



WALCHAND COLLEGE OF ENGINEERING, SANGLI.

(GOVERNMENT AIDED AUTONOMOUS INSTITUTE)

*On the occasion of celebrating
glorious **platinum jubilee** of
Walchand College of Engineering, Sangli*



WCE ACM STUDENT CHAPTER

presents,

HACKATHON

2021

 **Celebrating 5 yrs of WCE ACM** 

Sponsored by:



PAVILION



<https://wcehackathon.in>

CONTENT

PARTICULAR

PAGE NO

• About WCE	2
• About ACM, WCE ACM	3
• WCE Hackathon 2021	4
• Schedule	9
• Rules	10
• Certification	10
• Judging criteria	11
• Glimpse of past Hackathons	12
• Contact Us	16

WALCHAND COLLEGE OF ENGINEERING, SANGLI (GOVERNMENT AIDED AUTONOMOUS INSTITUTE)



Walchand College of Engineering Sangli (WCE), established in 1947 and aided by the Government of Maharashtra, is one of the oldest and premier engineering institutions in India. With a rich history of over 70 years and a beautiful campus of over 90-acres, WCE Sangli, is providing transformational learning experience in various disciplines of engineering. The institute is affiliated to Shivaji University Kolhapur and is approved by AICTE, New Delhi. WCE is accredited by NAAC with "A" grade.

WCE offers 6 UG programs and 10 PG programs in various engineering streams. It also offers PhD programs under Shivaji University, Doctoral Fellowship of AICTE and under Quality Improvement Program (QIP) scheme of Ministry of Human Resource Development (MHRD). WCE has shown its consistent performance in Technical Quality Improvement Program (TEQIP) of MHRD through NPIU for consecutive 3 programs.

Through the Transformational Teaching Learning (TTL) processes, WCE aims at overall development of students with focus on Education, Employability and Employment. The students of WCE get placed in reputed Multinational and Indian Companies such as Google, Microsoft, LinkedIn, Amazon, John Deere, Rakuten, P&G, Mahindra, TCS, Infosys and many other companies. With a high percentage of placements, WCE students also get very good packages, with the highest package being 43 LPA in the year 2019.

WCE also has a vibrant student club culture, having actively involved in various technical and cocurricular student activities. There are also department-wise student associations and professional student chapters, who organize programs to keep up with the current trends in technology and also for enhancing the student personality. With their contribution towards the development of institution, WCE Sangli is strongly marching on the path of excellence in engineering education. No wonder WCE Sangli is the most preferred destination for engineering education today!

ABOUT ACM

The Association for Computing Machinery (ACM), the world's largest scientific and educational computing society is a US-based international learned society for computing. The ACM is an umbrella organization for academic and scholarly interests in computer science (informatics). Its motto is "Advancing Computing as a Science & Profession".

The ACM India Council was created to recognize and support Indian ACM members and activities. It has 195 student chapters and 16 professional chapters nationwide, including the Special Interest Group and ACM-W chapters, with the dual objective of creating a healthy competition among chapters and working toward a social cause. One of which is WCE ACM Student Chapter.

WCE ACM STUDENT CHAPTER

WCE ACM Student Chapter, authorized by ACM INDIA COUNCIL on March 18, 2016, aims to impart knowledge and promote innovation in the field of computer science. Deriving inspiration from the parent organization, ACM, we thrive to achieve the aim by conducting various technical & non-technical activities.

It was formed by the Department of Computer Science & Engineering, WCE Sangli. The chapter mainly consists of students from UG & PG with Computer Science / IT as major.

The chapter officially represents the ACM & ACM India in the Sangli-Kolhapur region. We are the only ACM Student Chapter formed in western Maharashtra.

We organize hackathons, research symposiums, boot camps, workshops, coding competitions, technical sessions, and talks by experts. WCE ACM Student Chapter has been organizing WCE Hackathon for the last 3 years. Jagruti is a social event organized on Women's Day. DSA Launchpad, ACM Talks, WCE RSC are some of the above-mentioned events.



WCE HACKATHON 2021

BY WCE ACM STUDENT CHAPTER

WCE HACKATHON'21 will be conducted entirely in Virtual mode. Hackathon'21 is a 48-hours long developing venture in which participants are expected to complete the product development as per the provided themes. Here participants will innovate, strategize, code, and beat the odds with some ingenious solutions to the most sought real-life problems.

PARTICIPANTS

Team of UG Engineering students is eligible to participate in the hackathon. A team should have minimum 2 Team and maximum 4 members. Team members can belong to different colleges and different academic years.

REGISTRATION

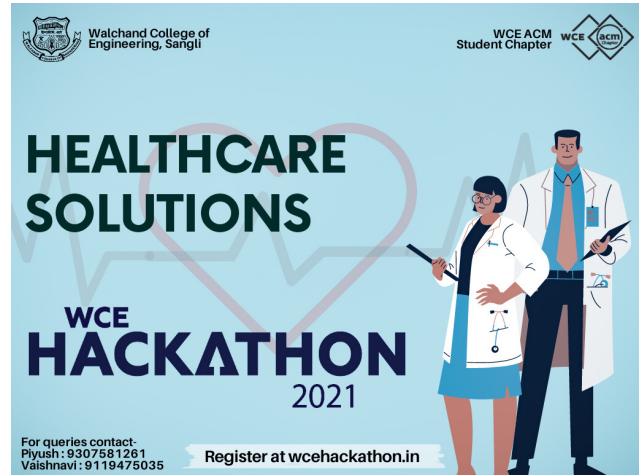
Registration is taken through Dare2Compete. [Registration link](#)

THEMES

Project developed during Hackathon should be based on the following themes.

