



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



(Autonomous Institute Affiliated to Savitribai Phule Pune University)

Research and Development Cell

Activity Report

July -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	13/07/2018	R &D Cell with IT	Named Data Networks: A Next Generation Internet Architecture	Dr.Mohit P. Tahiliani (Assistant Professor Department of Computer Science & Engineering, NIT Suratkal) M.No. 9844965159 tahiliani@nitk.edu.in	135	12	Ms.Shabdha Dondgaonkar
2	20/07/2018	Computer	Workshop (LaTex)	Mr.Suraj Bhoite 9922372083 suraj.bohite@raisoni.net	72	-	Ms.Sunita Nandgave
3	27/07/2018	Mechanical	IPR Awareness	Prof. Avinash Thakur (Intellectual Property Consultant ,Dr. D. Y. Patil Institute of Engineering & Technology, & Group Of Institutions, Pune) 8055260777 Avithakur19@gmail.com	90	-	Dr.Adik Yadav
4	28/7/2018	F.Y.	Technical paper Writing	Dr.Pragati Thakur (Associate Professor, chemistry Dept.SPPU) 91 9352405737 prthakur@chem.unipune.ac.in	78	10	Shubnagi Sachdeve
5	31/07/2018	Computer	Creativity & Innovation (Project Management)	Mr. Sachin Adlinge Assistant Application Manager 3M India Ltd.,Pune 9922372083 sach.adinge@raisoni.net	118	-	Ms.Mansi Bhonsale

Information and Technology: Expert Talk on “Named Architecture: A next generation Internet Architecture”



Expert Talk on “Named Data Networks : A next generation Internet Architecture”

Description of the event:

Information Technology Department & R & D cell of GHRCEM, Pune has organized expert lecture on “Named Data Networks : A next generation Internet Architecture” on dated 13th July 2018 from 9.15 am to 12 pm for the students of Computer & IT Department GHRCEM ,Pune. Mrs. Simran Khiani(HOD ,IT) welcomed Dr. mohit Tahiliani , Asstitant Professor, NIT,Suratkal .

Dr. Mohit Tahiliani gave information about Named Data Networks : a next generation internet architecture NDN is an entirely new architecture, but one whose design principles are derived from the successes of today’s Internet, reflecting our understanding of the strengths and limitations of the current Internet architecture, and one that can be rolled out through incremental deployment over the current operational Internet.Also discussed real time applications where it can be used for better performance.

Dr.Tanuja S. Dhope requested Dr. Mohit Tahiliani to guide the faculty members regarding how to write resarch proposals.Dr. Mohit Tahiliani interacted with faculty memebers of Computer, Information Technology Department , GHRCEM for funding information and how to do industry institute interaction for funded projects from various industries.

Total 12 faculties and 135 students(IT and Computer) were present for this expert talk. The expert talk was concluded by vote of thanks by Ms.Shabda Dongaonkar.Continuous support and motivation from Raisonni Management, Shri.Sunil Raisonni (Chairman, RGI),Shri.Ajit G.Tatiya(Trustee Director, RGI, Pune),Dr.Vaibhav Hendre (I/C Director, GHRCEM, Pune) and faculty members made this event a grand success.

Details of the news coordinator:

Name: Ms.Shabda Dongaonkar

Organization: GHRCEM, Wagholi, Pune

Department: Information Technology

Date:13/07/2018

Computer Department : Workshop on LaTeX



Workshop on Latex

Description of the event:

G.H.Raisoni College of engineering and management, Pune's Computer Engineering department organized workshop on " LaTeX " on 20th July 2018 under departmental R&D Cell. LaTeX is a document preparation system. As LaTeX is a high-quality typesetting system; it includes features designed for the production of technical and scientific documentation, it is very much useful for all undergraduate Students for preparation of SRS, miniproject report, Seminar report etc. The speaker "Mr. Suraj Bohite" from G. H. Raisoni College of Engineering, Pune MTech Computer student provided the necessary input with help of presentation and practical session. He has covered all basic concepts and provided useful ways to design report writing, presentation with help of LaTeX in easy and informative manner. Special efforts are taken by Sunita Nandgave (Assistant professor Computer) to arrange such a workshop and she explained about importance of LaTeX .72students of TY BTechComputer are benefited by workshop and students were highly satisfied with the contents and delivery of the workshop.

