A Game Theoretic Approach in Designing UI for Successful Campaign**” in International Conferences on Contemporary Issues in April, 2022.
- **Mr. Diptayan Bhattacheryya** participated in the CII Business Summit on the theme “**Being Future Ready**” on 10th and 11th May 2022.
- **Dr. Juin Ghosh Sarkar** participated in the International Conference organized by Aligarh Muslim University Centre Murshidabad on “**Evaluation of Consumers’ Online Buying Behaviour of Home Appliances in Kolkata and outskirts during the Pandemic Era**” on 2nd June 2022.
- **Dr. Tamal Roy and Dr. Suchismita Ghosh** have attended Two Days symposium on “**Application of Artificial Intelligence in Control, Measurement and Instrumentation**”, organized by IEEE Joint CSS-IM Chapter, Kolkata Section at the Department of Applied Physics, University of Calcutta, Kolkata.
- **Dr. Debopoma Kar Ray** attended 1 day “Regional Meet of IIC MoE’s Innovation Cell, ICTE”, at Gurunanak Institute of Technology on 2nd August, 2022.
- Twenty five faculty and staff members from different departments of MCKVIE participated in the National Education Conclave organised by BCC&I in Fairfield by Marriot, Kolkata on 19th November 2022.
- **Dr. Kalyan Biswas** participated acted as Session coordinator in the international conference on “**2022 IEEE Electron Device Kolkata Conference (EDKCON,2022)**” organized by IEEE EDS Kolkata Chapter held at Vedic Village, Kolkata, India from 26th to 27th November, 2022.

Course Attended:

