

Harpur Nagar, Umred Road (Near Bada Tajbagh), Nagpur-24 (Approved by AICTE, New Delhi, Govt. of Maharashtra and affiliated to Rashtrasant Tukdoji Maharaj Nagpur University) Email: principalpbcoe@gmail.com, Website: www.pbcoe.edu.in



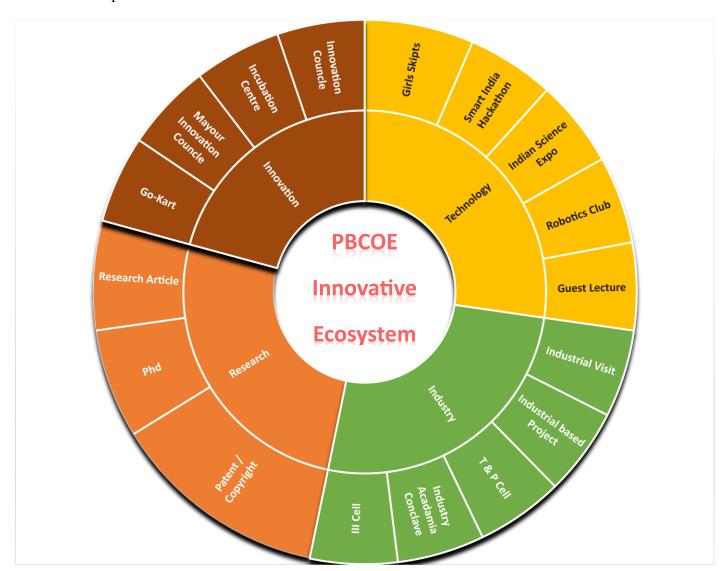
#### NAAC Accredited

# 3.2.1 Institution has created an ecosystem for innovations and has initiatives for creation and transfer of knowledge.

The institute provides conducive environment for innovations through four key constituents.

- ✓ Technology
- ✓ Research
- ✓ Innovation
- **✓** Industry

Each one of the above acts as a feeder to the next and creates a ripple effect on building innovative products.





Harpur Nagar, Umred Road (Near Bada Tajbagh), Nagpur-24 (Approved by AICTE, New Delhi, Govt. of Maharashtra and affiliated to Rashtrasant Tukdoji Maharaj Nagpur University) Email: principalpbcoe@gmail.com, Website: www.pbcoe.edu.in



#### NAAC Accredited

#### **4** Innovation:

- ✓ The institution has established an Innovation Council to promote innovation and entrepreneurship among students. Through workshops, seminars, and mentoring sessions, the council encourages creativity, problem-solving, and the development of innovative projects.
- ✓ The institution has set up an Incubation Centre and an Innovation Club to support and foster innovation and entrepreneurship. The Incubation Centre provides resources, mentorship, and a nurturing environment for startups and innovative ventures.
- ✓ The Innovation Club serves as a collaborative platform for students and faculty to share ideas and work on innovative projects. These initiatives create an ecosystem that promotes the creation and transfer of knowledge within the institution.
- ✓ Additionally, students took part in a Go-Kart competition, where they applied engineering principles and teamwork to create high-performance vehicles, enhancing hands-on learning and problem-solving skills.
- ✓ The institution's involvement in the Mayor Innovation Council of Nagpur in 2019 provided a platform for presenting innovative ideas, addressing local challenges, and fostering knowledge creation within the community.

#### Research:

- ✓ The institution's faculty members actively engage in research and innovation.
- ✓ This reflects the institution's commitment to knowledge creation and the protection of intellectual property.
- ✓ Faculty involvement in the filing and publication of patents and copyrights, it contributes to the transfer of knowledge and recognition of innovative ideas.

#### Industry:

- ✓ The students from the institution have undertaken industrial-based projects in collaboration with industries. These projects offer practical exposure, industry insights, and the opportunity to apply academic knowledge to real-world problems.
- ✓ The various department of PBCOE arrange the Industrial visit for practical Explorer to students.



Harpur Nagar, Umred Road (Near Bada Tajbagh), Nagpur-24 (Approved by AICTE, New Delhi, Govt. of Maharashtra and affiliated to Rashtrasant Tukdoji Maharaj Nagpur University) Email: principalpbcoe@gmail.com, Website: www.pbcoe.edu.in



#### NAAC Accredited

- ✓ In order to bring Industry, Academia & Entrepreneur together on the same platform and to discuss the issue for better understanding, PBCOE, Nagpur is organising a conclave for Academia Industry & Entrepreneur (IAE CONCLAVE 2022)
- ✓ The III Cell & T& P Cell organised various seminar and Workshop of industrial personal for industry ready students.

#### **Technology:**

- ✓ The institution's Robotics Club engages students in the field of robotics and automation through workshops, competitions, and hands-on training sessions. These activities enhance technical skills, foster innovation, and provide practical learning experiences for students to apply theoretical knowledge and develop innovative solutions
- ✓ Students from the institution actively participated in the Indian Science Expo held in Nagpur in 2023. The expo showcased their innovative projects and research outcomes, fostering knowledge transfer among students, faculty, industry professionals, and the wider community.
- ✓ In 2019, the institution's students also joined the Smart India Hackathon, promoting creative thinking, teamwork, and the development of innovative prototypes.

Certified documents from page no. 01 to 191

**Principal** 



Harpur Nagar, Umred Road (Near Bada Tajbagh), Nagpur-24 (Approved by AICTE, New Delhi, Govt. of Maharashtra and affiliated to Rashtrasant Tukdoji Maharaj Nagpur University) Email: principalpbcoe@gmail.com, Website: www.pbcoe.edu.in



#### NAAC Accredited

#### **4** Innovation:

- ✓ The institution has established an Innovation Council to promote innovation and entrepreneurship among students. Through workshops, seminars, and mentoring sessions, the council encourages creativity, problem-solving, and the development of innovative projects.
- ✓ The institution has set up an Incubation Centre and an Innovation Club to support and foster innovation and entrepreneurship. The Incubation Centre provides resources, mentorship, and a nurturing environment for startups and innovative ventures.
- ✓ The Innovation Club serves as a collaborative platform for students and faculty to share ideas and work on innovative projects. These initiatives create an ecosystem that promotes the creation and transfer of knowledge within the institution.
- ✓ Additionally, students took part in a Go-Kart competition, where they applied engineering principles and teamwork to create high-performance vehicles, enhancing hands-on learning and problem-solving skills.
- ✓ The institution's involvement in the Mayor Innovation Council of Nagpur in 2019 provided a platform for presenting innovative ideas, addressing local challenges, and fostering knowledge creation within the community.

## PRIYADARSHINI BHAGWATI COLLEGE OF ENGINEERING

HARPUR NAGAR, UMRED ROAD NAGPUR

Industry Institute Interaction Cell

Date: 19/09/2019

#### Incubation Centre

PBCOE Incubation Centre is on a mission "Innovation by Every ONE" and is working towards empowering talented individuals to convert their Ideas into Reality (Business Ventures). Incubation Centre has been set up with an objective of nurturing the innovative ideas of students to become technology based entrepreneurs. Incubation Centre is a pioneer in designing unique learning pedagogies including 'learning by doing' and 'learning through reflections' for offering capability and skill building training-mentoring to budding entrepreneurs.

Incubation Centre Was inaugurated on 20th august 2019 by Shri. Anil Fekrikar District Representative Tarun Bharat Nagpur, Principal sir Dr.N.K.Choudhari, Dean Academics Dr. (Mrs.) A.R.Chaudhari. on this occasion students Palash Muralkar, Piyush Chiwande, Arun Gedam, Soumy Mishra and Pushkant Hepat share their incubative idea with the guest. Guest Appreciated their effort and give best wishes for future.

Hon'ble Principal Sir of PBCOE Dr.N.K.Choudhari, Dean Academics Dr. (Mrs.) A.R.Chaudhari and all the HOD from various department motivated the students to incubate their idea. Students are enthusiastic to incubate their idea in to the business. Incubation activity was coordinated by Prof. S.P.Daf III Cell Incharge.

Mr. S. P. Daf

III Cell Incharge

Dr. N. K. Choudhary

Principal Principal

Priyadarshini Bhagwati College of Engg Umred Road, Nagnur





(NAAC ACCREDITED)

Harpur Nagar, Umred Road, Nagpur - 440 024 (India) Tel.: +91-712-2710281, Fax: +91-712-2710283 E-mail: principalpbcoe@gmail.com Website: www.pbcoe.edu.in

## Company At Incubation Centre:

### A) AeroFlutter Techlabs

Company Profile: Aeroflutter is a leading drone survey & inspection company in India. Their services include drone survey, mapping, visual and thermal inspection of solar plants, transmission lines & utilities, wind turbines, thermal plants, factories, dams and hydro power projects, telecom towers, coal & mine, construction sites. They also offer surveys for highways, rail and metro projects, oil and gas pipelines and plants, construction sites and general insurance assets.

Website: https://www.aeroflutter.com

Contact Personal:

Ankit Bhagat, Founder, AeroFlutter Techlabs +91 8793188229

Pratit Gendekar, Co-Founder, AeroFlutter Techlabs +91 8087805452

#### B) MiproTecz

Company Profile: Miprotecz is a Information technology company, and they providing IT solution services, our services like digital marketing, website development, app development, cloud services and also provide IT training and internship.

Website: www.miprotecz.com

Contact Personal:

Akshay A. Deotare, Founder, MiproTecz, Nagpur +91 7768005685

Dr. S. P. Daf

Incubation Centre Incharge

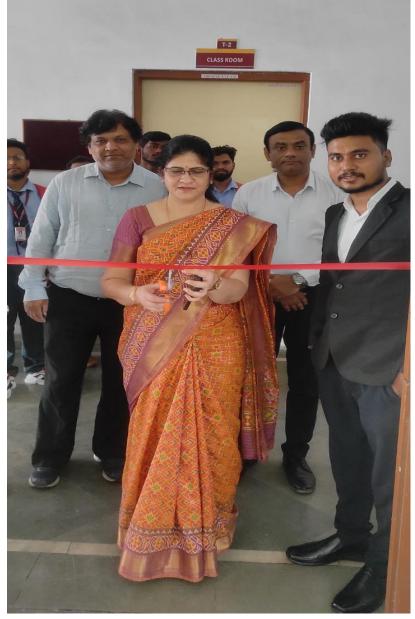
Dr. N. K. Choudhary Principal

riyadarshini Bhagwati College of Engg

Umred Road, Nagpur.

















40, Dhanvantari nagar, Umred Road, Nagpur-440009 www.aeroflutter.com

Phone no.: +918087805452 Email: aeroflutter@gmail.com

Date: 12 12 2022

#### Agreement

This Ag	greement	is ma	nde on this 1.2	<del></del> 0	lay of .\square	ecemb	<b>et</b> 2		between Company
registered at_	under	the	Companies	Act	1956,	having	its	registered	office through
Its Directors	and the		thers AN	WE AN		F			_

Priyadarshini Bhagwati College of Engineering, Nagpur Gradated by RTMNU.

NOW IT IS DULY COMMUNICATED AND HEREBY AGREED BY AND BETWEEN THE PARTIES AS FOLLOWS:

1. Objectives:

PBCOE agrees to provide infrastructure and facility to Audutter Techalas in the PBCOE Campus. The purpose of infrastructure and facility will be to:

- Promote & interact with, and resource technology/expertise from faculty members, research scholars and laboratory infrastructure in the various departments and Incubation centers of the Institute.
- Help in getting other kinds of techno-managerial expertise required that is not available
  within the institute.
- Convert novel technology and business ideas into viable commercial products or services.

#### 2. Rules and Regulations:

- The Resident Company/Start up shall undertake Research & Development, Design/Testing, prototype development from PBCOE premises but shall not carry out warehousing, storage, marketing sales or other commercial routine activity.
- Subleasing or subletting of any kind of the space given by PBCOE is not allowed.
   Non-observance of this rule will result in immediate expulsion.
- If Resident Company/Start up requires more space or has vacant space, a request for additional space/surrender of the space is required to be made to PBCOE in writing.
- The resident company should observe that noise levels are kept at minimum and, no abnormal noise by any machine or by their employees or visitors should be made. Any complaint of high noise level will result in appropriate action by PBCOE.
- All the Resident Company/Start up is required to keep a first aid kit in the space provided to them.
- It is the responsibility of all the Resident Company/Start up and their employees to use the common facilities e.g. common area, fax & other machines etc. with due diligence and care.

#### 3. Facilities and Infrastructure:

That PBCOE will provide facilities to the Resident Company/Start up as per the regulations framed by PBCOE in this regard. The facilities and infrastructure more specifically are given below.

87.79 m2 Office space ----- floor no. 5. - room/lab no. T-04. Square feet 945.

Personal Computer

Internet connection

Furniture. (TABLE, CABINE)

Electricity in single phase maximum of 5 KVA.

Any other facility requested and granted by PBCOE.

PBCOE has the right to inspect and examine the premises allotted to the Resident Company/Start up at any point of time during the tenure period/stay at the PBCOE premises.

When the Resident Company/Start up leaves PBCOE due to any other reason, all the furniture, space and any other facilities provided shall be surrendered to PBCOE in good condition. All costs incurred for such restoration to good condition shall be borne by the resident company.

#### 4. Tenure of Facilities and Infrastructure:

The Resident Company/Start up will be permitted to stay in PBCOE for a period of 12 Months. Further extensions can be granted for 12 Months, at the sole Principal of PBCOE, Nagpur.

The Resident Company/Start up has been using the facilities of PBCOE with effect from 12 1944 2.022 and is carrying out fully fledged activities as a Resident Company/Start up. PBCOE has been extending all the facilities from the said date.

#### 5. Exit:

The Resident Company/Start up will be required to leave the Work space under the following circumstances:

After the completion of the tenure including extended period, if any.

Capital cash flow exceeds Rs 2 crores in the opinion of PBCOE on case-to-case basis.

Number of employees of the Resident Company exceeds 10.

On Violation of Rule and regulation PBCOE has all right to exit the Resident Company/Start up before the completion of period.

PBCOE has all right to exit the Resident Company/Start up before the completion of period.

Notwithstanding anything written elsewhere, PBCOE'S decision in connection with the exit of an resident company shall be final and shall not be disputed by Resident Company/Start up.

#### 6. Mentoring and Advisory Facilities:

Resident Company/Start up is required to have a Faculty mentor from PBCOE or if permitted by PBCOE, primarily for technical issues. The terms and conditions in this regard have to be worked out by the Resident Company/Start up with the faculty concerned and intimated to PBCOE.

In witness whereof parties hereto have signed this Incubation/Start up Agreement on the date and year mentioned herein before.

Fishle.

For & on behalf of

deraffutter

Signature Name

Designation Foundate

Seal

For & on behalf of PBCOE

Signature

Designation Seal

Bhagwati College of Engl

Umied Road, Nagour

For & on behalf of Aerofutter Techlabs
Signature
Name Pratix brendeke Designation Co founder

For & on behalf of PBCOE

Signature Name Dr (mrs) A.R. Chaudhan Designation Dean Academic

Dean Academics Priyadarshini Bhagwati College of Engineering, Nagpur



(	+91 7768005685
(	miprotecz@gmail.com
	Nandanwan Nagpur

#### Agreement

This Ag	greement	is ma	de on this!	3 d	ay of	-eb	2	023 by and b	between
M10	TOXO	P ( 7						- i C	ompany
registered	under	the	Companies	Act	1956,	having	its	registered	office
atNa	gpu	4						t	hrough
at Na GPULL  Its Directors and the promoters			AKSDAY		Α.	Deotaxe			
				ANI	)				

Priyadarshini Bhagwati College of Engineering, Nagpur Gradated by RTMNU.

NOW IT IS DULY COMMUNICATED AND HEREBY AGREED BY AND BETWEEN THE PARTIES AS FOLLOWS:

#### 1. Objectives:

PBCOE agrees to provide infrastructure and facility to MiproTecz Nagpus in the PBCOE Campus. The purpose of infrastructure and facility will be to:

- Promote & interact with, and resource technology/expertise from faculty members, research scholars and laboratory infrastructure in the various departments and Incubation centers of the Institute.
- Help in getting other kinds of techno-managerial expertise required that is not available within the institute.
- Convert novel technology and business ideas into viable commercial products or services.

#### 2. Rules and Regulations:

- The Resident Company/Start up shall undertake Research & Development, Design/Testing, prototype development from PBCOE premises but shall not carry out warehousing, storage, marketing sales or other commercial routine activity.
- Subleasing or subletting of any kind of the space given by PBCOE is not allowed. Non-observance of this rule will result in immediate expulsion.
- If Resident Company/Start up requires more space or has vacant space, a request for additional space/surrender of the space is required to be made to PBCOE in writing.
- The resident company should observe that noise levels are kept at minimum and, no abnormal noise by any machine or by their employees or visitors should be made. Any complaint of high noise level will result in appropriate action by PBCOE.
- All the Resident Company/Start up is required to keep a first aid kit in the space provided to them.
- It is the responsibility of all the Resident Company/Start up and their employees to use the common facilities e.g. common area, fax & other machines etc. with due diligence and care.

#### 3. Facilities and Infrastructure:

That PBCOE will provide facilities to the Resident Company/Start up as per the regulations framed by PBCOE in this regard. The facilities and infrastructure more specifically are given below.

- Office space \$7.74m floor no. 0.3 room/lab no. 7-03. Square feet. 945.
- Personal Computer
- Internet connection
- Furniture. (TABLE, CABINE)
- Electricity in single phase maximum of 5 KVA.

Any other facility requested and granted by PBCOE.

PBCOE has the right to inspect and examine the premises allotted to the Resident Company/Start up at any point of time during the tenure period/stay at the PBCOE premises.

When the Resident Company/Start up leaves PBCOE due to any other reason, all the furniture, space and any other facilities provided shall be surrendered to PBCOE in good condition. All costs incurred for such restoration to good condition shall be borne by the resident company.

4. Tenure of Facilities and Infrastructure:

The Resident Company/Start up will be permitted to stay in PBCOE for a period of 12 Months. Further extensions can be granted for 12 Months, at the sole Principal of PBCOE, Nagpur.

The Resident Company/Start up has been using the facilities of PBCOE with effect from 13/Feb 2023 and is carrying out fully fledged activities as a Resident Company/Start up. PBCOE has been extending all the facilities from the said date.

5. Exit:

The Resident Company/Start up will be required to leave the Work space under the following circumstances:

After the completion of the tenure including extended period, if any.

Capital cash flow exceeds Rs 2 crores in the opinion of PBCOE on case-to-case basis.

Number of employees of the Resident Company exceeds 10.

- On Violation of Rule and regulation PBCOE has all right to exit the Resident Company/Start up before the completion of period.
- PBCOE has all right to exit the Resident Company/Start up before the completion

Notwithstanding anything written elsewhere, PBCOE'S decision in connection with the exit of an resident company shall be final and shall not be disputed by Resident Company/Start up.

6. Mentoring and Advisory Facilities:

Resident Company/Start up is required to have a Faculty mentor from PBCOE or if permitted by PBCOE, primarily for technical issues. The terms and conditions in this regard have to be worked out by the Resident Company/Start up with the faculty concerned and intimated to PBCOE.

In witness whereof parties hereto have signed this Incubation/Start up Agreement on the date and year mentioned herein before.

For & on behalf of

Mipro Tecz Signature

Name AKShay A. Deofare

Designation Founder

Seal

For & on behalf of PBCOE

Signature

Name Dr. N.K. Choudhary Designation Principal

Seal\_\_\_

"riyadarsiyni Bhaqw iii College of Enç Umred water has be

For & on behalf of

Signature

Name: Gajendra Thakke

Designation: Website Developete

For & on behalf of PBCOE

Signature

Name Dr. (Mrs.) A.R. Chaudhan

Designation Dean Academic

Seal

Dean Academics Priyadarshini Bhagwati College of Engineering, Nagpui



Harpur Nagar, Umred Road (Near Bada Tajbagh), Nagpur-24 (Approved by AICTE, New Delhi, Govt. of Maharashtra and affiliated to Rashtrasant Tukdoji Maharaj Nagpur University) Email: principalpbcoe@gmail.com, Website: www.pbcoe.edu.in



#### **NAAC** Accredited

### **Department of Mechanical Engineering**

Academic session 2022-23

### Report of "GKDC Competition"

1. Event Title : GKDC Competition - Coimbatore

2. Event Date : 10/04//2023 - 13/04/2023

3. Event venue : Kari Motor Speedway Chettipalayam Rd, Chettipalayam, Tamil Nadu.

4. Name of Event Coordinator : Dr. Akshay Anjikar

5. Objective : The objective of team Mecheetah 1.0 was to showcase their skills and innovation in designing and building Go-Kart that excelled in various categories at the GKDC competition.

6. Outcome : The team Mecheetah 1.0 secured the Best Skidpad Award and finished in 3rd place overall. The students demonstrated their skills and innovation in designing and building Go-Kart that excelled in various categories. The competition provided a platform for the students to showcase their talent and creativity and gain valuable experience in the field of engineering and automotive design. The outcome of their hard work and dedication was a well-deserved recognition and appreciation from the judges and organizers of the competition.



Dr. Akshay Anjikar

Faculty advisor

Prof.S.M.Pimpalgaonkar

Head, Mechanical

Dr. N. K. Choudhari

Principal



Harpur Nagar, Umred Road (Near Bada Tajbagh), Nagpur-24
(Approved by AICTE, New Delhi, Govt. of Maharashtra
and affiliated to Rashtrasant Tukdoji Maharaj Nagpur University)
Email: principalpbcoe@gmail.com, Website: www.pbcoe.edu.in

NAAC Accredited



#### **Department of Mechanical Engineering**

#### Academic session 2022-23

#### **Executive Summary: -**

The report highlights the success of the team from Priyadarshini Bhagwati College of Engineering in the GKDC competition held in Coimbatore from 10/04/2023 -13/04/2023 The team Mecheetah-1.0 won the Best Skid pad Award and secured 3rd place overall in a competition that involved various challenging events at the Kari Motor Speedway. The team Mecheetah-1.0, consisting of 12 members and led by Dr. Akshay Anjikar as the faculty advisor, demonstrated their skills and innovation in designing and building Go Kart that excelled in various categories. The report emphasizes the college's encouragement of students to participate in extracurricular activities and competitions that provide practical learning experiences and help build their confidence. The success of the team Mecheetah-1.0 in motorsports competitions is a testament to the college's prowess and commitment to developing well-rounded and skilled individuals.

#### Introduction:

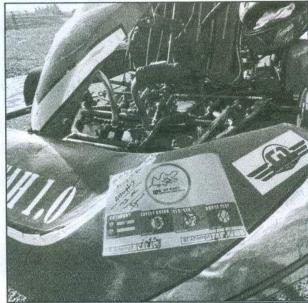
The GKDC competition held in Coimbatore from 10/04/2023 – 13/04/2023 saw the participation of several engineering colleges from across the country, showcasing their skills in designing and building Go Kart. Among them, the team Mecheetah-1.0 from Priyadarshini Bhagwati College of Engineering emerged victorious, securing 3rd place overall and winning the Best Skid pad Award. The competition was held at the Kari Motor Speedway and included challenging events that tested the students' innovation, engineering skills, and teamwork. This report aims to provide an overview of the competition, the team's performance, and the college's commitment to encouraging students to participate in extracurricular activities and gain practical learning experiences.

### eam Achievements at GKDC Competition 2023: -

The team Mecheetah-1.0 from Priyadarshini Bhagwati College of Engineering participated in the GKDC competition held in Coimbatore from 10/04/2023 - 13/04/2023 and secured remarkable achievements. The team Mecheetah-1.0 won the Best Skid pad Award and secured 3rd place overall in the competition. This report aims to provide a detailed description of the team's achievements and the events that took place at the competition.

The GKDC competition was held at the Kari Motor Speedway in Coimbatore and included various challenging events. The team Mecheetah-1.0 from Priyadarshini Bhagwati College of Engineering showcased their skills and innovation in designing and building Go Kart that excelled in various categories. The team Mecheetah-1.0 consisted of 12 members, including Dr. Akshay Anjikar as the faculty advisor and students from the Information Technology department. The team's outstanding performance in the competition is a testament to the college's commitment to providing practical learning experiences to its students.

This report also highlights the comments of Dr. Akshay Anjikar, the faculty advisor of the winning team Mecheetah-1.0, who expressed his pride in the students' achievements and their dedication to motorsports. He emphasized the importance of participating in extracurricular activities and competitions to provide practical learning experiences to the students and help them build their confidence. The achievements of the team Mecheetah-1.0 from Priyadarshini Bhagwati College of Engineering in the GKDC competition demonstrate their prowess in motorsports and showcase the college's dedication to encouraging students to participate in such competitions.





#### Conclusion: -

In conclusion, the team Mecheetah-1.0 from Priyadarshini Bhagwati College of Engineering showcased exceptional skills and innovation in the GKDC competition held in Coimbatore from 10/04/2023 - 13/042023 Their dedication to motorsports and participation in extracurricular activities has paid off, with the team winning the Best Skid pad Award and securing 3rd place overall.

The competition was held at the challenging Kari Motor Speedway in Coimbatore, and the students' Go Kart excelled in various categories. Dr. Akshay Anjikar, the faculty advisor of the winning team Mecheetah-1.0, expressed his pride in the students' achievements and the college's support for practical learning experiences.

Overall, Priyadarshini Bhagwati College of Engineering has demonstrated its prowess in motorsports competitions, winning several awards in the GKDC. The college's encouragement of extracurricular activities and competitions has undoubtedly helped students build their confidence and skills, paving the way for future successes.

### List of participants: -

- 1. Dr. Akshay Anjikar (Faculty Advisor)
- 2. Gaurav Moreshwar Bhoyar (Mechanical)
- 3. Harsh Liladhar Dekate (information technology)
- 4. Nihal Vinod Kukde (Mechanical)
- 5. Krunal Kishor Gongal (information technology)
- 6. Priyanshu Kisanra Palladwar (Mechanical)
- 7. Vruttant Suresh Bhad (information technology)
- 8. Snehil Dhanorkar (Mechanical)
- 9. Ishwar Rajendra Choudhari (Mechanical)
- 10. Piyush Prashant Gondane (Mechanical)
- 11. Ritesh Hemraj Bhalekar (Mechanical)
- Brijesh Liladhar Kanode (Mechanical)
- 13. Nihal Punaram Pise (Mechanical)

Dr. Akshay Anjikar Faculty Advisor Principal
Priyadarshini Bharwar College of Engo



Harpur Nagar, Umred Road (Near Bada Tajbagh), Nagpur-24 (Approved by AICTE, New Delhi, Govt. of Maharashtra and affiliated to Rashtrasant Tukdoji Maharaj Nagpur University) Email: principalpbcoe@gmail.com, Website: www.pbcoe.edu.in NAAC Accredited



## **Industry Institute Interaction Cell**

Academic session 2018-19

#### Report on "Innovation Parv"

1. Event Title

: "Innovation Parv" Hackathon and Startup.

2. Event Date

: 23rd and 24th August 2019

3. Event conduction duration

: 2 Days

4. Event venue

: New Mankapur indoor stadium, Koradi Road, Nagpur,

Maharashtra 440030

5. Event resource person

: This event is organised by - Nagpur Municipal Corporation;

Smt. Nandatai Jichkar, Mayor Nagpur

6. Name of Event Coordinator

: Mr. S.P.Daf , III Cell Incharge, Prof. T.R.Patil

7. Number of students

: 200

8. Objective

:Hackathon is being organized to find solutions for different problem

of city and other Govt. Department.

Startup Fest is being organized to promote and celebrate the

entrepreneurial spirit of Nagpur.

9. Outcome

: In this event Students were present their innovation idea and attain

the panel discussion, Expert lectures on innovation, startup success

story and visited the various stall in the exhibition and gather the

information.

Principal

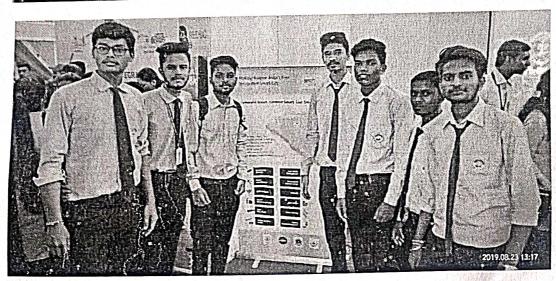
Priyadarshini Bhagwall College of Engg. Umred Road, Nagpur.

III Cell Incharge

## Photograph







## PRIYADARSHINI BHAGWATI COLLEGE OF ENGINEERING HARPUR NAGAR, UMRED ROAD NAGPUR

## **Industry Institute Interaction Cell**

Date:19/09/2019

## Report on Award ceremony of Hackathon.

'Innovation Parv' a unique event that consist of Nagpur Startup Festival, Hackathon. This event is organized by - Nagpur Municipal Corporation. Hackathon, a social coding event that brings interested peoples together to improve upon or build a new idea. Hackathons have proven to be an excellent medium to generate ideas for new tech products and services. Near about more than 100 students from our college are participated in this mega event. Students were present their innovation idea on topic Security, Mobility, Smart City, Energy, Water/Environment, Healthcare, Waste, E-Governance and Agriculture in front of jerry member.

The award ceremony of Hackathon was Inaugurated on 12 September 2019 in kavi suresh bhatt sabhagruh by Hon'ble mayor of Nagpur Smt. Nandatai Jichkar, Event convener Dr. Prashant Kadu, Dr. N.K.Choudhary along with principal of other college. In this event expert lecture on "Patenting" and "MSME Incubation Schemes" also conducted.

Hackathon was organized on dated 23rd August 2019 in mankapur stadium and those result is unveil in award ceremony of Hackathonon. Three students group idea from Priyadarshini Bhagwati College of Engineering were selected for the Incubation. On this occasion our principal sir Dr. N.K.Choudhary was felicitated by Hon'ble mayor of Nagpur Smt. Nandatai Jichkar for their outstanding contribution in the success of program.

Hon'ble Principal Sir of Dr.N.K.Choudhari, Dean Academics Dr. (Mrs.) A.R.Chaudhari and all the HOD from various department congratulated to the winner and appreciated the participated students.

**Ptincipal** 

Priyadarshini Bhagwati College of Engg.

Umred Road Magpur

Prof. S. P. Daf

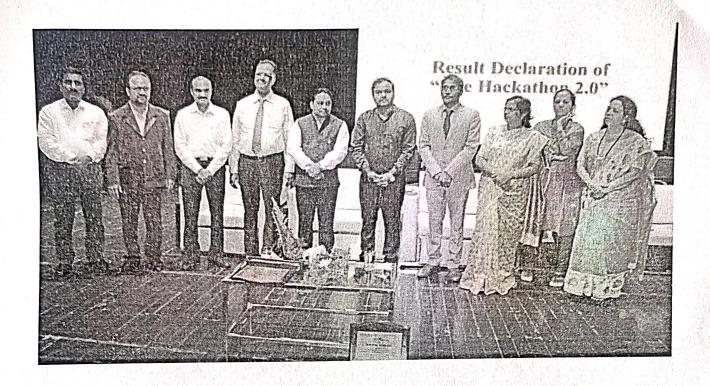
III Cell Incharge

Copy to:

1. Principal, PBCOE.

2.Dean Academics, PBCOE.

## **Event Photograph:**







# Lokmanya Tilak jankalyan Shikshan Sanstha's PRIYADARSHINI BHAGWATI COLLEGE OF ENGINEERING Harpur Nagar Umred Hand (Nagar Barbur Nagar)

Harpur Nagar, Umred Road (Near Rada Tajbagh), Nagpur-24
(Approved by AICTE, New Delhi, Govl. of Maharashtra
and affiliated to Rashtrasant Tukdoji Maharaj Nagpur University)
Email: principalphcoe@gmail.com, Website: www.phcoe.edu.in
NAAC Accredited



# Department of Computer Science and Engineering

Academic session 2022-23



# Report of Seminar on Opportunities in Higher Education after Graduation

1. Event Title

: Seminar on Opportunities in Higher Education after

Graduation

2. Event Date

: 11 April 2023 (Thursday)

3. Event conduction duration: 12.30 PM to 1.00 PM

4. Event venue

: Room No F-4, Dept of CSE, PBCOE, Nagpur.

