



■ **A session on “OBE and Accreditation” was organized for First Year Computer engineering students**



An online session on “OBE and Accreditation” for First Year Division D Computer Engineering students was organized on 19th June 2021 at 3.40 pm. Students of FE D Division and all faculty members of the department attended the session. Class Coordinator Prof. N. G. Sharma initiated the session by sharing latest updates and placement statistics of the department. Prof. S. M. Malao informed the students about the need of Outcome based Education, Industry expectations, Accreditation, Vision, Mission and Program Education Objectives. Head of the Department Dr. S. S. Sane briefed the students about Program Outcomes, Course Outcomes, PO-CO mapping and its relevance. Session concluded with a group photo screenshot and vote of thanks by the Class Coordinator.

Congratulations



Riya Jain, Reva Kulkarni, Tejas Shirsath, Nishant Surwade, first year students of Artificial Intelligence and Data Science received 1st Prize for project on "Natural River Trash Regulation" during the National Level Science Day Competition 2021 that was organized by GMRT, Pune and IIK, Pune.

Dr. Snehal Mohan Kamalapur contributed in the syllabus designing/framing of the subject Artificial Intelligence (310253) as a Team Member at TE (Computer Engineering) Syllabus Revision 2019 Course, BoS (Computer Engineering), Savitribai Phule Pune University, Pune, during the period from 1st May 2021 to 25th May 2021.

■ **Online Alumni meet**



Online Alumni meet was conducted on 3rd July 2021 at Time 10.30 am by department of Computer Engineering, K. K. Wagh Institute of Engineering Education and Research, Nashik. Meeting started with a welcome speech by Prof. Madhuri Shinde and then the presentation of the Department of Computer Engineering at a glance by Prof. Dr. S. S. Sane followed by Student and Alumni achievements by Prof. S. K. Gondhalekar, Expected collaboration was explained by Prof. Suruchi Malao. There were around 64 participants including Alumni and Faculty of the Department. There was interaction between current students and Alumni. Alumni meet was organized by Prof. S. K. Gondhalekar and Prof. Madhuri Shinde under guidance of Prof. Dr. S. S. Sane.

■ **An expert talk on “Data Structures and a bit of algorithms”**

An expert talk on “Data Structures and a bit of algorithms” was conducted on 10th July 2021, 11.00 to 12.00 pm at the department of Computer engineering, K. K. Wagh Institute of Engineering and Education Research, Nashik under Debuggers’ Club. The session was conducted by Mr. Sumesh Mettadath, Research Engineer, ESDS, Nashik. He covered various Data structures used in various

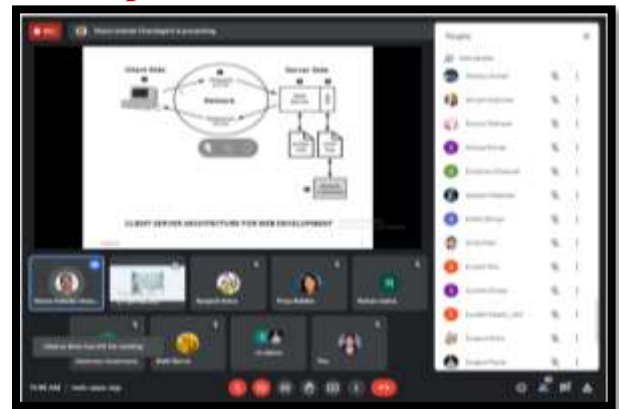


Industrial applications and interview processes and how to practice coding and questions related to data structures and algorithms asked in the interview. 70 students attended the session from SE computer Engg. The session was coordinated by Prof. S. K. Gondhalekar, and Chaitali Patil Computer engg. dept., under the guidance of Head of Department Prof. Dr. S. S. Sane.



He briefed about how AR and IIOT are helping academic institutes to solve industrial assignments. More than 100 teaching faculty members from K.K.Wagh Institute of Engineering Education and Research, Nashik attended an expert talk. Expert talk was organized by Prof. Kushal Birla under guidance of Prof. Dr. S. S. Sane.

■ An expert talk on the topic “Web Development”



■ Online an Expert talk on “How Augmented Reality and IIOT helping academic institutes to solve industrial assignments and develop entrepreneurship opportunities”



Online an Expert talk on “How Augmented Reality and IIOT helping academic institutes to solve industrial assignments and develop entrepreneurship opportunities” was conducted on 13th July, 2021 at 4pm-5pm. Mr. Anil Pagar (Director, InvenSys solutions) informed about offerings from InvenSys Solution and Mr. Suresh (PTC India) presented various software products helping in physical and digital conversion with help of IOT and AR technology.

