PCCoE'S
Samvaad
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......Connecting Minds & Souls

Our Patrons : Pimpri Chinchwad Education Trust

Inside This Issue

Late. Shri. Shankarrao B. Patil
Founder President

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Samvaad Editorial : National skill qualification framework

To make education relevant and to create an 'industry fit' skilled workforce, the Government of India launched the NSQF. It stands for National Skill Qualification Framework as notified by the National skill Development Agency vide notification date 27th December 2013. NSQF is a formal mechanism for recognizing national awards within a transparent, coherent, and flexible national skills qualification system. It involves the establishment of a credit system to provide a common basis for describing and comparing awards and for establishing equivalence between them. Based on NSQF, academic institutions are recognized to offer skilled-based B. Voc. Degree programs in association with Industry and respective Sector Skill Council of India. There shall be credit-based programs wherein credits are earned for skill and general education components with multiple exits and entry options. This would enable the learner to seek employment after award level and join back when necessary to upgrade qualification or skill competency either to move into a job or the higher education system.

Objectives:

 To provide a judicious mix of skills relating to a profession and appropriate content of General Education.
 To ensure that the students have adequate knowledge and skills to be work-ready at
each program exit point.
 To provide flexibility to the students using pre-defined entry and multiple exit points.
 To integrate NSQF within the undergraduate level of higher education to enhance the
student's employability and meet industry requirements. Apart from meeting the needs of local and national industries, students are also expected to be equipped to become part of the global workforce.
 To provide vertical mobility to students admitted in such vocational courses.
 The certification levels will lead to Diploma/Advanced Diploma/B. Voc. Degree will
be offered by respective affiliating University/Board of Technical Education.

Skill education component:

 The focus of skill development components shall be to equip students with appropriate knowledge, practice, and attitude, to become work ready. The skill development components will be relevant to the industry as per its require-

 The curriculum will necessarily embed within itself National Occupational Standards (NOSs) of specific job roles within the industry. This would enable the students to meet the learning outcomes specified in the NOSs.
 The overall design of the skill development component, along with the job roles selected, will be such that it leads to a comprehensive specialization in a few domains.
 The curriculum will focus on work-readiness skills in each year of training.
 Adequate attention will be given to practical work, on-the-job training, development of student portfolios, and project work in curriculum design.

General education component:

 The general education component adheres to the normal senior secondary and university standards. It will emphasize and offer courses that provide holistic development. However, it will not exceed 40% of the total curriculum.
 Adequate emphasis is given to language and communication skills.

Eligibility:

There may be three types of learners getting admission to the first semester of skill based courses under NSQF:
 Category - 1: students already acquired NSQF certification Level 4 in a particular Trade and opted for admission in the skill-based courses under NSQF in the recognized institutions in the same trade with job role for which they were previously certified at school level.
 Category - 2: students who have acquired NSQF certification Level 4 but may like to change their trade and may enter into skill-based courses in a different trade.
 Category - 3: students passed the 10+2 examination with conventional schooling without any vocational training background.

Dr. U. G. Potdar
Associate Professor and Coordinator B. Voc.,
Mechanical Engineering Department, PCCoE.

Guest Article: Raah Foundation

India is one of the youngest countries in the world with the average age being just 28.4 years. An investment in youths is hence extremely essential to make use of this demographic dividend. The youth especially from the rural, tribal or under privileged backgrounds in urban areas however are grappling with multiple challenges – the biggest being absence of employability skills. There is a big gap with respect to skills required by corporate world and the one which are offered by the educational institutes.

After a decade of transforming tribal lives through water and sustainable livelihood opportunities in Palghar district in Maharashtra, Raah Foundation in 2022 launched "Samarth". "Samarth", aims to provide vocational training, technical training and social transformation training for the youth to bridge this gap.

These programs are specially designed for youth between the age of 18-25. Youth are trained in soft skills and technical skills through various programs. Few of the courses offer 100% employment guarantee with reputed companies on successful completion of the course. Employment support is provided on completion of few programs. We have tied up with well-known institutions to impart training. Skill centres are being set up across Maharashtra starting with Mumbai, Pune & Nasik. We are tying up with various colleges to impart training to the students in the last year of their courses to enhance their employability skills.

The class room-based course includes training on spoken English, Email communication, Sales and Marketing, life skill values, basic Computer skills like Micro Soft word, Excel and Power point presentations and Tally. Few of the courses offered also include online courses like Customer Relationship Management BPO-Voice, E- Commerce and Career Edge IT professional. Many more industry specific technical courses are being worked out and will be shortly included in our bouquet of courses.