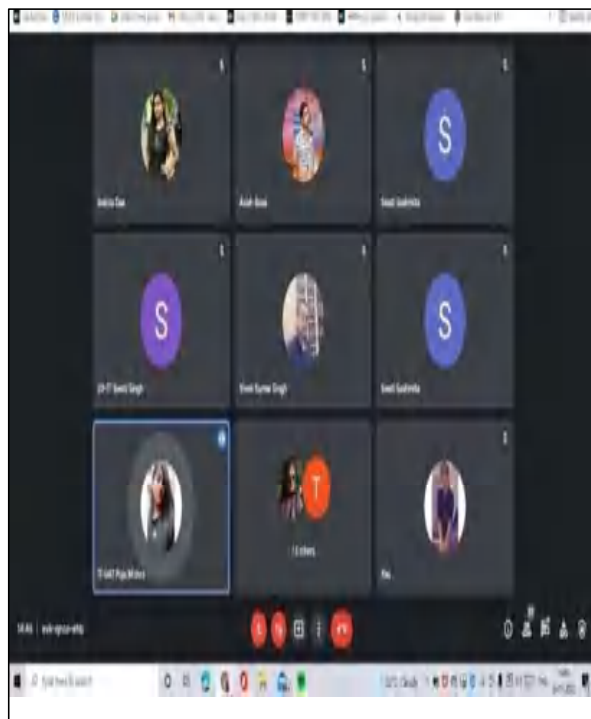
- **Dr. Dipankar Ghosh** attended One Week Short Term Course on “**Intermediate Python**” organized by datacamp and completed this by completed on 25th January 2022.
- **Mr. Subhasish Banerjee, Mr. Sekhar Rana, and Ms. Debasree Maity** participated in AICTE/ISTE Sponsored Refreshers Program on “**Recent Trends in Signal Processing RTSP 2022**”, organized by Dept. of ECE, Narula Institute of Technology during 24th to 31st January 2022.
- **Dr. Dipankar Ghosh** attended One Week Short Term Course on “**AWS-DA-02: Getting Started with Data Analytics on AWS**” organized by Amazon Web Services and completed this by completed on 13th February 2022.
- **Mr. Subhranath Maiti** attended a course on “**Gita in the light of Sri Aurobindo**” organized by the Centre for Studies in Human Development, Assam University from February 2022.
- **Mr. Firoze Basu** contributed in the Antarrashtriya Matru Bhasha Utsav 2022 between 10th January 2022 to 21st February 2022 organised by the Bharti Bhasha Samvardhan Sansthan in association with Hindi Sahitya Bharati (Videsh) and MSME Technology Centre, Puducherry (Ministry of MSME, Govt. of India).
- **Mr. Swarup Chandra Giri** participated in Five Days Short Term course on “**Artificial Intelligence In Industry 4.0**” organized by Department of Mechanical Engineering, Institute of Engineering & Management (IEM), during 14th to 18th February, 2022.
- **Dr. Debopoma Kar Ray, Mrs. Suchismita Ghosh, and Mrs. Tanushree Kumar** has attended one day Panel discussion on “**Gender equality today for a sustainable tomorrow**” on 19th March, 2022.
- **Dr. Dipankar Ghosh** attended a 14 Modules Short Term Course on “**MATLAB Onramp**” organized by MathWorks and completed on 27th March 2022.
- **Ms. Debasree Maity and Ms. Mahua Raha Patra** Participated in “**30 days Master Class on Artificial Intelligence**” at Pantech e-Learning Pvt. Ltd., Chennai from 21st March to 20th April 2022.
- **Dr. Dipankar Ghosh** attended a 16 modules Course on “**MATLAB Fundamentals**” organized by MathWorks and completed by 1st May 2022.
- **Mr. Nilay Kumar Nag, Mr. Subir Bhadra and Mr. Partha Pratim Saha** attended "5-Day Live Bootcamp on Google Cloud Platform" on 4th to 8th May 2022.
- **Dr. Dipankar Ghosh** attended a Course on “**Machine Learning Terminology and Process**” organized by “AWS training and certification”, completed by 15th May 2022.
- **Dr. Dipankar Ghosh** attended a Course on “**Demystifying AI/ML/DL**” organized by “AWS training and certification”, completed by 15th May 2022.
- **Mr. Tushar Kanti De** attended a short-term course on “**Most Essential & Popular Excel Formulas And Functions-2022**” organized by UDEMY and completed by 22nd May 2022.
- **Dr. Dipankar Ghosh** attended a Course on “**Math for Machine Learning**” organized by “AWS training and certification” which is completed by 7th June 2022.
- **Dr. Dipankar Ghosh** attended a Three Weeks Coursera Course on “**How Google does Machine Learning**” organized by Google Cloud which is completed by 8th June 2022.
- **Dr. Dipankar Ghosh** attended a Three Weeks Coursera Course on “**Launching into Machine Learning**” organized by Google Cloud which is completed by 14th June 2022.
- **Dr. Dipankar Ghosh** attended an Eleven Modules Course on “**Introduction to Deep Learning**” organized by Infosys which is completed by 17th June 2022 in the platform of Infosys Springboard.
- **Mr. Sachin Balo, Dr. Shampa Sengupta, Ms. Jayanti Mahata, Ms. Jayanti Rudra Pathak, Ms. Nabamita Majumder, Mr. Arindam Das, Ms. Ipsita Dalui, Mr. Saugata Dey, Mr. Priyanath Mahanti, and Mr. Arijit Sarkar** attended a Impact Lecture Series (22-23) Session1 organized by Institution’s Innovation council of MCKVIE, sponsored by MoE’s Innovation Cell (MIC), AICTE on 22nd June 2022.
- **Dr. Dipankar Ghosh** attended an edX Course on “**PH526x: Using Python for Research**” organized by “Harvard University”, which is completed by 28th June 2022 in the platform of edX.
- **Dr. Joydeep Banerjee, Mr. Sumit Majumdar and Moumita Goswami** completed 30 Hours course on "Innovation Ambassador Training Foundation Level", Ministry of Education, Govt. of India During July to October, 2022.