An expert talk on the topic “Web Development” was conducted on 13th July, 2021; 11.30AM. Department of Computer Engineering, K. K. Wagh Institute of Engineering Education and Research, Nashik had organized this session with the motive to introduce students about Web Development for Second year students of the department. The session was conducted by Er. Shano Solanki, Assistant Professor, CSE, NITTTR, Chandigarh (Established by Ministry of HRD, Govt. of India). He covered the topics Web development standards, Web development steps, Selection of Programming Language, Various frameworks. The session was coordinated by Prof. P. D. Rakibe under the guidance Prof. Dr. S. S. Sane, Head department of Computer Engineering, KKWIEER, Nashik

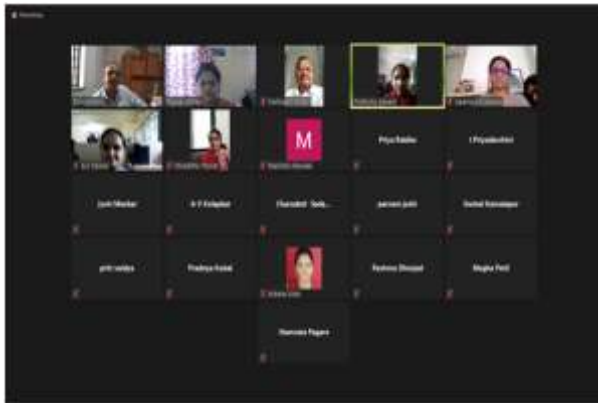
Virtual Third Year Parent Teacher Meeting

Virtual Third Year Parent Teacher Meeting was conducted on 16th July 2021, 11.00 a.m to 12.00 pm by department of Computer engineering, K. K. Wagh Institute of Engineering Education and Research, Nashik. The main motive of the meeting was to interact with parents in the view of



Department of Computer Engineering
K.K. Wagh Institute of Engineering Education and Research, Nashik.
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commencement of new academic year and to know more about department like Department Milestones, Recent Updates, Placements and Internships and Electives and Honor Courses. The meeting was coordinated by the Prof. A. V. Tavare along with Prof. R. H. Jadhav and all the faculties of the department.



■ **Tools of Today (ToT) workshop session I**

Tools of Today (ToT) workshop session I on the topic Version Control System was organized by Department of Computer Engineering for TE, BE students and faculty on 21st August 2021. The session was conducted by Anand Mahuli, Software Engineer, Acquia. This workshop has been organized so that students can get opportunity to know and get acquainted with the Tools that Software Professionals often use. These are not part of academic syllabus and hence avail the students a chance to learn few things beyond the syllabus. The workshop will have 4 sessions of one to two hrs. each.

■ **One Day Faculty Development Program On “Operating System (SE: AIDS)”**

One Day Faculty Development Program was conducted by Computer Engineering and Artificial Intelligence and Data Science Departments on “Operating System (SE: AIDS)” on 25th August 2021 in Association with Board of Studies Computer Engineering ,SPPU, Pune. Prof. Dr. K. N. Nandurkar, Principal, briefed about KKWIEER, Nashik. Prof. Dr. S. S. Sane, Head, briefed about one day Faculty Development Program.

Prof. Dr. P. M. Yawalkar, Coordinator, SE (AI-DS) Syllabus, Member of BOS & FoST, SPPU addressed the participants. Prof. M. J. Patil introduced chief guest Dr. Sachin Lodha. Dr. Sachin Lodha, Chief Scientist, Tata Consultancy Services, E-Inaugurated the One day FDP and delivered key note. In session I, Mr. Tushar Kute, Data Scientist and Researcher, MITU Research, briefed about Linux Operating System. In Session II, Dr. Mahesh Sanghavi, Head and Professor, SNJB’s College of Engineering, Chandwad, discussed about Fundamental Concepts of Operating system and Process Management. In session III Mrs. Suvarna Patil, Assistant Professor, D.Y. Patil Institute of Engineering, Management & Research, Pune briefed about Memory Management and I/O and File Management. In session IV Dr. S. M. Kamalapur, Professor, KKWIEER, Nashik discussed the concept of Process coordination. The program was ended by vote of thanks given by Prof. S. M. Malao. Keynote address by Dr. Sachin Lodha sir was attended by 108 students from SE (Computer Engineering and AIDS) and 40 faculty members from 15 different colleges.