Event resource person

: Prof Kishor Kolhe, Associate Professor,

MIT World Peace University, Pune.

6. Name of Event Coordinator: Prof D B Khadse

7. Sem/Branch

:VI and VIII SEM B TECH CSE ( 109 students)

8. Objective

: To make students aware about PG education.

9. Outcome

: Students have been explained about various PG courses

available after graduation and specializations which can be

opted.





Prof K N Hande

HoD

Head
Computer Science & Engineering Department
Tryadarshini Bhagwati College of Engineering
Umred Road, Nagpur,



Dr. Mrs A R Chaudhari

**IQAC** Coordinator

**IQAC** Coordinator

Priyadarshini Bhagwati College of Engg.
Umred Road, Nagpur.



Dr. N. K.Choudhari

Principal **Principal** 

rriyadarshini Bhagwati College of Engg Umred Road, Nagpur.





Harpur Nagar, Umred Road (Near Bada Tajbagh), Nagpur-24 (Approved by AICTE, New Delhi, Govt. of Maharashtra and affiliated to Rashtrasant Tukdoji Maharaj Nagpur University) Email: principalpbcoe@gmail.com, Website: www.pbcoe.edu.in

#### NAAC Accredited

#### Research:

- ✓ The institution's faculty members actively engage in research and innovation.
- ✓ This reflects the institution's commitment to knowledge creation and the protection of intellectual property.
- ✓ Faculty involvement in the filing and publication of patents and copyrights, it contributes to the transfer of knowledge and recognition of innovative ideas.

(19) INDIA

(22) Date of filing of Application :03/09/2019 (43) Publication Date : 20/09/2019

## (54) Title of the invention : PROCESS FOR PREPARATION OF LIGNIN BASED HIGH SURFACE AREA ACTIVATED CARBON

(51) International classification	:C02F2101/00	(71)Name of Applicant:
(31) Priority Document No	:NA	1)Dr. Monita A. Bedmohata
(32) Priority Date	:NA	Address of Applicant : Assistant Professor, Department of
(33) Name of priority country	:NA	Applied Chemistry, G. H. Raisoni Academy of Engg. & Tech.,
(86) International Application No	:NA	Nagpur-440028 Maharashtra India
Filing Date	:NA	(72)Name of Inventor:
(87) International Publication No	: NA	1)Dr. Monita A. Bedmohata
(61) Patent of Addition to Application Number	:NA	2)Dr. Mrs. Archana R. Chaudhari
Filing Date	:NA	3)Dr. Shripal P. Singh
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

#### (57) Abstract:

The present invention relates to a process for preparation of lignin based high surface area activated carbon. The object of the proposed invention is to utilize the industrial waste lignin by preparing highly porous activated carbon (AC). Activated carbon with high surface properties is prepared using lignin and pre-carbonized lignin separately by chemical activation using KOH, under different impregnation ratios and different temperatures. Activated carbon with BET surface area of 2634.45 m2/g and pore volume of 1.8051cm3/g is obtained by pre-carbonized lignin/KOH ratio of 1:3 at the activation temperature of 900°C and the activation time of 1hr.Following invention is described in detail with the help of Figure 1 of sheet 1 showing process flow diagram and Figure 2 of sheet 2 showing SEM images of lignin, char and activated carbons.

No. of Pages: 19 No. of Claims: 3





# Extracts from the Register of Copyrights



Dated: 18/11/2021

Registration Number

Name, address and nationality of the applicant

Nature of the applicant's interest in the copyright of the work

Class and description of the work

Title of the work

13.

Language of the work

Name, address and nationality of the author and if the author is deceased, date of his decease

L-109103/2021

EKTA R. RAUT , FIRST YEAR ENGINEERING DEPARTMENT, G H RAISONI COLLEGE OF ENGINEERING, NAGPUR-440016

DR. MONITA A. BEDMOHATA, FIRST YEAR ENGINEERING DEPARTMENT, G H RAISONI INSTITUTE OF ENGINEERING & TECHNOLOGY, NAGPUR-440016

INDIAN

DR. ARCHANA R. CHAUDHARI , FIRST YEAR

ENGINEERING DEPARTMENT, PRIYADARSHINI

BHAGWATI COLLEGE OF ENGINEERING, NAGPUR-440024

INDIAN

**AUTHOR** 

LITERARY/ DRAMATIC WORK

COMPARATIVE STUDY OF ACTIVATED CARBON PREPARED FROM AGRICULTURAL WASTE MATERIALS USING CHEMICAL ADDITIVES

EKTA R. RAUT , FIRST YEAR ENGINEERING DEPARTMENT, G H RAISONI COLLEGE OF ENGINEERING, NAGPUR-440016 INDIAN

DR. MONITA A. BEDMOHATA , FIRST YEAR ENGINEERING DEPARTMENT, G H RAISONI INSTITUTE OF ENGINEERING & TECHNOLOGY, NAGPUR-440016 INDIAN

DR. ARCHANA R. CHAUDHARI , FIRST YEAR ENGINEERING DEPARTMENT, PRIYADARSHINI BHAGWATI COLLEGE OF ENGINEERING, NAGPUR-440024 INDIAN

Whether the work is published or unpublished

Year and country of first publication and name, address and nationality of the publisher

Years and countries of subsequent publications, if any, and names, addresses and nationalities of the publishers 10.

Names, addresses and nationalities of the owners of various rights comprising the copyright in the work and the extent of rights held by each, together with particulars of assignments and licences, if

Names, addresses and nationalities of other persons, if any, authorised to assign or licence of rights comprising the copyright

> c work', the location of the original work, s and nationality of the person in possession ase of an architectural work, the year of ork should also be shown).

If the work is an 'Artistic work' which is used or capable of being used in relation to any goods or services, the application should include a certification from the Registrar of Trade Marks in terms of the provision to Sub-Section (i) of Section 45 of the Copyright Act, 1957.

UNPUBLISHED

N.A.

N.A.

EKTA R. RAUT , FIRST YEAR ENGINEERING DEPARTMENT, G H RAISONI COLLEGE OF ENGINEERING, NAGPUR-440016 INDIAN

DR. MONITA A. BEDMOHATA , FIRST YEAR ENGINEERING DEPARTMENT, G H RAISONI INSTITUTE OF ENGINEERING & TECHNOLOGY, NAGPUR-440016

DR. ARCHANA R. CHAUDHARI , FIRST YEAR
ENGINEERING DEPARTMENT, PRIYADARSHINI
BHAGWATI COLLEGE OF ENGINEERING, NAGPUR-440024 INDIAN

EKTA R. RAUT, FIRST YEAR ENGINEERING DEPARTMENT,

EATA R. KAUT, FIRST YEAR ENGINEERING DEPARTMENT, G H RAISONI COLLEGE OF ENGINEERING, NAGPUR-440016 INDIAN DR. MONITA A. BEDMOHATA, FIRST YEAR ENGINEERING DEPARTMENT, G H RAISONI INSTITUTE OF ENGINEERING & TECHNOLOGY, NAGPUR-440016 INDIAN DR. ABCHANA B. CHAUDIAN DR. CHAU

DR. ARCHANA R CHAUDHARI, FIRST YEAR
ENGINEERING DEPARTMENT, PRIYADARSHINI
BHAGWATI COLLEGE OF ENGINEERING, NAGPUR-440024
INDIAN

N.A.

DEPUTY REGISTRAR OF COPYRIGHTS

If the work is an 'Artistic work', whether it is registered under the Designs Act 2000 if yes give details.

16. If the work is an 'Artistic work', capable of being registered as a design under the Designs Act 2000 whether it has been applied to an article though an industrial process and ,if yes ,the number of times it is reproduced.

17. Remarks, if any

Diary Number : 21427/2021-CO/L

Date of Application : 07/09/2021

Date of Receipt : 07/09/2021





DEPUTY REGISTRAR OF COPYRIGHTS





# Extracts from the Register of Copyrights



Dated: 09/07/2020

Registration Number L-92661/2020

Name, address and nationality of the applicant

DR NITIN KRISHNARAO CHOUDHARI , FLAT NO 301, PLOT NO 131/132, ANOUSHKA RESIDENCY, NEAR POONAM VIHAR - I, SWAVALAMBI NAGAR, NAGPUR -440022

DR MRS ARCHANA RAJEEV CHAUDHARI, F-501, SANCHYANI PRESTIGE APPARTMENT, SWAVALAMBI NAGAR, NAGPUR-440022 INDIAN

Nature of the applicant's interest in the copyright of the work **AUTHOR** 

Class and description of the work LITERARY/ DRAMATIC WORK

ROLE OF INFORMATION AND COMMUNICATION TECHNOLOGY (ICT) IN EDUCATION SYSTEM: OPPORTUNITIES AND CHALLENGES Title of the work

Language of the work **ENGLISH** 

Name, address and nationality of the author and if the author is deceased, date of his decease DR NITIN KRISHNARAO CHOUDHARI , FLAT NO 301, PLOT NO 131/132, ANOUSHKA RESIDENCY, NEAR POONAM VIHAR - I, SWAVALAMBI NAGAR, NAGPUR -440022

DR MRS ARCHANA RAJEEV CHAUDHARI, F-501, SANCHYANI PRESTIGE APPARTMENT, SWAVALAMBI NAGAR, NAGPUR-440022 INDIAN

Whether the work is published or unpublished UNPUBLISHED

Year and country of first publication and name, address and nationality of the publisher N.A.

Years and countries of subsequent publications, if any, and names, addresses and nationalities of the publishers N.A.

DR NITIN KRISHNARAO CHOUDHARI , FLAT NO 301, PLOT NO 131/132, ANOUSHKA RESIDENCY, NEAR POONAM VIHAR - I, SWAVALAMBI NAGAR, NAGPUR -440022 INDIAN DR MRS ARCHANA RAJEEV CHAUDHARI , F-501, SANCHYANI PRESTIGE APPARTMENT, SWAVALAMBI NAGAR, NAGPUR-440022 INDIAN Names, addresses and nationalities of the owners of various rights comprising the copyright in the work and the extent of rights held by each, together with particulars of assignments and licences, if any

12. Names, addresses and nationalities of other persons, if any N.A.

authorised to assign or licence of rights comprising the copyright If the work is an 'Artistic work', the location of the original work, including name, address and nationality of the person in possession of the work. (In the case of an architectural work, the year of N.A.

completion of the work should also be shown). If the work is an 'Artistic work' which is used or capable of being used in relation to any goods or services, the application should include a certification from the Registrar of Trade Marks in terms of N.A. the provision to Sub-Section (i) of Section 45 of the Copyright Act, 1957.

N.A.

If the work is an 'Artistic work', whether it is registered under the Designo '  $^{200}$ 0 if yes give details.

N.A

stic work', capable of being registered as a ns Act 2000.whether it has been applied to an rial process and ,if yes ,the number of times

7389/2020-CO/L 05/06/2020

Date of Receipt: 05/06/2020

17.

DEPUTY REGISTRAR OF COPYRIGHTS



Office of the Controller General of Patents, Designs & Trade Marks Department of Industrial Policy & Promotion, Ministry of Commerce & Industry, Government of India



Application Details						
APPLICATION NUMBER	202241012028					
APPLICATION TYPE	ORDINARY APPLICATION					
DATE OF FILING	06/03/2022					
APPLICANT NAME	<ol> <li>Mrs. G Mehershilpa</li> <li>Dr. Muniyandy Elangovan</li> <li>Prof. Akshay Anjikar</li> <li>Dr. Bhargav Prajwal Pathri</li> <li>Mr. G.Venkat Ramana</li> <li>Mr. Alok Sharma</li> <li>Mr. Dilip Kumar Bagal</li> <li>Dr. Boda Surya Venkata Ramarao</li> </ol>					
TITLE OF INVENTION	Mobile robot vehicle with center of gravity chassis					
FIELD OF INVENTION	PHYSICS					
E-MAIL (As Per Record)	mail2patentipr@gmail.com					
ADDITIONAL-EMAIL (As Per Record)						
E-MAIL (UPDATED Online)						
PRIORITY DATE						
REQUEST FOR EXAMINATION DATE						
PUBLICATION DATE (U/S 11A)	18/03/2022					

Application Status						
APPLICATION STATUS	Awai	ting Request	for Examina	ation		
					View Documents	
Filed	Published	RQ Filed	Under	Examination	Disposed	

2/17/23, 2:23 PM PATENT eFiling

Welcome Kalaimathi

Sign out

**Controller General of Patents, Designs & Trade Marks** 





Docket No 17812 Date/Time 2023/02/17 14:22:29

To Userld: VIP.kalai

Kalaimathi

6/1, vadasithur post, kinathukadavu, Coimbatore - 641202

#### **CBR Detail:**

Sr. No.	Ref. No./Application No.	App. Number	Amount Paid	C.B.R. No.	Form Name	Remarks
1	202321010736	TEMP/E- 1/12572/2023-MUM	1600	10901	FORM 1	Camera Based Manned Underwater Robot for Ship Propeller Monitoring and Maintenance
1	E-12/550/2023/MUM	202321010736	2500	10901	FORM 9	

I	N-0001101290	Online Bank Transfer	1702230018018	4100.00	1475001020000001
7	FransactionID	Payment Mode	Challan Identification Number	Amount Paid	Head of A/C No

Total Amount : ₹ 4100.00

Amount in Words: Rupees Four Thousand One Hundred Only

Received from Kalaimathi the sum of ₹ 4100.00 on account of Payment of fee for above mentioned Application/Forms.

\* This is a computer generated receipt, hecnce no signature required.

Print

Home

About Us

Contact Us

FORM 1				(FOR	OFFICE USE ONLY)
THE PATEN	TS ACT 1970 (39	of 1970)			
and THE PA	TENTS RULES, 20	03			
	ON FOR GRANT O				
(See section	7, 54 and 135 an	d sub-rule (1)			
			Application		
			Filing date:	,	
			Amount of	Feepaid:	
			CBR No:		
			Signature:		
	NT'S REFERENCE	•			
IDENTIFICA	ATION NO. (AS AL	LOTTED BY			
OFFICE)					
2. TYPE OF	APPLICATION [P	lease tick (✓	) at the app	ropriate cat	egory]
Ordinary (✓	<u> </u>	Convention	()	PCT-NP()	
Divisional	Patent of	Divisional	Patent of	Divisional	Patent of Addition ( )
()	Addition ( )	()	Addition ( )	()	
3A. APPLIC	CANT(S)				
Name in	Full	Nationality	Country of	Address of	f the Applicant
			Residence	Address	Assistant Professor
				Address	Department of Mechanical Engineering,
1. <b>Dr</b> .	Akshay Dilip	Indian	India		Priyadarshini Bhagwati College of
	Anjikar				Engineering, Near Bada Tajbag, Harpur
					Nagar, Nagpur – 440009
				E-mail id	Padhu003@gmail.com
				Address	Associate Professor &HOD,
2. Dr	. SK. Yakoob	T 11	T 11		Department of CSE
		Indian	India		Sai Spurthi Institute of Technology B.Gangaram, Sathupally, Khammam
					B. Gangaram, Sautupany, Khanimam
				E-mail id	yakoobcs2004@gmail.com
				Address	Associate Professor & HOD
3. Dr. T	C. Vijaya Kumar	Indian	India		Department of Mechanical Engineering
					K L Deemed to be University Greenfields, Vaddeswaram
			1	i	, , , , , , , , , , , , , , , , , ,

				Andhra Pradesh – 522302
			E-mail id	Vijay_mech@kluniversity.in
4. Dr. Balkeshwar Singh	Indian	India	Address	Professor, Mechanical Design & Manufacturing Engineering, Adama Science and Technology University, Kebele-14, Adama City, 1888, Ethiopia
			E-mail id	balkeshwar71@rediffmail.com
5. Dr.Velumani P.S	Indian	India	Address	Professor Department of Computer Science & Electronics, University of Science and Technology Meghalaya Ri-Bhoi, Techno City, Killing Road, Baridua, Meghalaya 793101
			E-mail id	drpsvelumani@gmail.com
6. Mrs. R. Kalaiselvi	Indian	India	Address	Assistant Professor, Department of Computer Science Engineering, Arasu Engineering College, Chennai Main Road, Kumbakonam – 612501
			E-mail id	kalaiprathi85@gmail.com
7. Mr. M.Anandakumar	Indian	India	Address	Assistant Professor, Department of Computer Science Engineering, Arasu Engineering College, Chennai Main Road, Kumbakonam – 612501
			E-mail id	anandlogo@gmail.com
8. Mr. P. A. Prassath	Indian	India	Address	Assistant Professor, Department of Electronics and Communication Engineering, Arjun College of Technology, Thamaraikulam, Coimbatore-Pollachi Highway, Coimbatore, Tamilnadu – 642 120
			E-mail id	prassathanand@gmail.com
9. Prof. B.Rajakumar	Indian	India	Address	Senior Assistant Professor, Institute of Computer Science Engineering, Saveetha School of Engineering,

							Saveetha Institute of Medical and Technical Sciences, Chennai, Tamil Nadu, India		
					E-mail	id	Mailbrk75@gmail.com		
10	Dr. Surrya Pr	rakash			Addre	ess	Associate Professor		
	Dilli Bab		Indi	ia			Department of Mechanical Engineering		
							Vel Tech Rangarajan Dr. Sagunthala R&D		
							Institute of Science and Technology,		
							Chennai, Tamil Nadu		
					E-mai		dsurryaprakash@gmail.com		
3B. CATE	GORY OF APP	LICANT [Please	e tick (🗸)	at the	appro	priate	category]		
Natu	ral Person (✓)	Oth	er than I	Natural	Persor	1			
		Sma	all Entity	()	Star	tup ()	Others ( )		
4. INV	ENTOR(S) [Plea	ase tick (√) at	the appr	opriate	categ	ory]			
					1				
	ll the inven		5 (✓)			N	o ()		
same a	s the applicant	:(s)							
named	above?								
5. TITLE O	F THE INVENT	ION:							
"CAMER	A BASED MA	ANNED UNDE	ERWATE	ER ROB	OT FO	OR SH	IIP PROPELLER MONITORING AND		
MAINTE	NANCE"								
6 AUT	HORISED REGI	STERED PATEN	IT	INI/DA N	l a				
AGEN1		STERED I ATER	••	IN/PA No.					
AGEN	(3)			Name					
				Mobile No.					
				Name	Name V		aagai IP		
7. ADDI	RESS FOR SERV	ICE OF APPLIC	ANT IN	Postal /	\ddroc	· · · · · · · · · · · ·	"Vaagai IP, Vadasithur, Kinathukadavu (T.K),		
INDIA				r Ostai /	-dui es		pimbatore (DT) – 641202, Tamilnadu, India,		
				State			nilnadu		
				Countr	У	Indi	ia		
				Pin Coc	le	641	202		
				Mobile	}	934	9345559140		
E-					id	vaa	agaiip@gmail.com		
				•		•			
						ICATIO	ON FILED IN CONVENTION		
	l I	ARS OF CONVE							
Country	Application	Filing date	Name o			of the	<b>'</b>		
	Number		Applica	nt	Inver	ntion	convention country)		

	<del>_</del>							
9. IN CASE OF PCT NATIONAL PHASE APPLICATION, PARTICULARS OF INTERNATIONAL APPLICATION FILED UNDER PATENT CO-OPERATION TREATY (PCT)								
International application number International filing date								
10. IN CASE OF DIVISIONAL APPLICATION ORIGINAL (FIRST) APPLICATION	10. IN CASE OF DIVISIONAL APPLICATION FILED UNDER SECTION 16, PARTICULARS OF ORIGINAL (FIRST) APPLICATION							
Original (first) application No.	Date of filing of original (first) application							
11. IN CASE OF PATENT OF ADDITION FILED UNDER SECTION 54, PARTICULARS OF MAIN APPLICATION OR PATENT								
Main application/patent No.	Date of filing of main application							
12. DECLARATIONS								

#### (i) Declaration by the inventor(s)

(In case the applicant is an assignee: the inventor(s) may sign herein below or the applicant may upload the assignment or enclose the assignment with this application for patent or send the assignment by post/electronic transmission duly authenticated within the prescribed period).

I/We, the above named inventor(s) is/are the true & first inventor(s) for this Invention and declare that the applicant(s) herein is/are my/our assignee or legal representative.

(a) Signature:

(b) Name: Dr. Akshay Dilip Anjikar

(a) Signature:

(b) Name: Dr. SK. Yakoob

(a) Signature:

(b) Name:Dr. T. Vijaya Kumar

(a) Signature: (b) Name: Dr. Balkeshwar Singh
(a) Signature: (b) Name: Dr.Velumani P.S
(a) Signature: (b) Name: Mrs. R. Kalaiselvi
(a) Signature: (b) Name: Mr. M.Anandakumar
(a) Signature: (b) Name: Mr. P. A. Prassath
(a) Signature: (b) Name: Prof. B.Rajakumar
(a) Signature: 987 - properties (b) Name: Dr. Surrya Prakash Dilli Babu

# (ii) Declaration by the applicant(s) in the convention country

(In case the applicant in India is different than the applicant in the convention country: the applicant in the convention country may sign herein below or applicant in India may upload the assignment from the applicant in the convention country or enclose the said assignment with this application for patent or send the assignment by post/electronic transmission duly authenticated within the prescribed period)

I/We, the applicant(s) in the convention country declare that the applicant(s) herein is/are my/our assignee or legal representative.

# (i) Declaration by the applicant(s)

I/We the applicant(s) hereby declare(s) that: -

- (a) ✓ I am/ We are in possession of the above-mentioned invention.
- (b) ✓ The provisional/complete specification relating to the invention is filed with this application.
- (c) ✓ The invention as disclosed in the specification uses the biological material from India and the necessary permission from the competent authority shall be submitted by me/us before the grant of patent to me/us.
- (d) ✓ There is no lawful ground of objection(s) to the grant of the Patent to me/us.
- (e) ✓ I am/we are the true & first inventor(s).
- (f) I am/we are the assignee or legal representative of true & first inventor(s).
- (g) The application or each of the applications, particulars of which are given in Paragraph-8, was the first application in convention country/countries in respect of my/our invention(s).
- (h) I/We claim the priority from the above-mentioned application(s) filed in convention country/countries and state that no application for protection in respect of the invention had been made in a convention country before that date by me/us or by any person from which I/We derive the title.
- (i) My/our application in India is based on international application under Patent Cooperation Treaty (PCT) as mentioned in Paragraph-9.
- (j) The application is divided out of my /our application particulars of which is given in Paragraph-10 and pray that this application may be treated as deemed to have been filed on DD/MM/YYYY

under section 16 of the Act.

(k) The said invention is an improvement in or modification of the invention particulars of which are given in Paragraph-11.

### 13. FOLLOWING ARE THE ATTACHMENTS WITH THE APPLICATION

(a) ✓ Form 2

` '				
Item	Details	Fee	Remarks	
Complete/	No. of pages: 4			
provisional				
specification)#				
No. of Claim(s)	No. of claims: 5 and			
	No. of pages 1			
Abstract	No. of pages 1			
No. of Drawing(s)	No. of drawings: 1			
	and			
	No. of pages: 1			

- (a) In case of a complete specification, if the applicant desires to adopt the drawings filed with his provisional specification as the drawings or part of the drawings for the complete specification under rule 13(4), the number of such pages filed with the provisional specification are required to be mentioned here.
- (b) Complete specification (in conformation with the international application)/as amended before the International Preliminary Examination Authority (IPEA), as applicable (2 copies).
- (c) Sequence listing in electronic form
- (d) Drawings (in conformation with the international application)/as amended before the International Preliminary Examination Authority (IPEA), as applicable (2 copies).
- (e) Priority document(s) or a request to retrieve the priority document(s) from DAS (Digital Access Service) if the applicant had already requested the office of first filing to make the priority document(s) available to DAS.
- (f) Translation of priority document/Specification/International Search Report/International Preliminary Report on Patentability.
- (g) Statement and Undertaking on Form 3
- (h) ✓ Declaration of Inventorship on Form 5
  - (i) Power of Authority

I/We hereby declare that to the best of my/our knowledge, information and belief the fact

and matters slated herein are correct and I/We request that a patent may be granted to me/us for the said invention.

Dated this 17th day of February, 2023

(a) Signature:

(b) Name: Dr. Akshay Dilip Anjikar

(a) Signature:

(b) Name: Dr. SK. Yakoob

(a) Signature:

(b) Name:Dr. T. Vijaya Kumar

(a) Signature:

(b) Name: Dr. Balkeshwar Singh

(a) Signature:

(b) Name: Dr. Velumani P.S

(a) Signature:

(b) Name: Mrs. R. Kalaiselvi

(a) Signature: (b) Name: Mr. M.Anandakumar
(a) Signature: (b) Name: Mr. P. A. Prassath
(a) Signature: (b) Name: Prof. B.Rajakumar
(a) Signature: 987 - 1000 - 10
To, The Controller of Patents The Patent Office, at
Note: -  * Repeat boxes in case of more than one entry.  * To be signed by the applicant(s) or by authorized registered patent agent otherwise where mentioned.

\* Tick ( $\checkmark$ )/cross (x) whichever is applicable/not applicable in declaration in paragraph-12.

- \* Name of the inventor and applicant should be given in full, family name in the beginning.
- \* Strike out the portion which is/are not applicable.

For fee: See First Schedule";

# FORM 2

THE PATENTS ACT, 1970

(39 of 1970)

&

THE PATENTS RULES, 2003

**COMPLETE SPECIFICATION** 

(See sections 10; rule 13)

# TITLE OF THE INVENTION

CAMERA BASED MANNED UNDERWATER ROBOT FOR SHIP PROPELLER MONITORING AND MAINTENANCE

# **APPLICANT**

NAME: DR. AKSHAY DILIP ANJIKAR, DR. SK. YAKOOB, DR. T. VIJAYA KUMAR, DR. BALKESHWAR SINGH, DR. VELUMANI P.S, MRS. R. KALAISELVI, MR. M.ANANDAKUMAR, MR. P. A. PRASSATH, PROF. B.RAJAKUMAR, DR. SURRYA PRAKASH DILLI BABU

NATIONALITY: INDIAN

# CAMERA BASED MANNED UNDERWATER ROBOT FOR SHIP PROPELLER MONITORING AND MAINTENANCE

# **BACKGROUND**

# Technical Field

[0001] The embodiments herein generally relate to a camera based manned underwater robot for ship propeller monitoring and maintenance.

# Description of the Related Art

[0002] There is no underwater ship propeller imaging and monitoring robots with an underwater camera mounted as presented in this patent. The objective of the invention is to employ an underwater robot mounted with the camera to monitor the blades of the ship propeller. Ensemble Artificial Intelligence is employed for assessing damage or a maintenance requirement in the ship propeller.

### **SUMMARY**

[0003] In view of the foregoing, an embodiment herein provides a camera based manned underwater robot for ship propeller monitoring and maintenance. The propeller of the ship has to be clean without layers of scales formed on it for the sake of smooth and efficient propulsion of the ship. An underwater robot mounted with a camera can navigate and capture images of a ship propeller to check for damage or scaling. The robot is capable of moving in any direction employing two pairs of rotary propellers. A pair of vertical propellers enables the vertical movement of the robot, that is, movement in an upward and downward direction. A pair of horizontal propellers enables both forward motion and turning. Differential driving of the horizontal propellers enables turning. If the right propeller rotates, then the robot turns left. If the left propeller rotates, the robot turns right. Stable, quiet, and efficient propulsion methods are essential for underwater robots to complete their tasks in a complex marine environment. Propulsion mode is the key factor to determine the underwater maneuverability, endurance, and concealment of the robot. Rotor and bionic propulsion are two mainstream propulsion modes.

[0004] These and other aspects of the embodiments herein will be better appreciated and understood when considered in conjunction with the following description and the accompanying drawings. It should be understood, however, that the following descriptions, while indicating preferred embodiments and numerous specific details thereof, are given by way of illustration and not of limitation. Many changes and modifications may be made within the scope of the embodiments herein without departing from the spirit thereof, and the embodiments herein include all such modifications.

### BRIEF DESCRIPTION OF THE DRAWINGS

[0005] The embodiments herein will be better understood from the following detailed description with reference to the drawings, in which:

[0006] Fig. 1 illustrates a camera based manned underwater robot for ship propeller monitoring and maintenance according to certain embodiments herein; and

### DETAILED DESCRIPTION OF PREFERRED EMBODIMENTS

[0007] The embodiments herein and the various features and advantageous details thereof are explained more fully with reference to the non-limiting embodiments that are illustrated in the accompanying drawings and detailed in the following description. Descriptions of well-known components and processing techniques are omitted so as to not unnecessarily obscure the embodiments herein. The examples used herein are intended merely to facilitate an understanding of ways in which the embodiments herein may be practiced and to further enable those of skill in the art to practice the embodiments herein. Accordingly, the examples should not be construed as limiting the scope of the embodiments herein.

[0008] Fig. 1 illustrates a camera based manned underwater robot for ship propeller monitoring and maintenance according to certain embodiments herein. The body of the underwater robot has a camera mounted on top of it. A computing unit with an underwater IoT module is fixed inside the underwater robot. The horizontal rotary propellers and the vertical rotary propellers are responsible for the horizontal and vertical movements of the robot. The propeller of the ship has to be clean without layers of scales formed on it for the sake of smooth and efficient propulsion of the ship. An underwater robot mounted with a camera can navigate and capture images of a ship propeller to check for damage or scaling. The robot is capable of moving in any direction employing two pairs of rotary propellers. A pair of vertical propellers

enables the vertical movement of the robot, that is, movement in an upward and downward direction. A pair of horizontal propellers enables both forward motion and turning. Differential driving of the horizontal propellers enables turning. If the right propeller rotates, then the robot turns left. If the left propeller rotates, the robot turns right. Stable, quiet, and efficient propulsion methods are essential for underwater robots to complete their tasks in a complex marine environment. Propulsion mode is the key factor to determine the underwater maneuverability, endurance, and concealment of the robot. Rotor and bionic propulsion are two mainstream propulsion modes.

# **CLAIMS**

T /	** 7		$\alpha$	
1/	w	ρ	(ˈla	im:
1/	* *	$\sim$	CIU	11111.

1 1. A method of camera based manned underwater robot for ship propeller monitoring and 2 maintenance, wherein the method comprises: 3 an invention to employ an underwater robot mounted with the camera to monitor the blades of the ship propeller. Ensemble Artificial Intelligence is employed for assessing damage 4 5 or a maintenance requirement in the ship propeller; 6 the employment of IoT based computing unit for image processing-based ship propeller 7 monitoring; 8 the employment of a camera for image and video data capturing; 9 the employment of rear propellers in the rover to move forward and turn sideways; 10 the employment of a pair of two sets of bottom propellers to enable roll axis rotation. Dated 17<sup>th</sup> day of February 2023

Signature

### **ABSTRACT**

# CAMERA BASED MANNED UNDERWATER ROBOT FOR SHIP PROPELLER MONITORING AND MAINTENANCE

The propeller of the ship has to be clean without layers of scales formed on it for the sake of smooth and efficient propulsion of the ship. An underwater robot mounted with a camera can navigate and capture images of a ship propeller to check for damage or scaling. The robot is capable of moving in any direction employing two pairs of rotary propellers. A pair of vertical propellers enables the vertical movement of the robot, that is, movement in an upward and downward direction. A pair of horizontal propellers enables both forward motion and turning. Differential driving of the horizontal propellers enables turning. If the right propeller rotates, then the robot turns left. If the left propeller rotates, the robot turns right. Stable, quiet, and efficient propulsion methods are essential for underwater robots to complete their tasks in a complex marine environment. Propulsion mode is the key factor to determine the underwater maneuverability, endurance, and concealment of the robot. Rotor and bionic propulsion are two mainstream propulsion modes.

