



**G. H. Raison College of Engineering & Management
Wagholi, Pune**



(Autonomous Institute Affiliated to Savitribai Phule Pune University)

Research and Development Cell

Activity Report

August -2018

Academic Year 2018-19

-Dr.Tanuja S.Dhope

| Engineering | Management | Law | Schools | Other Courses |

• NAGPUR • AMRAVATI • AHMEDNAGAR • PUNE • JALGAON • RAIPUR •



INSTITUTE VISION & MISSION

VISION:-

To achieve excellent standards of quality education by
Keeping pace with rapidly changing technologies.

To create technical manpower of global standards with
Capabilities of accepting new challenges.

MISSION:-

Our efforts will be dedicated to impart quality and
Value based education to raise satisfaction level of all
Stake-holders. Our strength will be directed to create
competent engineers. Our endeavor will be to provide all
support to promote Research & development activities.

Objectives

- The Research Promotion Cell of G.H. Rasoni College of Engineering and Management, Pune aims to nurture research culture in the institute by promoting research in newly emerging and challenging areas of science and engineering.
- It encourages the Undergraduate, Post graduate and Doctoral degree candidates to undertake the research in newly emerging frontier areas of science and engineering including multidisciplinary fields. This enhances the general research capability of budding technocrats by way of participating in conferences, seminars, workshops, project competition, etc

1. Invited expert talk for UG:

| Sr. No. | Date | Conducted by Department | Name of Activity | Name of Person/Designation /Company Name | Student | Staff | Faculty Coordinator |
|---------|------------|-------------------------|----------------------------|--|---------|-------|---------------------------------------|
| 1 | 4/08/2018 | E &TC | Patent Drafting and Filing | Pravin.kshirsagar @raisoni.net | 100 | - | Dr.Pravin Kshirsagar |
| 2. | 10/8/2018 | R &D cell with Civil | IPR Workshop | Mrs. Archana Joshi (Associate Manager) And Mr. Ashutosh Prachand(Senior Analyst) IPFACE, Ganeshkhind, Pune. 07410045654/ 02025865877 archnajoshi@gmail.com | 208 | - | Dr.Ajay Dahake, Dr.Tanuja S.Dhope, |
| 3. | 25/08/2018 | Civil | Plate & Beam Theories | Dr. Y M Ghugal, Govt. Engg. College, Karad. Professor and Head, Applied Mechanics Department, Govt. College of Engineering, Karad – 415 124 ymghugal@gmail.com | 21 | | Prof. Sangameshwar Birajdar |

E&TC R &D Activity : Workshop on “Patent Drafting and Filing, Copy Right “



Description of the event:

Department of E&TC of GHRCEM, Pune organized seminar on “Patent Drafting and Filing and Copyright ” for students of TY E &TC by Dr,Pravin Kshirsagar on 04.08.2018.

The workshop aims to promote awareness & adoption of intellectual property rights, copy right.

Dr,Pravin Kshirsagar gave the detail about patent filing to patent awards, along with trademarks, copyrights. Discussions were held on today’s globally competitive environment where intellectual property has placed itself on a pedestal in the context of economic growth and is becoming increasingly important. Intellectual Property (IP) was expressed as the fuel that powers the engine of prosperity, fostering invention and innovation.

Total 100 students were present for this expert talk. Continuous support and motivation from Raisonni Management, Shri.Sunil Raisonni (Chairman, RGI),Shri.Ajit G.Tatiya(Trustee Director, RGI, Pune),Dr.K.K.Paliwal (Director, GHRCEM, Pune) made this event a grand success.

Details of the news coordinator:

Name: Dr.Pravin Kshirsagar

Organization: GHRCEM, Wagholi, Pune

Department: E&TC Engineering

Date:05 /08/2018

CIVIL and R & D Cell: Workshop on “Intellectual Property Rights”



Description of the event:

Department of Civil & R & D cell of GHRCEM, Pune organized workshop on “Intellectual Property Rights” for students & faculty members by IPFACE,Pune. Dr.Ajay Dahake welcomed Mrs. Archana Joshi (Associate Manager, IPFACE Pune)Mr. Ashutosh Prachand (Senior Analyst, IPFACE Pune).. Director Dr.K.K.Paliwal & Dean Academics Dr.P.B.Nagarnaik gave importance about IPR.

The workshop aims to promote awareness & adoption of intellectual property rights amongst entrepreneurs & MSMEs in India while also making accessible high quality IP service & resources.

Ms.Archana Joshi gave the detail about patent filing to patent awards, along with trademarks, copyrights. Discussions were held on today’s globally competitive environment where intellectual property has placed itself on a pedestal in the context of economic growth and is becoming increasingly important. Intellectual Property (IP) was expressed as the fuel that powers the engine of prosperity, fostering invention and innovation. Mr. Ashutosh Prachand discussed about include IP analytical reports, Trademark & Copyright filings, arranging IP awareness talks and training activities.