The workshop was coordinated by Prof. S. M. Malao and Prof. M. J. Patil along with staff members of Computer Engineering and AIDS department.

■ **Expert talk on Pandemic Proof Career and internship program**

Expert talk on Pandemic Proof Career and internship program was conducted by Department of Computer Engineering on 31st August 2021 by Mr. Anirudh Jahagirdar (Technical Engineer, Microsoft-USA). 36 students from SE and TE of Department of Computer Engineering attended the interactive session.



■ Session on "Google Data Studio" under Tools of Today (ToT) workshop

On 2nd September 2021, a session on "Google Data Studio" was arranged for the Third Year Engineering students under Tools of Today (ToT) workshop. Dr. R. D. Kulkarni, adjunct professor at department conducted this session. The concepts of 'Data Visualization' & 'Data Dashboards' were explored to the students and the said tool's live demo was given. More than 70 students took benefit of the workshop and created Data Dashboards with the presenter.



The session started with a welcome note and introduction of the speaker by Suyam. Further Mr. Anirudh guided about taking control of the career and exploring opportunities based on final year project during graduation. He briefed about how industrial internships can fetch the interesting opportunities in the career plan. Students were able to understand the "AIM-IMPROVISE-EXECUTE" mantra. It was a really very wonderful and helpful to all the participants. After question and answer discussions, session concluded and vote of thanks were expressed by Prof. Kushal Birla. The session was attended by Head of the Department Prof. Dr. S. S. Sane, Prof. D. M. Kanade, Prof. S. T. Patil, Prof. N. M. Pagare, Prof. S. D. Jadhav, Prof. Kubal and Prof. Dixit.



■ Session on "Teaching using APPLE Resources"



Prof. Dr. S. S. Sane was invited to address Online FDP on Distributed Systems, DBMS & DBMS Lab at TE (Computer Engg) conducted by PICT, Pune, Dr. D. Y. Patil Institute of Technology, Pimpri and FDP on OS Lab at SE (AI-DS) conducted by SNJB Chandwad in association with BoS Computer Engineering, SPPU, Pune.

Prof. Dr. S. M. Kamalapur was invited as an expert in FDP on Operating Systems, (SE Artificial Intelligence and Data Science 2020 Pattern) by Department of Computer Engineering, Artificial Intelligence and Data Science, KKWIEER, Nashik

A Session on "Teaching using APPLE Resources" was organized on 3rd September 2021 by Mr. Sudhir Kapadnis (Director & Chief Strategy Officer at TRK Group). The main objective of the session was to illustrate steps to operate Apple phones to use content from the Apple Teaching Program. The Apple Teacher Program was created to support and celebrate educators. The program helps teachers unlock the magic of iPad, Mac and built-in apps in the classroom.



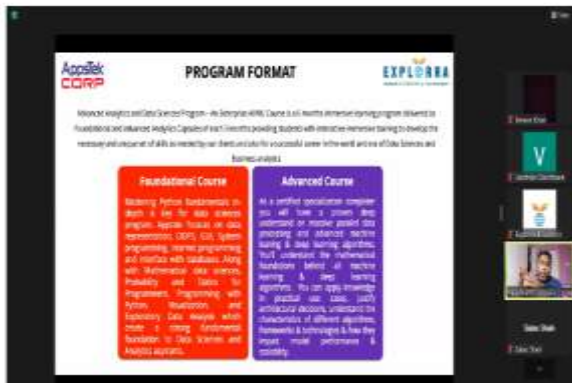
By signing up, you'll get access to the Apple Teacher Learning Center where you can build skills, collect badges, and earn recognition as an Apple Teacher. 26 staff from all branches from K. K. Wagh Institute of Engineering Education and Research Nashik attended the training session and participated in an interaction with an expert. This activity was coordinated by Prof. S. A. Gade with Prof. N. S. Sonawane.