Details of the co-coordinator:

Name: Ms.Sunita Nandgave

Organization : GHRCEM, Wagholi, Pune

Department: Computer Engineering

Date:20/07/2018

Mechanical Department :Guest Lecture on “Intellectual Property Rights”



Guest Lecture on “ Intellectual Property Rights”

Description about THE EVENT: Department of Mechanical Engineering GHRCEM, Pune has organized Guest Lecture on “ Intellectual Property Rights” on dated 27th July 2018 from 12:30 pm to 1.30 pm for the TY and BE students and faculty members of Department of mechanical engineering GHRCEM,Pune. Dr.Adik R. Yadao welcomed Prof. Avinash Thakur, D.Y. Patil College of Engineering Pimpri Pune.

Dr.R.R.Arakerimath briefs about the importance of Patent, copy right and trade mark. Total 90 students were present in this Guest Lecture. Prof. Avinash Thakur gives the detail about patent filing to patent awards, along with trademarks, copyrights. Guest lecture was end by giving vote of thanks by Dr. Adik R. Yadao.

In today’s globally competitive environment, intellectual property has placed itself on a pedestal in the context of economic growth and is becoming increasingly important. Intellectual Property (IP) is the fuel that powers the engine of prosperity, fostering invention and innovation. The increasing significance of intangible assets in the global economy is forcing business and educational organizations to actively manage their IP as a key driver for building and sustaining their competitive advantage and achieving superior performance.

IPRs are now being used not only as a tool to protect creativity and generate revenue but also to build strategic alliances for socio-economic and technological growth. Accordingly, in order to foster the protection of innovations and creativity, the Intellectual Property Office under the Ministry of Commerce and Industry is dedicated to mobilize the use of such technological advancement for the economic development of the country.

Details of the news coordinator:

Name: Dr. Adik R. Yadao

Organization: GHRCEM, Wagholi, Pune

Department: Mechanical Engineering

Date:27/07/2018

F.Y.: Guest Lecture on “Technical Paper Writing”



Guest Lecture on Technical Paper Writing

Description about THE EVENT:

Department of F.Y.BTech Engineering has organized Guest Lecture on “Technical Paper Writing” on 28th July 2018 in collaboration with R & D cell of GHRCEM, Pune. Ms. S. M. Satdeve had given introduction of chief guest Dr. Pragati Thakur, who is presently working as a Associate Professor of Physical Chemistry Department, Savitribai phule Pune University. Dean F.Y.BTech, Mr Praveen Jangade add guidelines about the importance of R &D activity for the beginners.

Objective of the Lecture was to encourage the F.Y.BTech students get cognizance of the basics of Research. The aim of this Guest lecture has to motivate students for research and paper writing. Dr. Pragati Thakur started the seminar from “Title of the paper”.The title should be powerful and includes all content of paper with heavy words. Later on madam explained elaborate how to write abstract, key words, introduction, diagrams, calculations and references. She also gave idea about high weightage journals their impact factors with samples of papers, session was concluded with Question and Answers by students with the expert. Last but not least, vote of thanks was given by a Ms Shubhangi Satdeve of F.Y.BTech Dept.to appreciated guests for her valuable time. As per the feedback received from the participants it was very good learning experience, the lecture helped them in their future. Total 80 students from F.Y.B.Tech and near about 10 faculties were benefited by this seminar.