- **Mr. Diptayan Bhattacheryya** participated in the Faculty Knowledge Sharing Program on 3rd September 2022 at the Astor Hotel, Kolkata organised by ICFAI Business School, Kolkata.
- **Ms. Mahua Raha Patra, Ms. Susmita Sarkar, Ms. Debosree Maity** participated in “**30 days Data Science 2.0 Master Class**” at Pantech eLearning Pvt. Ltd., Chennai from 20th September, 2022 to 21st October, 2022.
- **Ms. Susmita Sarkar, Ms. Debosree Maity, Ms. Sulagna Roy, Ms. Sushmita Dey** participated in “**30 days Master Class on Image Processing**” at Pantech eLearning Pvt. Ltd., Chennai from 12th October, 2022 to 11th November, 2022.
- **Ms. Susmita Sarkar, Ms. Debosree Maity** participated in “**30 days Master Class on Python**” at Pantech eLearning Pvt. Ltd., Chennai from 27th October, 2022 to 27th November, 2022.
- **Ms. Mahua Raha Patra, Ms. Susmita Sarkar, Ms. Sulagna Roy** participated in “**30 days Data Master Class on Artificial Intelligence**” at Pantech eLearning Pvt. Ltd., Chennai from 22nd November, 2022 to 22nd December, 2022.

Events Organised by Rotaract Club

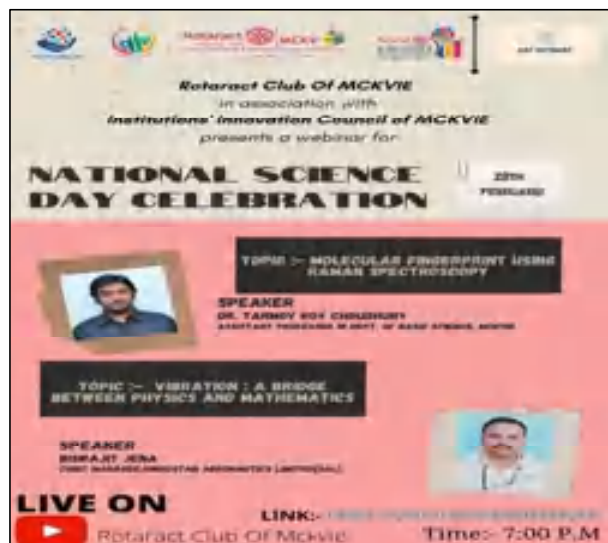


Best out of Waste Craft Event was organised during 23rd to 25th January, 2022.



Online Quiz Competition 'Apna Desh Apne Hathiyaar' was held on 25th January, 2022

Matrihasha Diwas was celebrated during 17th February to 20th February, 2022 with Essay Writing, Poetry writing, Poster Making, Painting, Quiz and Webinar.



National Science Day was celebrated on 28th February, 2022 by Organizing Webinar for students. Mr. Biswajit Jena, Chief Manager in HAL discussed on Bridge between Physics and Mathematics and Dr. Tanmoy Roy Chowdhury made a speech on Molecular Fingerprint using Raman Spectroscopy.

Events Organised by Rotaract Club



Techniti was celebrated on 7th March , 2022



Offline Taekwondo Session- A Self Defense Workshop was organized on 7th March, 2022



On 9th March,2022 Blood Donation Camp was organized in association with Peoples Blood Centre, Kolkata.

Events Organised by Rotaract Club

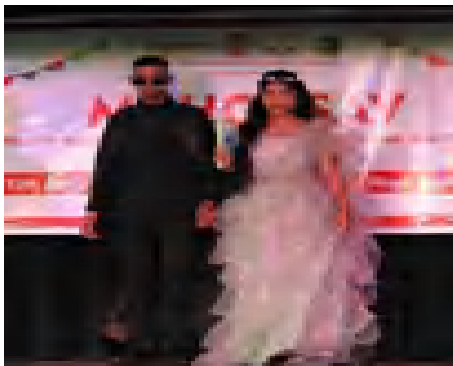
Quote-o-Graphy was a huge success. The event was organized and hosted by Rotaract Club of MCKVIE on 10th March, 2022



On the eve of Holi on 17th March, 2022 Rangoli competition was held among students

“Rota-Sport 2K22” was initiated on 9th and 10th April 2022, where Cricket and Football matches took place and participation was from both the gender.

On 13th April 2022, a cultural program named “Mahotsav” was organized to celebrate Ram Navami, Bengali New Year and Ramzan.



Mahotsav



Rota-Sport 2K22

Events Organised by Rotaract Club

An innovative event named “Lok Sabha” was conducted on 23rd April 2022 to have an idea about the House of people where the agenda for discussion was “Where India stands on Ukraine-Russia war?”