APPLICANT: DR. AKSHAY DILIP ANJIKAR, DR. SK. YAKOOB, DR. T. VIJAYA KUMAR, DR. BALKESHWAR SINGH, DR. VELUMANI P.S, MRS. R. KALAISELVI, MR. M.ANANDAKUMAR, MR. P. A. PRASSATH, PROF. B.RAJAKUMAR, DR. SURRYA PRAKASH DILLI BABU

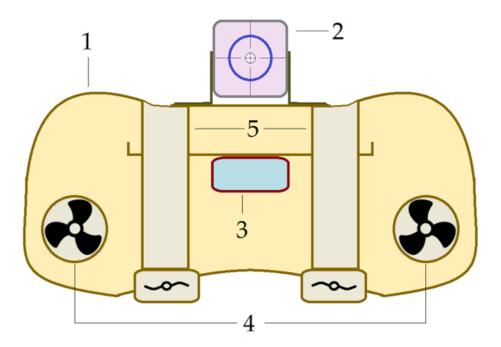


FIG. 1

# FORM 3

# THE PATENTS ACT, 1970

(39 of 1970)

# STATEMENT AND UNDERTAKING UNDER SECTION 8

(See section 8; rule 12)

I/We, Dr. Akshay Dilip Anjikar, Dr. SK. Yakoob, Dr. T. Vijaya Kumar, Dr. Balkeshwar Singh, Dr. Velumani P.S, Mrs. R. Kalaiselvi, Mr. M.Anandakumar, Mr. P. A. Prassath, Prof. B.Rajakumar, Dr. Surrya Prakash Dilli Babu, residing at Assistant Professor Department of Mechanical Engineering, Priyadarshini Bhagwati College of Engineering, Near Bada Tajbag, Harpur Nagar, Nagpur – 440009.

That we who have made this application No ---- dated ------ jointly with the Indian Patent Office made for the same invention application for patent in the other countries, the particulars of which are given below:

Name of the Country.	Date of Application	Application No	Status of the application	Date of publication	Date of grant
_	_	_	_		

That we undertake that up to the date of acceptance of the complete specification by the Controller, we would keep him informed in writing the details regarding corresponding applications for patents filed outside India within six months from the date of filing of such application.

Dated this 17<sup>th</sup> February of 2023

(a) Signature:

(b) Name: Dr. Akshay Dilip Anjikar

(a) Signature:

(b) Name: Dr. SK. Yakoob

(a) Signature:



(b) Name:Dr. T. Vijaya Kumar

(a) Signature:

(b) Name: Dr. Balkeshwar Singh

(a) Signature:

(b) Name: Dr. Velumani P.S

(a) Signature:

(b) Name: Mrs. R. Kalaiselvi



(a) Signature:

(b) Name: Mr. M.Anandakumar

(a) Signature:

(b) Name: Mr. P. A. Prassath

(a) Signature:

(b) Name: Prof. B.Rajakumar

(a) Signature: 987 - pmm

(b) Name: Dr. Surrya Prakash Dilli Babu

To The Controller of Patents, The Patent Office, At Chennai

### FORM 5

# THE PATENTS ACT, 1970 (39 of 1970) DECLARATION AS TO INVENTORSHIP [See section 10(6); rule 13(6)]

I/We, Dr. Akshay Dilip Anjikar, Dr. SK. Yakoob, Dr. T. Vijaya Kumar, Dr. Balkeshwar Singh, Dr. Velumani P.S, Mrs. R. Kalaiselvi, Mr. M.Anandakumar, Mr. P. A. Prassath, Prof. B.Rajakumar, Dr. Surrya Prakash Dilli Babu, residing at Assistant Professor Department of Mechanical Engineering, Priyadarshini Bhagwati College of Engineering, Near Bada Tajbag, Harpur Nagar, Nagpur – 440009

India of Indian National and do hereby declare;

We are the true and first inventors of the invention disclosed in the Complete Specification filed in pursuance of our application titled "Camera Based Manned Underwater Robot for Ship Propeller Monitoring and Maintenance"

Dated this 17<sup>th</sup> February of 2023

(a) Signature:

(b) Name: Dr. Akshay Dilip Anjikar

(a) Signature:

(b) Name: Dr. SK. Yakoob

(a) Signature:

(b) Name:Dr. T. Vijaya Kumar

(a) Signature:

(b) Name: Dr. Balkeshwar Singh

(a) Signature:

(b) Name: Dr. Velumani P.S

(a) Signature:

(b) Name: Mrs. R. Kalaiselvi

(a) Signature:

(b) Name: Mr. M.Anandakumar

(a) Signature:

(b) Name: Mr. P. A. Prassath

(a) Signature:

(b) Name: Prof. B.Rajakumar

(a) Signature: 987 - pmm

(b) Name: Dr. Surrya Prakash Dilli Babu

To The Controller of Patents, The Patent Office, At Chennai

# FORM 9 THE PATENTS ACT, 1970 (39 of 1970)

&

# The Patents Rules, 2003 REQUEST FOR PUBLICATION

[See section 11A (2); rule 24A]

Name, address and nationality of the applicant(s).

I/ We, DR. AKSHAY DILIP ANJIKAR, DR. SK. YAKOOB, DR. T. VIJAYA KUMAR, DR. BALKESHWAR SINGH, DR. VELUMANI P.S, MRS. R. KALAISELVI, MR. M.ANANDAKUMAR, MR. P. A. PRASSATH, PROF. B.RAJAKUMAR, DR. SURRYA PRAKASH DILLI BABU, residing at Assistant Professor Department of Mechanical Engineering, Priyadarshini Bhagwati College of Engineering, Near Bada Tajbag, Harpur Nagar, Nagpur – 440009

### **Indian National**

2 by his authorized registered Patent application patent agent.

To be signed by the applicant or hereby request for early publication of my/our No..... ..... under section 11A (2) of the Act.

Name of the natural person who 3 has signed.

Dated this 17<sup>th</sup> day of February 2023

(a) Signature:

(b) Name: Dr. Akshay Dilip Anjikar



(b) Name: Dr. SK. Yakoob



(b) Name:Dr. T. Vijaya Kumar

(a) Signature:

(b) Name: Dr. Balkeshwar Singh

(a) Signature:

(b) Name: Dr. Velumani P.S

(a) Signature:

(b) Name: Mrs. R. Kalaiselvi

R. Dehre

(a) Signature:

(b) Name: Mr. M.Anandakumar

(a) Signature:

(b) Name: Mr. P. A. Prassath

(a) Signature:

(b) Name: Prof. B.Rajakumar

(a) Signature: 987 - pmm

(b) Name: Dr. Surrya Prakash Dilli Babu

To The Controller of Patents, The Patent Office, At Chennai

Note: - For fee: - See First Schedule.

Design Number	346225-001	
Class	07-02	
Rajesh Asrani 19/277, Bhaveshwar Villa, Sion (E), Mumbai-400022, India.		
<b>Date of Registration</b> 13/07/2021		
Title	CONTAINER	

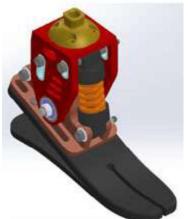


# **Priority NA**

Design Number	359652-001
Class	24-03

1.Dr. T. A. Sivakumar Assistant Professor, Department of Electrical and Electronics Engineering, Faculty of Engineering and Technology, Villa College, Radhebai Hinhun, Male', 20373, Maldives 2. Akshay Dilip Anjikar Assistant Professor, Department of Mechanical Engineering, Priyadarshini Bhagwati College of Engineering, Nagpur, Maharashtra, 440024, INDIA 3. Dr. Sayed Sayeed Ahmad Associate Professor, College of Engineering and Computing, Al Ghurair University, Dubai, 37374, UAE 4. Dr. Rashmi Rani Assistant Professor, College of Engineering and Computing, Al Ghurair University, Dubai, 37374, UAE, et al.

Date of Registration	02/03/2022		
Title	Prosthetic Aided Foot Device		
Priority NA			
Design Number	359751-001		
Class	12-11		
KWH MOTORS PRIVATE LIMITED 6/5, 1st Floor, 6th Cross Rd, S.S.I. Area 5th Block Rajajinagar, Bangalore-560010, Karnataka, India			
Date of Registration	03/03/2022		
Title	FRONT MUDGUARD		
Priority NA			







# **Canadian Intellectual Property Office**

Place du Portage I 50 Victoria Street Gatineau, Qc K1A 0C9 Canada

# Filing submission receipt

# **Registration number**

1192614

# **Title**

Next Generation Proton Exchange Membrane by Fuel Cells Design

# Category(ies)

Literary

# **Publication**

Work is unpublished

#### **Owner**

Anjikar, Dr. Akshay
Assistant Professor, Department of Mechanical
Engineering,
Priyadarshini Bhagwati College of Engineering,
Nagpur - 440032
India

P, Mr. Roshith PhD scholar, School of Mechanical Engineering, Vellore Institute of Technology, Vellore, India, Pin-632014 India

Venkata Ramarao, Dr. Boda Surya Professor & HoD, Department of Mechanical Engineering, Pragati Engineering Col East Godavari District, Andhra Pradesh, India-533437.



#### India

S, Dr. Ganesan Professor, Department of Mechanical Engineering, Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology, 42, Avadi- Vel Tech Road, Avadi, Chennai- 600 062, Tamil Nadu. India

Rao, Dr. Rugada Vaikunta Professor, Department of Mechanical Engineering, Raghu Engineering College, Daka marri, Visakhapatnam, Andhra Pradesh - 531162. India

R, Mr. Karthikeyan Assistant Professor, Department of Automobile Engineering, Arasu Engineering College, Kumbakonam - 612501 India

# **Author**

S, Dr. Ganesan Professor, Department of Mechanical Engineering, Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology, 42, Avadi- Vel Tech Road, Avadi, Chennai- 600 062, Tamil Nadu. India

Anjikar, Dr. Akshay Assistant Professor, Department of Mechanical Engineering, Priyadarshini Bhagwati College of Engineering, Nagpur - 440032 India

P, Mr. Roshith PhD scholar, School of Mechanical Engineering, Vellore Institute of Technology, Vellore, India, Pin-632014 India

Venkata Ramarao, Dr. Boda Surya

Professor & HoD, Department of Mechanical Engineering, Pragati Engineering Col East Godavari District, Andhra Pradesh, India-533437. India

Rao, Dr. Rugada Vaikunta Professor, Department of Mechanical Engineering, Raghu Engineering College, Daka marri, Visakhapatnam, Andhra Pradesh - 531162. India

R, Mr. Karthikeyan Assistant Professor, Department of Automobile Engineering, Arasu Engineering College, Kumbakonam - 612501 India

# **Agent**

I/we hereby declare that the applicant is the owner of the copyright in the work, the author of the work, a licensee of the copyright and an assignee of the copyright.



I/we confirm that the information as entered is correct.





Office of the Controller General of Patents, Designs & Trade Marks Department of Industrial Policy & Promotion, Ministry of Commerce & Industry, Government of India

# (http://ipindia.nic.in/index.htm)



(http://ipindia.nic.in/index.htm)

Application Details				
APPLICATION NUMBER	202221015287			
APPLICATION TYPE	ORDINARY APPLICATION			
DATE OF FILING	19/03/2022			
APPLICANT NAME	<ol> <li>Professor Santosh Ram Pagare</li> <li>Dr. Apsara Saleth Mary. A</li> <li>Mr.Vottiprolu Vijaya Kumar</li> <li>Ms.VVV SATYAVATHI</li> <li>Dr. SHILPA KANTHALIA</li> <li>Mr.Shailendra Daf</li> <li>Dr.R.RAMPRABU</li> <li>Dr.G.KARUNANITHI</li> <li>Dr.R.KARTHIKEYAN</li> <li>Dr NAVANEET DESHPANDE</li> <li>Dr. K. Sivaperumal</li> </ol>			
TITLE OF INVENTION	THE ESSENTIAL ROLE OF TOURIST LODGING AND RETENTION POLICIES IN THE HOSPITALITY INDUSTRY'S EFFORTS TO INCREASE VISITOR NUMBERS.			
FIELD OF INVENTION	COMPUTER SCIENCE			
E-MAIL (As Per Record)	senanipindia@gmail.com			
ADDITIONAL-EMAIL (As Per Record)	admin@senanip.com			
E-MAIL (UPDATED Online)				
PRIORITY DATE				
REQUEST FOR EXAMINATION DATE				
PUBLICATION DATE (U/S 11A)	29/04/2022			

# **Application Status**

# **Awaiting Request for Examination APPLICATION STATUS View Documents** Filed Published RQ Filed Under Examination Disposed In case of any discrepancy in status, kindly contact ipo-helpdesk@nic.in

# FORM 2

THE PATENTS ACT 1970

39 of 1970

&

THE PATENT RULES 2003

# **COMPLETE SPECIFICATION**

(SEE SECTIONS 10 & RULE 13)

# 1. TITLE OF THE INVENTION

THE ESSENTIAL ROLE OF TOURIST LODGING AND RETENTION POLICIES IN THE HOSPITALITY INDUSTRY'S EFFORTS TO INCREASE VISITOR NUMBERS.

# 2. APPLICANTS (S)

Name	Nationality	Address
Professor Santosh Ram Pagare	Indian	Professor K J Somaiya College of Arts, Commerce and Science, Kopargaon, District-Ahmednagar, Pin: 423601 State: Maharashtra Country: India
Dr. Apsara Saleth Mary. A	Indian	Faculty Centre for Tourism and Hotel Management, Madurai Kamaraj University, Palkalai Nagar. Pin: 625 016 State: Tamil Nadu Country: India
Mr.Vottiprolu Vijaya Kumar	Indian	Research scholar, Department of Commerce and Management studies, Andhra University, Visakhpatnam,

		AP.Pin:530003 State: Andhra pradesh Country: India
Ms.VVV SATYAVATHI	Indian	LECTURER IN COMMERCE Government College (Autonomous), Rajahmundry, East godavari District Pin:533105 State: Andhra pradesh Country: India
Dr. SHILPA KANTHALIA	Indian	ASSISTANT PROFESSOR Faculty of Management Studies, JRNRVU Pin: 313001 State: Rajasthan Country: India
Mr.Shailendra Daf	Indian	Assistant Prof Priyadarshini Bhagwati College of Engineering Nagpur Pin: 440024 State: Maharastra Country: India
Dr.R.RAMPRABU	Indian	ASSISTANT PROFESSOR THANI COLLEGE OF ARTS AND SCIENCE, VEERAPANDI PIN 625531 STATE: TAMILNADU COUNTRY: INDIA
Dr.G.KARUNANITHI	Indian	ASSISTANT PROFESSOR PG DEPARTMENT OF COMMERCE, GOVERNMENT ARTS AND SCIENCE COLLEGE, SIVAKASI 626 124. Pin: 626124 State: TAMIL NADU Country: INDIA

Dr.R.KARTHIKEYAN	Indian	ASSISTANT PROFESSOR DEPARTMENT OF COMMERCE, GOVERNMENT ARTS COLLEGE FOR WOMEN, NILAKKOTTAI. Pin: 624 208 State: TAMIL NADU Country: INDIA
Dr NAVANEET DESHPANDE	Indian	ASST PROF No.61B,Chiraneel, Raghavendra Colony,Rani Chennamma Nagar Belagavi- Pin:590 006 State: Karnataka Country: India
Dr. K. Sivaperumal	Indian	Assistant Professor, Vel Tech Ranga Sanku Arts College, Avadi, Chennai- 62. State: TamilNadu Country: India

# 3. PREAMBLE OF THE DESCRIPTION

# COMPLETE SPECIFICATION

The following specification particularly describes the invention and the manner in which it is to be performed

# The essential role of tourist lodging and retention policies in the hospitality industry's efforts to increase visitor numbers.

#### **Abstract:**

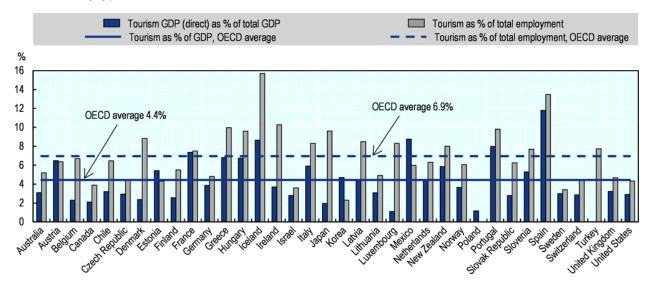
Since the start of time, humans have been fascinated with travel. People have regarded travel and tourism as critical social activities from the dawn of time. Humans have long been fascinated by unfamiliar territory, both within and outside their own country. The urge to visit the world has always existed, and the tourist industry has capitalised on this desire. Historically, people travelled for food and shelter, but in recent years, they've done so to strengthen their global economic relationships. Humanity relied on animals to get across the planet until the invention of wheels. This class will give students a better grasp of the factors that contribute to the hotel industry's growth. It will examine the growth and evolution of the tourist and hospitality industries. It is one of the fastest growing enterprises on the planet. Tourism grows at a rate of 7% every year. Numerous reasons have aided in its quick expansion, including more access to capital, additional time, and decreased travel costs. Since the introduction of rail and air travel, the hotel industry has been enormously profitable, and it has shown no signs of slowing down. It is the hospitality industry's earliest enterprise, stretching all the way back to the early nineteenth century. The hospitality industry offers a diverse range of travelrelated services, such as meal preparation and lodging. There are alternative modes of transportation. As a result, the travel and tourism industries rely on it. In this lesson, we try to describe the tourism and hotel sectors' history, development, and current state, as well as how these industries have changed through time. Hotels are increasingly willing to go above and beyond to ensure their guests are pleased and content during their stay, which makes sense given the hospitality industry's rapid growth in recent years. Hotels have developed different products or services in response to rising competition from other lodging firms. This enables them to target their customers and establish their own market. A hotel can be classed according to the number of stars it has, the services it offers, and the size of the facility, as well as its location, the type of guests it caters to, the number of services it offers, and the length of time it is open to visitors.

# DESCRIPTIONS:

The broad term encompasses hotels, restaurants, caterers, and other "hospitality industry" businesses. The worldwide economy will be valued \$3.5 trillion by 2020 as a result of the travel industry's great size and global reach in meeting all of our expectations. As part of hospitality, both the guest and host are believed to have a beneficial relationship, as is the act of hospitality. According to some, hospitality is "the profession of making guests feel welcome and at ease while having a good time." (2015) (Reveal Hospitality) How it works is as follows: Being hospitable entails treating guests like extended family members of the hotel, not just yours or theirs. This is the essence of being a true hotel guest. How it works is as follows. Individuals in the hospitality sector go above and beyond to aid others in better understanding one another, referred to as "building and fostering friendships" and "creating an environment conducive to deeper understanding." Hospitality can be characterised in the following manner: The term "hospitality" originates in Latin as "hospitalitias." When a visitor or stranger arrives, the best way to greet them is with extreme politeness. Visitors to a foreign country can anticipate a friendly welcome and a diverse range of activities during their stay. The basic goal of hospitality is to always make guests feel welcome. Accommodation and other basic requirements, like as food and drink, have grown greatly over time, resulting in a broad range of services and amenities to meet the needs and preferences of modern travellers. Regardless, the underlying principle of hospitality has remained constant. The lodging and food and beverage industries account for the lion's share of revenue and employment in this industry. This is a concise overview of the hospitality sector. This is a vital factor to consider when it comes to the travel and tourism industry. Numerous organisations in the travel and tourism industries combine to guarantee that travellers receive the services they demand or desire. Global tourism has increased as a result of transportation developments. This is because more people can travel long distances for less money. When starting a business, you start small. Tourism and hospitality are two of the most important industries on the planet. In general, it is widely accepted that the invention of the wheel and money in the fifth century BCE had a substantial impact on innkeeping and hospitality as a business. Although the hotel industry originated in Europe, the majority of its growth during the last century has occurred in the United States. The hotel

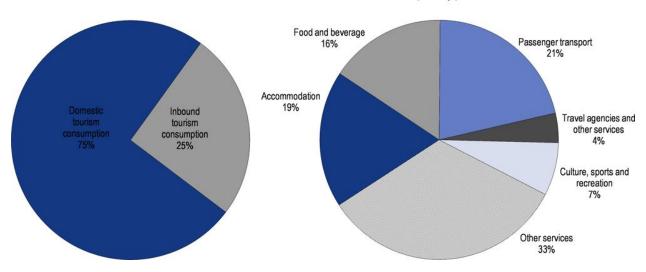
industry has grown over time, from simple antique inns to contemporary, stateof-the-art institutions equipped with everything a modern traveller could want. When choosing a hotel, price or rate is a critical factor to consider. As a result, hotels must exercise considerable caution while setting their prices in order to pay production and administration costs while still prospering. A hotel's most critical task is to guarantee that its room rates are accurate and competitive. This is the primary source of revenue for the hotel. They most frequently use cost-based and market-based pricing to determine hotel rates, but they do not always succeed. This is because cost-based pricing is scientifically and practically superior to market-based pricing. It is preferable than market-based pricing in that it takes into account variables such as rate of return on investment, operating costs, and profit margins. It's easier to plan and make judgments in the hotel industry if you can forecast future consumer preferences. Price is a critical component of a hotel's cost, as inaccurate estimates or projections can have a negative impact on the hotel's revenue and profit margin. In other words, if a revenue management system increases its forecasting accuracy by 10%, it can generate an additional 1.5 to 3% in revenue. Due to the low profit margins in the hotel industry, this is projected to have a major impact on net income. When discussing forecasts, one may claim that forecasting has the most impact on revenue management optimization. Every employee, including management, must be constantly aware of the hotel's revenue and profitability. Occupancy, average daily rates, average room rates per guest, and revenue per available room all contribute to the efficiency and effectiveness of a hotel.

#### **DRAWINGS:**





#### Tourism consumption by product



# **CLAIMS**

- 1. The essential role of tourist lodging and retention policies in the hospitality industry's efforts to increase visitor numbers state that this study establishes the groundwork for future research.
- 2. The essential role of tourist lodging and retention policies in the hospitality industry's efforts to increase visitor numbers of claim 1, wherein said that it identify the elements that influence on tourist lodging.
- 3. The essential role of tourist lodging and retention policies in the hospitality industry's efforts to increase visitor numbers of claim 1, wherein said it is a smart system.
- 4. The essential role of tourist lodging and retention policies in the hospitality industry's efforts to increase visitor numbers of claim 1, wherein said that in this paper, we analyzed and discussed various aspects.

- 5. The essential role of tourist lodging and retention policies in the hospitality industry's efforts to increase visitor numbers of claim 1, wherein said that in recent years, Tourism become a hot topic in banking Sector.
- 6. The essential role of tourist lodging and retention policies in the hospitality industry's efforts to increase visitor numbers of claim 1, wherein said that this research looks at all of the important and recent work that has been done so far, as well as its limitations and challenges.
- 7. The essential role of tourist lodging and retention policies in the hospitality industry's efforts to increase visitor numbers of claim 1, wherein said that it is a cutting edge technology.
- 8. The essential role of tourist lodging and retention policies in the hospitality industry's efforts to increase visitor numbers of claim 1, wherein said that it identify suitable and highly efficient models for real-time recognition and tracking.







Dated: 15/07/2020

Registration Number

Name, address and nationality of the applicant

Nature of the applicant's interest in the copyright of the work

Class and description of the work

Title of the work

8.

Language of the work

Name, address and nationality of the author and if the author is deceased, date of his decease

Whether the work is published or unpublished

Year and country of first publication and name, address and nationality of the publisher

Years and countries of subsequent publications, if any, and names, addresses and nationalities of the publishers

Names, addresses and nationalities of the owners of various rights comprising the copyright in the work and the extent of rights held by each, together with particulars of assignments and licences, if

Names, addresses and nationalities of other persons, if any, authorised to assign or licence of rights comprising the copyright

If the work is an 'Artistic work', the location of the original work, including name, address and nationality of the person in possession of the work. (In the case of an architectural work, the year of completion of the work should also be shown).

If the work is an 'Artistic work' which is used or capable of being used in relation to any goods or services, the application should include a certification from the Registrar of Trade Marks in terms of the provision to Sub-Section (i) of Section 45 of the Copyright Act,

If the work is an 'Artistic work', whether it is registered under the Designs Act 2000 if yes give details.

If the work is an 'Artistic work', capable of being registered as a design under the Designs Act 2000 whether it has been applied to an an industrial process and ,if yes ,the number of times

L-92824/2020

KANCHAN D. GANVIR , PLOT NO.100, GANGAVIHAR COLONY, INFRONT OF THAOKAR GYM, NANDANWAN 440009 NAGPUR, -440009-440009

NIKHIL PACHKAWADE, 43,KHANKHOJE NAGAR, MANEWADA ROAD, NAGPUR-440024-440024 **INDIAN** 

**AUTHOR** 

LITERARY/ DRAMATIC WORK

A TRANSITION OF PLASTIC WASTAGE INTO LIQUEFIED FUEL FOR ENVIRONMENTAL BENEFITS

**ENGLISH** 

KANCHAN D. GANVIR , PLOT NO.100, GANGAVIHAR COLONY, INFRONT OF THAOKAR GYM, NANDANWAN 440009 NAGPUR, -440009-440009

NIKHIL PACHKAWADE, 43,KHANKHOJE NAGAR, MANEWADA ROAD, NAGPUR-440024-440024

**INDIAN** 

UNPUBLISHED

N.A.

N.A.

KANCHAN D. GANVIR , PLOT NO.100, GANGAVIHAR COLONY, INFRONT OF THAOKAR GYM, NANDANWAN 440009 NAGPUR, -440009-440009

INDIAN

NIKHIL PACHKAWADE, 43,KHANKHOJE NAGAR, MANEWADA ROAD,NAGPUR-440024-440024

INDIAN N.A.

N.A.

N.A.

N.A.

N.A.

7038/2020-CO/L 27/05/2020





Dated: 06/11/2020

Registration Number

Name, address and nationality of the applicant

Nature of the applicant's interest in the copyright of the work

Class and description of the work

Title of the work

Language of the work

Name, address and nationality of the author and if the author is deceased, date of his decease

L-96515/2020

KANCHAN D. GANVIR, PLOT NO.100, GANGAVIHAR COLONY, INFRONT OF THAOKAR GYM, NANDANWAN,

NAGPUR-440009

INDIAN JAYSHREE V CHOPADE, FLAT NO. 107, ALLASIO

RECIDENCY, RAVET, PUNE-412101

NIKHIL PACHAKAWAD, 43,KHANKHOJE NAGAR,

MANEWADA ROAD, NAGPUR-440024

**INDIAN** 

AUTHOR

LITERARY/ DRAMATIC WORK

AN ARRANGEMENT AND PERFORMANCE ANALYTICS OF

ELEMENTS OF VIBRATING TESTING MACHINE FOR TAPER

ROLLER BEARING

**ENGLISH** 

KANCHAN D. GANVIR , PLOT NO.100, GANGAVIHAR COLONY, INFRONT OF THAOKAR GYM, NANDANWAN, NAGPUR -440009-440009

INDIAN

JAYSHREE V CHOPADE , FLAT NO. 107, ALLASIO RECIDENCY,

RAVET, PUNE-412101

**INDIAN** 

NIKHIL PACHAKAWAD, 43,KHANKHOJE NAGAR,

MANEWADA ROAD, NAGPUR-440024

**INDIAN** 

Whether the work is published or unpublished

UNPUBLISHED

Year and country of first publication and name, address and nationality of the publisher

N.A.

Years and countries of subsequent publications, if any, and names,

addresses and nationalities of the publishers

N.A.

Names, addresses and nationalities of the owners of various rights comprising the copyright in the work and the extent of rights held by each, together with particulars of assignments and licences, if

KANCHAN D. GANVIR , PLOT NO.100, GANGAVIHAR COLONY, INFRONT OF THAOKAR GYM, NANDANWAN, NAGPUR -440009-440009

INDIAN

JAYSHREE V CHOPADE, FLAT NO. 107,

ALLASIO RECIDENCY, RAVET, PUNE-412101 INDIAN

NIKHIL PACHAKAWAD , 43,KHANKHOJE NAGAR,

MANEWADA ROAD,

NAGPUR-440024 INDIAN

Names, addresses and nationalities of other persons, if any, authorised to assign or licence of rights comprising the copyright

N.A.

If the work is an 'Artistic work', the location of the original work, including address and nationality of the person in possession of the case of an architectural work, the year of k should also be shown).

N.A.

c work' which is used or capable of being oods or services, the application should on the Registrar of Trade Marks in terms of the Copyright Act,







Dated: 06/11/2020

Registration Number

Name, address and nationality of the applicant

L-96516/2020

KANCHAN D. GANVIR , PLOT NO.100, GANGAVIHAR COLONY, INFRONT OF THAOKAR GYM, NANDANWAN

NAGPUR-440009 **INDIAN** 

JAYASHRI CHOPADE, FLAT NO. 107,

ALLASIO RECIDENCY, RAVET, PUNE-412101

INDIAN

NIKHIL PACHAKAWAD, 43,KHANKHOJE NAGAR,

MANEWADA ROAD, NAGPUR-440024

**INDIAN** 

Nature of the applicant's interest in the copyright of the work

Class and description of the work

Title of the work

Language of the work

Name, address and nationality of the author and if the author is deceased, date of his decease

**AUTHOR** 

LITERARY/ DRAMATIC WORK

CONSEQUENCES OF COVID-19 PANDEMIC CONFINING COGNITIVE PROCESS, AFFECTING PERFORMANCE IN

HIGHER EDUCATION

**ENGLISH** 

KANCHAN D. GANVIR , PLOT NO.100, GANGAVIHAR COLONY, INFRONT OF THAOKAR GYM, NANDANWAN NAGPUR-440009 INDIAN

JAYASHRI CHOPADE , FLAT NO. 107, ALLASIO RECIDENCY, RAVET, PUNE-412101

NIKHIL PACHAKAWAD, 43,KHANKHOJE NAGAR,

MANEWADA ROAD, NAGPUR-440024

INDIAN

Whether the work is published or unpublished

UNPUBLISHED

Year and country of first publication and name, address and nationality of the publisher

N.A.

Years and countries of subsequent publications, if any, and names,

addresses and nationalities of the publishers

N.A.

Names, addresses and nationalities of the owners of various rights comprising the copyright in the work and the extent of rights held by each, together with particulars of assignments and licences, if

KANCHAN D. GANVIR , PLOT NO.100, GANGAVIHAR COLONY, INFRONT OF THAOKAR GYM, NANDANWAN NAGPUR-440009

INDIAN

JAYASHRI CHOPADE, FLAT NO. 107,

ALLASIO RECIDENCY, RAVET, PUNE-412101

INDIAN NIKHIL PACHAKAWAD , 43,KHANKHOJE NAGAR,

MANEWADA ROAD,

NAGPUR-440024

**INDIAN** 

Names, addresses and nationalities of other persons, if any, authorised to assign or licence of rights comprising the copyright

N.A.

tistic work', the location of the original work, ess and nationality of the person in possession e of an architectural work, the year of should also be shown).

c work' which is used or capable of being oods or services, the application should from the Registrar of Trade Marks in terms of

N.A.

N.A.