Total 208 students were present for this expert talk. The expert talk was concluded by vote of thanks by Ms.Ajay Dahake .Continuous support and motivation from Raisonni Management, Shri.Sunil Raisonni (Chairman, RGI),Shri.Ajit G.Tatiya(Trustee Director, RGI, Pune),Dr.K.K.Paliwal (Director, GHRCEM, Pune) and faculty members made this event a grand success.

CIVIL : Seminar on “Plate & Beam Theories”



Details: on 25th Aug 2018, Department of Civil Engineering GHRCEM, organized expert talk on “Plate & Beam Theories” for M.-Tech Students and Faculty members by resource person Dr. Y M Ghugal, Govt. Engg. College, Karad. The expert talk aims to teach plate & beam theories & to promote its applications. The expert talk is attended by M-Tech. Civil Engg. Students. HOD Civil Engg, R & D coordinator and faculty members of the department was present. The overall feedback of the Expert Talk was Very Good.Total 21 students were present.

The expert talk was concluded by vote of thanks by Ms.Ajay Dahake .Continuous support and motivation from Raisonni Management, Shri.Sunil Raisonni (Chairman, RGI),Shri.Ajit G.Tatiya(Trustee Director, RGI, Pune),Dr.K.K.Paliwal (Director, GHRCEM, Pune) and faculty members made this event a grand success.

Details of the news coordinator:

Name: Prof. Sangameshwar Birajdar
Organization: GHRCEM, Wagholi, Pune
Department: Civil Engineering
Date:25/08/2018

2. Proposal Submission:

- A. **Submission of QIP Proposal to BCUD, Pune** : Hardcopy of following proposals have been submitted to BCUD ,Pune on 10th August,2018.

| Sr.No | Name of the Department | Title of Proposal | Funding Amount |
|-------|------------------------|--|-----------------------|
| 1 | E &TC and CComputer | Int.Conf. on communications and Cyber Physical Engineering | Rs.3,70,000/ |
| 2 | Mechanical | 4 th Natinal Conf. on Recent Developments in Mechanical Engineering | Rs.3,05,000/ |
| 3 | F.Y. | State level seminar on Emerging Trends in Engineering and Material Sciences | Rs.1,24,000 |
| 4 | Civil | State level workshop on Solid Waste Management for smart city | Rs.1,54,000/- |
| 5 | Civil | Lab Equipment :Respirable Dust Sampler | Rs.1,32,160/- |
| 6 | Sports | Sports Equipment | Rs.1,00,000/- |
| | | Total | Rs.11,85,000/- |

- B. **Research Proposal to Rajiv Gandhi Science and Technology Commission (RGSTC)** :

The evaluation of following proposals has been done on 11th August,2018 by experts from Dr.Rajendrakumar Patil,Associate Professor, E&TC Dept., CoE Pune._The suggestions by experts will be incorporated in the proposals before final submission.

| Sr.No | Name of the staff | Title of Proposal | Funding Amount |
|-------|--|--|----------------|
| 1 | Mr.Santosh Mishra Ms.Shubhangi Satdeve Mr.Yash Zode (Comp) | IoT based Garbage management techniques for disposal awareness and Monitoring | Rs.5,00,000/- |
| 2 | Dr.Tanuja Dhope Ms.Munmun Ghosal | Smart Agricultural System for Weed Removal | Rs.5,50,000/- |
| 3 | Ms.Bharti Patil Ms.Rupali Patil | Cooperative Bait Detection Scheme for prevention & Detection of Black Hole Attacks | Rs.5,00,000/- |
| 4 | Ms.Vaishali Raut Ms Manisha Waje | Design of Hybrid Circuit using Single electron Tunneling –CMOS Technology | Rs.5,00,000/- |

- C. **Call for submission of project ideas under AICTE-ECI-ISTE Chhatra Vishwakarma Awards** :

The following project proposals have been submitted online to AICTE portal on 10th August 2018.

| PROJECT IDEAS UNDER AICTE-ECI-ISTE CHHATRA VISHWAKARMA AWARDS | | | |
|--|--------------------------|---|--|
| Sr.No | Name of Mentor | Student Groups | Title of Project |
| 1 | Dr. Tanuja Satish Dhope | 1.Pranab Mistry 2. Pranay Rathi 3. Harshad Shende 4.Vikas Shukla | Smart irrigation system using IoT. |
| 2 | Ms. Munmun Ghosal | 1.Ankita Torane 2. Pooja Sonar 3. Dhanshri Raut 4. Anagha Mohide | E-Weed Detection and Removal System using IOT. |
| 3 | Ms.Simran Khaini | 1.Rahil Jadhav 2.Mansi Gundewar 3.Aara Tarnum 4. Arsh Patil | Use me Using IOT |
| 4. | Dr. Satish Allampalliwar | 1.Sanket Paraswar 2.Tushar Nawale 3.Shrirish Nalawade 4.Rushikesh Wankhede | Smart Village |

D. Plagirism checking of M.Tech students has been done from 16th -24th Aug.2018

E. Call for Proposal under BCUD –ASPIRE:

BCUD-ASPIRE research proposal has been notified to the faculty members. Last date for online submission is 10th September 2018