Details of the news coordinator:

Name: Ms. Shubhangi Satdeve

Organization: GHRCEM, Wagholi, Pune

Department: : F.Y.B.Tech

Date:28/07/2018

2. PG Activities:


A. RRC for Finalization of Project Title:


RRC Committees has been formed by various Departments for finalization of project title:


1. Computer Engineering
2. Mechanical Engineering : HPE ,CADME
3. Civil Engineering: Structural
4. Electronics and Telecommunication Engineering : VLSI and Embedded System

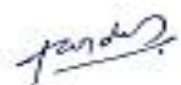
G.H. Raisoni college of Engg. and Management, Wagholi
Department of Computer Engg.
Academic Year 2018-19
M. Tech RRC Member List

Sr.No.	Name	Designation	Post	Contact no
1	Mrs. Poonam Gupta	HoD	Chairman	9765089275
2	Dr. Tanuja Dhope	Dean (R&D)	Member	8390981913
3	Dr. Jibi Abraham	External Expert(CEOP)	Member	9561970885
4	Mrs. Vidya Dhamdhare	Director Nominee /PG Coordinator	Member	9922644445
5	Dr. H.S. Wankhede	PG Guide	Member	9970285309
6	Ms. Manjushri Mahajan	PG Guide	Member	9881729776
7	Ms. B. Padmavati	PG Guide	Member	7722045856
8	Ms. Sunita Nandgave	PG Guide	Member	9881403346
9	Ms. Nivedita Rawate	PG Guide	Member	9850399383
10	Ms. Mansi Bhosale	PG Guide	Member	7741041327
11	Ms. Sarita patil	PG Guide	Member	9637436044
12	Mr. Sandeep Gore	PG Guide	Member	9881302974
13	Ms. Pournima More	PG Guide	Member	8668752782
14	Mr. Ganesh Bandal	PG Guide	Member	9096418686
15	Mr. Riyaz kazi	PG Guide	Member	9673002905
16	Ms. Geeta Attkar	PG Guide	Member	9822342320
17	Ms. Urmila Dibkekar	PG Guide	Member	8208661075
18	Ms. suverna satkar	PG Guide	Member	98346388336
19	Ms. Diksha Bhoyar	PG Guide	Member	7218172013
20	Ms. Aditi Janjalwar	PG Guide	Member	9096141696


Mrs. Vidya Dhamdhare
PG Coordinator


Mrs. Poonam Gupta
HoD Comp.


Dr. Tanuja Dhope
Dean R&D


Dr. Vaibhav Hendre
I/ C Director

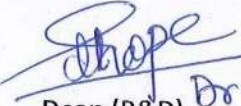
G. H. Raisoni College of Engineering and Management, Wagholi, Pune
(An Autonomous Institute, Affiliated to SPPU)
Department of Mechanical Engineering
M. Tech. (HPE_CADME)
2018-19
Semester III and IV

RRC- M. Tech. (HPE) and (CADME)

List of RRC members

SN	Name	Designation	Post	Mobile No
1	Dr. R. R. Arakerimath	HOD (Mech.)	Chairman	885026109
2	Dr. Tanuja Dhope	Dean (R&D)	Member	8390981913
3	Dr. S. N. Sapali	External expert (HPE) (Academic/COEP, Pune)	Member	9423582575
4	Dr. S. S. Chinchankar	External expert(CADME) (Academic/VIIT, Pune)	Member	8600058235
5	Mr. D. S. Patil	Directors Nominee/PG Coordinator	Member	9850879466
6	Dr. P. J. Bansod	PG Guide (HPE)	Member	7276677075
7	Mr. S. G. Mitakari	PG Guide (HPE)	Member	9561940350
8	Mr. S. H. Gupta	PG Guide (HPE)	Member	8380822479
9	Dr. Sahu	PG Guide (CADME)	Member	9423889616
10	Dr. A. Yadao	PG Guide (CADME)	Member	7558317003
11	Mr. P. J. Ambhore	PG Guide (CADME)	Member	8379916139
12	Mr. Kamal Ukey	PG Guide (CADME)	Member	8055983554