Dated: 06/11/2020

Registration Number

Name, address and nationality of the applicant

Nature of the applicant's interest in the copyright of the work

Class and description of the work

Title of the work

6. Language of the work

Name, address and nationality of the author and if the author is deceased, date of his decease

L-96517/2020

KANCHAN D. GANVIR , PLOT NO.100, GANGAVIHAR COLONY, INFRONT OF THAOKAR GYM, NANDANWAN NAGPUR-440009

**INDIAN** 

JAYASHRI CHOPADE , FLAT NO. 107, ALLASIO RECIDENCY,

RAVET, PUNE-412101

**INDIAN** NIKHIL PACHAKAWAD, 43,KHANKHOJE NAGAR,

MANEWADA ROAD, NAGPUR-440024

INDIAN

**AUTHOR** 

LITERARY/ DRAMATIC WORK

EVOLUTION OF WASTE TO WEALTH, AN OVERTURE TO

REDUCE INSIDIOUS EFFECTS

**ENGLISH** 

KANCHAN D. GANVIR , PLOT NO.100, GANGAVIHAR COLONY, INFRONT OF THAOKAR GYM, NANDANWAN NAGPUR-440009

INDIAN

JAYASHRI CHOPADE, FLAT NO. 107, ALLASIO RECIDENCY,

RAVET, PUNE-412101

INDIAN

NIKHIL PACHAKAWAD , 43,KHANKHOJE NAGAR, MANEWADA ROAD, NAGPUR-440024

**INDIAN** 

Whether the work is published or unpublished

UNPUBLISHED

Year and country of first publication and name, address and nationality of the publisher

N.A.

Years and countries of subsequent publications, if any, and names,

addresses and nationalities of the publishers

N.A.

Names, addresses and nationalities of the owners of various rights comprising the copyright in the work and the extent of rights held by each, together with particulars of assignments and licences, if

KANCHAN D. GANVIR , PLOT NO.100, GANGAVIHAR COLONY, INFRONT OF THAOKAR GYM, NANDANWAN

NAGPUR-440009

INDIAN

JAYASHRI CHOPADE , FLAT NO. 107, ALLASIO RECIDENCY,

RAVET, PUNE-412101

NIKHIL PACHAKAWAD , 43,KHANKHOJE NAGAR, MANEWADA ROAD, NAGPUR-440024

INDIAN

Names, addresses and nationalities of other persons, if any, authorised to assign or licence of rights comprising the copyright

N.A.

Artistic work', the location of the original work, dress and nationality of the person in possession architectural work, the year of should also be shown).

N.A.

work' which is used or capable of being on the Registrar of Trade Marks in terms of ection (i) of Section 45 of the Copyright Act,

N.A

Sign out

Controller General of Patents, Designs & Trade Marks



सत्यमेव जयते

INTELLECTUAL PROPERTY INDIA PATENTSI DESIGNS IDEAD FOR ARRES GEOGRAPHICAL INDIRECTIONS.

G.A.R.6 [See Rule 22(1)] RECEIPT

Docket No 8751 Date/Time 2022/02/16 14:30:04

Kanchan D. Ganvir Plot No. 100, Gangavihar Colony, Infront of Thaokar Gym, Nandnwan, Nagpur. Email: kanchan.ganvir100@gmail.com

Sr. No.	Ref. No Application No.	App. Number	Amount Paid	C.B.R.	Form Name	Fee Payment	Remarks
1	202221008119	TEMP/E- 1/9017/2022- MUM	1600	3922	FORM 1	Full	AUTOMATIC GRAIN DRYER MACHINE

TransactionID	Payment Mode	Challan Identification Number	Amount Paid	Head of A.C.No.
N-0000922493	Online Bank Transfer	1602220009638	1600.00	1475001020000001

Total Amount: ₹ 1600

Amount in Words: Rupees One Thousand Six Hundred Only

Received from Kanchan D Ganvir above mentioned Application/Forms. the sum of ₹ 1600 on account of Payment of fee for

\* This is a computer generated receipt, hecnce no signature required.

Print

Home About Us Contact U:

豆

**Bibliographic Page** Abstract

Description Claims

**Drawings** 

(54)

(12) INNOVATION PATENT

(11) Application No. AU 2020102710 A4

# (19) AUSTRALIAN PATENT OFFICE

medical Waste Management Including Ayurveda Hospitals Using IoT- Based System IMTH- Biomedical Waste Management: Intelligent Method and Technologies for Bio-

B02C 19/00 (2006.01) H04W 4/30 (2018.01) International Patent Classification(s) A61L 11/00 (2006.01) B09B 3/00 (2006.01) (51)

Date of Filing: (22)Application No: 2020102710 (21)

2020.10.14

2020.12.03 Publication Date: (45) (45)

2020.12.03 2020.12.03 Publication Journal Date: Granted Journal Date:

Applicant(s) (12)

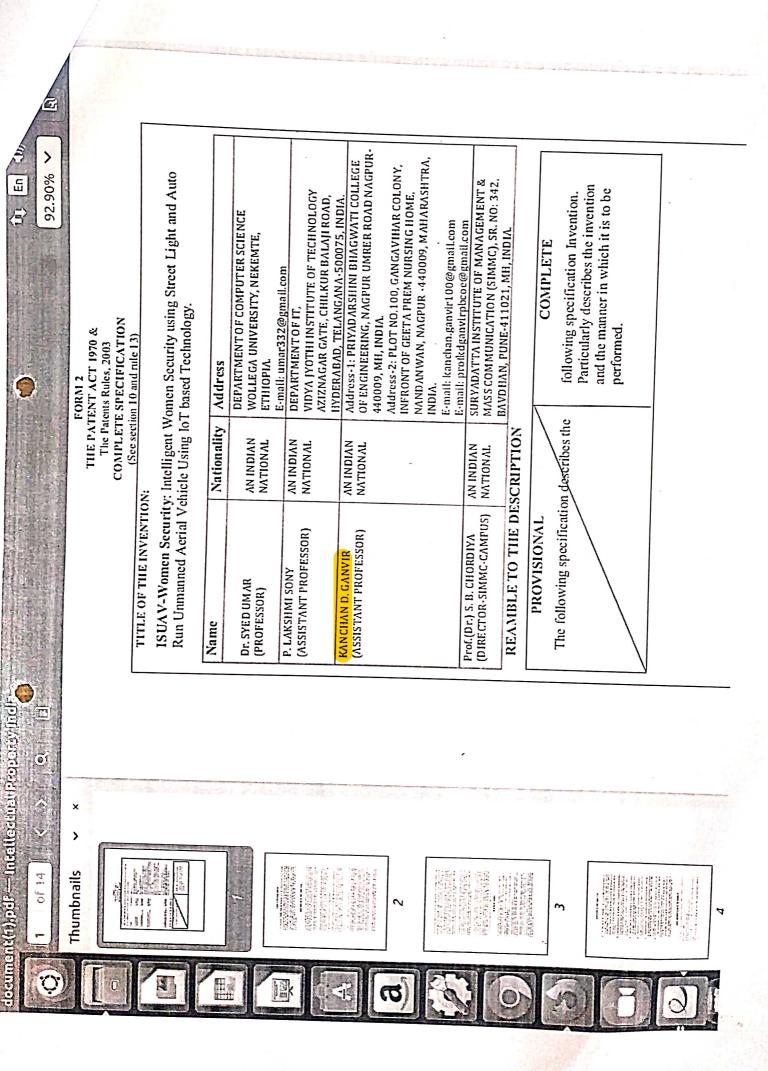
(0)

Malige Gangappa;Gitanjali J.;J. Indumathi;M. Pounambal;Kanchan D. Ganvir;Archana Shirbhate; Shila Ramchandra Pawar, Vina Madhavrao Lomte; Archana Bobade; Nikhil Pachkawade

Inventor(s) (72)

Lomte, Ganvir, Shila; Madhavrao J.;Pounambal, Kanchan; Shirbhate, Archana; Ramchandra Pawar, Vina; Manoj Bobade, Archana; Pachkawade, Nikhil Gitanjali;Indumathi, Malige;J., Gangappa,

Malige Gangappa, 8/74 Hawdon street Heidelberg, Melbourne, VIC, 3084, AU Agent / Attorney (74)



PROVISIONAL

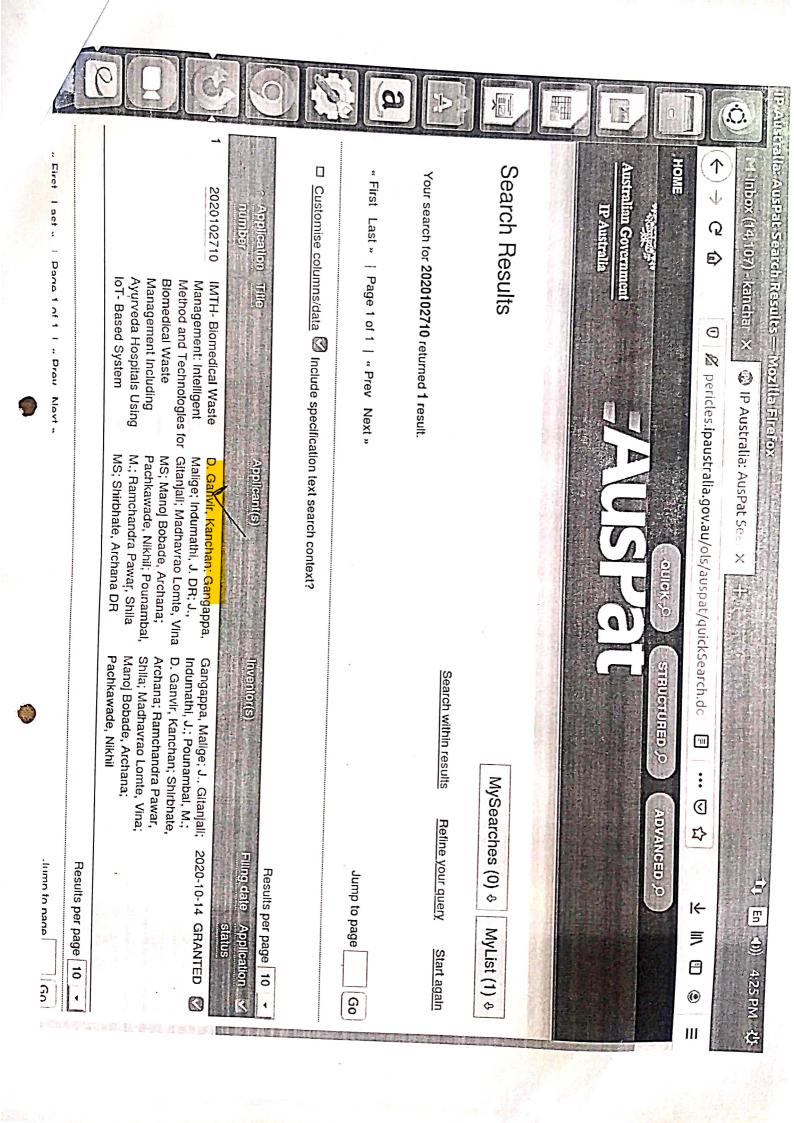
The following specification describes the

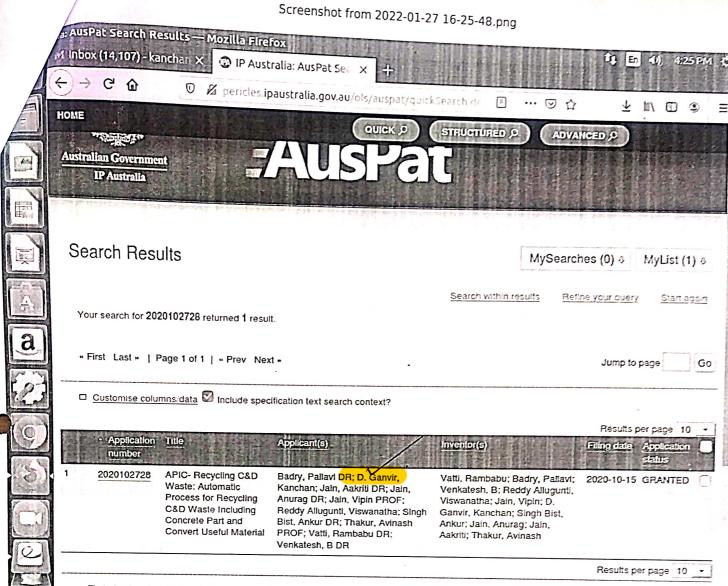
COMPLETE

The following specification invention. Particularly describes the invention and the manner in which it is to be

performed.

a





Jumn to nace



# CERTIFICATE OF GRANT INNOVATION PATEN

Patent number: 2020102710

The Commissioner of Patents has granted the above patent on 18 November 2020, and certifies that the below particulars have been registered in the Register of Patents.

#### Name and address of patentee(s):

Malige Gangappa of VNR VJIET College Bachupally Hyderabad India

Gitanjali J. of 29, First East Main Road, Gandhinagar Vellore Tamil Nadu 632006 India

- J. Indumathi of Department of Information Science and, Engineering, College of Engineering Sardar Patel Road Anna University Chennai , Tamil Nadu 600025 India
- M. Pounambal of Vellore Institute of Technology Vellore India

Kanchan D. Ganvir of Priyadarshini Bhagwati College of Engineering, Nagpur Umrer Road Nagpur, MH 440009

Archana Shirbhate of Anjuman college of Engineering and, Technology Nagpur, MH 440001 India

Shila Ramchandra Pawar of Shri Chhatrapati Shivaji Maharaj College, of Engineering, Department of Computer Engineering, Nepti Ahmednagar, MH India

Vina Madhavrao Lomte of Flat A 204, Rajas Residency Dangat Patil Nagar, Shivane Pune, MH 23 India

Archana Manoj Bobade of Sharadchandra Pawar College, of Engineering and Technology, Gat No 53, Waghalawadi Somesh Warnagar, Tal: Baramati Pune, MH 412306 India

Nikhil Pachkawade of 43 Khankhoje Nagar Manewada Road Nagpur, MH 440024 India

#### Title of invention:

IMTH- Biomedical Waste Management: Intelligent Method and Technologies for Biomedical Waste Management Including Ayurveda Hospitals Using IoT- Based System

#### Name of inventor(s):

Gangappa, Malige; J., Gitanjali; Indumathi, J.; Pounambal, M.; D. Ganvir, Kanchan; Shirbhate, Archana; Ramchandra Pawar, Shila, Madhavrao Lomte, Vina, Manoj Bobade, Archana and Pachkawade, Nikhil

#### Term of Patent:

Eight years from 14 October 2020

NOTE: This Innovation Patent cannot be enforced unless and until it has been examined by the Commissioner of Patents and a Certificate of Examination has been issued. See sections 120(1A) and 129A of the Patents Act 1990, set out on the reverse of this document.



Dated this 18th day of November 2020

Commissioner of Patents



# CERTIFICATE OF GRANT INNOVATION PATENT

Patent number: 2020102710

The Commissioner of Patents has granted the above patent on 18 November 2020, and certifies that the below particulars have been registered in the Register of Patents.

#### Name and address of patentee(s):

Malige Gangappa of VNR VJIET College Bachupally Hyderabad India

Gitanjali J. of 29, First East Main Road, Gandhinagar Vellore Tamil Nadu 632006 India

- J. Indumathi of Department of Information Science and, Engineering, College of Engineering Sardar Patel Road Anna University Chennai ,Tamil Nadu 600025 India
- M. Pounambal of Vellore Institute of Technology Vellore India

Kanchan D. Ganvir of Priyadarshini Bhagwati College of Engineering, Nagpur Umrer Road Nagpur,MH 440009 India

Archana Shirbhate of Anjuman college of Engineering and, Technology Nagpur, MH 440001 India

Shila Ramchandra Pawar of Shri Chhatrapati Shivaji Maharaj College, of Engineering, Department of Computer Engineering, Nepti Ahmednagar, MH India

Vina Madhavrao Lomte of Flat A 204, Rajas Residency Dangat Patil Nagar, Shivane Pune, MH 23 India

Archana Manoj Bobade of Sharadchandra Pawar College, of Engineering and Technology, Gat No 53, Waghalawadi Somesh Warnagar, Tal: Baramati Pune, MH 412306 India

Nikhil Pachkawade of 43 Khankhoje Nagar Manewada Road Nagpur, MH 440024 India

#### Title of invention:

IMTH- Biomedical Waste Management: Intelligent Method and Technologies for Biomedical Waste Management Including Ayurveda Hospitals Using IoT- Based System

#### Name of inventor(s):

Gangappa, Malige; J., Gitanjali; Indumathi, J.; Pounambal, M.; D. Ganvir, Kanchan; Shirbhate, Archana; Ramchandra Pawar, Shila; Madhavrao Lomte, Vina; Manoj Bobade, Archana and Pachkawade, Nikhil

#### Term of Patent:

Eight years from 14 October 2020

NOTE: This Innovation Patent cannot be enforced unless and until it has been examined by the Commissioner of Patents and a Certificate of Examination has been issued. See sections 120(1A) and 129A of the Patents Act 1990, set out on the reverse of this document.



Dated this 18th day of November 2020

Commissioner of Patents



# CERTIFICATE OF GRANT INNOVATION PATENT

Patent number: 2020102728

The Commissioner of Patents has granted the above patent on 18 November 2020, and certifies that the below particulars have been registered in the Register of Patents.

#### Name and address of patentee(s):

Rambabu Vatti of Bharat Institute of, Engineering and Technology Hyderabad Telangana 501510 India
Pallavi Badry of Vidya Jyothi Institute of Technology, Aziznagar Gate Hyderabad Telangana 500075 India
B Venkatesh of Department of Mechanical Engineering Vardhaman College of Engineering Hyderabad India
Viswanatha Reddy Allugunti of Temple Street Gandlapenta Kediri(T), Anantapur (D.T) Andhra Pradesh India
Vipin Jain of Teerthanker Mahaveer Institute of Management and Technology Teerthanker Mahaveer University
Moradabad, Uttar Pradesh 244001 India

Kanchan D. Ganvir of Priyadarshini Bhagwati College of Engineering, Nagpur Umrer Road Nagpur, MH 440009 India

Ankur Singh Bist of Graphic Era Hill University, Bhimtal Campus Sattal Rd, Bhimtal Uttarakhand 263156 India Anurag Jain of 346-C Kalpana Nagar Piplani Bhopal, M.P 462022 India Aakriti Jain of 346-C Kalpana Nagar Piplani Bhopal, M.P 462022 India

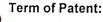
Avinash Thakur of Dr. D.Y. Patil Vidyapeeth, Pimpri Pune, MH 411018 India

#### Title of invention:

APIC- Recycling C&D Waste: Automatic Process for Recycling C&D Waste Including Concrete Part and Convert Useful Material

#### Name of inventor(s):

Vatti, Rambabu; Badry, Pallavi; Venkatesh, B; Reddy Allugunti, Viswanatha; Jain, Vipin; D. Ganvir, Kanchan; Singh Bist, Ankur; Jain, Anurag; Jain, Aakriti and Thakur, Avinash



Eight years from 15 October 2020

NOTE: This Innovation Patent cannot be enforced unless and until it has been examined by the Commissioner of Patents and a Certificate of Examination has been issued. See sections 120(1A) and 129A of the Patents Act 1990, set out on the reverse of this document.



Dated this 18th day of November 2020

Commissioner of Patents







Dated: 22/10/2019

- Registration Number
- Name, address and nationality of the applicant
- Nature of the applicant's Interest in the copyright of the work
- Class and description of the work
- Language of the work
- Name, address and nationality of the author and if the author is deceased, date of his decease
- Whether the work is published or unpublished
- Year and country of first publication and name, address and : N.A. nationality of the publisher
- Years and countries of subsequent publications, if any, and : N.A. names, addresses and nationalities of the publishers
- Names, addresses and nationalities of the owners of various rights comprising the copyright in the work and the extent of rights held by each, together with particulars of assignments and licences, if any
- Names, addresses and nationalities of other persons, if any, : N.A. authorised to assign or licence of rights comprising the contribute. copyright
- 13. If the work is an 'Artistic work', the location of the original : N.A. work, including name, address and nationality of the person in possession of the work. (In the case of an architectural work, the year of completion of the work should also be shown).
- 14. If the work is an 'Artistic work' which is used or capable of: N.A. being used in relation to any goods or services, the application should include a certification from the Registrar of Trade Marks in terms of the provision to Sub-Section (I) of Section 45 of the Copyright Act, 1957
- If the work is an 'Artistic work', whether it is registered under : N.A. the Designs Act 2000 if yes give details.
- 16. If the work is an 'Artistic work', capable of being registered: N.A. as a design under the Designs Act 2000, whether it has been applied to an article though an industrial process and ,if yes ,the number of times it is reproduced.

Diary Number : Date of Application : Date of Receipt :

13573/2019-CO/L 27/08/2019 27/08/2019

L-86438/2019

MANISH RADHESHYAM MOROLIYA , C/O, ARCHÀNA GAIDHANI, PLOT NO. 59,60, ATHARVA PRIDE APARTMENT, BAPU NAGAR, GALI NO. 04, NEAR BHANDE PLOT SQUARE-440009 INDIAN

- AUTHOR
- : LITERARY/ DRAMATIC WORK
- : DESIGN AND FABRICATION OF SOLAR WATER HEATER WITH CPC BY USING WAFERS PACKET.
- : ENGLISH
- MANISH RADHESHYAM MOROLIYA , C/O, ARCHÂNA GAIDHANI, PLOT NO. 59,60, ATHARVA PRIDE APARTMENT, BAPU NAGAR, GALI NO. 04, NEAR BHANDE PLOT SQUARE-440009 INDIAN
- : UNPUBLISHED

  - : I:ANISH RADHESHYAM MOROLIYA , C/O, ARCHANA GAIDHANI. PLOT NO. 59,60, ATHARVA PRIDE APARTMENT, EAPU NAGAR, GALL NO. 04, NEAR BHANDE PLOT SQUARE-440009 INDIAN









Dated: 09/11/2020

Registration Number

Name, address and nationality of the applicant

Nature of the applicant's interest in the copyright of the work

Class and description of the work

Language of the work

Name, address and nationality of the author and if the author is deceased, date of his decease

Whether the work is published or unpublished

Year and country of first publication and name, address and nationality of the publisher

Years and countries of subsequent publications, if any, and names, addresses and nationalities of the publishers

Names, addresses and nationalities of the owners of various rights comprising the copyright in the work and the extent of rights held by each, together with particulars of assignments and licences, if

Names, addresses and nationalities of other persons, if any, authorised to assign or licence of rights comprising the copyright

If the work is an 'Artistic work', the location of the original work, including name, address and nationality of the person in possession of the work. (In the case of an architectural work, the year of completion of the work should also be shown).

If the work is an 'Artistic work' which is used or capable of being used in relation to any goods or services, the application should include a certification from the Registrar of Trade Marks in terms of the provision to Sub-Section (i) of Section 45 of the Copyright Act, 1957.

If the work is an 'Artistic work', whether it is registered under the Designs Act 2000 if yes give details.

If the work is an 'Artistic work', capable of being registered as a design under the Designs Act 2000 whether it has been applied to an article though an industrial process and ,if yes ,the number of times it is reproduced.

13003/2020-CO/L 09/09/2020 09/09/2020

L-96578/2020

MANISH RADHESHYAM MOROLIYA , PLOT NO. 59-60, ATHARVA PRIDE APARTMENT, 2ND FLOOR, BAPU NAGAR, GALI NO. 04, NEAR BHANDE PLOT SQUARE, NAGPUR-440024 INDIAN

**AUTHOR** 

LITERARY/ DRAMATIC WORK

OPTIMIZATION OF OPERATIONAL METHOD TO IMPROVE SUSTAINABLE ENERGY EFFICIENCY OF AUXILIARIES IN A CFBS COAL FIRED BOILER

**ENGLISH** 

MANISH RADHESHYAM MOROLIYA , PLOT NO. 59-60, ATHARVA PRIDE APARTMENT, 2ND FLOOR, BAPU NAGAR, GALI NO. 04, NEAR BHANDE PLOT SQUARE, NAGPUR-440024 INDIAN

DR.VINAY CHANDRA JHA, , KALINGA UNIVERSITY, RAIPUR, -492101 INDIAN

UNPUBLISHED

N.A.

MANISH RADHESHYAM MOROLIYA , PLOT NO. 59-60, ATHARVA PRIDE APARTMENT, 2ND FLOOR, BAPU NAGAR, GALI NO. 04, NEAR BHANDE PLOT SQUARE, NAGPUR-440024 INDIAN

N.A.

N.A.

DEPUTY REGISTRAR OF COPYRIGHTS



Office of the Controller General of Patents, Designs & Trade Marks Department of Industrial Policy & Promotion, Ministry of Commerce & Industry, Government of India

INTELLECTUAL PROPERTY INDIA AUTORIOGISTICATE MARS

APPLICATION NUMBER  APPLICATION NUMBER  APPLICATION TYPE  ORDINARY APPLICATION  12/04/2021  1. Dr. V.S. HARIHARAN 2. Mr. SESHABATTAR PHANEENDRA 3. Dr. C. BIBIN 4. Mr. MANISH RADHESHYAM MOROLIYA 5. Dr. RAM SUBIAH 6. Mr. A. NAVEEN KUMAR 7. Mr. UMAMAHESHWAR 8. Mr. AMOL L. MANGRULKAR 9. Dr. MOTI LAL RINAWA 10. Mr. T. NAGARAJ 11. Dr. M. RAMARAO  AN EXPERIMENTAL INVESTIGATION OF THE HEAT TRANSFER IN THE THERMAL DRYING PROCESS, BY CONVECTION OF AGRICULTURAL PRODUCTS  FIELD OF INVENTION  MECHANICAL ENGINEERING  E-MAIL (AS PER RECORD)  ADDITIONAL-EMAIL (AS PER RECORD)  PRIORITY DATE  REQUEST FOR EXAMINATION DATE  PUBLICATION DATE (U/S 11A)  23/04/2021	GEOGRAPHICAL INDICATIONS	
APPLICATION TYPE  DATE OF FILING  12/04/2021  1. Dr. V.S. HARIHARAN 2. Mr. SESHABATTAR PHANEENDRA 3. Dr. C. BIBIN 4. Mr. MANISH RADHESHYAM MOROLIYA 5. Dr. RAM SUBBIAH 6. Mr. A. NAVEEN KUMAR 7. Mr. UMAMAHESHWAR 8. Mr. AMOL L. MANGRULKAR 9. Dr. MOTI LAL RINAWA 10. Mr. T. NAGARAJ 11. Dr. M. RAMARAO  AN EXPERIMENTAL INVESTIGATION OF THE HEAT TRANSFER IN THE THERMAL DRYING PROCESS, BY CONVECTION OF AGRICULTURAL PRODUCTS  TITLE OF INVENTION  MECHANICAL ENGINEERING  E-MAIL (AS PER RECORD)  ADDITIONAL-EMAIL (AS PER RECORD)  PRIORITY DATE  REQUEST FOR EXAMINATION DATE		Application Details
DATE OF FILING  12/04/2021  1. Dr. V.S. HARIHARAN 2. Mr. SESHABATTAR PHANEENDRA 3. Dr. C. BIBIN 4. Mr. MANISH RADHESHYAM MOROLIYA 5. Dr. RAM SUBBIAH 6. Mr. A. NAVEEN KUMAR 7. Mr. UMAMAHESHWAR 8. Mr. AMOL L. MANGRULKAR 9. Dr. MOTI LAL RINAWA 10. Mr. T. NAGARAJ 11. Dr. M. RAMARAO  AN EXPERIMENTAL INVESTIGATION OF THE HEAT TRANSFER IN THE THERMAL DRYING PROCESS, BY CONVECTION OF AGRICULTURAL PRODUCTS  FIELD OF INVENTION  FIELD OF INVENTION  MECHANICAL ENGINEERING  E-MAIL (AS PER RECORD)  ADDITIONAL-EMAIL (AS PER RECORD)  ADDITIONAL-EMAIL (AS PER RECORD)  PRIORITY DATE  REQUEST FOR EXAMINATION DATE	APPLICATION NUMBER	202141016992
1. Dr. V.S. HARIHARAN 2. Mr. SESHABATTAR PHANEENDRA 3. Dr. C. BIBIN 4. Mr. MANISH RADHESHYAM MOROLIYA 5. Dr. RAM SUBBIAH 6. Mr. A. NAVEEN KUMAR 7. Mr. UMAMAHESHWAR 8. Mr. AMOL L. MANGRULKAR 9. Dr. MOTI LAL RINAWA 10. Mr. T. NAGARAJ 11. Dr. M. RAMARAO  AN EXPERIMENTAL INVESTIGATION OF THE HEAT TRANSFER IN THE THERMAL DRYING PROCESS, BY CONVECTION OF AGRICULTURAL PRODUCTS  FIELD OF INVENTION  MECHANICAL ENGINEERING  E-MAIL (AS PER RECORD)  ADDITIONAL-EMAIL (AS PER RECORD)  PRIORITY DATE  REQUEST FOR EXAMINATION DATE	APPLICATION TYPE	ORDINARY APPLICATION
2. Mr. SESHABATTAR PHANEENDRA 3. Dr. C. BIBIN 4. Mr. MANISH RADHESHYAM MOROLIYA 5. Dr. RAM SUBBIAH 6. Mr. A. NAVEEN KUMAR 7. Mr. UMAMAHESHWAR 8. Mr. AMOL L. MANGRULKAR 9. Dr. MOTI LAL RINAWA 10. Mr. T. NAGARAJ 11. Dr. M. RAMARAO  AN EXPERIMENTAL INVESTIGATION OF THE HEAT TRANSFER IN THE THERMAL DRYING PROCESS, BY CONVECTION OF AGRICULTURAL PRODUCTS  FIELD OF INVENTION E-MAIL (As Per Record) ADDITIONAL-EMAIL (As Per Record) E-MAIL (UPDATED Online) PRIORITY DATE  REQUEST FOR EXAMINATION DATE	DATE OF FILING	12/04/2021
HEAT TRANSFER IN THE THERMAL DRYING PROCESS, BY CONVECTION OF AGRICULTURAL PRODUCTS  FIELD OF INVENTION MECHANICAL ENGINEERING  E-MAIL (As Per Record)  ADDITIONAL-EMAIL (As Per Record) vsh1968@gmail.com  E-MAIL (UPDATED Online)  PRIORITY DATE  REQUEST FOR EXAMINATION DATE	APPLICANT NAME	2. Mr. SESHABATTAR PHANEENDRA 3. Dr. C. BIBIN 4. Mr. MANISH RADHESHYAM MOROLIYA 5. Dr. RAM SUBBIAH 6. Mr. A. NAVEEN KUMAR 7. Mr. UMAMAHESHWAR 8. Mr. AMOL L. MANGRULKAR 9. Dr. MOTI LAL RINAWA 10. Mr. T. NAGARAJ
E-MAIL (As Per Record)  ADDITIONAL-EMAIL (As Per Record) vsh1968@gmail.com  E-MAIL (UPDATED Online)  PRIORITY DATE  REQUEST FOR EXAMINATION DATE	TITLE OF INVENTION	HEAT TRANSFER IN THE THERMAL DRYING PROCESS, BY CONVECTION OF AGRICULTURAL
ADDITIONAL-EMAIL (As Per Record) vsh1968@gmail.com  E-MAIL (UPDATED Online)  PRIORITY DATE  REQUEST FOR EXAMINATION DATE	FIELD OF INVENTION	MECHANICAL ENGINEERING
Record) vsh1968@gmail.com  E-MAIL (UPDATED Online)  PRIORITY DATE  REQUEST FOR EXAMINATION DATE	E-MAIL (As Per Record)	
PRIORITY DATE  REQUEST FOR EXAMINATION DATE	•	vsh1968@gmail.com
REQUEST FOR EXAMINATION DATE	E-MAIL (UPDATED Online)	
DATE	PRIORITY DATE	
PUBLICATION DATE (U/S 11A) 23/04/2021	_	
	PUBLICATION DATE (U/S 11A)	23/04/2021

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141016992 A

(19) INDIA

(22) Date of filing of Application:12/04/2021

(51) International classification

(31) Priority Document No

(33) Name of priority country

(86) International Application No

(87) International Publication No.