■ **Session on “Special Presentation on IBM ICE Programming Languages”**

Session on “Special Presentation on IBM ICE Programming Languages” on 18th September 2021 conducted by Mrs. Vanitha Raghavan, Senior Vice President- Teknoturf Info Services Pvt. Ltd. IBM ICE Program is a ‘unique’ global initiative by IBM, to offer much needed applied information technology knowledge to graduating students, in various dominant and futuristic areas which are the need of the hour and industry aligned. Result of years of research and planning by the ‘world’s best brains’, the objective of the Digital Learning Program from IBM Innovation Centre for Education is to fully empower students by filling the huge lacunae in their technology and employability skills. This program provides affordable access to uniform quality learning on “in-demand” industry required skills, and enables students to meet the challenges and demands of the IT Industry.

■ **Webinar on Digital Media Design job opportunities**

Webinar on Digital Media Design job opportunities by Mr. Ninad Shastri was organized by Debuggers Club on 23rd September 2021. Speaker discussed about Career opportunities in Graphics and Animation.



Department of Computer Engineering and Quick Heal (Training Partner) in association with Data Security Council of India offered an opportunity for the students to learn and gain knowledge about the important concepts of cyber security i.e., ‘Cyber Shikshaa Programme’ an initiative of DSCI and Microsoft for SE,TE, BE students from 30th Aug 2021 to 25th Sept 2021.

Total Number of Students Registered for the Course: 120

Total Number of Students Completed the Course: 68

Prof. S. M. Malao was invited as Jury member for the IET India Scholarship Awards 2021

Prof. R. H. Jadhav, Prof. N. G. Sharma, Prof. I. Priyadarshini, Prof. A. V. Taware, Prof. M. J. Patil, Prof. N. M. Pagare, Prof. M. N. Shinde, Prof. S. D. Jadhav, Prof. P. D. Rakibe, Prof. S. T. Patil completed Amazon Web Services Training and Certification.

Prof. Dr. R. D. Kulkarni, Adjunct Professor at Department conducted a session on "Financial Literacy" for the employees of "Fox Controls", Gonde. The various government schemes useful for all were explored. The importances of document recording, sharing of financial facts in family were discussed.

Prof. K. P. Birla was invited for delivering a lecture on “Web development fundamentals and career opportunities” at K. K. Wagh college of Agri. Engg & Tech, Nashik on 30th September 2021.

■ **Mrs. Vanitha Raghavan, Senior Vice President- Teknoturf Info Services Pvt. Ltd.**

An expert talk on “Technological Courses by IBM” was conducted online on 12th October 2021 through Webex platform. The motive of the session was quality learning “in-demand” industry required skills, which enables students to meet the challenges and demands of the IT Industry. The session was conducted by Mrs. Vanitha Raghavan, Senior Vice President- Teknoturf Info Services Pvt. Ltd. Students learned about the things which they are going to use in near future and they were encouraged and came forward to ask the questions related to the topic.



The session was coordinated by Prof. S. D. Jadhav and Prof. S. K. Gondhalekar under the guidance Prof. Dr. S. S. Sane.

■ IDEA Lab awareness session



The institute has received the sanction of the IDEA (Idea Development, Evaluation, and Application) Lab from the All India Council for Technical Education (AICTE), New Delhi. Under this initiative students will be trained on 21st century skills, teachers will be trained in Teaching-Learning Process research, and projects and students will be encouraged for projects and internships. With this motive awareness sessions was conducted on 28th October 2021 by Prof. Dr. R. K. Munje. Faculty members of Computer Engineering, MCA, IT and AIDS attended the session.

1992-93 Alumni Shubha Desai received “Visheh Karya Purskar” from Sarvajanic Vachnalay, Nashik on 27th October 2021.

Alumni Rajiv Warriar received ASIRT champion collaborator award in ASIRT Synergy event

Total 55 SE and TE students completed certification by Spoken Tutorial, IIT Bombay.

Dr. R. D. Kulkarni evaluated the institute level poster presentation competition arranged by ISTE student's chapter. The competition was held in an online mode and the students presented their posters on the theme as "India in 2047". The creativity and innovative thinking of the students was well exhibited through their creations.