P. G. Coordinator


Dean (R&D) Dr. T. S. Dhope


HOD (Mech)
Dept. of Mechanical Engg.
G. H. Raisoni College of Engineering &
Management, Wagholi, Pune


Director
Director
G.H. Raisoni College of Engineering & Management
(An Autonomous Institute)
Wagholi, Pune


G.H.Raisoni College of Engineering & Management, Wagholi, Pune


Department of Civil Engineering


(Academic Year- 2018-19)


M. Tech RRC Member List

Sr.No	Name	Designation	Post	Contact No.
1	Dr. S.B. Allampallewar	HOD	Chairman	9225750352
2	Dr. Tanuja Dhope	Dean(R & D)	Member	8390981913
3	Mr. Kadam Shivraj A.	External Industry Expert	Member	8308822330
4	Mr. G.V.Joshi	PG Coordinator	Member	9657722996
5	Dr. P.B. Nagarnaik	PG Guide	Member	9881713197
6	Dr. P.V. Durge	PG Guide	Member	9881480961
7	Dr. A.G. Dahake	PG Guide	Member	9423241975
8	Mr. N.C.Dubey	PG Guide	Member	9823330148
9	Mrs. S.D. Kuralkar	PG Guide	Member	9922969180


Prof. G.V. Joshi
PG Coordinator


Dr. S.B. Allampallewar
HOD Civil Engg.


Dr. Tanuja Dhope
Dean R&D


Dr. Vaibhav Hendre
I/C Director



Academic Year:-2018-19


S.Y M.Tech [VLSI& Embedded Systems]

Date : 03/07/2018

M. Tech RRC Member List

Sr.No	Name of Staff	Designation	Post	Contact No.
1.	Dr. VaibhavHendre	I/C Director, HOD ETC	Chairman	9921580670
2.	Dr.Tanuja Dhope	Dean(R&D)	Member	8390981913
3.	Dr. M. S. Sutaone	External Expert, COE, Pune	Member	020-25507003
4.	Dr.Pravin Kshirsagar	PG Coordinator	Member	9764074862
5.	Ms..Rupali Patil	PG Guide	Member	9922411320
6.	Ms.Bharti Patil	PG Guide	Member	8698830077
7.	Ms. Kavita Joshi	PG Guide	Member	9922504024
8.	Ms. Manisha Waje	PG Guide	Member	9881462151
9.	Ms. Munmun Ghoshal	PG Guide	Member	8007178659
10.	Ms. Meeta Bakuli	PG Guide	Member	8668819470
11.	Ms.Vaishali Raut	PG Guide	Member	9881713154


Dr. Pravin Kshirsagar
(PG Coordinator)


Dr. Vaibhav Hendre
HOD (E&TC)


Dr. Tanuja Dhope
(Dean,R&D)


Dr. Vaibhav Hendre
(Incharge Director)

2 .Seminar 1 and Seminar 2

In all PG departments Seminar 1 (Literature Survey) has been completed on 20th July 2018 and Seminar_2 (Topic Finalization) has been completed on 28th July 2018 .

3. Proposal Submission:

A. **Submission of QIP Proposal to BCUD,Pune** : Following proposals have been submitted on line to BCUD:

Sr.No	Name of the Department	Title of Proposal	Funding Amount
1	E &TC and COmputer	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):

Following proposal has been received:

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

The evaluation of RGSTC for the above proposal has been done in the first week of August by experts from COEP

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

The circular and guidelines has been circulated to all teaching faculties and identification of prospective groups has been done.the deadline for the proposal is 10August .

Following Groups have been identified:

Sr.No	Name of Mentor	Student Gruops	Title of Project
1	Dr. Tanuja Satish Dhope	1.Pranab Mistry 2. Pranay Rathi	Smart irrigation system using IoT.

		3. Harshad Shende 4.Vikas Shukla	
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