(62) Divisional to Application Number

(61) Patent of Addition to Application Number: NA

(32) Priority Date

Filing Date

Filing Date

Filing Date

(43) Publication Date: 23/04/2021

(54) Title of the invention: AN EXPERIMENTAL INVESTIGATION OF THE HEAT TRANSFER IN THE THERMAL DRYING PROCESS, BY CONVECTION OF AGRICULTURAL PRODUCTS

> C09K0005120000, D21F0005020000,

F26B0023000000

:NA

:NA

:NA

:NA

:NA

:NA

:NA

:NA

:NA

(71)Name	of App	licant :
----------	--------	----------

#### 1)Dr. V.S. HARIHARAN

Address of Applicant :PROFESSOR & PRINCIPAL, DEPARTMENT OF MECHANICAL ENGINEERING, BALAJI INSTITUTE OF TECHNOLOGY AND SCIENCE, WARANGAL-NARSAMPET RD, LAKNEPALLY, TELANGANA - 506330. Telangana India

:F26B0007000000. 2)Mr. SESHABATTAR PHANEENDRA G01N0025180000,

3)Dr. C. BIBIN

4)Mr. MANISH RADHESHYAM MOROLIYA

5)Dr. RAM SUBBIAH

6)Mr. A. NAVEEN KUMAR

7)Mr. UMAMAHESHWAR 8)Mr. AMOL L. MANGRULKAR

9)Dr. MOTI LAL RINAWA

10)Mr. T. NAGARAJ 11)Dr. M. RAMARAO

(72)Name of Inventor:

1)Dr. V.S. HARIHARAN

2)Mr. SESHABATTAR PHANEENDRA

3)Dr. C. BIBIN

4)Mr. MANISH RADHESHYAM MOROLIYA

5)Dr. RAM SUBBIAH

6)Mr. A. NAVEEN KUMAR

7)Mr. UMAMAHESHWAR

8)Mr. AMOL L. MANGRULKAR

9)Dr. MOTI LAL RINAWA

10)Mr. T. NAGARAJ

11)Dr. M. RAMARAO

#### (57) Abstract:

The investigation of mechanical drying by convection, mainly for agricultural products designed, constructed, and evaluated is of the tunnel type, fixed bed with a metal grate, where the heat transfer to the product is done by convection from a stream of hot air directed either parallel or perpendicular to the surface of the product being dried. The thermal drying process presupposes the achievement of a uniform flow field and temperature so that the final dried product has a uniform distribution of its moisture and temperature content. The uniformity of the moisture content and the temperature in the final product can be achieved by the proper distribution and guidance of the heated drying air inside the drying chamber.

No. of Pages: 28 No. of Claims: 2







### PRIYADARSHINI BHAGWATI COLLEGE OF ENGINEERING

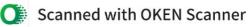
(NAAC ACCREDITED)

Harpur Nagar, Umred Road, Nagpur - 440 024 (India) Tel.: +91-712-2710281, Fax: +91-712-2710283 E-mail: principalpbcoe@gmail.com Website: www.pbcoe.edu.in LTJ55 AGPUS

Faculty Spearheading Research Initiatives: Combining Doctoral Expertise and Innovative Drive, This alternative phrase conveys that the faculty members are not only engaged in research but are also leveraging their doctoral qualifications to lead and advance innovative projects in their respective fields. It emphasizes their role in driving both academic excellence and cutting-edge advancements.

#### The list of Faculty with Doctoral Degree.

Name	Designation	Date of joining institution	Name of the Department	Highest Qualification and Year
Dr. N.K.Choudhari	Principal	01-10-2007	Electronics & Communication	Ph.D (2002)
Dr.(Mrs.) A. R. Chaudhari	Associate Professor	17-09-2007	Applied Chemistry	Ph.D (2004)
Dr.(Ms) R. A. Nandanwar	Assistant Professor	12-10-2007	Applied Chemistry	Ph.D (2015)
Dr. A. C. Haldar	Assistant Professor	15-07-2011	Applied Chemistry	Ph.D (2008)
Dr. S. Rewatkar	Assistant Professor	10-04-2023	Applied Chemistry	Ph.D (2022)
Dr.(Mrs.) S. R. Suple	Assistant Professor	11-06-2018	Applied Mathematics	Ph.D (2018)
Dr.(Mrs.) R. V. Harane	Assistant Professor	12-06-2018	Applied Mathematics	Ph.D (2019)
Dr.(Ms.) Sonali Rewankar	Assistant Professor	10-06-2017	Applied Physics	Ph.D. (2022)
Dr. Ranjeet N. Patil	Assistant Professor	27-07-2009	Civil Engineering	Ph.D. (2018)
Dr. T. R. Patil	Assistant Professor	27-11-2012	Civil Engineering	Ph.D.(2022)
Dr. (Ms) D.M.Kate	Assistant Professor	02-06-2009	Electronics & Communication	Ph.D. (2018)
Dr. P.M. Palkar	Assistant Professor	10-06-2011	Electronics & Communication	Ph.D. (2021)







# PRIYADARSHINI BHAGWATI COLLEGE OF ENGINEERING

(NAAC ACCREDITED)

Harpur Nagar, Umred Road, Nagpur - 440 024 (India) Tel.: +91-712-2710281, Fax: +91-712-2710283 E-mail: principalpbcoe@gmail.com Website: www.pbcoe.edu.in



Name	Designation	Date of joining institution	Name of the Department	Highest Qualification and Year
Dr (Ms.) P.V. Gawande	Assistant Professor	29-07-2010	Electronics & Communication	Ph.D. (2022)
Dr (Ms.) A. P. Thakre	Assistant Professor	2010	Electronics & Communication	Ph.D. (2022)
Dr (Ms.) T.U. Pathan	Assistant Professor	03-11-2015	Electronics & Communication	Ph.D. (2023)
Dr. P.R. Bokde	Assistant Professor	16-06-2008	Electronics & Communication	Ph.D. (2017)
Dr. (Ms) S.B. Dhoble	Assistant Professor	16-06-2008	Electronics & Communication	Ph.D. (2016)
Dr. P.N. Aerkewar	Assistant Professor	05-05-2011	Electronics & Communication	Ph.D. (2022)
Dr. M.S.Chaudhari	Assistant Professor	16-06-2008	Information Technology	Ph.D. (2022)
Dr. Mrs. Radha Pimpale	Assistant Professor	21-12-2017	Information Technology	Ph.D. (2018)
Dr.R.K.Pohane	Assistant Professor	26-09-2007	Mechanical Engineering	Ph.D. (2018)
Dr. S.P.Daf	Assistant Professor	01-08-2013	Mechanical Engineering	Ph.D. (2022)
Dr. A.D.Anjikar	Assistant Professor	14-07-2014	Mechanical Engineering	Ph.D. (2022)
Dr.(Ms). K.D.Ganvir	Assistant Professor	15-07-2014	Mechanical Engineering	Ph.D. (2022)
Dr. M.R.Moroliya	Assistant Professor	08-01-2018	Mechanical Engineering	Ph.D. (2022)

Dr. N. K. Choudhary Principal

Fivadarshini Bhagwati College of Engo Umred Road, Nagpur.

LOKMANYA TILAK JANKALYAN SHIKSHAN SANSTHA

Lokmanya Tilak Bhavan, Laxmi Nagar, Nagpur - 440 022. Maharashtra, INDIA. Tel : +91-712-2230665, 2245121. Fax No. : +91-712 2221430. Website : www.ltjss.net





Harpur Nagar, Umred Road (Near Bada Tajbagh), Nagpur-24 (Approved by AICTE, New Delhi, Govt. of Maharashtra and affiliated to Rashtrasant Tukdoji Maharaj Nagpur University) Email: principalpbcoe@gmail.com, Website: www.pbcoe.edu.in



NAAC Accredited

#### TO WHOMSOEVER IT MAY CONCERN

This is certified that Number of research papers published per teacher in the Journals notified on UGC care list during the last five years.

Year	2023	2022	2021	2020	2019	2018				
Number of Research papers	3	15	9	12	11	2				
	Total 52									

Note: The supporting document for this metric exceeds the upload limit of 5 Mb. Hence the documents are made available in HEI website and the links for the metric is given below.



Principal
Priyadarshini Bhagwati College of Engg.
Umred Road, Nagpur.



NG WOUNTER

Harpur Nagar, Umred Road (Near Bada Tajbagh), Nagpur-24 (Approved by AICTE, New Delhi, Govt. of Maharashtra and affiliated to Rashtrasant Tukdoji Maharaj Nagpur University) Email: principalpbcoe@gmail.com, Website: www.pbcoe.edu.in

#### NAAC Accredited

# 3.3.1 Number of research papers published per teacher in the Journals notified on UGC care list during the last five years.

Title of paper	Name of Name	Year		Link to the recognition in UGC enlistment of the Journal /Digital Object Identifier (doi) number			
	the author/s	Name of of journal publication		ISSN number	Link to website of the Journal	Link to article / paper / abstract of the article	Is it listed in UGC Care list
Hybrid Swarm Optimization of Device-To-Device Resource and Power Allocation Using Multi-Objective Particle Swarm Optimization	Ms. S.S. Dhanvijay	Journal of Northeastern University	2023	1005-3026	https://dbdxxb.cn/	http://dbdxxb.cn/wp- content/uploads/2022/1 2/Sapana-Dhan-Vijay.pdf	Scopus Index



PRIYADARSHINI BHAGWATI COLLEGE OF ENGINEERING
Harpur Nagar Hmrad Road (Near Rada Taibagh), Nagarur 24



Harpur Nagar, Umred Road (Near Bada Tajbagh), Nagpur-24 (Approved by AICTE, New Delhi, Govt. of Maharashtra and affiliated to Rashtrasant Tukdoji Maharaj Nagpur University) Email: principalpbcoe@gmail.com, Website: www.pbcoe.edu.in

Design & Fabrication of Stair Lift Chair	Prof. S. M. Pimpalgaon kar	Journal of Engineering Science	2023	0377-9254	http://www.jespub lication.com/	https://jespublication.co m/upload/2023- V14I5037.pdf	UGC Care
Study of synthesis and characterization of raw bagasse, its char and activated carbon prepared using chemical additive	Dr. (Mrs.) Archana R. Chaudha ri	Water Science & Technology	2023	6172-114	https://iwaponline. com/	https://iwaponline.com/ wst/article/87/9/2233/9 4908/Study-of-synthesis- and-characterization-of- raw	Scopus Index
Natural Extracts Mediated Biosynthesis of Zinc Nanoparticles and their pharmacotherapeutic and Scientific Application Perspectives	Animeshcha ndra G.M. Haldar, Kanhaiya M. Dadure, Debarshi Kar Mahapatra, R. G. Chaudhary	Jordan Journal of Physics	2022	1994- 7607	https://journals.yu. edu.jo/jjp/	https://journals.yu.edu.j o/jjp/JJPIssues/Vol15N o1pdf2022/10.html	Scopus Index



LTJSS LTJSS

Harpur Nagar, Umred Road (Near Bada Tajbagh), Nagpur-24 (Approved by AICTE, New Delhi, Govt. of Maharashtra and affiliated to Rashtrasant Tukdoji Maharaj Nagpur University) Email: principalpbcoe@gmail.com, Website: www.pbcoe.edu.in

Utilization of Mother Nature's Gift for the Nanobiofabrication of Copper Nanomaterials for Multifarious Applications	Kanhaiya M. Dadure , Animeshcha ndra G.M. Haldar, Debarshi Kar Mahapatra, R. G. Chaudhary	Jordan Journal of Physics	2022	1994- 7607	https://journals.yu. edu.jo/jjp/	https://journals.yu.edu.j o/jjp/JJPIssues/Vol15N o1pdf2022/12.html	Scopus Index
Half a Decade Progress of Biomass-assisted Development of Zirconium Nanomaterials: Anti-microbial Potentials	Animeshcha ndra G.M. Haldar, Kanhaiya M. Dadure, Debarshi Kar Mahapatra, R. G. Chaudhary	Jordan Journal of Physics	2022	1994- 7607	https://journals.yu. edu.jo/jjp/	https://journals.yu.edu.j o/jjp/JJPIssues/Vol15N o1pdf2022/11.html	Scopus Index



HAGPUR MAGPUR

Harpur Nagar, Umred Road (Near Bada Tajbagh), Nagpur-24 (Approved by AICTE, New Delhi, Govt. of Maharashtra and affiliated to Rashtrasant Tukdoji Maharaj Nagpur University) Email: principalpbcoe@gmail.com, Website: www.pbcoe.edu.in

A Compact Circular Polarized MIMO Fabric A Compact Circular Polarized MIMO Fabric Antenna with AMC Backing for WBAN Applications	Ms. T. U. Pathan	ADVANCE D ELECTROM GNETICS JOURNAL [WEB OF SCIENCE, ESCI, SCOPUS (ELSEVIER) ]	2022	2119-0275	https://aemjournal .org/index.php/A EM	A Compact Circular Polarized MIMO Fabric Antenna with AMC Backing for WBAN Applications Advanced Electromagnetics (aemjournal.org)	Scopus Index
Effect of Pozzolanic Material on Drying Shrinkage Characteristics of Blended Cementitious Mortar	Nitesh Thikare, Ranjit Patil	IOP Conference Series: Earth and Environment al Science	2022	1755-1315	https://iopscience.i op.org/journal/175 5-1315	https://iopscience.iop.o rg/article/10.1088/1755 = 1315/1084/1/012006/m eta	Scopus Index
Tainted Wastewater Remediation through Inverted Multimedia Biofilter	Ranjit N. Patil	IOP Conference Series: Earth and Environment al Science	2022	1755-1315	https://iopscience.i op.org/journal/175 5-1315	https://iopscience.iop.o rg/article/10.1088/1755 = 1315/1084/1/012071/m eta	Scopus Index
Effect of using plastic granules on the characteristics of concrete	Tejas Patil, Dr. M.P. Verma, Dr Sanjeev	International Journal of Mechanical Engineering	2022	0974-5823	https://kalaharijou rnals.com/ijme.ph p	https://kalaharijournals.c om/resources/APRIL_120 .pdf	Scopus Index



Harpur Nagar, Umred Road (Near Bada Tajbagh), Nagpur-24 (Approved by AICTE, New Delhi, Govt. of Maharashtra and affiliated to Rashtrasant Tukdoji Maharaj Nagpur University) Email: principalpbcoe@gmail.com, Website: www.pbcoe.edu.in

	Kumar Verma						
Comparative study of preparation and characterization of activated carbon obtained from sugarcanebagasse and rice husk by using H3PO4 and ZnC12	Dr. Archana R. Chaudha ri	Materials Today: Proceedings	2022	1875-1884	www.sciencedirect.	http://doi.org/10.1016/j. matpr.2022.05.413	SCI
Synthesis of Pure Phase SmFeO3 orthoferrites via self propogation on Solgel Combustion	Ms. U. V. Gaikwad	Ferroelectrics	2022	2040-937	http://www.opju.a c.in/opjubr	https://doi.org/10.1080/ 00150193.2022.204093 7	Taylor & Francis (SCI)
First observation of Luminiscence in Snythetic boralsilite	Dr. S. G. Revankar	Optik	2022	0030-4026	www.sciencedirect.	https://doi.org/10.1016/j .ijleo.2022.169974	Elsevier( Scopus)
Luminescent Material Based on Aluminates: A review	Dr. S. G. Revankar	Physica Status Solidi(a)	2022	1862-6319	https://onlinelibrar y.wiley.com	http://doi.org/10.1002/p ssa.202200346	Scopus Index





Harpur Nagar, Umred Road (Near Bada Tajbagh), Nagpur-24 (Approved by AICTE, New Delhi, Govt. of Maharashtra and affiliated to Rashtrasant Tukdoji Maharaj Nagpur University) Email: principalpbcoe@gmail.com, Website: www.pbcoe.edu.in

Broadening the excitation Spectrum of BaMgAl10O17:Cr3+ using Eu2+ as a Codopant	Dr. S. G. Revankar	Journal of Luminescenc e	2022	0022-2313	www.elsevier.com	https://doi.org/10.1016/j .jlumin.2021.118586	Elsevier( Scopus)
Study of Luminiscence of Gd3+ in some aluminoborates and energy transfer from Gd3+ to Ln3+	Dr. S. G. Revankar	Optik	2022	0030-4026	www.elsevier.com	https://doi.org/10.1016/j .ijleo.2022.169610	Elsevier (Scopus Index)
Gamma Degraded oligomeric nanochitosan for adsorptive removal of Cd (II)	Dr. S. Revatkar (Korde)	Bioresource Technology Reports	2022	101002	www.sciencedirect.	http://doi.org/10.1016/j. biteb.2022.101002	Scopus Index
Fitness Center: An Automated System for Gym Notification with Client Attendance and Guidance System	Rashmi Dadge	Asian Journal of Organic & Medicinal Chemistry	2022	2456-8937	https://ajomc.asian pubs.org/	https://www.academia.e du/82286347/Asian Jour nal of Organic and Me dicinal Chemistry Editor in_Chief	UGC Care





Harpur Nagar, Umred Road (Near Bada Tajbagh), Nagpur-24 (Approved by AICTE, New Delhi, Govt. of Maharashtra and affiliated to Rashtrasant Tukdoji Maharaj Nagpur University) Email: principalpbcoe@gmail.com, Website: www.pbcoe.edu.in

Review on toxic metal ions removal by using activated carbon prepared from natural biomaterials	Archana R Chaudhari	Journal of Physics : conference Series	2021	1742-6596	https://iopscience.i op.org/journal/174 2-6596	https://iopscience.iop.or g/article/10.1088/1742- 6596/1913/1/012091/pd <u>f</u>	UGC Care
Role of Machine Learning and Deep Learning Approaches in Designing Network Intrusion Detection System	Mr. K. N. hande	Algorithms for Intelligent Systems	2021	2524-7573	https://link.springe r.com/book/10.100 7/978-981-33- 6307-6	https://link.springer.com /chapter/10.1007/978- 981-33-6307-6_39	Springer (SCI)
Data Hiding Using Quotient Value Differencing and Remainder Value Substitution Avoiding Incorrect Extraction Problem	Mr. D. B. Khadase	Sensing and Imaging	2021	1557-2072	https://www.springer.com/journal/11	https://link.springer.com/article/10.1007/s11220-021-00360-4#citeas	Springer (SCI)



RINGWATI COLLEGE CHARLES WEEK BOOK AND THE STATE OF THE S

Harpur Nagar, Umred Road (Near Bada Tajbagh), Nagpur-24 (Approved by AICTE, New Delhi, Govt. of Maharashtra and affiliated to Rashtrasant Tukdoji Maharaj Nagpur University) Email: principalpbcoe@gmail.com, Website: www.pbcoe.edu.in

"Experimental Study on Characterization of Bitumen Mixed with plastic waste"	Dr. R.N.Patil	International Journal of Mechanical Engineering	2021	0974-5823	https://kalaharijou rnals.com/ijme.ph p	https://kalaharijournals. com/resources/SP- Vol.6_189.pdf	Scopus Index
Design and Analysis of MIMO dual band Patch antenna for 5G New Radio Applications in Mobile Terminals	Ms.T. U. Pathan	IOSR Journal of Electronics and Communicati on Engineering (IOSR-JECE)	2021	2278-2834	www.iosrjournals.o rg	https://www.iosrjournals .org/iosr- jece/papers/Vol.%2016% 20lssue%202/Series- 2/B1602020610.pdf	Scopus Index
Detection of an explosive material in landmine, aqueous and air medium through sensor operated unmnaned guided vehicle	Prof. K.D.Ganvir	IOP Conference series: Materials Science and Engineering	2021	1757-899X	https://iopscience. iop.org/	Open Access proceedings Journal of Physics: Conference series (iop.org)	Scopus Index



HAGPUR MAGPUR

Harpur Nagar, Umred Road (Near Bada Tajbagh), Nagpur-24 (Approved by AICTE, New Delhi, Govt. of Maharashtra and affiliated to Rashtrasant Tukdoji Maharaj Nagpur University) Email: principalpbcoe@gmail.com, Website: www.pbcoe.edu.in

selection of Qualitative & Quantitative Criteria weight for Selection of plant layout by using numerical Scale Method	Shailendra Daf	Science, Technology and Development	2021	0950-0707	http://journalstd.c om/VOL-10- ISSUE-12-2021/	VOLUME X ISSUE 12  2021 – Science, Technology and Development Journal (journalstd.com)	UGC Care
A Revolution: Leachate Recirculation Experimental Study	Dr. R. N. Patil	Design Engineering	2021	0011-9342	https://ores.su/en/j ournals/design- engineering- toronto/	(PDF) Design Engineering A Revolution: Leachate Recirculation Experimental Study (researchgate.net)	Scopus Index
Suspicious Mass Detection Algorithm in Mammograms	Dr. P. M. Palkar	TOJQI	2021	1309-6591	https://www.tojqi. net/index.php/jour nal	View of Suspicious  Mass Detection  Algorithms In  Mammograms  (tojqi.net)	Scopus Index
Modern Aspect on Deflorination of Water: Adsorption	A.V.Bhamb hurkar, R.N.Patil,	Design Engineering	2020	0011-9342	https://ores.su/en/j ournals/design- engineering- toronto/	https://ores.su/en/journ als/design-engineering- toronto/	Scopus Index



HANGWATI COLLEGE CHANGWATI CHANGWATI COLLEGE CHANGWATI CHANGWATI CHANGWATI COLLEGE CHANGWATI CHANGWA

Harpur Nagar, Umred Road (Near Bada Tajbagh), Nagpur-24 (Approved by AICTE, New Delhi, Govt. of Maharashtra and affiliated to Rashtrasant Tukdoji Maharaj Nagpur University) Email: principalpbcoe@gmail.com, Website: www.pbcoe.edu.in

"A New Dynamic Mathematical Modeling Approach of Zero Waste Management System"	A.V.Bhamb hurkar, R.N.Patil,	Turkish Journal of Computer and Mathematics Education,	2020	1309-4653	https://turcomat.o rg/index.php/turk bilmat	https://turcomat.org/ind ex.php/turkbilmat/article /view/11826	Scopus Index
Utilisation of agro waste in the development of fired clay bricks – a review	Arti M. Sorte, Ajay N. Burile,	Int. J. Environment and Waste Management,	2020	1478-9876	https://www.inder scienceonline.co m/journal/ijewm	https://www.inderscien ceonline.com/doi/abs/1 0.1504/IJEWM.2020.1 10400	Scopus Index
Existence of 1/sqrt(2) [y+z] - type plane gravitational waves in Bimetric Relativity	Dr.(Mrs.) S. R. Suple	Vidyabharati International Interdisciplin ary Research Journal	2020	2319-4979	https://www.viirj. org/	https://www.viirj.org/s pecialissues/SP3/SP3.h tml	UGC Care
Effect of heat treatment on the behaviour of teak wood adherends bonded joints.	Mr.S.G.Ghu gal	Applied Adhesion Science	2020	2235	Applied Adhesion Science   Home page (springeropen.co m)	https://appliedadhesion science.springeropen.c om/articles/10.1186/s4 0563-020-00124-5	Springer (SCI)



HALIGWATI COLLEGE CL. AND THE STATE OF THE S

Harpur Nagar, Umred Road (Near Bada Tajbagh), Nagpur-24 (Approved by AICTE, New Delhi, Govt. of Maharashtra and affiliated to Rashtrasant Tukdoji Maharaj Nagpur University) Email: principalpbcoe@gmail.com, Website: www.pbcoe.edu.in

Europium Doped TiO2- Heterostructure for photodegradation of Dyes.	Mr.S.G.Ghu gal	Material Science inc.Nanomate rials & polymers.	2020	2981-2984	https://chemistry- europe.onlinelibra ry.wiley.com/	https://chemistry- europe.onlinelibrary.wi ley.com/doi/10.1002/sl ct.201904150	wiley (SCI)
Green manufacturing index applicability, an approach to acquire industrial gain	Prof. K.D.Ganvir	Journal of Physics	2020	1742-6596	<u>IOPscience</u>	https://iopscience.iop.or g/article/10.1088/1742- 6596/1644/1/012050/pd <u>f</u>	Scopus Index
Generation of electric energy converted into fuel cell for operating grass cutter mechanism	Prof. K.D.Ganvir	Journal of Physics	2020	1742-6596	<u>IOPscience</u>	https://iopscience.iop.o rg/article/10.1088/1742 = 6596/1644/1/012052/p df	Scopus Index
An Arrangement and performance analytics of elements of vibration testing machine for taper roller bearing,	Prof. K.D.Ganvir	Journal of Physics	2020	1742-6596	<u>IOPscience</u>	https://iopscience.iop.o rg/article/10.1088/1742 = 6596/1644/1/012031/p df	Scopus Index



HANGWATI COLLEGE CHERNING WATER WAS A STATE OF THE STATE

Harpur Nagar, Umred Road (Near Bada Tajbagh), Nagpur-24 (Approved by AICTE, New Delhi, Govt. of Maharashtra and affiliated to Rashtrasant Tukdoji Maharaj Nagpur University) Email: principalpbcoe@gmail.com, Website: www.pbcoe.edu.in

No Suspension, No Differential 4 - WD Vehicle Analytics To Reduce Adverse Environmental Impacts.	Prof. S. P. Daf	Solid state technology	2020	0038111X.	http://solidstatetec hnology.us/	http://solidstatetechnol ogy.us/index.php/JSST/ article/view/1758	Scopus Index
Design & Validation of Feeding Mechanism for Porous Raw Material: A Case Study in Chemical Processing Company	Prof.S.P.Gu rway	IOP Conference Series: Materials Science and Engineering	2020	988 012005	<u>IOPscience</u>	Open Access proceedings Journal of Physics: Conference series (iop.org)	Scopus Index



HAGWATI COLLEGE CHERWIS

Harpur Nagar, Umred Road (Near Bada Tajbagh), Nagpur-24 (Approved by AICTE, New Delhi, Govt. of Maharashtra and affiliated to Rashtrasant Tukdoji Maharaj Nagpur University) Email: principalpbcoe@gmail.com, Website: www.pbcoe.edu.in

Optimization of Operational Method to Improve Sustainable Energy Efficiency of Auxiliaries in a CFBC Coal Fired Boiler	Prof. M.R.Moroli ya	Solid State Technology, USA	2020	0038-111X	http://solidstatetec hnology.us/	Optimization of Operational Method to improve sustainable Energy Efficiency of Auxiliaries in a CFBC coal fired Boiler- Energy Audit of Existing System   Solid State Technology	Scopus Index
Optimization study of defluoridation from water using seashell powder	Dr. Ranjit N. Patil	"Multidimens ional Role of Basic Science in Advanced Technology" ICMBAT	2019	978-0-7354- 1836-3	https://pubs.aip.or g/aip/acp/article- abstract/2104/1/03 0046/888363/Opti mization-study-of- defluoridation- from- water?redirectedFr om=fulltext	https://pubs.aip.org/aip/acp/article-abstract/2104/1/030046 /888363/Optimization-study-of-defluoridation-fromwater?redirectedFrom=fulltext https://doi.org/10.1063/1.5100473	Scopus Index



LITJSS LEERING WAGPUR

Harpur Nagar, Umred Road (Near Bada Tajbagh), Nagpur-24 (Approved by AICTE, New Delhi, Govt. of Maharashtra and affiliated to Rashtrasant Tukdoji Maharaj Nagpur University) Email: principalpbcoe@gmail.com, Website: www.pbcoe.edu.in

"Experimental study investigation of rice husk ash on concrete"	Prof. N.R.Gauta m, Dr. R.N.Patil	"Multidimens ional Role of Basic Science in Advanced Technology" ICMBAT	2019	978-0-7354- 1836-3	https://pubs.aip.or g/aip/acp/article- abstract/2104/1/03 0049/888892/Expe rimental-study- investigation-of- rice-husk- ash?redirectedFro m=fulltext	https://pubs.aip.org/aip/acp/article-abstract/2104/1/030049/888892/Experimental-study-investigation-of-rice-husk-ash?redirectedFrom=fulltexthttps://doi.org/10.1063/1.5100476	Scopus Index
Analysis of the Behavior of High-Rise Structures with Viscoelastic Dampers Installed at Various Locations	Snehal N.Raut,Roh an M.,A.Jain,V .Mehta	Advances in Intelligent Systems and Computing	2019	2194-5365	https://link.springe r.com/book/10.100 7/978-981-13- 1966-2	https://link.springer.co m/chapter/10.1007/978 -981-13-1966-2_16	Springer (SCI)
"Analysis and Characterizations of Modified Caesalpinia Bonduc (MCB) Seed Coat in the Process of Defluoridation"	R.N.Patil, P.B.Nagarn aik, B.J.Godbole	Smart Technologies for Energy, Environment and Sustainable Development	2019	2522-5022	https://link.springe r.com/chapter/10.1 007/978-981-13- 6148-7_43	https://dokumen.pub/sm art-technologies-for- energy-environment- and-sustainable- development-select- proceedings-of-icsteesd- 2018-1st-ed-978-981-13- 6147-0978-981-13-6148- 7.html	SCI



HAGPUR MATI COLLEGE OF THE SHARE WAS THE WAS THE SHARE WAS THE SHARE WAS THE SHARE WAS THE SHARE WAS THE WAS THE SHARE WAS THE SHARE WAS THE WAS

Harpur Nagar, Umred Road (Near Bada Tajbagh), Nagpur-24 (Approved by AICTE, New Delhi, Govt. of Maharashtra and affiliated to Rashtrasant Tukdoji Maharaj Nagpur University) Email: principalpbcoe@gmail.com, Website: www.pbcoe.edu.in

Seismic Analysis of Multistorey SMRF Building in Zone III and Zone V	Mr.Nitesh B.Thikare, Ms.Payal K.Jayswal, Mohammad Parvej Alam, Abhishek Kumar Singh, Nikhil Bajpayee	Journal of Advanced Research in Dynamical & Control Systems	2019		http://jardcs.org/	http://jardcs.org/archive sview.php?volume=1&iss ue=4&page=6	Scopus Index
Structural and morphological characterization of mixed spinel nano ferrites and CaW nano hexaferrite	Dr. (Mrs) A. R. Golhar	International Journal of Current engineering and scientific research	2019	2393-8374	http://troindia.in/j ournal/ijcesr/inde x.html	http://troindia.in/journal /ijcesr/vol6iss1part3/370 -376.pdf	Scopus Index
Molecular Docking Technique Assisted Discovery of Some Hydroxylated Chalcone Molecules as αglucosidase Inhibitors"	Dr.A.C. Haldar	Research Reviews: A Journal of Drug Design Discovery,	2019	2349-9036	https://pharmajou rnals.stmjournals. in/index.php/RRJ oDDD/index	https://pharmajournals.s tmjournals.in/index.php/ RRJoDDD/article/view/23 8	Scopus Index



HAGWATI COLLEGE CHERWIS

Harpur Nagar, Umred Road (Near Bada Tajbagh), Nagpur-24 (Approved by AICTE, New Delhi, Govt. of Maharashtra and affiliated to Rashtrasant Tukdoji Maharaj Nagpur University) Email: principalpbcoe@gmail.com, Website: www.pbcoe.edu.in

#### NAAC Accredited

ProteinTyrosine Phosphatase1B (PTP1B) Inhibitory Perspectives of Hydroxylated Chalcones: Exploration through Docking Studies"	Dr.A.C. Haldar	Research Reviews: A Journal of Bioinformati cs	2019	2393-8722	https://stmjournal s.com/Journal-of- Bioinformatics.ht ml	https://techjournals.stmj ournals.in/index.php/RRJ oBI/article/view/307	Scopus Index
Hydroxylated Chalcone Derivatives as Future Aldose Reductase Inhibitors: Discovery through Docking Technique"	Dr.A.C. Haldar	Research Reviews: Journal of Computation al Biology	2019	2319-3433	https://medicaljou rnals.stmjournals. in/index.php/RRJ oCB	https://medicaljournals.s tmjournals.in/index.php/ RRJoCB/article/view/657	Scopus Index
Exploring the antibreast cancer (against MCF7 Cell Line) potentials of uracil substituted hippuric acid based 1,3,4 thiadiazole compound	Dr.A.C. Haldar	International journal of pharmacy life sciences	2019	0976-7126	http://www.ijplsjo urnal.com/issues. html	http://www.ijplsjournal.c om/issues%20PDF%20fil es/2019/January- 2019/2.pdf	Scopus Index



LTJSS LTJSS

Harpur Nagar, Umred Road (Near Bada Tajbagh), Nagpur-24 (Approved by AICTE, New Delhi, Govt. of Maharashtra and affiliated to Rashtrasant Tukdoji Maharaj Nagpur University) Email: principalpbcoe@gmail.com, Website: www.pbcoe.edu.in

#### NAAC Accredited

Design of Dual Antenna Passive Repeater based Machine Learning	Dr. P.R. Bokde	IOSR Journal of Engineering	2019	2278-8719	http://www.iosrjen .org/	http://iosrjen.org/Papers /Conf.ICMPIR- 2019/Volume- 5/10,%2036-41.pdf	Scopus Index
Exploring the antiinflammatory potentials of N ((5(((1,3dioxoisoindolin2yl) methyl) amino)1,3,4 thiadiazol2yl)methyl) benzamid	Dr.A.C. Haldar	Drug discovery	2018	2278-540X	https://www.disco veryjournals.org/dr ugdiscovery/index. htm	http://www.discoveryjo urnals.org/drugdiscover y/current_issue/2018/A 6.pdf	UGC Care





Harpur Nagar, Umred Road (Near Bada Tajbagh), Nagpur-24 (Approved by AICTE, New Delhi, Govt. of Maharashtra and affiliated to Rashtrasant Tukdoji Maharaj Nagpur University) Email: principalpbcoe@gmail.com, Website: www.pbcoe.edu.in

#### NAAC Accredited

Uracil Substitution on a Hippuric Acid Containing 1,3,4thiadiazole Scaffold: The Exploration of the AntiHyperglycaemic Potential	Dr.A.C. Haldar	International Journal of Medical Science in Clinical Research and Review	2018	2581-8945	https://ijmscrr.in/i ndex.php/ijmscrr/is sue/view/2	https://ijmscrr.in/index. php/ijmscrr/article/vie w/6/6	UGC Care	
--	-------------------	--	------	-----------	---	---	-------------	--

**Principal** 





Harpur Nagar, Umred Road (Near Bada Tajbagh), Nagpur-24
(Approved by AICTE, New Delhi, Govt. of Maharashtra
and affiliated to Rashtrasant Tukdoji Maharaj Nagpur University)
Email: principalpbcoe@gmail.com, Website: www.pbcoe.edu.in

NAAC Accredited

#### **↓** Industry:

- ✓ The students from the institution have undertaken industrial-based projects in collaboration with industries. These projects offer practical exposure, industry insights, and the opportunity to apply academic knowledge to real-world problems.
- ✓ The various department of PBCOE arrange the Industrial visit for practical Explorer to students.
- ✓ In order to bring Industry, Academia & Entrepreneur together on the same platform and to discuss the issue for better understanding, PBCOE, Nagpur is organising a conclave for Academia Industry & Entrepreneur (IAE CONCLAVE 2022)
- ✓ The III Cell & T& P Cell organised various seminar and Workshop of industrial personal for industry ready students.