River Rangers-Ganga Cleaning Drive

On 24th April 2022. Team RCMCKVIE performed a cleanup drive “River Rangers-Ganga Cleaning Drive” at Mullick Ghat to observe Earth Day.

“Mock Interview” was conducted on 26th April 2022, to prepare the students for HR round.

On 19th May 2022, an event was organized at Ranu Chaya Mancha with collaboration with several other clubs.

“Brave Art”- an initiative where paintings of the child patients’ of Saroj Gupta Cancer Hospital and Research Institute were collected and auctioned on 20th May 2022.

“World Environment Day” was observed by conducting webinar and quiz on 5th June 2022 through online mode and “Lake Clean-up Drive” was also initiated with collaboration with River Rangers.

On 6th June 2022 Sapling Plantation was undertaken on the college campus.

On the eve of Yoga day, “Poster Design Competition” was organized to promote awareness about yoga and meditation from 16th to 19th June 2022.

International Yoga day was celebrated in association with National Service Scheme on 21st June 2022.



Celebration of Yoga Day

Events Organised by Rotaract Club

Blood Donation camp was organised on 23rd July 2022 in MCKV Campus. 32 people including students, faculty member and staff member has donated their blood and 68 units of blood collected in this event.



Blood Donation camp

A slogan writing competition was held on 26th July, 2022 on the occasion of Kargil Vijay Diwas.

Friendship Day Celebration 'Amity' was conducted online on 7th August, 2022.

Rotaract Club of MCKV Institute of Engineering took an initiative to applaud the duty of armed officer i.e police, army, security guard etc. by tying them Rakhi on 12th August, 2022

Independence Day Quiz was organised by Rotaract club of MCKVIE on 14th August, 2022 to celebrate 75 years of Independence. Around 40 student participated in the quiz.

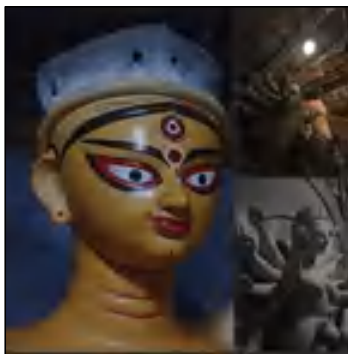
Aazadi event was organized by Rotaract club of MCKVIE to celebrate 75 years of Independence. Chief Guest for today's event was IAF Airmen Aman Singh.

Makhan Hunt was organized by Rotaract Club of MCKVIE on the auspicious occasion of Janmashtami on 18th August 2022.



Makhan Hunt

Students of Rotaract Club organised 'DURGA CHITRO' - a Pre Puja Photowalk through the alleys of Kumortuli to capture the stunning process of idol making of Ma Durga and the beauty of the Potters' colony in Kolkata.



Pre Puja Photowalk

Events Organised by Rotaract Club

GAME-O-MANIA was a fun learning event organised on 15th September, 2022 on the occasion of Engineer's Day.



Celebration of GAME-O-MANIA

Dholida – A Garba and Dandiya event was organized on 29th September 2022 for celebration of navratri.



Dandiya event

Mr. Soumyajit Ghorai deliver a speech in the webinar organized by “Institution's Innovation Council and Rotaract Club of MCKVIE” on the topic “National Pollution Control Day” on 2nd October, 2022.

To mark the birth anniversary of a great visionary and a dreamer of Innovative India, Dr A.P.J. Abdul Kalam Prof. Dr. Prasenjit Chatterjee delivered lecture on “Innovation: From the Eyes of an Engineer” on 15th October, 2022.

National Education Day was observed on 11th November, 2022.

National Pollution Control Day was observed on 2nd December, 2022.

Alumni Meet Organized



Department of Computer Science and Engineering of MCKVIE has arranged departmental alumni meet Reminiscence 2022 on 23rd April at college campus. A good number of alumni since 2003 joined the meet. Students of 2nd and 3rd year of CSE have contributed their paintings and handcrafts for an exhibition where few alumni also joined by their creative arts. The program ended with a panel discussion, 'Perspective on Education, Entrepreneurship, Training and Technology Transfer in Computer Science and Engineering', where four senior alumni from TCS, IBM and UXLI Limited were the panelists and present 3rd year students of the department were the target audience. Alumni members mainly focused on present scenario in IT sector and necessary components required for a budding engineer to be ready for the industry. The meet was perfect in all respect.