- **Healthcare Solutions**

Although the level of technology in healthcare is at an all-time high, there is still immense potential to use technology to automate daily operative processes and tasks. Data processing for hospitals, Virtual health assistant, Remote patient examination, Health Technology in Rural Areas, GPS Monitoring for Ambulances are some potential projects under this theme.



- **Efficient Online Learning**

The education system continues to face multiple challenges in terms of the quality and delivery of education. Tech-based solutions can bridge the gap in learning and streamline the education system.

THEMES

Project developed during Hackathon should be based on the following themes.

- Financial Aid

It has been quite a while of Fin-Tech being in limelight and widely used however, the scope for improvement and advancements still prevails. Expense management (personal finance), Investment guidance and services, loan lending, fast and secured payment gateways, online banking, insurance management are some of the areas that could be worked upon. Other such ideas are welcome too.



- Crowd Management and Safety/ Contactless systems

Eliminating physical contact and avoiding crowds in daily activities is the need of the hour. The need and scope of work in this field is ever increasing in the period of the pandemic. Even the existing solutions have a huge scope of improvement. Contactless offline shopping, virtual cloth trials, crowd management in public places are some domains that can be worked on.

THEMES

Project developed during Hackathon should be based on the following themes.

- **Cyber Security**

Being digitally surrounded, but still remaining secure and private has become a pronounced need now. There always exist loopholes in the systems that are cashed to take away data integrity and security. The domain expects potential projects that could safeguard security during surfing, systems that identify and eliminate suspicious or potentially hazardous programs, safety layers during online transactions, and other such tools that complement cybersecurity.



TRACKS

Hackathon consists of 2 tracks i.e Novice and Expert. Separate winners will be declared as winners from each track.

Novice Track

Only a team of all first academic year students can choose to apply in Novice track. Teams in novice track that registered on or before June 14, 2021 will be eligible for mentor allotment.

Expert Track

Teams with 1 or more members from 2nd, 3rd or 4th academic year will be considered in Expert Track.

STRUCTURE

Round 1: Idea Submission

Registered teams need to submit an abstract of their project based on one of the given themes. Strictly follow the Abstract Format

Round 2: Development

Shortlisted teams will develop the project in this development period of 48 hours. Submission will be in the form of video, link to git repo, deployed version(not mandatory). Additional 4 hours will be provided to submit a video(maximum duration of 4 mins) explaining the project and demonstration of the product built. Teams will be asked about their progress, twice during the period by the judges and volunteers through video conferencing.

Virtual Finale

Shortlisted teams will have a final presentation and Q/A session with the judges in presence of all finale teams.

PRIZES

Prize money for Top 3 teams

Winner: Rs.25000

Runner-up: Rs.15000

2nd Runner-up: Rs.10000

*Prize money is for entire hackathon winners, not from each track

Other teams will get goodies according to their ranking.

SCHEULE

-  June 10, 2021- June 30, 2021: Registration
-  June 10, 2021- June 30, 2021: Round 1- Idea Submission
-  July 9, 2021 12:00 noon: Result declaration of Round 1
-  July 9, 2021 5:00PM - July 11, 2021 5:00PM: Round 2- Development Period
-  July 16, 2021: Result declaration of Round 2
-  July 17, 2021: Inauguration Ceremony
-  July 17, 2021: Virtual Finale (Presentation & Q/A with judges)

RULES

- One team can submit only one idea.
- Participants shall obey the code of conduct displayed on the website and that provided by dare2compete.
- We encourage you to submit projects only prepared in the duration of the hackathon. However, If you decide to submit projects consisting of re-used code, or re-submit a project that you have already submitted previously to any other hackathon, you are to disclose such previous use and its extent with the submission.
- The Intellectual Property(IP) of the product belongs to the developing team, the Industry sponsoring and Walchand College of Engineering, Sangli.

CERTIFICATION POLICY

- All participants will be provided a certificate of participation.
- Top 3 teams will be awarded with prize money and certificate of excellence.
- Top 3 teams from Novice track will receive a certificate of excellence in Novice track.

SPONSOR



JUDGING CRITERIA

Teams will be judged on these four criteria. Judges will weigh the criteria equally. During judging, participants should try to describe what they did for each criterion in their project.

- **Technology:** How technically impressive was the hack? Was the technical problem the team tackled difficult? Did it use a particularly clever technique or did it use many different components?
- **Design:** Did the team put thought into the user experience? How well designed is the interface?
- **Completion:** Does the hack work? Did the team achieve everything they wanted?
- **Learning:** Did the team stretch themselves? Did they try to learn something new? What kind of projects have they worked on before?



A GLIMPSE OF OUR HACKATHONS

HACKATHON '20

Last year WCE hackathon was held in the month of March, with great enthusiasm. Around 612 participants from various colleges across Maharashtra registered themselves for the hackathon. And a total of 253 teams competed for the winner badge.

Basically, the hackathon had 3 rounds :

- 1.Idea/Abstract submission
- 2.Skype interviews
- 3.Onsite development at WCE campus

Over 25 teams could make their way to the onsite round. However, due to unseen circumstances of the pandemic, the last round was dropped.

HACKATHON '19

WCE HACKATHON '19 was organized on the 16th and 17th of March 2019.





STAFF ADVISOR

Dr. Mrs. M. A. Shah HoD, Department of CSE, WCE Sangli
Staff Advisor, WCE ACM Student Chapter

CONTACT US



wcehackathon@walchandsangli.ac.in



<https://wcehackathon.in>



Piyush M : piyushmhaske2001@gmail.com

Vaishnavi M : mvaishnavi411@gmail.com