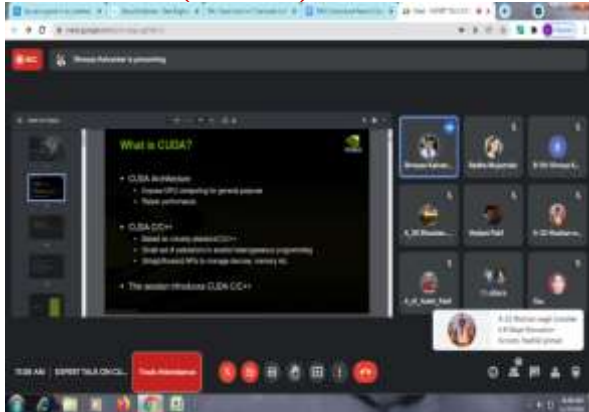
■ Panel discussion on “Career Opportunities in Computing”



Panel discussion on “Career Opportunities in Computing” was conducted in an online manner using Zoom platform on Wednesday 17th Nov. 2021 for 12th passed-out students willing to seek admission to Computer Engineering. / Artificial Intelligence and Data Science Engineering. / Computer Science and Design Engineering Courses along with Existing students of the department. Total 150 participants attended the panel discussion. Mr. Rajiv Mishra, General Manager, Union Bank of India, Mumbai, Mr. Pratahmesh Karmalkar, Principal Data Scientist of Merck KGaA, Bangalore, Ms. Anuja Kulkarni, Technical Consultant and Solution Architect, Ilink Digital, Pune, Mr. Vishal Jadhav, Head: Experience Design & Strategy &, Co Founder: Prismic Reflections, Nashik, Mr. Manoj Badhan Portfolio & Product Management at Shell, Bangalore and Dr. Mayuresh Pardeshi Doctoral Studies in Computer Science and Engineering. AI Research Center & Post Doctor - Taiwan were the panelists who guided the participants. Prof. R. H. Jadhav welcomed all the participants and panelists. Dr. R. D. Kulkarni briefed about the updates of the department, introduced panelists and initiated core discussion. Panelists guided the participants based on their expertise and also provided satisfactory answers to the questions raised by participants. Training and placement officer, Dr. P. K. Shahbadkar shared information about training and placement of the institute. Head of the department, Dr S. S. Sane provided concluding remarks. Prof. R. H. Jadhav delivered vote of thanks. Dr R.D. Kulkarni and Prof. R. H. Jadhav coordinated the event



■ Expert talk on “Compute Unified Device Architecture(CUDA)”



An expert talk on “Compute Unified Device Architecture (CUDA)” by Mr. Shreyas Kalavankar was conducted for BE students on 27th November 2021. Mr. Shreyas Kalavankar is Alumni of Computer Department and currently working with as Software Developer, Dalton Maag, London. Session was conducted in online mode using Google meet. Mr. Shreyas covered various topics related to CUDA including basics of CUDA, CUDA computing and its programming. Total 31 students attended the session. The session was coordinated by Prof. J. R. Mankar, Prof. M. P. Mahajan.

. SE AI DS students , Jay Thorat , Amodi Baale , Reva Kularni , Affan Shaikh , Nishant Surwade , Riya Jain are doing a project under Researcher's Discovery Platform Competition namely Techfest, organized by IIT Bombay, in association with TATA Sons. They have cleared the round 1 and are promoted to participate in Round 2. Dr. R. D. Kulkarni is their mentor. Only 12 teams have been selected from a huge response. Project aims at creating a web platform where researchers can find and collaborate with each other.

The students from T.E. Computer Suyam Chaturvedi , Sameer Pardeshi , Gagandeep Singh Dhindsa have progressed into the project competition "Deep Blue Season 7" for the project titled “License Plate Detection” . They are amongst the 63 teams out of 282 teams who had registered for the same. Dr. R. D. Kulkarni is the project mentor.

Prof. P. P. Vaidya receiving best magazine award for student magazine “Horizon” in the award ceremony organized at SPPU on 25th November 2021.



Prof. Ganesh Jadhav, Prof. Pawan Rahane, Prof. I. Priyadarshini, Prof. N. M. Pagare , Prof. Panakaj Rande bagged third prize of Rs. 7500/- in National level Teaching Learning Hackathon organized by Symbiosis University , Pune on 25th November 2021.