Apart from nominal registration fees, the complete courses are offered free to the students. Raah Foundation is on a mission to empower our youth with the right skill sets and is taking fundamental steps in this direction. It will be a huge support if you can spread the word and help us reach the desired youth population.

RAAH foundation is registered with the Charity Commissioner of India and duly compliant for all the tax benefits to donors. To know more about the programs or to way to sponsor students for these programs, please get in touch with us.

Vidya Rai,
Head - Skill Development Programs,
Raah Foundation, Mumbai.

Persistent Corner: Joy of Giving

We are all guilty of doing some things which we want, rather than which we need. A pair of shoes we must have because of its exclusiveness, a set of cards which will help complete our rare collection or even the newly released iPhone 14, even though it looks just like the iPhone 13 and has almost the same features.

Sadly, not everyone is capable of quenching their thirst for desires, or even fulfilling their needs.

According to Niti Aayog, 25% of the Population in India are Poor. This means every fourth person of the total population of India is unable to get the basic needs for survival i.e. food, clothes and shelter.

Hence, it is our duty to help fellow humans by the help of donations. Persistent actively participates in helping the needful. Many employees donated fixed amounts or even their one day salary for certain periods like a week.
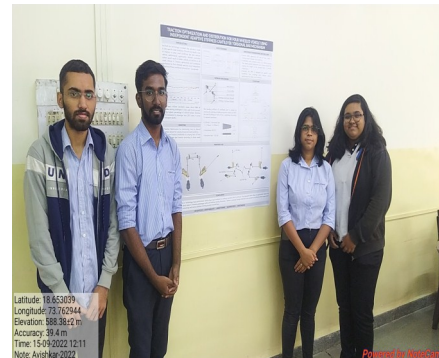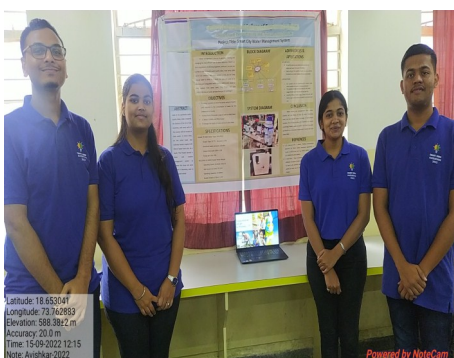
In the end, all we can do is our part and hope everything gets better.

Mr. Ritvik Bhavan
Lead Software Engineer

Other Initiatives

PCCoE have organized **Avishkar 2022 institute level competition on 15 September 2022** at institute level for all branches of engineering streams and MCA. Total 13 groups have participated in the competition. The event was Coordinated by Dr. D. S Lal, Dr. R. Phursule and team.

Sr. No.	Name of the students	Project Title with code	Branch and Category
1	Indrayani Deshpande	AV/PCCOE/MCA-01: An application / website to provide rental machinery equipments to farmers	MCA - Management
2	Eshaa Mohod, Kaustubh Narkhede Riddhi Dhage, Akshay Munot, Sahil Hemnani	AV/PCCoE / IT-01: Drishti - Smart Goggles for Blind People	Engineering
3	Rudresh Shrirao, Sohel Shedbale, Rashi Rathi, Radhika Doijad, Madhav Pujari, Pratik Shetti	AV/PCCoE / ETC-04: Smart City Water Management System	Engineering

On the occasion of NSS day, Pimpri Chinchwad College of Engineering NSS cell (A-053) undertake the fort cleaning activity at Shivneri Fort on 24 th Sept. 2022. Under this activity 74 volunteers and 5 faculty members participated and undertook the following initiatives:

1. Cleaning Fort Premises: Students have collected only plastic waste on the fort.
2. Presented a street play for sensitizing visitors about the need to maintain our heritage sites. Presented following points in street play
- Why to maintain heritage site?
- Importance of segregating biodegradable waste and non-biodegradable waste.

Link for the video – https://youtu.be/UemosbTiGGk

3. NSS held Swachhata Awareness Rally at Shivneri Fort
4. Mr. Anand Biradar guided students about the history of Shiveri fort