# Priyadarshini Bhagwati College of Engineering

Harpur Nagar, Umred Road, Nagpur

"INDUSTRY ACADEMIA &

**ENTREPRENEURSHIP** 

CONCLAVE - 2022"

IAE Conclave-1<sup>st</sup> Edition
Date: 28<sup>th</sup> -29<sup>th</sup> September 2022



Organized By:
Industry Institute Interaction Cell &
Entrepreneurship Development Cell
Priyadarshini Bhagwati College of
Engineering

Harpur Nagar, Umred Road, Nagpur-440024

ABOUT THE COLLEGE:

Priyadarshini Bhagwati College of Engineering was established in the academic year 2007 and is one among the fast-growing technical institute in the region with a view to impart high quality technical education to the engineering aspirants. The college is set up on 06 acres land situated well within the heart of Nagpur city at harpur nagar on the main umred road, at a distance of only 5 - 6 kms from railway station and 2.5 kms from bus stand. It is well connected by rail, road and air routes. The college is well equipped with all kind of necessary infrastructure and qualified and dedicated faculties. This technical institute believes in providing high quality technical education with a focus on ethical values. There is consistent effort to provide the technocrats thorough technical knowledge along with social awareness.

#### ABOUT THE CONCLAVE:

In order to bring Industry, Academia & Entrepreneur together on the same platform and to discuss the issue for better understanding, PBCOE, Nagpur is organising a conclave for Academia Industry & Entrepreneur interface. Priyadarshini Bhagwati College of Engineering, Nagpur Maharashtra invites all the students, research scholars and youth Entrepreneur across the globe to the "Industry Academia & Entrepreneurship Conclave - 2022" (IAE Conclave-1st Edition) during 28th -29th September 2022.

#### **OBJECTIVE:**

The main objective of Conclave is to create an interface between Industries and Academia (Researchers and Students) for interaction, transfer of knowledge, experience and technology. It will also help to understand the Issues and Challenges faced by the industry, develop feasible workable solutions and enhance the employability of the students by developing a bridge between the basic needs of industries and expertise of academics. It will identify the mentors for promoting and nurturing entrepreneurs and also address the problems of entrepreneurs and Research and Development needs. This platform will Apprise Infrastructural and research facilities provided by various government institutions.

#### CHIEF PATRONS

Hon'ble Dr. Satish Chaturvedi, Chairman, LTJSS, Nagpur Hon'ble Smt. Abha Chaturvedi, Secretary, LTJSS, Nagpur Hon'ble Shri. Dushyant Chaturvedi, Director (GB), LTJSS, Nagpur Hon'ble Smt. Sheetal Chaturvedi, Member (GB), LTJSS, Nagpur Hon'ble Shri. Abhijeet Deshmukh, Director, LTJSS, Nagpur

**PATRONS** 

**Dr.V. M. Nanoti,** Director (Engineering), LTJSS, Nagpur.

Dr. M. P. Singh,

Dean Academics and P & D (LTJSS), Nagpur.

Dr. V. K. Sunnapawar. Principal, LTCOE, New Mumbai

Dr. S. A. Dhale, Principal, PCE, Nagpur.

Dr. A. M. Shende, Principal, PJLCOE, Nagpur.

#### PROGRAM CHAIR

Dr. N. K. Choudhari, Principal, PBCOE, Nagpur. PROGRAM CO-CHAIR

**Dr. (Mrs.) A. R. Chaudhari** Dean Academic & IQAC Coordinator

CONVENER

Dr. S. P. Daf

III Cell Coordinator, PBCOE, Nagpur

Dr. A. D. Anjikar

ED Cell Coordinator, PBCOE, Nagpur ORGANIZING COMMITTEE:

#### Chaudhari II O D (IT)

Dr. M. S. Chaudhari H.O.D (IT)

Dr. R. N. Patil H.O.D (Civil)

**Dr. (Ms.) D. M. Kate** H.O.D (EC)

Prof. K. N. Hande H.O.D (CSE)

Prof. S. M. Pimpalgaonkar H.O.D (Mech.)

Dr. P. M. Palkar, In-charge (Training & Placement)

Mr. Y. B. Malode (III Cell Member, PBCOE)

Mr. N. B. Thikare (ED Cell Member, PBCOE)

Dr. (Ms.) A. P. Thakare (III Cell Member, PBCOE)
Ms. R. D. Shinganjude (ED Cell Member, PBCOE)

#### IMPORTANT DATES:

Registration Starts From : 19 Sep 2022

Last Date for Registration : 27 Sep 2022

Date of Conclave : 28 & 29 Sep 2022

#### CONCLAVE REGISTRATION:

- Students, Research Scholar and Entrepreneur can register:
- Registration Link:

https://forms.gle/1vmksNgnqfgKszgW9



- **↓** Scan above QR code for registration.
- **↓** Conclave Registration Charges:

Category of	Registration Charges
<b>Participation</b>	(Rs.)
Students /	100
Research Scholar	
Entrepreneur	200

#### MODE OF PAYMENT: ONLINE TRANSFER

Account Name: Priyadarshini Bhagwati

**College of Engineering** 

Account Number : 0354010105928062

Bank : Punjab National Bank

Branch : Nandanvan, Nagpur

IFSC Code : **PUNB0460800** 

#### RESOURCE PERSONAL:



Dr. Vivek Nanoti
Director (Engineering)
LTJSS, Nagpur
Plenary Session:
"Opportunities & Challenges for

Engineering Graduate in Industry"



Dr. C. C. Handa
Professor
KDKCOE, Nagpur
Keynote address:
"The dream World of
Entrepreneur"

Panel Discussion: "Expectation of Industry from Engineering graduate"



Mr. Amol Hadke
Director 3H System Private
limited, Nagpur

Mr. Kaushik Chakraborty

Head Equipment OEM

Diffusion Engineers limited,

Nagpur



Mr. Ram Lagad
Dy. General Manager
Bajaj Steel Industries
Limited, Nagpur



**Dr. N. K. Choudhari**Principal, PBCOE, Nagpur



Mr. Nitin Bagokar
Vice President,
Bajaj Steel Industries Limited, Nagpur
Plenary Session:
"Strategies for Carrier

"Strategies for Carrier Growth in Industry"



Mr. Suvidh Fadanvish
Corporate & Entrepreneurship
Development Trainer.
Plenary Session:
"Scheme & Funding by
Government for Start-up"

#### Success story by Entrepreneur



Mr. Harish Adatiya
Founder & CEO - Airavat Corporate
Services, Nagpur



Mr. Dhiraj Agashe
Director
Apps n Webs Pvt. Ltd.



Mr. Samyak Agarkar
MD & CEO
Agarkar Media Pvt. Ltd, Nagpur



Mr. Palash Sawarkar & Mr. Shubham Bagade Founder of PSB Industries, Nagpur

#### For More Detail Contact:

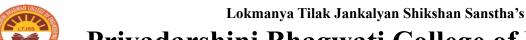
Dr. S. P. Daf (9665087710)

III Cell Coordinator

Dr. A. D. Anjikar (9923290988)

**ED Cell Coordinator** 

Priyadarshini Bhagwati College of Engineering Harpur Nagar, Umred Road, Nagpur, Maharashtra 440024







Harpur Nagar, Umred Road, Nagpur, Maharashtra 440024

Industry Institute Interaction Cell & Entrepreneurship Development Cell organize

#### "INDUSTRY ACADEMIA & ENTREPRENEURSHIP

**CONCLAVE - 2022"** 

#### **IAE Conclave-1st Edition**

Date: 28<sup>th</sup> -29<sup>th</sup> September 2022 Program Schedule

Day-1 28 <sup>th</sup> September 2022 Wednesday				
	Inauguration			
	-: Chief Guest :-			
1:00AM to 12:00 Noon	Dr. C. C. Handa			
	Professor			
	KDKCOE, Nagpur			
	Keynote address of			
	Dr. C. C. Handa			
2:00 Noon to 01:00 PM	Professor			
2.00 110011 to 01.00 1 111	KDKCOE, Nagpur			
	Topic: "Industry Academia & Entrepreneurship			
01:00 PM to 02:00 PM	Break			
	Plenary Session of			
	Mr. Nitin Bagokar			
02:00 PM to 03:00 PM	Vice President,			
	Bajaj Steel Industries Limited, Nagpur			
	Topic: "Strategies for Carrier Growth in Industry"			
03:00 PM to 03:15 PM	Break			
	Panel Discussion: "Expectation of Industry from			
	Engineering graduate"			
	Mr. Kaushik Chakraborty			
	Head Equipment OEM,			
	Diffusion Engineers limited, Nagpur			
	Mr. Nitin Bagokar			
03:15 PM to 04:45 PM	Vice President,			
00.10 1 W1 W UT.TO 1 W1	Bajaj Steel Industries Limited, Nagpur			
	Mr. Amol Hadke			
	Director			
	3H System Private limited, Nagpur			
	Mr. Ram Lagad			
	Dy. General Manager			
	Bajaj Steel Industries Limited, Nagpur			

	<b>Dr. N. K. Choudhari</b> Principal, PBCOE, Nagpur	
Day-2	29 <sup>th</sup> September 2022 Wednesday	
	Plenary Session of	
	Dr. Vivek Nanoti	
	Director (Engineering)	
11:00 AM to 12:00 Noon	LTJSS, Nagpur	
	Plenary Session:	
	Topic: "Opportunities & Challenges for Engineering	
	Graduate in Industry"	
12:00 PM to 12:15 PM	Break	
	Plenary Session of	
	Mr. Suvidh Fadanvish	
12:15 PM to 1:15 PM	Corporate & Entrepreneurship Development Trainer	
	Plenary Session:	
	Topic: "Scheme & Funding by Government for Start-up	
01:15 PM to 02:00 PM	Break	
	Success story by Entrepreneur	
	Mr. Harish Adatiya	
	Founder & CEO - Airavat Corporate Services, Nagpur	
	Mr. Dhiraj Agashe	
	Director	
02:00 PM to 03:00 PM	Apps n Webs Pvt. Ltd.	
	Mr. Samyak Agarkar	
	MD & CEO	
	Agarkar Media Pvt. Ltd, Nagpur	
	Mr. Palash Sawarkar & Mr. Shubham Bagade	
	Founder of PSB Industries, Nagpur	
	Validatory Function -: Chief Guest :-	
03:15 PM to 04:15 PM	-: Chief Guest :- Dr. M. P. Singh	
	Dr. M. P. Singh Dean Academics and P & D (LTJSS), Nagpur	
	Dean Academics and Let 1353, Nagpul	



Harpur Nagar, Umred Road (Near Bada Tajbagh), Nagpur-24 (Approved by AICTE, New Delhi, Govt. of Maharashtra and affiliated to Rashtrasant Tukdoji Maharaj Nagpur University) Email: principalpbcoe@gmail.com, Website: www.pbcoe.edu.in



NAAC Accredited

#### Academic session 2022-23 Report on "IAE Conclave 2022"

1. Event Title

"Industry Academia & Entrepreneurship Conclave - 2022"

2. Event Date and time

: 28<sup>th</sup> -29<sup>th</sup> September 2022

Event venue

: Seminar Hall (First Floor)

Event resource person

: Dr. C. C. Handa, Professor, KDKCOE, Nagpur

Dr. Vivek Nanoti Director (Engineering) LTJSS

Mr. Kaushik Chakraborty, OEM, Diffusion Engineers limited, Nagpur

Mr. Nitin Bagokar, VP, Bajaj Steel Industries Limited, Nagpur Mr. Amol Hadke, Director, 3H System Private limited, Nagpur

Mr. Ram Lagad, Dy. GM, Bajaj Steel Industries Limited, Nagpur Mr. Harish Adatiya, Founder & CEO - Airavat Corporate Services.

Mr. Dhiraj Agashe, Director, Apps n Webs Pvt. Ltd

Mr. Samyak Agarkar, MD & CEO, Agarkar Media Pvt. Ltd, Nagpur

Mr. Palash Sawarkar & Mr. Shubham Bagade, Founder of PSB

Industries, Nagpur

5. Name of Event Coordinator

: Dr. S.P.Daf, III Cell Incharge,

Dr. A. D. Anjikar ED Cell Incharge

Number of students

7. Objective

: to bring Industry, Academia & Entrepreneur together on the same

platform and to discuss the issue for better understanding.

8. Outcome

: Conclave is to create an interface between Industries and Academia

(Researchers and Students) for interaction, transfer of knowledge, experience and technology. It will also help to understand the Issues and Challenges faced by the industry, develop feasible workable solutions and enhance the employability of the students by developing a bridge between the basic needs of industries and expertise of academics. It will identify the mentors for promoting and nurturing entrepreneurs and also address the problems of entrepreneurs and Research and

Development needs. This platform will Apprise Infrastructural and research facilities provided by

various government institutions.

Dr. A. D. Anjikar

**ED Cell Incharge** 

III Cell Incharge

Dr. N. K. Choudhari
Principaled Commission Bhaghrine Called Commission Commis Umred Road, Na

#### Photograph









# Academic session 2022-23 "IAE Conclave 2022"

**Photograph** 















#### Sandip Ghugal <ghugalsandip@gmail.com>

#### **Industrial Visit Permission letter**

Bute R.S (Training & Development) < Rameshwar. SureshBute@ashokleyland.com>

Tue, Sep 6, 2022 at 4:37 PM

To: Sandip Ghugal <ghugalsandip@gmail.com>

Cc: "Dr. Rachana S. Mittal (HR)" < Mittal.RS@ashokleyland.com>, "Arvind Boradkar (Head- HR & L&D)"

<Arvind.Boradkar@ashokleyland.com>, "Joshi S B (DGM - Operations, Bhandara)" <Joshi.SB@ashokleyland.com>

Dear Sir,

With reference to your request letter for industrial visit at Ashok Leyland Ltd Bhandara, and our telephonic discussion, subject visit is

approved by company authority.

May pl. find details of industrial visit as below.

Date of Visit- 14.09.2022

**Time of reporting** – 10.00 am (Industrial Visit time 10.15am -2.00pm)

Nos of visitors – 30 (students), 5 (Faculty members)

All visitors to follow safety instruction given by respective staff/instructor also to wear shoes and college uniform if any.

#### Regards

#### Rameshwar S Bute

Dy. Manager (Training & Development)

#### **Ashok Leyland Limited**

M +91 7720050572 +91 7020041895

bute.alb@ashokleyland.com | W www.ashokleyland.com

1, MIDC, Gadegaon, Bhandara, Maharashtra - 441904



From: Sandip Ghugal <ghugalsandip@gmail.com>

Sent: 12 August 2022 10:18

To: Bute R.S (Training & Development) < Rameshwar. SureshBute@ashokleyland.com>

**Subject:** Industrial Visit Permission letter

CAUTION: This email originated from outside your organization. Exercise caution when opening attachments or clicking links, especially from unknown senders.

[Quoted text hidden]

The information contained in this communication is privileged, confidential and proprietary, and is intended for the sole use of/by the addressee. Usage by anyone other than the addressee is misuse and infringement to Proprietorship of Ashok Leyland Ltd. If you are not the intended recipient, you are hereby notified that any dissemination, distribution or copying of this email or any action or omission taken by you in reliance on it, is strictly prohibited and may be unlawful. If you have received this email in error, please contact the sender by reply mail and destroy all copies of the original message.

# PRIYADARSHINI BHAGWATI COLLEGE OF ENGINEERING, NAGPUR Mechanical Engineering Department

Date: 15/09/2022

#### Industrial Visit Report

Priyadarshini Bhagwati college of Engineering, Nagpur focuses on the overall development of the students by introducing co-curricular activities like industrial visits along with rigorous academic curriculum.

This time Mechanical Engineering Department arranged Industrial Visit at Ashok Leyland Ltd.Bhandara. on date 14 Sep 2022 for VII Semester students. Students were enlightened about the actual implementation of the theories in their regular curriculum. The student-employee interaction further developed greater sense of enthusiasm between both.

The visit was organized under the guidance of Hon. Principal Dr. N K Choudhari and HOD of Mechanical Department Prof S. M. Pimpalgaonkar. Along with the staff members, students have taken hard efforts and initiative under the continuous guidance of visit incharge Prof. S.G. Ghugal and Prof. A. B. Ganorkar teaching faculty of Mechanical Department accompanied with this industrial visit.

Total 30 students of 7th sem B.E. (M.E.) along with 2 faculty members have joined this industrial visit.

It was a good experience, which has provided exposure to the students with industrial life. The students are benefited in terms of the technical details provided by the company on an important part of automobile.

The students of 7th Sem and all the staff members have enjoyed the technical endeavor at the organizations a lot. The company persons also appreciated our students after the question answer sessions. Visit seems to be very informative and gives good learning experience.

No.of students visited: 30

No.of Faculties: 02

Date of Visit: 14/09/2022.

Industrial Visit in-charge;

Prof.S.G.Ghugal.

Privadarshini Bhagwati College of Engg.

Umred Road Manner

Prof S. M. Pimpalgaonkar

+H.O.D (Mech Engg De Head

Priyadarshini Bhagwati College of Engs Umred Road, Nagpur,







# PRIYADARSHINI BHAGWATI COLLEGE OF ENGINEERING

Harpur Nagar, Umred Road (Near Bada Tajbagh), Nagpur-24 (Approved by AICTE, New Delhi, Govt. of Maharashtra and affiliated to Rashtrasant Tukdoji Maharaj Nagpur University) Email: principalpbcoe@gmailcom, Website: www.pbcoe.edu.in NAAC Accredited



# Department of Training and Placement Cell

Academic session 2022-23

## Report on CRT Orientation Program

1. Event Title

: CRT Orientation Program by Ownprep Pvt. Ltd.

Event Date

: 09 Mar 2023 (Thursday)

3. Event conduction duration

: 11:30 am to 02:00 pm

Event venue

: Auditorium, PBCOE

Event resource person

: Mr. Ashish Divan, Ms. Poonam Vaidhya

6. Name of Event Coordinator : Dr. P M. Palkar, TPO, PBOCE

7. Number of students

: 127 from all branches

8. Objective

: To motivate students about importance of CRT training.

Outcome

: Students understood the importance of CRT in their academic.



TPO

Dr. Mrs A R Chaudhari **IQAC Coordinator** 

MAC Coordinator

Privedarshiri Bhagwati College of Enge Umred Road, Nanpur

Dr. N. K.Choudhari Principal

Priyadarshini Bhagwati College of Engg. Umred Road, Nagpur.





## PRIYADARSHINI BHAGWATI COLLEGE OF ENGINEERING

Harpur Nagar, Umred Road (Near Bada Tajbagh), Nagpur-24 (Approved by AICTE, New Delhi, Govt. of Maharashtra and affiliated to Rashtrasant Tukdoji Maharaj Nagpur University) Email: principalphcoe@gmail.com, Website: www.pbcoe.edu.in



#### NAAC Accredited

# Department of Training and Placement Cell

Academic session 2022-23

## Report on CRT Orientation Program

1. Event Title : CRT Session by Ownprep Pvt. Ltd. 2. Event Date

: 21 March 2023 (Tuesday)

Event conduction duration : 02:00 pm to 04:00 pm

4. Event venue : Seminar Hall, First Floor, PBCOE

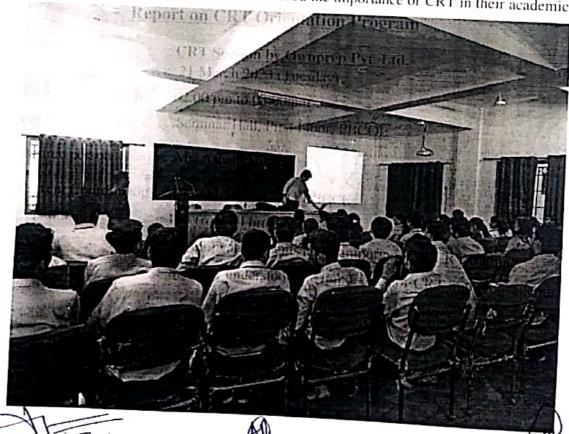
Event resource person : Mr. Ashish Divan

6. Name of Event Coordinator : Dr. P M. Palkar, TPO, PBOCE

7. Number of students : 150 from all branches

8. Objective : To motivate students about importance of CRT training.

Outcome : Students understood the importance of CRT in their academic.



M. Palkar TPO

Dr. Mrs A R Chaudhari **IQAC** Coordinator

IQAC Coordinator Priyadarshini Bhagwati College of Engq. Umred Road, Nagpur,

Dr. N. K.Choudhari Principals!

Privadarshini Bhagweti Cullege of Engg. Umred Road, Nagpur





Harpur Nagar, Umred Road (Near Bada Tajbagh), Nagpur-24
(Approved by AICTE, New Delhi, Govt. of Maharashtra
and affiliated to Rashtrasant Tukdoji Maharaj Nagpur University)
Email: principalpbcoe@gmail.com, Website: www.pbcoe.edu.in
NAAC Accredited



## **Industry Instituted Interaction Cell**

PBCOE/RC/2021-22/02

Date: - 07/02/2023

#### **NOTICE**

All the 8<sup>th</sup> semester students of Computer Science Engineering and Information Technology are hereby informed that Industry Instituted Interaction Cell (III Cell) has organized Seminar on "Cloud Technology and Information Security and Its Future Opportunities" which will be delivered by Mr. Anil Tatode Training Officer Dept. of Robotics & Cloud, RTMNU, Nagpur

Date: 09th February 2023 (Thursday)

Time: 11:30 am

Venue: Seminar Hall

1st floor PBCOE

Dr. S. P. Daf

III Cell Incharge

Dr. N. K. Choudhari

**Principal** 

Copy to:-

1) Dean Academic

2)H.O.D CSE ( for display on notice board and Circulation )

3)H.O.D IT ( for display on notice board and Circulation )



#### PRIYADARSHINI BHAGWATI COLLEGE OF ENGINEERING

Harpur Nagar, Umred Road (Near Bada Tajbagh), Nagpur-24 (Approved by AICTE, New Delhi, Govt. of Maharashtra and affiliated to Rashtrasant Tukdoji Maharaj Nagpur University) Email: principalpbcoe@gmail.com, Website: www.pbcoe.edu.in



## NAAC Accredited

#### **Industry Institute Interaction Cell** Academic session 2022-23

#### Seminar Report on "Cloud Technology & Information Security and It's Future Opportunities"

1. Event Title

: Seminar on "Cloud Technology & Information Security and It's

Future Opportunities"

2. Event Date and time

: 9th February 2023 11:30 am

3. Event venue

: Seminar Hall (First Floor)

4. Event resource person

: Mr. Anil Tatode, Training office,

Department of Robotics & Cloud Technology, RTMNU, Nagpur.

5. Name of Event Coordinator : Dr. S.P.Daf, III Cell Incharge

6. Number of students

: 110

7. Objective

: To acquire the knowledge by students to reduce the gap between It

industry and academic.

8. Outcome

: Skill development is an important driver for Students to achieve

their goal. By this seminar students are well aware about Cloud Technology & Information Security

and It's Future Opportunities skill required in industry.

**III Cell Incharge** 

Dr. (Mrs.) A. R. Chaudhari

**IQAC** Coordinator

IQAC Coordinator

Priyadarshini Bhagwati College of Engg. Umred Road, Nagpur.

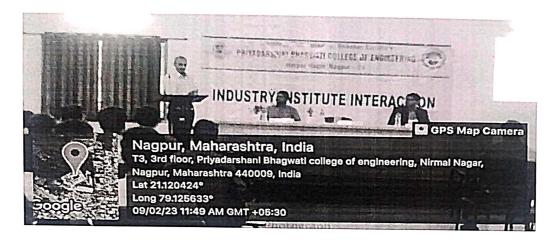
Dr. N. K. Choudhari

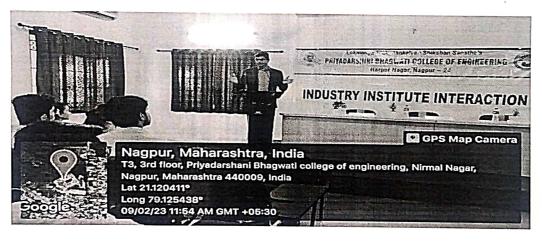
Principal

Priyadarshini Bhagwati College of Engl

Umred Road, Nagpur.

Photograph





0



## PRIYADARSHINI BHAGWATI COLLEGE OF ENGINEERING HARPUR NAGAR,UMRED ROAD NAGPUR

## **Industry Institute Interaction Cell**

Date: 10/02/2023

#### Seminar Report

The Industry Institute Interaction (III) Cell of Priyadarshini Bhagwati College of Engineering, Nagpur organized seminar on "Cloud Technology & Information Security and It's Future Opportunities" on dated 9<sup>th</sup> February 2023. The seminar was delivered by Mr. Anil Tatode, Training office, Department of Robotics & Cloud Technology, RTMNU, Nagpur. Near about 100 Final year students from Computer Science Engineering & Information Technology department attended the seminar. The speaker Mr. Anil Tatode addressing the students about Cloud Technology & Information Security and It's Future Opportunities the skill that are required in IT industry and how these skill are to be acquire to interface the industry. On this occasion Principal Dr. N. K. Choudhari express his view on importance these emerging IT trend and it's Future Opportunities for the students.

The seminar was organized under the guidance of Hon'ble Principal Dr.N.K.Choudhari, Dean Academics Dr. (Mrs.) A.R.Chaudhari and all the HOD from various department. Students have worked hard for the success of the program. The program was coordinated by Prof. S.P.Daf III Cell Incharge.

Dr. S. P. Daf

III Cell Incharge

Copy to:

1. Principal, PBCOE.

2.Dean Academics, PBCOE.



## PRIYADARSHINI BHAGWATI COLLEGE OF ENGINEERING

Harpur Nagar, Umred Road, Nagpur-440 024 (India) Tel.: +91-712-2710281, 82 Fax: +91-712-2710283

Email: principalpbcoe@gmail.com Website: www.bcce.ltjss.net



PBCOE/III Cell/ 2022-23/

#### Invitation

Date: 03/02/2023

To,

Mr. Anil Tatode

Training office,

Department of Robotics & Cloud Technology,

RTMNU, Nagpur

Dear Sir

On behalf of Industry Institute Interaction Cell of Priyadarshini Bhagwati College of Engineering, Nagpur, We take great pleasure in inviting you as a Guest Speaker in Seminar on "Cloud Technology & Information Security and It's Future Opportunities" dated on 9<sup>th</sup> February 2023. Your experience and knowledge will make a most valued contribution in seminar.

Thank You!

Decephen Library

Dr. N. K. Choudhari Principal



#### PRIYADARSHINI BHAGWATI COLLEGE OF ENGINEERING

Harpur Nagar, Umred Road, Nagpur-440 024 (India) Tel.: +91-712-2710281, 82 Fax: +91-712-2710283

Email: principalpbcoe@gmail.com Website: www.bcce.ltjss.net



PBCOE/ III Cell/2022-23/

Date: 09/02/2023

To,

Mr. Anil Tatode
Training office,
Department of Robotics & Cloud Technology,
RTMNU, Nagpur

Received

## Letter of Gratitude

On behalf of Industry Institute Interaction Cell of Priyadarshini Bhagwati College of Engineering, Nagpur, we are thankful to you for accepting our invitation and delivering the seminar on "Cloud Technology & Information Security and It's Future Opportunities" on dated 9<sup>th</sup> February 2023. This session was very useful for student's future endeavours.

Thank You!