Seminars/Workshop/Training attended by staff:

- Prof. Dr. S. M. Kamalapur, Prof. P. P. Vaidya, Prof. J. R. Mankar, Prof. C.R. Patil, Prof. S. T. Patil, Prof. M. J. Patil, Prof. N. M. Pagare, Prof. S. D. Jadhav, Prof. M. N. Shinde, Prof. P. D. Rakibe, Prof. A. V. Taware attended FDP on “Augment Reality & Virtual Reality” from 21st June to 25th June 2021.
- Prof. S. K. Gondhalekar attended ATAL FDP on "Artificial Intelligence and its Applications" from 7th June to 11th June 2021.
- Prof. K. P. Birla attended Online Webinar on “AWS Data Analytics Fundamentals” on 24th June 2021.
- Prof. K. P. Birla attended Online Webinar on “Unity -Making Movies in Real-time: Unity for Film & Animation” from 27th June to 29th June 2021.
- Prof. N. M. Pagare, Prof. S. D. Jadhav attended Online Workshop on “Fundamentals of Deep Learning” on 26th June 2021.
- Prof. R.K.Durjad attended STTP on “Deep Learning applications in Cyber Security for Engineering and science” from 14th June to 19th June 2021. Prof. R.K.Durjad attended Online Webinar on “Role of Professional student's chapter in Enhancing Engineering Students career Growth and increasing opportunities” on 26th June 2021.



- Prof. S. T. Patil attended FDP on "Augmented Reality & Virtual Reality" by AICTE Training And Learning (ATAL) Academy from 21st June to 25th June 2021.
- Prof. Dr. S. S. Sane attended 3 days international "IUCEE Annual Leadership Summit 2021" from 9th July to 11th July 2021.
- Prof. P. P. Vaidya, Prof. J. R. Mankar, Prof. S. A. Gade attended Online FDP on "Recent Advances in Computer Science and Allied Domains (RACSAD-2021)" from 5th July to 9th July 2021.
- Prof. S. S. Banait attended 5 days international "Online 5G Colloquium" from 27th July to 31st July 2021.
- Prof. N. G. Sharma, Prof. N. S. Sonawane, Prof. S. T. Patil, Prof. V. N. Suryawanshi, Prof. A. V. Taware attended One Week FDP on "Recent Trends in Computations" from 19th July to 24th July 2021.
- Prof. N. G. Sharma, Prof. K. P. Birla, Prof. N. M. Pagare, Prof. S. D. Jadhav, Prof. M. N. Shinde, Prof. R. K. Durjad, Prof. A. V. Taware attended Online Workshop on "Building Transformer-Based Natural Language Processing Applications" on 8th July 2021.
- Prof. N. G. Sharma, Prof. S. D. Jadhav, Prof. A. V. Taware attended Online Workshop on "Fundamentals of Accelerated Data Science with RAPIDS" on 9th July 2021.
- Prof. C. R. Patil attended Online ATAL FDP on "IoT Application with Blockchain Techniques" from 17th July to 21st July 2021.
- Prof. N. S. Sonawane, Prof. N. M. Pagare, Prof. S. A. Gade, Prof. R. K. Durjad attended Online STTP on "Innovative & Inventive Problem Solving" from 29th June to 04th July 2021.
- Prof. S. T. Patil, Dr. R. D. Kulkarni attended Online FDP on "Design Thinking for Societal Entrepreneurship" from 5th July to 9th July 2021.
- Prof. N. M. Pagare attended National webinar on Implementation of NEP 2020 in HEIs on 16th July 2021.
- Prof. N. M. Pagare attended Webinar on IPR strategy and Cleantech Innovation on 16th July 2021.
- Prof. S. A. Gade attended Online webinar on "Innovation in Technology Adoption and Development of High Precision Slipring: A Case Study" on 18th July 2021.
- Prof. M. N. Shinde, Prof. R. K. Durjad, Prof. A. V. Taware, Prof. P. D. Rakibe attended Workshop on "FUNDAMENTALS OF DEEP LEARNING" on 7th July 2021.
- Prof. R. K. Durjad attended Online FDP on "Artificial Intelligence: Applications in modern Scenarios" from 5th July to 9th July 2021.
- Prof. M. J. Patil, Prof. J. R. Mankar, Prof. S. S. Banait, Prof. P. P. Vaidya attended Short Term Training Program (STTP) through ICT mode on 'Advanced Applications in Artificial Intelligence and Machine Learning' from 2nd to 6th August 2021.
- Prof. M. N. Shinde attended Instructor Led Live Online Faculty Development Program (FDP) On Full Stack Web Development from 2nd to 13th August 2021.
- Prof. M. N. Shinde, Prof. S. M. Malao attended Faculty Orientation Program on "Data Structures Lab" on 30th August 2021.
- Prof. C. R. Patil attended AICTE Training And Learning (ATAL) Academy Online Elementary FDP on "BLOCK CHAIN TECHNOLOGY" from 23rd to 27th August 2021.
- Prof. A. V. Kolapkar attended Faculty Development Program (FDP) on "SYSTEM PROGRAMMING AND OPERATING SYSTEM (Theory and Laboratory) from 5th to 7th August 2021.
- Prof. A. V. Taware attended Two Days Faculty Orientation Program (FOP) on "Database Management Systems and Database Management Systems Laboratory on 10th and 11th August 2021.
- Prof. M. J. Patil, Prof. S. A. Gade attended Faculty Orientation Program (FoP) on "Operating System laboratory" on 27th August 2021.
- Prof. S. A. Gade attended Faculty Orientation Program (FoP) on "Object Oriented Programming & Computer Graphics Laboratory" on 24th August 2021.
- Prof. S. M. Malao Prof. K. P. Birla, Prof. P. P. Vaidya, Prof. Dr. S. M. Kamalapur attended Webinar on "Creativity and Innovation" on 15th September 2021.
- Prof. M. N. Shinde, Prof. S. A. Gade, Prof. S. M. Malao attended Workshop on "How to Conduct the Student Induction (SIP) Program" on 20th September 2021.