PCCoE Technical Feast

1. Mrs. Rohini Pise and Dr. Sonali Patil published paper on "A Deep Dive into Blockchain-based Smart Contract-specific Security Vulnerabilities " in IEEE International Conference on Blockchain and Distributed System Security, Scopus Indexed.
2. Dr Rajesh Phursule published paper on "Implementation of AI based Safety and Security System Integration for Smart City " in International Journal of Electrical and Electronics Research, Scopus Indexed .
3. Dr. Rachana Yogesh patil published paper on DDoS Attack Detection and Defense Mechanism based on Second-Order Exponential Smoothing – Holt's Model in https://doi.org/10.1504/IJCAT.2022.125177- International Journal of Computer Applications in Technology, Vol 68, No 4, pp 397-404(Scopus and ESCI indexed).
4. Dr. Rachana Yogesh patil published paper on Digital Forensics Evidence Management based on Proxy Re-Encryption.
5. Dr. K. Rajeswari, Dr. Reena Kharat, S. Vispute, Deepti Salunkhe published paper on Early Detection of Diabetic Retinopathy using Deep Convolutional Neural Network in ICGAMS 2K22, WoS, ESCI.
6. Dr. K. Rajeswari, Dr. Reena Kharat, S. Vispute, Sagar Lahade, Afrin Ali, Rushikesh More published paper on Analyze The Novel Apriori Algorithm for Frequent Pattern Generation and Improve The performance by Generating Powersets for Unique Records in ICGAMS 2K22, WoS, ESCI
7. Mr. Amey Thonge , Mr. Viren Chiplunkar, Mr. AbhirAdiverkar, Mr. Rahul Kulkarni, Mr. Rahul Gujar, Mr. Amrita Francis, Mr. Vikram Aher published Patent based on UG project and was scrutinized by the institute.

Faculty Achievements

1. Dr Sarika T. Deokate revcieved copyright on Detection of Alzeimers disease from MR images using Deep Learning Approach , 11310/2022-CO/L29/9/2022
2. Dr Sarika T. Deokate revcieved copyright on Email alert security using ML to protect bank transactions ,11899/2022-CO/L29/9/2022
3. Dr. K . Rajeswari published book on Data Science and Big data Analytics for T.E. Computer Engineering , Nirali Publication, ISBN: 978-93
4. Mr. Nilesh V. Gaikwad Delivered expert lecture in Bharti Vidyapeeth on topic "Multi Pressure System" .
5. Mrs.N.A.Mandhare successfully defended her Ph.D. thesis' Design Optimization of a Centrifugal Pump for augmented performance' on 19th August 2022 and completed Ph.D.Mechanical from Vellore Institute of Technology, Chennai. Ph.D. Degree conferred on 27th August,2022.
6. Mr. Sagar R. wankhede Worked as a Team member for revision detailing and implementation of 2019 course (Opreations Resaerch).

PCCoE Expression

- The Department of E&TC has conducted an expert talk to **Understand the insights of Formative Assessment.** This expert talk was scheduled for 7th Sep'2022 to discuss- Guidelines on formative assessment and Rubrics preparation. This talk benefited faculty to best implement the IE1 and IE 2 tools in the department for various courses. The resource Person, Dr. Shaila Subbaraman, Walchand College of Engineering, Sangli, have guided the session on 07/09/2022.

Photo

- Civil Engineering department organised **oration program** under the leadership of Prof. S. P. Banne, Asst. Prof. Civil Engineering, on "**Case Study of Geotechnical Investigation of Fursungi Tunnel**", conducted on 30th September 2022 with IGS Pune Chapter. The oration delivered by Eminent speakers Er. Pravin Kolhe, Superintendent Engineer, Water Resource Department, Govt. of Maharashtra, India and chief guest Er. Bal Krishna, Additional chief Engineer, WAPCOS Ltd with 210 participants in offline mode.

- 9th International Conference and 25th (Silver Jubilee) Annual Conference of Gwalior Academy of Mathematical Sciences ICGAMS- 2K22 was organized by the Department of Applied Sciences & Humanities from 29th September to 1st Oct' 2022.

Total 20 guest Speakers across INDIA and Abroad delivered the speeches on a variety of trends and subjects of mathematics. Total 75 participants participated in this conference and presented 61 research papers in diverse and recent areas of Pure and Applied Mathematics.

On 29th Sep'2022, the conference was inaugurated by the Chief guest, Dr. Renu Jain (Devi AhilyaVishwavidylaya, Indore), Dr. V. P. Saxena (Founder President of Gwalior Academy of Mathematical Sciences, Keynote Speaker, Dr. Milan Stehlik (Linz University, Austria), Dr. G. N. Kulkarni (Director, PCCoE), Dr. Sanjivani Sonar (HoD, AS&H department), Dr. Leena Sharma (General Chair), Prof. AshwiniVaze (Co-Chair).

Other Initiatives

PCCoE Announcement

Inauguration ceremony of PCCoE– IJBC "**Know Japan**" Event is held at PCCoE. The event is on 14th and 15th Oct. 2022 at PCCoE campus.