Dr. N. K. Choudhari

Principal

## HARPUR NAGAR,UMRED ROAD NAGPUR **Industry Institute Interaction Cell**

#### Attendance sheet

Name of Event: Seminar on "Cloud Technology & Information Security and It's Future Opportunities"

Date of Event: 09/02/2023

Sr. No.	Name of Students	Sem & Branch	Signature
1.	Brachiti. S. Hole	6th Sem (IT)	Bhole
2.	Brazakta. P. Dhore	6th Sem (IT)	- the state of the
3.	Ankita Glomkan	6th Sem( DT)	ACHOMKON,
4.	Shraddha khonde	6th sem(IT)	Dehonde.
5 ·	shrutika lajurkar	6th sem (#T)	
6.	Jshika S. Ukey	8"sem((se)	Ishitoukey.
7.	Gausi Atilkar	strem (cse)	Atikor.
8 9.	Chaitanya janbandh	4 8th Sem ((SE)	cuj
Ğ.	Diyani Novjern Mandpati	8th Sem(CSt)	Doly 90
10.	Dhanasheel Sudhakar lokhon	le 8th SEM (CSE)	
11.	Likhita Dhansaj Wanjari	8th SEM (CSE)	
12.	Riya Ganesh Bansod	8th sem (IT)	Rya
13	mohini Ganpat Raut	8th som (IT)	(M)Raut.
14	Valshoravi Nahush Helwatka	r 6th sem (IT)	Thelisako
15	Bravana Fotwari	6th Seu (IT)	Olus
16.	Sayali Bobhate.	6th sem (IT)	Sbobhate
17 .	Divea. D. Janbardhu	6th sem(IT)	B. Danha
18.	Seight IV. Shinde	6th sem(IT)	Chindo
19.	Ankita I. Tarile	(the senter)	Parily
20.	MAIDA HI D. CHAHANDE	Gth (Sens (TT)	Dogolatie
<del>ર</del> ા	Siddhi M. Ghesekar	(C) 1 2 2 100 / 25 - 1	OLD .
22	Ankita N. Nademwar	6th Sem (IT)	eguleita.
23	Sonali Co. Meshoum	6. sem(IT)	(Dom)
24	RiteSh H. Khalekar	Gth Sen(171)	Madeler
5	Nihal Dise	Ath central	
6	Nihal Krukade	8th Sen ME	10
7	Piyush Gordone	8th Su(1/2)	03
3	Anuradha Aote	8th sem(IT)	Amuadher -
0	laya Bharantan	8 th Sem (IT)	March
O	Mounali Jadhar	8th Sem(It	1 41 11
1	Siddhi Joshi	oth	) Had
2	Sgial Manmode	8th sem (CSE)	Jasu.
3	Shruti Shaharu	6th Sem(IT) 6th Sem (IT)	Omoumoels h hama
4	( - : 1 - 6 1 / 1 / 6		
2	Tejos IKha	8m Sem (MC)	Ambigar QiK

HARPUR NAGAR,UMRED ROAD NAGPUR

## **Industry Institute Interaction Cell**

#### Attendance sheet

Name of Event: Seminar on "Cloud Technology & Information Security

and It's Future Opportunities"

Date of Event: 09/02/2023

Sr. No.	Name of Students	Sem & Branch	Signature
1.	Mrunali Urade	8th CsE	Dinale.
	Yashasni Chilankar	8th sem (cse)	) Opilarla
3.	Akanksha 1. Sawai	6th sem CSE	1 2
	Sakshi Kamble	6th sem CSE	
5.	Branay. R. Chowelkeni	6h Sem JT	Plan
6.	Dipak B. Majoikar	6th Sem IT	Dirk
1)	Agushal 3. Lande	6 Fron IT	1
_8)	Sahil .S. Dukre	6th Som IT	There
회	Schil S. Rangari	6 <sup>th</sup> sem IT	Sahil -
10]	Prasad Pusadkar	II sen II	Thioday
114	Puem Thepale	6th Sent I'T	Q (25)
12]	Prajual wankhede	6th Son IT	
43)	Chicag wadyalkar	6th Em It	
14]	Manchal Janbandhu	6 HD Sem IT	(Meuchey
15-7	Lokesh Borde		Parcon
[6]	Adito Giri	Gin Sem IT	ACC 11-10
17]	Nitash Bhat	8th Sem IT	
18]	Sogar Levele	6th Sem IT	
CA	Sogar Levele Pruvin Ghull		Palm
	Keshav Lichade	goth Se mc Cal	Wihuele
2+5	Rushikesh Bookas	8th Sem CSE	Borkus
/ ~	Deep Nikode	8th sem CSE	Abulata.
23)	Aman Punekar	8th sem CSE	Of R
24)	Astik Sayane	8th Sem CSE -	Acroni.
~	Teps Winthad	8th Sem (SE)	Tre compose
26>	Kaustubh Dharmaze	8th Sem (SE	K. Dharmase.
TFG	Kaurak. D. Modak	gin lam Cat	Prwak
287	Aryali M. Vaidy v	8-1426W CZE	A vaidya
	Rashmi Jadhav	8th sem (sf.	Pay
30	Kanchan Kothan	eth sem CSE	1
	ayar Mankor	8th sem CSE	बर्च.
	shakha Shende	8th sem CSE	Asheel
337 J 34) N	sha s. Sontakke	oth com TT	Steekle
	Whali w. wardhare	8 sem CSE	Mu ordina
ソージト	neya landhe	of co. M.E	Oparari



LTJSS LTJSS

Harpur Nagar, Umred Road (Near Bada Tajbagh), Nagpur-24
(Approved by AICTE, New Delhi, Govt. of Maharashtra
and affiliated to Rashtrasant Tukdoji Maharaj Nagpur University)
Email: principalpbcoe@gmail.com, Website: www.pbcoe.edu.in

NAAC Accredited

# Technology:

- ✓ The institution's Robotics Club engages students in the field of robotics and automation through workshops, competitions, and hands-on training sessions. These activities enhance technical skills, foster innovation, and provide practical learning experiences for students to apply theoretical knowledge and develop innovative solutions
- ✓ Students from the institution actively participated in the Indian Science Expo held in Nagpur in 2023. The expo showcased their innovative projects and research outcomes, fostering knowledge transfer among students, faculty, industry professionals, and the wider community.
- ✓ In 2019, the institution's students also joined the Smart India Hackathon, promoting creative thinking, teamwork, and the development of innovative prototypes.



#### Lokmanya Tilak jankalyan Shikshan Sanstha's PRIYADARSHINI BHAGWATI COLLEGE OF ENGINEERING Harpur Nagar, Umred Road (Near Bada Tajbagh), Nagpur-24

Harpur Nagar, Umred Road (Near Bada Tajbagh), Nagpur-24
(Approved by AICTE, New Delhi, Govt. of Maharashtra
and affiliated to Rashtrasant Tukkoji Maharaj Nagpur University)
Email: principalpbcoe@gmail.com, Website: www.pbcoe.edu.in
NAAC Accredited



#### **Robotics Club**

PBCOE/RC/2021-22/01

Date: - 16/01/2023

#### NOTICE

All the B. Tech. 1<sup>th</sup> semester students are hereby informed that Robotics Club has organized Seminar on "Drone Technology" which will be delivered by Mr. Ankit Bhagat Director, Aero flutter Tech Labs, Nagpur.

Date: 18th January 2023 (Wednesday)

Time: 3:30 pm

Venue: PBCOE Auditorium

1st floor Civil Building

Dr. S. P. Daf

**Robotics Club Incharge** 

Dr. N. K. Choudhari

Principal

Copy to:-

1) Dean Academic

2)B.E First Year Coordinator (for display on notice board and Circulation)

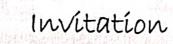


# Priyadarshini Bhagwati College of Engineering

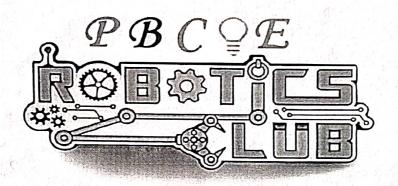
Harpur Nagar, Unired Road, Nagpur







You are Cordially invited for the Installation of



on

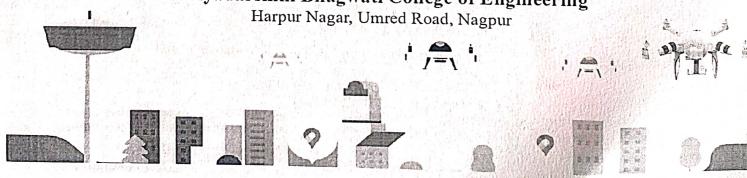
18 January 2023, Wednesday at 03: 00 PM Venue: Auditorium 1st Floor Civil Building

> Dr. S. P. Daf Robotics Club Incharge

Dr. N. K. Choudhari Principal, PBCOE, Nagpur

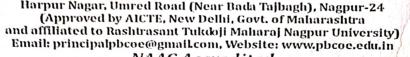
Dr. (Mrs.) A. R. Chaudhari Dean Academic & IQAC Coordinator

**Robotics Club** Priyadarshini Bhagwati College of Engineering





#### Lokmanya Tilak Jankalyan Shikshan Sanstha's PRIYADARSHINI BHAGWATI COLLEGE OF ENGINEERING Harpur Nagar, Umred Road (Near Bada Tajbagh), Nagpur-24





## NAAC Accredited

#### Academic session 2022-23

**Robotics Club** 

#### Seminar Report on "Drone Technology"

1. Event Title

: Seminar on "Drone Technology"

Event Date and time

: 18th January 2023 03:00 pm

3. Event venue

: Auditorium Civil Building (First Floor)

4: Event resource person

: Mr. Ankit Bhagat Director, Aeroflutter Tech Labs, Nagpur

5. Name of Event Coordinator : Dr. S.P.Daf, Robitics Club Incharge

Number of students

: 200

7. Objective

: To provide an overview of the latest developments in drone technology and highlight the potential applications and opportunities of this technology in various

8. Outcome

industries.

"Drone Technology" organized by the Robotics Club was a highly informative and engaging event. Mr. Bhagat's expertise and experience in the field of drone technology was evident throughout the presentation, and the case studies he presented provided valuable insights into the practical applications of this technology. The seminar provided valuable insights for students, interested in the field of drone technology and highlighted the potential opportunities and challenges of this exciting and rapidly evolving technology.

Dr. S.P.Daf

**Robotics Club Incharge** 

Dr. (Mrs.) A. R. Chaudhari

**IQAC** Coordinator

IQAC Coordinator

Priyadarshini Bhagwati College of Engg. . Umred Road, Nagpur.

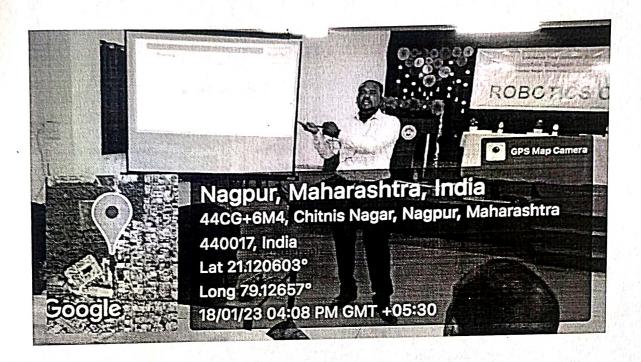
Dr. N. K. Choudhari

Principalical

िरांyadarshini Bhagwati College of Engg.

Umred Road, Nagour.

#### Photograph





# PRIYADARSHINI BHAGWATI COLLEGE OF ENGINEERING HARPUR NAGAR,UMRED ROAD NAGPUR Robotics Club

Date: 19/01/2023

#### Seminar Report

The robotics club of Priyadarshini Bhagwati College of Engineering, Nagpur organized seminar on "Drone Technology" on dated 18<sup>th</sup> January 2023. The seminar was delivered by Mr. Ankit Bhagat Director, Aeroflutter Tech Labs, Nagpur.. Near about 200 first year students attended the seminar.

The seminar aimed to provide an overview of the latest developments in drone technology and highlight the potential applications and opportunities of this technology in various industries. During the seminar, Mr. Bhagat provided an overview of drone technology, including the different types of drones, their components, and their applications. He discussed the advancements in drone technology, including the use of artificial intelligence, machine learning, and advanced sensors to improve the accuracy and precision of drone operations. he also highlighted the potential applications of drone technology in various industries, including agriculture, mining, construction, transportation, and logistics. He explained how drones are being used for crop monitoring, land surveying, 3D mapping, surveillance, and delivery of goods and packages. To illustrate the practical applications of drone technology, Mr. Bhagat presented a number of case studies, including the use of drones for disaster management and response, pipeline inspection, and wildlife conservation. He also discussed the challenges associated with operating drones in these environments and the importance of safety and security measures. The seminar also covered the regulatory environment surrounding drone technology, including the rules and regulations for operating drones in different countries. Mr. Bhagat emphasized the need for safety and security measures when operating drones, including the use of geofencing and obstacle avoidance technologies.

The seminar was organized under the guidance of Hon'ble Principal Dr.N.K.Choudhari, Dean Academics Dr. (Mrs.) A.R.Chaudhari and all the HOD from various department. Students have worked hard for the success of the program. The program was coordinated by Prof. S.P.Daf Robotics cell Incharge.

Dr. S. P. Daf

**Robotics Cell Incharge** 

Copy to:

1. Principal, PBCOE.

2.Dean Academics, PBCOE

HARPUR NAGAR, UMRED ROAD NAGPUR

## Robotics Club

### Attendance sheet

Name of Event: Drone Technology Date of Event: 18 Junuary 2023

Sr. No.	Name of Students	Sem & Branch	Signature
0)	Suhil Gravan an Pangu	1st yeur	Brungul
02	Sahil Hermal Jambhulkar	1st year	Sty. S
03	Samely Dhankey Modak	1st year 1st year	Diok.
04	Sumir Grendlal Navlalde		gran -
05	Saunabh Grulob singh Jat	15t year	3m.
06	Sawabh Parmeshwas Raut	1 St year	Sawabh)
07	Shashank . A . Deshibhratur	1st year	5
08	Yash Gajanan Minawe	Jot year	Oriname.
09	Vinet Suresh Adagal	1st Year	(0)
10	Vedant Sourin morita	15+40000	Vmouse
1)	Vaibhar Raju Nardunge	1st year	Woolage
12	Voubhar Bhikoaj Wadhi	1st year	Deadhi
13	Vaibhou Anil Mashielkar	15t your	Quan
15	viuxe Bala Yesonswe	11. 16ar	CX
15	Toshar Ramesh Darne	1 34 Year	J.P. Dary.
16	Achal Rovindru kolase	45t year	A-kese.
17	Acyushi Rajendra Kumble	1st year	Denjusti
18	Anushica vilas Korele	+ year	Asself
19	Aspita Asvind zalke	Ist year	Hales
20	Chinastani Chakma		chimastan
218	Janvi Patle	1st year 1st year	Cath
22	Jaysko Thorpoe	724 4602	Marke
23	khushiya patle	1 St your	(pstate-
24	Ketakee   Sherde.	1324600	K. Shende
25	Jotsna A Jadhar	1st year	fatong
26	Nikhil S Singanjude	15 yeur	A.
27	Prashant. B. Johkate	tou deab	<b>E</b>
28	Manthan C. Pade	1st Year	What
29	Proutik A. Mohod	1st Year	Proho(

HARPUR NAGAR, UMRED ROAD NAGPUR

## **Robotics Club**

## Attendance sheet

Name of Event: Drone Technology
Date of Event: 18 January 2013

Sr. No.	Name of Students	Sem & Branch	Signature
30	Vrushaci Kumbhan e	B. Telh 1Styen	V Kymbhare
31	Adilya Jaypal Awaze	13. Trach 11+ Ker	A
32	Amit Handraj Kumbhare		
33	Argum angrakash Pall	B Tech 1st Year	
34	Bhanesh Shankar Gowan		os B. Grannan
35	Jayant Kuthe	B Ket I yen	Rus
36	Karan P. Singansule	1. tokh 15 to	TO CONTO
37	Madhur P Morey	B-Tech I You B-Tech 15tyer	, (2)
38	Ranul S. paswan	B-Tech-Stu	Rarul
39	Praverb. v. Capase.	B- Tech 1st year	Panas
40	Prancy R. Boeiker	B. Took 1st years	Tregara
4)	Nagethbar Keiler Keimble	B. Toch Ist war	Mileumbo
42	Mohit Kailain Lonar	B. Teal 14 yr	Mahl
43	LIGARE KOKERY BYEAR	B. 78ch 24 4x	Dayur
55	Gauran vasudes Aptentions	BITCHISTYN	COMPANION :
45	Cokul Pradip Podole	B. Tech Ptura	Godole.
46	Gropel Scetish wonkhal	B. Tech 1stycen	chosel.
47	Haitik Sonjay Hiusse	B. Tech Ist year	THUIH.
48	Salgam Sanjoy Singanjude	B. Tech Ist year	datyam
49	sumt P Bisen	BUTCH TIT	AST NO
50	Tescis D sonsare	D-tech 1st	Free
51	Tejus P. shelke	B - tech 1st	Tejal
52	Tushaz .s. Shonde	B-tech 1st	This 3
53	Janvi - R. Dhomne	13. tech 1 Styr	
55	Janus M. Dangue	B- Pech 1styn	Dane
55	Janvi L. Matwar	B. Tech 1styn	Shatwars
56	ayato & Rahangelale	B. Tech dityon	palale
57	Dipshikhas, sortang pure	Bitechtay.	DI
58	Acidral, S. Kamble	D. Tech 1stp	As. Himbel
59	Juhi M. Jais	B. Tech 1styr	VALUE BOY CHEST CONTRACTOR OF THE PARTY OF T

HARPUR NAGAR, UMRED ROAD NAGPUR

## **Robotics Club**

### Attendance sheet

Name of Event: Drone Technology
Date of Event: 18 January 2023

Sr. No.	Name of Students	Sem & Branch	Signature
59	Kanchan Khonde	B.tech tstyr	K. D. Ishonde
60	Kashish Panate	B. Tech 25t year	De storage
6)	Khushi Pandey	B. Fech Syea	r_tile
62	Krutika Dhabarde	B. tech 1styear	Krufika.
63	Mrunal Mate	B. Tech 15 year	My.
64	Payal Bais	B. Jein Joryen	(D)ml ··
65	Rashi Yelane	B. Tech 1st year B-tech 1st year	Ryplan
66	Renerka Gale	B-tech 1 Stypear	Rigate
67	Sakshi H. Dupare	B. Tech Lst Gear	
68	yamini 6 kant'ode	B. Tech 181 years	grantode
69	Trupti K. Dhaumare	B. Tech 1st year	Thaumare
70	Teena. V. Kumbhoere	plech 1styr	Leency
つ)	Dreha s. Bhotmange	B. Tech 1 dyear	Sheld
72	Sneha P. More	B. Tech 12 year	3. P.m
73	Siddhi M. Zade	B. Tech 1st year	Dank
79	Bhwetel N Bromhinker	B. Tech 1stylu	Shouth
75	Sayali Bhalchandra Chikhale	B. Jech. 1 st year	Bechikhale
76	Adkja P. Bongare	Bitecy 1st year	A.P. Bangare
77	Adity a f. mestran	B. Jech Astyeur	Dune D
78	ASPF Joural Dougo	B. tech Ist year	· Dona.
79	Bhojeshwar phyander Sahare	Btech lyn	Bg ales
80	Chaitanger Monajanlacer	B tech (1sty)	Bui tary
61	Himanshy shembelsen	B tech 11styr	Englishment Carlot Committee Committ
82	Krishal Stadke	Blechifty	A section of the sect
83	Piyush. R. Charde.	13. Tech . 151	Committee of the second of the
85	Pankaj. J. Bawanka		
81	Nishant Ravinded Tadhao	B. Tech 78t year	N. R Tadhun
86	Nishant Rajendra Godiwan	B. Tech Lity	Odivan
87	Nikitesh A. Mejhram	B. rech 1styo	LUI

### PRIYADARSHINI BHAGWATI COLLEGE OF ENGINEERING

HARPUR NAGAR, UMRED ROAD NAGPUR

### **Robotics Club**

### Attendance sheet

Name of Event: Drone Technology Date of Event: 18 January 2023

Sr. No.	Name of Students	Sem & Branch	Signature
88	Sheikant Manohae Bawane	B. Tech 25+ sem	Blukont
89	Shubham Naresh Pal	B. tech 1st year	5 Jack
90	Sujal Upendra Roy	B. Tech 157/ear	
9)	Tanmay Gopal Kall	B. Tell 1st year	
92	Vinay Laxman Nandeshwar	130 Jan	the west transfer to Ny 19 to the
93	Vinay budkir sawwolakhe	B-Tech 1 year	Vinay
95	Vinayak Shyam Purme	B. tech 1 tem	at Burme
95	Vish was Anna'i Bawankas	B. Tech Istyeas	V. A. Rulsan kgz.
96	Janvi Pravin Khotele.	the state of the s	The second secon
97	Isha Anun tale	B. Tech Yst year	+our
98	Bhagyashyi Davideo Hatroa	B. Tech 1st year	Hatwar
99	Astha Avest Kapoor		8 Retha
100			gheiten
101	Arishka Psiendos Mungole	B. Tech 1st your	Drugt
102	Anama Khan	B. Teh 751 year	Apher
103	Auchal P. Ehandal	B-Tech Ityer	Brandul
104	millind . D. sharare	B tech 14 year	my starge
101	Prathamesh · R. Ranc	B. Jech 15 year	P.R. Rane
106	PRINS Phyaneshwaz Sontaleke	B. Tech Ist year	Roneycke
107	Rishi . R. Pandey	B. Techisty	RISW
108	Rohit · B · Pandel U	B. Tech 1sty	(R)pardely
109	report co Bhoyan	B. Tech 1sty	Arti
110	Janhovi & Donge	B. Tech Ity	Songe
11)	Prynite B. Duhijad	B. Terb 1sty	PB QAir
112	Mandini Kshirsugan	The state of the s	NEDY
113	Alsanisha Chike	for any the let mil	es de
114	Moy/P Gerpude	B. Tech	com.
111	Mainisha B. Dombre	B. Tech 18ty	esto
116	Krunall. Sathawne	18, Tem	KUM

# PRIYADARSHINI BHAGWATI COLLEGE OF ENGINEERING HARPUR NAGAR, UMRED ROAD NAGPUR

### **Robotics Club**

### Attendance sheet

Name of Event: Drone Technology Date of Event: 18January 2023

Sr. No.	Name of Students	Sem & Branch	Signature
117	Vaibhavi P. Dakhane	IInd Sem (EC	Pakhane
118	7 cenut s. shirt	B. Tech 1st year	2 cenut
119	Aditya . R. Sarode	Bitch 1st year	Pode
120	Anshul . S. Credelcas	B. tech 1st years	Quedel
721	Anurag 4. Sevodkar	B. tech 1st year	Anno
122	Aspan. N. Pardey	15. Tech 1 fear	(Farter)
123	Angein k. Motyhure	B. Temand (IT	) Drypuie
124	Afrian M. Thakun	B. Tach 2 typas	Amilah
125	Umama L' sheilch	B. Tech 1 year	auheikh T. k. jeukodo
126	Treupti K. Kulcadi	B. Tech 1styn	T.K. jewkodo
127	Troiveni R. chavhan	B. Tech 1styrs	Who !
128	Shubhangi Pr phenge	B. Tech1 yeur	S. Dhence
139	Shewii. S. Sork	B. Tech 1 Styeau	Shrut
130	Shoute crajbline	B. Tech Tstyr	Eighings
13)	Payal · P. Mahajan	B. Tech Ist year	mahagen.
132	Porting 6. Nahalé	B. Fech Ist you	Follole
133	Khushi D. Khole	B. Tech 1stye	Oblines
135	Khushi K. Budhkondwag	B. Tech 1styear	Kum
135	Khushi L. Das	B. Tech 1styear B. Tiechisto	Burnin
136	Komal Taksande	B Tech 117 ea	award
132	Kumkum B. Jawekan	B. Tech 1st year	
38	Namrater. S. Sliwarker	B. Tech JSt year	1 Deiwarty
139	Poiti - G- Pandey	B. tech 1sty cor	Priti Pandey
140	Arti ( Bhoyor)	B. Tech 1st year	Asti d
141	Mansuli Ganorpas	B- Techsia	Colmorpin
142	MIGHT ROLLING	B. Techastur	Fund?
143	Bhoomika 8. Jais	B. Tech 1styla	( Moonika To
1 44	Himandri D Malviya	13 Tech 124 day	(Whalviya
145	Priyanka N. Derhare	B. tech 1sty.	P.N.

# PRIYADARSHINI BHAGWATI COLLEGE OF ENGINEERING

HARPUR NAGAR,UMRED ROAD NAGPUR

### **Robotics Club**

### Attendance sheet

Name of Event: Drone Technology
Date of Event: 18 January 2023

Sr. No.	Name of Students	Sem & Branch	
146	Pealiksha Romlal Jumble	EC	p.p.lumble.
147	RIHKU M. BLOYGE	EC	Phayore
148	samradny Kubde	€C	Gention
,49	Srushti Bakhone	Arstyear	-882
150	Dimean Dahake	First year	Bundet
151	Kajal Jain	Figest year	Kum
152	Dina wani	(-1 ors ty ear	5/0
153	Sumedha Sansay Zodope	first year	Zodope
154	Touph vacanta parate	first year	Dines.
155	Twinkle Hanwate	1styear-IT	Hanwala
156		Tet Now-IL	By.
157	Prachi B. Dhule	1 st ream	Chule
158	Muskas R. Sherah.	ys! year	SG CAM
159	KOMHT 12 boll	1) ryear-fe	fute
160	Arti C. Bhoyar	18t gearcin	Arti
161	Arti C. Bhoyar Ruchika Ronad.	1sty ear civil	(K C Keed)
162	Kanak SAKre	1st year IT	was
163	Achal R. Lakhi	1st year	glebl
169	Ratuia Meshram	Jet year	Ruteu
165	Priering Bind	1st year	Porma
166	laniksha Nimbalkar	15t year (CSG	, Suntkshi
167		41	Charman
168	narshada selokan	Clui!	florsheds
169	Pravin A. Padole	CSE	P.Padole
170	Shaeyosh. D. Hawelikas	MECH	Tho eyail
171	NUYUNIT . P. BOWNE	MECH	ar
172	BLUVESL. Rajuakua.	MECH	(3)
173	Rishi M. Toman	CSE	Pishi
174	Sumit K. waghmare	<u> 2</u> +	Su

# PRIYADARSHINI BHAGWATI COLLEGE OF ENGINEERING HARPUR NAGAR, UMRED ROAD NAGPUR

# **Robotics Club**

### Attendance sheet

Name of Event: Drone Technology Date of Event: 18 January 2023

Sr. No.	Name of Students	Sem & Branch	Signature
135	Aagiti p. Manabudhe	. B. Tech 1stya	Arounaby
176	Akaniha P. Vitantapa	IR. IPIN IT GPUN	Nou lui
177		B-Tech 13tyea	Mureu.
178		B. Tech 1st year	-Brita.
179	<ul><li>事業により、「本人」である事業のである。</li></ul>	B. Tech 1st year	Bisane
180	Ayushi C. Sarkou	BTech 1st-yp	Barton.
181	BHAVANA A MAHURE	B Tech 1styr	Brokurs
182	Dutil a . s. Magden	B. Lech and o	P. Meylle
183		p- Jech Jstyen	(DE)
189	Penchi S. Bhoyer	Biteen 1st year	120 hyre
	monika G. Rohad	B. tech 1styeas	muched
186		B. Tech 18tyrs	
	Himani R Raut	B. Tech. Istyes	Gentury
188	Gitika C. Romteke	B. Tech Istya	
189	Sanikesha. M. Chaudhary	B. Tech pryear	Omarolhari.
190		Blech Lilyr	- Jue
19)	Saniya. V. Pawanker	Biech Ist Year	
192	sanskrut D Kamale	BlechIstyear	
193	sejal P. Deulakuz	B. Tech 1 stys.	seules.
195	Shedyali. D. Pansate	B. Tech 1 styn	Svelgal!
195	Smulf or . Jou's	B. Tech 1stys	Sweet Teve
196	Sheet: S. Khanke	B. Tech 1sty	A
192	Alhowa . R. Mogor	B. Tech 1ster	4 April 1
198	Angar. S. Khanarkan	1. Ich Dyan	Acalin.
99	Abyan Riclanthade	B. Tech Fr	
200	ASYAN PISHOVANTE	B-tch 14 yr	- Apper
201	Aryon R Retark	3 tech (3/1)8	Myon
202	Alyan P. Shirm we	13. tech 2542	All er
203	Bhoush K. Patil	Blech to yn	tus)



### Lokmanya Tilak Jankalyan Shikshan Sanstha's

### PRIYADARSHINI BHAGWATI COLLEGE OF ENGINEERING

Harpur Nagar, Umred Road (Near Bada Tajbagh), Nagpur-24 (Approved by AICTE, New Delhi, Govt. of Maharashtra and affiliated to Rashtrasant Tukdoji Maharaj Nagpur University) Email: principalpbcoe@gmail.com, Website: www.pbcoe.edu.in



NAAC Accredited

### Department of Computer Science and Engineering Academic Session 2022-23

# Report of Seminar on Knowledge Enrichment Program

: Seminar on Knowledge Enrichment Program Event Title

1. Event Date : 23 Sept 2022 (Friday) Event conduction duration: 3.15 PM to 4.30 PM

: Seminar Hall, I Floor, PBCOE 3. Event venue

: Mr Swapnil Udapurkar, Director & Head, LiveTechSkills, Nagpur. 4. Event resource person

5. Name of Event Coordinator: Dr P M Palkar, Prof Ms R Dagde

6. Number of students : 52 (V SEM CSE)

: To provide the awareness about current technology skills 7. Objective

8. Outcome

A) Students have been made aware about the different industry scenarios and tools required





Prof K N Hande HoD

Computer Science & Engineering Department Head nyadarshini Bhagwati College of Engineering Umred Road, Nagpur.

Dr. Mrs A R Chaudhari

**IQAC** Coordinator

hundh

Dr. N. K.Choudhari Principali Priyadarshini Bhagwati College of Eng Umred Road, Nagpur.

IQAC Coordinator Privadarshini Bhaqwati College of Engo. Umred Road, Nagour.



### Lokmanya Tilak Jankalyan Shikshan Sanstha'y

# PRIYADARSHINI BHAGWATI COLLEGE OF ENGINEERING

Harpur Nagar, Umred Road (Near Bada Tajbagh), Nagpur-24 (Approved by AICTE, New Delhi, Govt. of Maharashtra and affiliated to Rashtrasant Tukdoji Maharaj Nagpur University) Email: principalpbcoe@gmaiLcom, Website: www.pbcoe.edu.in



NAAC Accredited

# Department of Computer Science and Engineering <a href="NOTICE">NOTICE</a>

All the students of B.Tech V Sem CSE Department are hereby informed that, Dept of CSE is conducting Seminar on "KNOWLEDGE ENRICHMENT PROGRAM". The details are as follows.

Date: 23th September 2022

Time: 3.00pm to 5.00pm

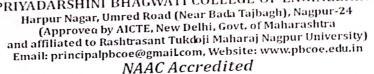
Event Coordinator: Prof. D. V. Jamthe

Venue: Room No. F4, Dept. CSE, PBCOE

All are informed to attend the same.

K. N. Hande
Head of Department of Computer Sc. & Engg.
Priyadarshini Bhagwati College of Engg.
Umred Road, Nagpur - 24.







Date: 22/09/2022

To Mr. Swapnil Udapurkar, Director & Head, Live Tech Skill., Bangalore.

### **Invitation Letter**

Dear Sir,

I hope this letter finds you in good health and high spirits. I am writing to invite you to deliver a seminar on **Knowledge Enrichment Program** for V Sem B Tech CSE students. The Event is scheduled to be held on **23 Sept 2022 at 3.00pm** at our campus.

Your extensive knowledge in the field different technologies skill make you an ideal candidate to enlighten our audience. We believe that your seminar will provide valuable insights and enhance the learning experience of our attendees.

We look forward to hearing from you and hope that you will be able to accept our invitation. Your participation will undoubtedly add value to our event and benefit the students.

Thank you for considering our invitation.

Sincerely,

(Dr. N. K. Choudhari)

Principal

Priyadarshini Bhagwati College of Engg Umred Road, Nagpur.





Harpur Nagar, Umred Road (Near Bada Tajbagh), Nagpur-24
(Approved by AICTE, New Delhi, Govt, of Maharashtra
and affiliated to Rashtrasant Tukdoji Maharaj Nagpur University)
Email: principalpbcoe@gmail.com, Website: www.pbcoe.edu.in
NAAC Accredited

Date: 23/09/2022

To Mr. Swapnil Udapurkar, Director & Head, Live Tech Skill., Bangalore.