- Prof. S. T. Patil attended Two Days Online Webinar on “Copyrights filing process in India, litigations, Designs filing process in India, litigation” from 30th September 2021 to 1st October 2021.
- Prof. P. S. Kubal attended One week Online Training Programme on “Instructional Design and Delivery System” from 4th to 8th October 2021.
- Prof. R. K. Dhurjad, Prof. A. D. Dixit attended FDP on Advanced Concept of outcome based education from 6th to 8th October 2021.

Papers Presented by Staff and Student

Title of Paper: Effective Multi-Label Classification Using Data Preprocessing

Author: Vaishali S. Tidake, Shirish S. Sane

Organizer: IGI Global (Book Chapter)

Abstract: Usage of feature similarity is expected when the nearest neighbors are to be explored. Examples in multi-label datasets are associated with multiple labels. Hence, the use of label dissimilarity accompanied by feature similarity may reveal better neighbors. Information extracted from such neighbors is explored by devised MLFLD and MLFLD-MAXP algorithms. Among three distance metrics used for computation of label dissimilarity, Hamming distance has shown the most improved performance and hence used for further evaluation. The performance of implemented algorithms is compared with the state-of-the-art MLkNN algorithm. They showed an improvement for some datasets only. This chapter introduces parameters MLE and skew. MLE, skew, along with outlier parameter help to analyze multi-label and imbalanced nature of datasets. Investigation of datasets for various parameters and experimentation explored the need for data preprocessing for removing outliers. It revealed an improvement in the performance of implemented algorithms for all measures, and effectiveness is empirically validated.

Title of Paper: Proposing a Semantic Analysis based Sanskrit Compiler by mapping Sanskrit’s linguistic features with Compiler phases

Author: Akshay Chavan , Pranathi Kunadi , Prof. Dr. Nidhi Wader , Prof. Dr. Shirish Sane

Organizer: Proceedings of the Second International Conference on Electronics and Sustainable Communication Systems (ICESC).

DVD Part Number: CFP21V66-DVD; ISBN: 978-1-6654-2866-8

Abstract:

Proposing a Semantic Analysis based Sanskrit Compiler by mapping Sanskrit’s linguistic features with Compiler phases

Akshay Chavan, Pranathi Kunadi, Prof. Dr. Nidhi Wader, Prof. Dr. Shirish Sane

Abstract: The requirement for a Natural Language to be used as a programming language has been discussed for many years, yet we still are finding answers to the same question. Most of the current work in this area is limited to English and a few other oriental languages, as a result of which we are susceptible to ambiguity in its interpretation due to the weak grammatical structure of these languages. Although there are thousands of languages spoken worldwide and we haven’t tested all of them, we still can get a strong contender for this argument. To answer this question, this paper proposes the use of Sanskrit language as a programming language which has the most substantial ancient roots and offers a robust grammatical foundation, which will help us achieve a natural language to be used as a computational language. This paper deals with an approach to demonstrate how Sanskrit could be a solid contender to be a natural language used as a programming language by mapping it to the compiler’s phases.

Faculty Coordinator: M. P. Mahajan

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K. K. Wagh Institute of Engineering Education and Research, Nashik

https://engg.kkwagh.edu.in/academic_programme/news_letter/1