AUE Dept. and ME Dept. organized Alumni Meet on the 28th May, 2022 at MCKVIE Campus.

An Alumni Interaction Programme was organized by ECE Department of MCKVIE on 30th June, 2022. The speaker was Mr. Sudipta Kumar Banerjee, TCS, Kolkata. The participants were ECE 6th semester students.



Glimpses of Alumni Meet 2022

Industry Visit

Industry Visit to Reliance Jio was conducted by ECE Department, MCKVIE on 1st November, 2022 . 33 no. of ECE and 7 no. of EC-VLSI Design 5th semester students attended the industrial visit.

Event Organised by SPIC MACAY Heritage club of MCKVIE



SPIC MACAY Heritage club of MCKVIE successfully organized an online National event on Hindustani classical music by renowned vocalist Sunanda Sharma in collaboration with SPIC MACAY West Bengal Chapter on 26th March, 2022 from 12:30 p.m. to 2:00 p.m. Mahua Nandy Pal from CSE Department was the faculty coordinator of the National event.

Events Organised by SVCPT

Celebration of 169th Birthday Tithi Puja of Holy Mother Sri Sarada Devi at SVCPT MCKVIE center on 04th January 2022.

Celebration of 160th Birthday Tithi Puja of Swami Vivekananda at SVCPT MCKVIE center on 08th February 2022. A study circle was held and the Members participated with heartfelt effort.

Celebration of 187th Birthday Tithi Puja of Sri Ramakrishna Paramhansa at SVCPT MCKVIE center on 04th March 2022. A small study circle was held.



Celebration of 160th Birthday Tithi Puja of Swami Vivekananda at SVCPT MCKVIE

Events Organised by SVCPT

A Value Education program was held on behalf of SVCPT, MCKVIE on 08th April, 2022.



Value Education Program

Invited Talk held organized by SVCPT on 30th August, 2022 at SIT Hall at 3:00 p.m. on “Stress Management”. Revered Swami Shanteshananda from Ramakrishna Mission, Belur Math was the speaker.



Invited Talk on “Stress Management” by Revered Swami Shanteshananda from Ramakrishna Mission, Belur Math

Outreach Programme was held on 27th September, 2022 to Ramakrishna Mission, Belgharia and mosquito nets, water bottle, tiffin box, stationary kit and sweets were distributed among 104 needy children of Slum area of Belgharia.



Outreach Programme at Ramakrishna Mission, Belgharia

এমসিকেভি ইনস্টিটিউট অফ ইঞ্জিনিয়ারিংয়ের শিরোপা নতুন পালক

এমসিকেভি ইনস্টিটিউট অফ ইঞ্জিনিয়ারিংয়ের শিরোপা নতুন পালক।

ওরাকল কর্পোরেশনের সাথে উজ্জ্বল ভিত্তি তৈরির লক্ষ্য

ওরাকল কর্পোরেশনের সাথে উজ্জ্বল ভিত্তি তৈরির লক্ষ্য।

অ্যাসোচেটম লিডারশিপ কনক্রেড অ্যান্ড এক্সিলেন্স অ্যাওয়ার্ডস

অ্যাসোচেটম লিডারশিপ কনক্রেড অ্যান্ড এক্সিলেন্স অ্যাওয়ার্ডস।

এমসিকেভিআইই, রানভূমি ২.০-এর বিজয়ী



স্টাফ রিপোর্টার: রোটারাক্ট ক্লাব অফ ক্যালকাটা ইউভিস এবং রোটারাক্ট ক্লাব অফ ওল্ড সিটি বৌদ্ধভাবে "রানভূমি ২.০" নামে একটি বার্ষিক রোটা ক্রিকেট টুর্নামেন্টের আয়োজন করেছে। নেতৃত্ব, পেশাদার দক্ষতা বিকাশ এবং সেবার মাধ্যমে দয়ার বিকাশের জন্য ১১ ই ডিসেম্বর, ২০২২ এ আশুগ্যান সংঘ ক্লাবে অনুষ্ঠিত হয়েছিল যেখানে ১৬ টি দল অংশগ্রহণ করেছিল। ১২ জন খেলোয়াড়ের সমন্বয়ে গঠিত আর সি এম সি কে ভি আই ই এতে অংশ নিয়েছিল এবং "বিজয়ী" হিসাবে ঘোষণা করা হয়েছিল এবং তারা চ্যাম্পিয়ন ট্রফি জিতেছিল। "দ্য কলকাতা" থেকে খেলোয়াড়দের যথাক্রমে মেডেল, সার্টিফিকেট এবং ফুড ভাউচার প্রদান করা হয়। সুনম মুন্না, অন্যতম সেরা ব্যাটসম্যান এবং কেশব কুমার

বা, অন্যতম সেরা এম সি কে ভি আই ই পুরুষ হিসাবে পুরস্কৃত সদস্যরা ছিলেন: (অধিনায়ক), ঋত্বিক (সহ-অধিনা (উইকেট কি মোহিত কুমার, রেহিত সিং, সুপ্রসন্ন উজ্জ্বল তিওয়ারিএম ইনস্টিটিউট ক্রিয়ান কু বলেছেন, "চ জন্য আমি খেলোয়াড়দের তারা খুব ভাল আমি বিশ্বাস অংশগ্রহণকা এবং তারা এবং খুব ভাল

সমুদ্রের ঢেউ থেকে শক্তি উৎপন্ন ডিভাইস তৈরি এমসিকেভি

কলকাতা: এমসিকেভি ইনস্টিটিউট অফ ইঞ্জিনিয়ারিং, লিলুয়া, হাওড়া আইআইটি মাদ্রাজের সাথে একটি যন্ত্রের উন্নয়নে হাত মিলিয়েছিল - 'ওশান ওয়েভ এনার্জি কনভার্টার' সমুদ্রের ঢেউ থেকে বিদ্যুৎ তৈরি করতে। ডিভাইসটির নাম দেওয়া হয়েছে সিঙ্কুল-আই বা সহজভাবে ওশান ওয়েভ এনার্জি কনভার্টার। এই ডিভাইসটি ২০২২ সালের



উদ্ভাবনী গবেষণা প্রকল্প, (বি) টি বি আই - কেআইইটি ডিএসটি ডিসি-কলকাতা পরামর্শক অধীনে (সি)

ওরেকল কর্পোরেশন নে এমসিকেভিআইই মেন লান্চ ক্রিয়া লার্নিং এন্ড সার্টিফিকেশন প্রোগ্রাম

কলকাতা, ৫ আগস্ট (নিয়)। ওরেকল কর্পোরেশন নে এমসিকেভিআইই মেন লার্নিং এন্ড সার্টিফিকেশন প্রোগ্রাম লান্চ ক্রিয়া। এই অবসর পর বিজনেস হেড-ওরেকল ডকুমেন্ট্রীপি এন্ড এন্ট্রপ্রাইজ বিজনেস বিজয় পি. এলেক্স ওর ওরেকল ডকুমেন্ট্রীপি এন্ড এন্ট্রপ্রাইজ বিজনেস কে বরিত্ত সলাহকার পরাম

নবীনবরণ অনুষ্ঠান

নিজস্ব প্রতিনিধি— এমসিকেভি বলাকা কলেজের নবীন বরণ অনুষ্ঠান হয়ে গেল। প্রায় সাড়ে চারশো নতুন শিক্ষার্থীকে নতুন পাঠক্রমে

গদেওয়ার জন্য স্বাগত জানানো। এই উপলক্ষে কলেজের ময়িকপত্র 'ম্যাকভি ডাইজেস্ট' গণ করা হয়।





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243, G. T. Road (North), Uluah, Howrah – 711 204, W. B.

Phone : (033) 2654 9315/17 Fax : (033) 2654 9318 E-mail : mckvie@vsnl.net URL : www.mckvie.edu.in