### Thanks Letter

Dear Sir,

I am writing to express my gratitude for delivering an informative and inspiring seminar on **Knowledge Enrichment Program** for V Sem B Tech CSE students on dated 23<sup>th</sup> Sept 2022. Your expertise and knowledge in the field made the seminar an incredible learning experience for everyone who attended.

Your presentation style was engaging and easy to follow, making the material accessible to all levels of understanding. Your insights and perspective added an extra layer of depth to the seminar and made it all the more enjoyable.

Once again, thank you for taking the time to share your knowledge and expertise with us. I hope to have the opportunity to attend more seminars by you in the future.

Sincerely,

(Dr. N. K. Choudhari) Principal

Principal
Priyadarshini Bhagwati College of Engg
Umred Road, Nagpur.



Harpur Nagar, Umred Road (Near Bada Tajbagh), Nagpur-24 (Approved by AICTE, New Delhi, Govt. of Maharashtra and affiliated to Rashtrasant Tukdoji Maharaj Nagpur University) Email: principalpbcoe@gmail.com, Website: www.pbcoe.edu.in



RT

### NAAC Accredited

#### Academic session 2022-23

### ATTENDANCE SHEET

Name of the Activity: Knowledge Enrichment Program

Sem/Branch: 5th sem CSE

Date and Time: 23 deptember 2012 (Triday) Time: - 3:00 pm Name of Expert and Organization: LIVEWIRE Mag pive Mr. Akinay fain

Signature 1 Name of the Student Sr No Inel Dranwate 1. 2. Sekdere 3. 6. Nerkor 4. Thakare G. Thatare 5. Thewom (Thoware 6. 7. seaisfali K. Bhane 8. Savar R. kurrewar 9. Sanskouti V. Tiwari 10. 11. Sakshi S. Udakhe Tanight Dulay 12. Janhvi Pittulwar 13. Akankelia S. Hatwain 14. Sakshi D. Kamble 15. xleha Sahare 16. 17. Om M. khondekar 18. Diponsu Bisen lash N. Khobragade 19. Avishkah M. Worlmode 20. 21. Rajor D. Chandrogade Suraj B. Chaudhari 22.

22   11	2010
23. Mayan Mungole	estanon
24. Savapad Poince	
25. Yansh Udapwe	Onz
26. Sheipad Millind Pande	Zassa
27. Chhotelal Pandry	Danden
28. Piyush Kukde	Peyash b.
29. Any Hiwase	Almaje
30. Shivam mallekar	A
31. Bendke sowrabh	.Sewrabh
32. Kanishk Jadhav	Conside
33. Anup Nogoleote	
34. Rushikesh Bokde	Rookde
35. Noyan Deagade	Nayan
36. Priyanghu-Pikothatkag	(Pruggla
37. Quilable P Deshbleaton	Rubale
38. Hitakshi SAKARE	TO.
39. Horsh. Kite	Hu.
40. Aparudhha Polke	Atro.
41. Anurag Bande	to i
42. Assure Charmode	
43. Bhushau, C. Nrubullar	Bukullear
44. Abhishele Bijekar	Abhir
45. Auge Ragharte	Ang Ryht
45. Anger Ragharta 46. Menak Khan	Angrue Menarkhan Lemuch
47. Kalyani Mudl	Lemille
48. Mansi T. Bhujade	Buej
49. Nikita Lo Nanne	Delanto
50. Sakehi K. Thakare	Thakaw.
51. Soushi S. Bhute	Ghushti
52. Jayas. Fulzele	J. Fulzela
53. Premu. M. SHAHU	Pfus

**Event Coordinator** 

T and P Incharge

· 0.	Name Of Student	Signature
	Akanksha A. Sawai	Hawai.
<i>j</i> 5.	Danja elj. Spercao	Jarya
56.	Shishir . S. thakur	Children .
57.	Sudhanshu Narayan	De la companya della companya della companya de la companya della
58.	Sudhanshu Narayan Panushue S. Vaitage Sejal . P. Hiwase	Torrai tage
59.	Scient R. Himase	Torraitage Stimure
60.	Salyam Lannan Urkude	Sherkude
61.	Vedort Vikor Kotte	Quello .
62.	Salif Theory	\$1000CM
63.	Jam 1100211	
64.		
65.		
66.		
67.		
68.		
69.		
	•	
70.		
71.		
72.		
73.		
74.		
75.		
76.		
77.		
78.		
79.		
80.		
81.		
82.		
83.		

The Younder







# **Grand Opportunity For All Technology Students!**

Join us for Smart India Hackathon 2019

# PROBLEM STATEMENTS RELEASED!



For eligibility & registration, visit:

www.sih.gov.in

SMART INDIA **HACKATHON** 2019

WE HAVE

HARDWARE & SOFTWARE

**EDITIONS** 



### **Eligibility Criteria**

- All technology students from AICTE/ UGC/ IIT/ NIT / IISER / IIIT / Government approved educational institutions
- Team of 6 students with at least a female candidate, is mandatory.
- Team members must be from the same college and may be from different academic levels

### **SECTORS**

- Agriculture & Rural Development
- Clean Water
- Robotics and Drones
- · Healthcare & Biomedical devices
- Renewable energy
- · Security & Surveillance
- Smart Communication
- · Smart Vehicles
  - ... and others
- · Waste Management



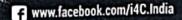
Food Technlogy













LOKMANYA TILAK JANKALYAN SHIKSHAN SANSTHA'S

# COLLEGE OF ENGIN

(Formerly known as Smt. Bhagwati Chaturvedi College of Engineering)

Harpur Nagar, Umred Road. Nagpur - 440 024. (India) Tel.: +91-712-2710281, 2710282. Fax: +91-712-2710283 E-mail: principal.bcce@ltjss.net Website: www.bcce.ltjss.net



To, The Coordinator Nodal Centre for Smart India Hackathon-2019 Graphics Era University, Dehradun, Uttarakhand.

Following are the students of our institute and mentors participating in Smart India Hackathon-2019 selected for the problem statement ID SV1 submitted by Nagar Nigam Jaipur, Govt. of Rajasthan in software category .

Team Name: Itians\_coders

- 1. Mr. Ajinkya Jain (Team Leader)
- 2. Mr. Shubham Dhande ( Member)
- 3. Mr. Gaurav Lambat (Member)
- 4. Ms. Yogeeta Devghare(Member)
- 5. Ms. Vaishnavi Lanjewar (Member)
- 6. Ms. Archana Thakare (Member)
- 7. Mr. Manoj Chaudhari, Assistant Prof. (Mentor)
- 8. Ms.Komal Pawar, Assistant Prof. (Mentor)

Dr.N.K.Choudhari Principal

dyadarshid allege of Enga Umrea Mazd, Nagpar.

LOKMANYA TILAK JANKALYAN SHIKSHAN SANSTHA

# PRIYADARSHINI BHAGWATI COLLEGE OF ENGINEERING, NAGPUR

# **Department of Information Technology**

# SMART INDIA HACKATHON 2019 (SIH- 2019) Competition Participation Details

Competition	SIH(Software Edition)- 2019 Grand Finale Competition
Venue for Competition	Graphics ERA University , Dehradun, Uttrakhand
venue for competition	
Selection Criteria for	Total 534 problem statements were released on 30 September 2018
the SIH 2019	by total 18 union ministries and 91 industries. The last date of idea
	submission for the problem statements was 23 January 2019.
Idea Submitted	SMART GARBAGE IDENTIFICATION & COLLECTION BY USING
	DRONE & GEOFENCING : AN INTITIATIVE TOWARDS SWACCHA
	BHARAT
The Problem Statement	MSME(Macro Small Medium Enterprises) Ministry for Nagar Nigam,
given by the Ministry	Jaipur, Govt. of Rajsathan.
Selection of Idea for	On 16- February 2019, Team Leader Mr. Ajinkya Jain(VI Sem IT)
Grand Finale Round	received the email from AICTE, India for being shortlisted for the Grand
	Finale round at Nodal Center, Graphics ERA University , Dehradun,
Dates of Grand Finale	Uttrakhand.  2nd and 3rd March 2019.
Round	
Duration of the	
Competition	
Team Members	
	Dhande(Member) ,Mr. Gaurav Lambat(Member),Ms. Yogita
	Deoghare(Member),Ms. Vaishnavi Lanjewar(Member),Ms. Archana
	Thakare(Member)
Mentors	
	Ms.Komal Pawar, Assistant Professor,IT Department
Summary	The Team Itians_Coders of the department has successfully
	participated in the <i>World's Biggest Open Innovation Model</i> Competition - Grand Finale Round of Smart India Hackathon (Software
	Edition) -2019 held at Nodal Center at Graphics ERA University
	Dehradun ,Uttrakhand . Out of more than 2 .8 lakhs students registered
	at SIH-2019, only 9000 thousand reached the grand finale round. Total
	57897 ideas were submitted which were evaluated by more than 1000
	evaluators and finally 2128 ideas were selected for the grand finale
	round. The 36 hour non stop coding competition was conducted at
	total 48 nodal centers simultaneously.
	The idea submitted by team <i>Itians_Coders</i> was <i>SMART</i>
	GARBAGE IDENTIFICATION & COLLECTION BY USING DRONE &
	GEOFENCING: AN INTITIATIVE TOWARDS SWACCHA BHARAT in which
	the idea of waste identification using drone, notification of waste through email, transportation and management was proposed. The
	team reached the power judgment round after successfully completing
/,	the previous two judgment rounds.
	,

Priyadarshini Bhagwati College of Engg. Umred Road, Nagpur.

Information Technolog Phepartment Priyadarshini Bhagwati College of Engineer... Umred Road, Nagpur.





The Team Itians\_Coders at SIH-2019 Grand Finale Round.



The Team busy at coding.



The Itians\_Coders solving the problem statement.



Hon'ble. Prime Minister Mr. Narendra Modiji addressing the SIH-2019.



Judges evaluating the Project.



Mr. Ajinkya Jain (Team Leader) expressing his opinion.



Manoj Chaudhari <manojchaudhary2@gmail.com>

# Fwd: Congratulations for being shortlisted as a team for Grand Finale of Smart India Hackathon 2019 (Software Edition) scheduled on 2nd and 3rd March 2019!!

1 message

Ajinkya Jain <ajinkyajain29apr@gmail.com> To: manojchaudhary2@gmail.com Sat, Feb 16, 2019 at 6:50 PM

---- - Forwarded message ----

From no-reply <aicte admin@aicte-india.org>

Date Sat Feb 16, 2019, 12 05 PM

Subject Congratulations for being shortlisted as a team for Grand Finale of Smart India Hackathon 2019 (Software Edition) scheduled on 2nd and 3rd March 2019!

To <aiinkyajain29apr@gmail.com>

Dear Team Leader,

Congratulations for being shortlisted as a team for Grand Finale of Smart India Hackathon 2019 (Software Edition) scheduled on 2nd and 3rd March 2019!

Please visit https://www.sih.gov.in/WinnerList to know the Problem Statement and idea that you have been selected for.

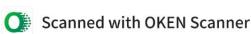
More importantly, you need to confirm your participation in the Smart India Hackathon 2019 (Software Edition) Grand Finale on the www.sih.gov.in web portal between 15th February 2019 to 18th February 2019 (Currently his module is under testing and will be open soon. Questions regarding the confirmation link would not be addressed before 15th February 2019)

In case no confirmation is received from your end till 18th February 2019, the wait listed teams would be given an opportunity to participate.

Please download the Smart India Hackathon 2019 mobile application from Google Play to stay connected for updates on Grand Finale

Smart India Hackathon 2019 (Software Edition) guidelines

- 1 Shortlisted teams traveling for the grand finale (6 students and 2 mentors) will be eligible to receive reimbursement for to & fro journey via 2S (2nd Class Sleeper) railway fare. The reimbursement amount will be transferred to the Team Leader's account at the Grand Finale Nodal Centers upon producing copies of train tickets and completing relevant forms. The arrangement for booking of train tickets is responsibility of teams themselves or their institutes.
- 2 Students should arrive at the venue one day prior (1st march 2019) and should plan return journey the day after the Smart India Hackathon 2019 (Software Edition) Grand Finale (4th march 2019) Students should avoid reaching venue on 2nd morning as it will be difficult for them to operationalize their setup in short span



- 3. College faculty members traveling with teams for the grand finale are not eligible for any reimbursement of travel expenses.
- 4. Nodal Centres (https://www.sih.gov.in/nodalCenterList) would be making necessary arrangements for the load and accommodation in hostels of teams participating during Grand Finals.
- Each team has to carry an authorization letter from their Institution mentioning the names of team leader, team members and mentors participating in the Grand Finale on their institution letter head, duly stamped by the head of the institution during the Grand Finale.
- The same team registered at the time of idea submission has to be present at time of Smart India Hackathon 2019 (Software Edition) Grand Finale (except in the following cases)
- a. Maximum 3 team members could change at the time of Grand Finale, but their names have to be mentioned on the letter stated in point 4 above
- No change in Team Leader would be permitted for any team
- 7 Students should not leave the premises until the Hackathon completes
- 8. Use of intoxicants is prohibited within premises during hackathon
- 9. Students participating in the Grand Finale should abide by the rules and regulations of organizing body for Smart India Hackathon 2019 (Software Edition)

We would soon share the Nodal Centre SPOC (Single point of contact for students) details with you

Regards, Smart India Hackathon 2019 Team













EDITION SOFTWARE

> **Grand Finale** 2<sup>nd</sup> and 3<sup>rd</sup> March 2019

# CERTIFICATE Participation

This Certificate is awarded to

AJINKYA JAIN

of team *ITIANS\_CODERS* for participating in

'Smart India Hackathon, 2019'.

R. Subrahmanyam

Hon'ble Secretary, MHRD

Dr. Anil D. Sahasrabudhe

Chairman, AICTE Chairman, Organizing Committee, Smart India Hackathon 2019

Abhay Fre

Dr. Abhay Jere

CIO, MIC, MHRD Organizing Committee. Smart India Hackathon 2019 Angual Destrande

Dr. Anand Deshpande

Chairman and MD, Persistent Systems Co-Chairman, Organizing Committee, Smart India Hackathon 2019

**Partners** 

Deloitte.

cisco DEVNET





MHRD Organizers









SOFTWARE EDITION

> **Grand Finale** 2nd and 3rd March 2019

# CERTIFICATE Participation

This Certificate is awarded to

ARCHANA THAKARE

of team ITIANS\_ (ODERS for participating in

'Smart India Hackathon, 2019'.

A 460 CO

Dr. Anil D. Sahasrabudhi

Abbay itsu

Dr. Abhay Jere

Organizing Committee

Dr. Anand Deshpande

Co-Chairman, Organizing Committee. Smart India Hackathon 2019

**Partners** 

















SOFTWARE EDITIO

> **Grand Finale** 2<sup>nd</sup> and 3<sup>rd</sup> March 2019

# CERTIFICATE Participation

This Certificate is awarded to

YOUESTA DEVENARE

of team *ITIANS\_CODERS* for participating in

'Smart India Hackathon, 2019'.

R. Subrahmanyam

Hon'ble Secretary, MHRD

Dr. Anil D. Sahasrabudhe

Chairman, AICTE Chairman, Organizing Committee, Smart India Hackathon 2019

Abhay Jac

#### Dr. Abhay Jere

CIO, MIC, MHRD Organizing Committee, Smart India Hackathon 2019 Anand Destrande

Dr. Anand Deshpande

Chairman and MD, Persistent Systems Co-Chairman, Organizing Committee, Smart India Hackathon 2019

**Partners** 

Deloitte.

www. DEVNET







Organizers











SOFTWARE EDITION

**Grand Finale** 2<sup>nd</sup> and 3<sup>rd</sup> March 2019

# CERTIFICATE Participation

This Certificate is awarded to

CTAURAY LAMBAT

of team *ITIANS\_conFRS* for participating in

'Smart India Hackathon, 2019'.

R. Subrahmanyam

Hon'ble Secretary, MHRD

Dr. Anil D. Sahasrabudhe

Chairman, AICTE Chairman, Organizing Committee, Smart India Hackethon 2019

Abbay Tee

Dr. Abhay Jere

CIO, MIC, MHRD Organizing Committee, Smart India Hackathon 2019

Dr. Anand Deshpande

Chairman and MD, Persistent Systems Co-Chairman, Organizing Committee, Smart India Hackathon 2019

**Partners** 

Deloitte.

www. DEVNET

















SOFTWARE EDITIO

> **Grand Finale** 2nd and 3rd March 2019

# CERTIFICATE Participation

This Certificate is awarded to

SHUBHAM DHANDE of team **ITTANS** confes for participating in

'Smart India Hackathon, 2019'.

R. Subrahmanyam Hon'ble Secretary, MHRD

Dr. Anil D. Sahasrabudhe

Chairman, AICTE Chairman, Organizing Committee, Smart India Hackathon 2019

Abhay Fre

Dr. Abhay Jere

CIO, MIC, MHRD Organizing Committee, Smart India Hackathon 2019 Anand Destrande

Dr. Anand Deshpande

Chairman and MD, Persistent Systems Co-Chairman, Organizing Committee, Smart India Hackathon 2019

**Partners** 

Deloitte.

disco DEVNET

















SOFTWARE EDITION

Grand Finale 2<sup>nd</sup> and 3<sup>rd</sup> March 2019

# CERTIFICATE Mentor

This Certificate is awarded to

MANOJ CHAUDHARI

'Smart India Hackathon, 2019'.

R. Subrahmanyam

Hon'ble Secretary, MHRD

Shelvas

Dr. Anil D. Sahasrabudhe

Chairman, AICTE
Chairman, Organizing Committee,
Smart India Hackathon 2019

Abbay Tee

Dr. Abhay Jere

CIO, MIC, MHRD Organizing Committee, Smart India Hackathon 2019 Dr. Anand Deshpande

Chairman and MD, Persistent Systems Co-Chairman, Organizing Committee, Smart India Hackathon 2019

**Partners** 

Deloitte.

Cisco DEVNET

**KPIT** 





Organizers











SOFTWARE EDITIO

**Grand Finale** 2<sup>nd</sup> and 3<sup>rd</sup> March 2019

# CERTIFICATE Mentor

This Certificate is awarded to

KOMAL PAWAR

for participating in 

'Smart India Hackathon, 2019'.

R. Subrahmanyam

Hon'ble Secretary, MHRD

Dr. Anil D. Sahasrabudhe

Chairman, AICTE Chairman, Organizing Committee, Smart India Hackathon 2019

Abbay Fee

Dr. Abhay Jere

CIO, MIC, MHRD Organizing Committee, Smart India Hackathon 2019

Dr. Anand Deshpande

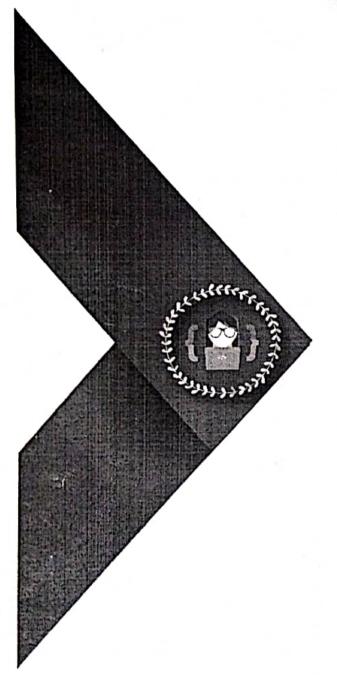
Chairman and MD, Persistent Systems Co-Chairman, Organizing Committee, Smart India Hackathon 2019

**Partners** 

Deloitte.

disco DEVNET





# Certificate Of Appreciation

# GIRLSCRIPT INDIA SUMMIT



This certificate is proudly awarded to

Mr./Ms. Tuba Khan

for securing 3<sup>rd</sup> position in Hackathon and participating in

Design Thinking Workshop during Girlscript India Summit 2018

Your hardwork, dedication and achievement will be cherished.

Anubha Maneshwar

Founding Director Girlscript Foundation Dr. N. K. Choudhari



Harpur Nagar, Umred Road (Near Bada Tajbagh), Nagpur-24
(Approved by AICTE, New Delhi, Govt. of Maharashtra
and affiliated to Rashtrasant Tukdoji Maharaj Nagpur University)
Email: principalpbcoe@gmail.com, Website: www.pbcoe.edu.in

NAAC Accredited



### Internal Quality Assuarance Cell initiative

#### Academic session 2018-19

#### Report on "Girl script India Summit 2018"

1. Event Title : "Girl script India Summit 2018"

2. Event Date : 15<sup>th</sup> -16<sup>th</sup> Dec. 2018

3. Event conduction duration: Two Days

4. Event venue : PBCOE Campus, Nagpur

5. Event resourse person : Sairee Chahal ,Founder Sheroes, Anubha Maheshwari , Founder

GirlScript India Summit 2018, Shailesh Awale, Center Head and

Director at HCL Technologies, Shashank Randev, Executive

Committee Member at People of Indian Origin Chamber of

Commerce & Industries

6. Name of Event Coordinator: Ms. S. A. Bhande and Mr. P. M. Palkar

7. Number of students : 200

8. Objective : To provide opportunities to explore their talent and sharing

knowledge about innovative technologies etc.

9. Outcome : Events in the Summit have provided the biggest opportunities of knowledge sharing, latest innovations and technology to the students of our region with more then 70 companies / communities and startups. More than 200 students participated in

events like Hackathon, 21 Under 21 Awards, Panel Discussion Workshops & Talks.

Dr. (Mrs.) A. R. Chaudhari IQAC Coordinator

Priyadershini Shagwati College of Engo. Umred Road, Nagour. Dr. N. K. Choudhari

Principal

\*-ivadarshini Bhagwati College of Engg. Umred Road, Nagnur.

#### GIRLS SCRIPT INDIA SUMMIT 2018 In COLLABORATION WITH PBCOE, NAGPUR

Girl script India Summit 2018 in Collabaration with Priyadarshini Bhagwati College of Engineering is held recently on 15<sup>th</sup> and 16<sup>th</sup> December at Priyadarshini Bhagwati College of Engineering, Nagpur . The events in the Summit have provided the biggest opportunities of knowledge sharing, latest innovations and technology to the students of our region with more then 70 companies / communities and startups. More than 200 students participated in events like Hackathon, 21 Under 21 Awards , Panel Discussion Workshops & Talks. The Hackathon was sponsored by HCL Nagpur and winners were awarded with Amazon Vouchers by HCL.

Dignataries Principal Dr.N.K.Choudhari, PBCOE, Sairee Chahal ,Founder Sheroes, Anubha Maheshwari , Founder GirlScript India Summit 2018, Dr Mrs. A R Choadhari, Dean Academeics PBCOE, Shailesh Awale,Center Head and Director at HCL Technologies , Shashank Randev, Executive Committee Member at People of Indian Origin Chamber of Commerce & Industries and others experts in the fields guided and motivated the registered students.On behalf of PBCOE Prof. P. M. Palkar, Prof. S.A. Bhande and others faculties coordinated the event.



Principal Dr. N. K.Choudhari , Priyadarshini Bhagwati College of Engineering , Nagpur addressing the gathering.

Dr. (Mrs.) A. R. Chaudhari Dean Academics & IQAC Coordinator

Priyadarshini Bhagwati College of Engg.
Umred Road, Nagpur.

Dr. N. K. Choudhari Principal Principal

Priyadarshini Bhagwati College of Enga Umred Road, Nagpur.



SIRLSCHIRT







This certificate is proudly awarded to **Dr. N. K. Choudhari**For Panel discussion Participation during **GirlScript India Summit 2018**.

Anubha Maneshwar

Founding Director Girlscript Foundation Dr. N. K. Choudhari







This certificate is proudly awarded to **Prof. Pravin Palkar**For Event coordination during **GirlScript India Summit 2018**.

Anubha Maneshwar

Founding Director Girlscript Foundation Dr. N. K. Choudhari







This certificate is proudly awarded to **Dr. A. R. Chaudhari**For Panel discussion Participation during **GirlScript India Summit 2018**.

Anubha Maneshwar

Founding Director Girlscript Foundation Dr. N. K. Choudhari



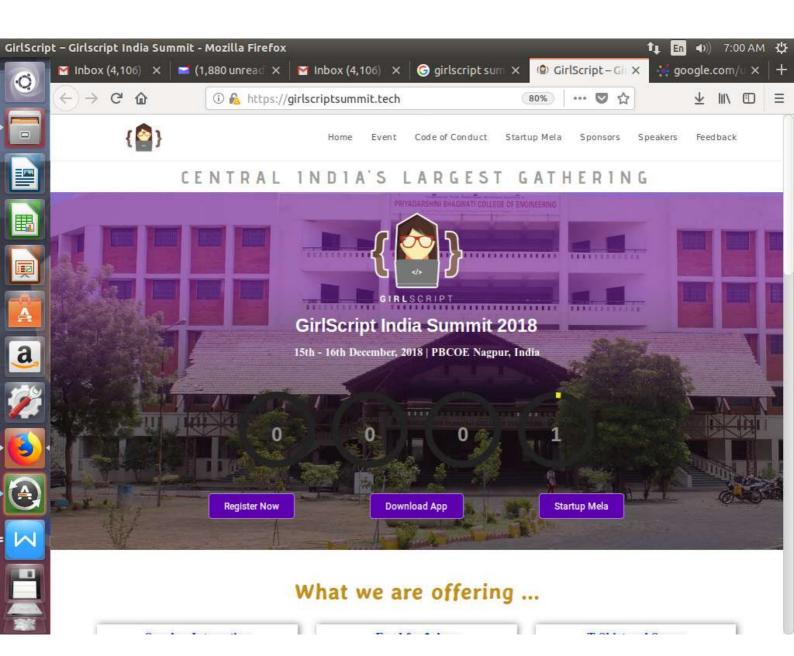




This certificate is proudly awarded to **Prof. Sapana Bhande**For Event coordination during **GirlScript India Summit 2018.** 

Anubha Maneshwar

Founding Director Girlscript Foundation Dr. N. K. Choudhari





Hot lunch will be served to all the registered

attendees for 2 days.



All the registered entries get access to a mobile

application in which they can directly chat with

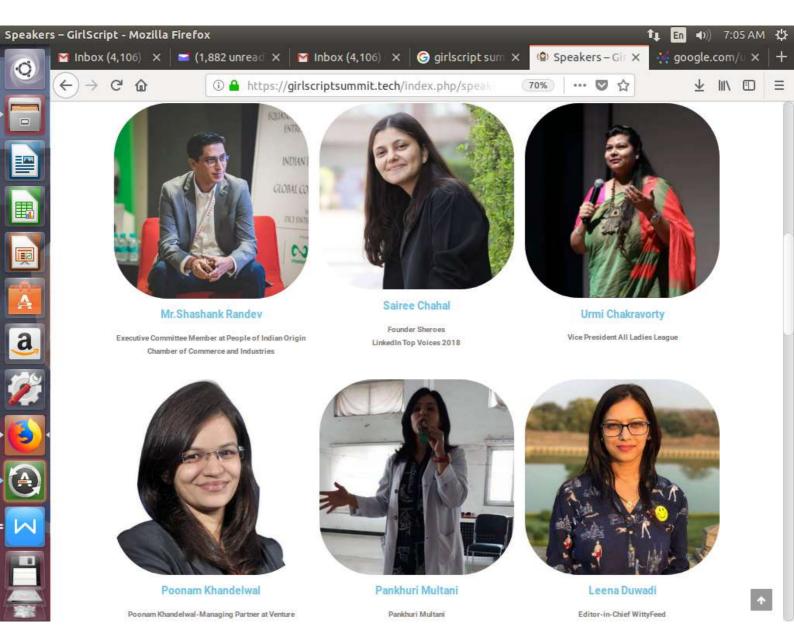
speakers and fellow attendees.

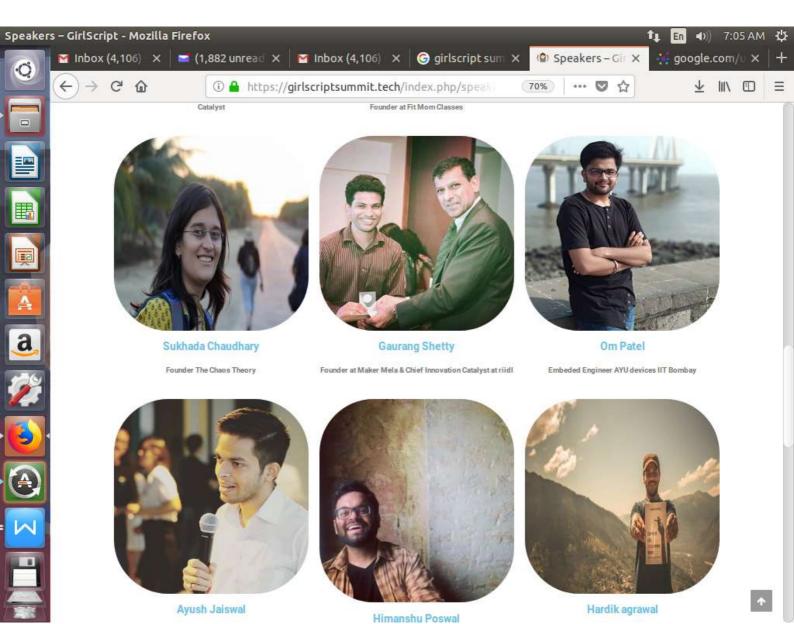


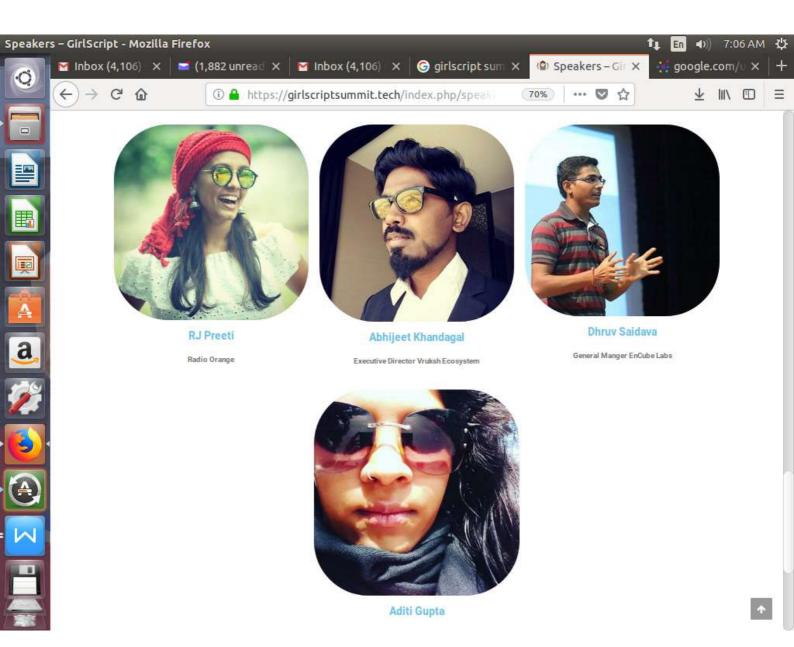
attendees.

A kit containing T-shirt, laptop stickers and

other goodies will be offered to all the









Science and Technology for Sustainable Development with Women Empowerment

Hosted by:





RASHTRASANT TUKADOJI MAHARAJ NAGPUR UNIVERSITY NAGPUR

THE INDIAN SCIENCE CONGRESS ASSOCIATION KOLKATA



Harpur Nagar, Umred Road (Near Bada Tajbagh), Nagpur-24
(Approved by AICTE, New Delhi, Govt. of Maharashtra
and affiliated to Rashtrasant Tukdoji Maharaj Nagpur University)
Email: principalpbcoe@gmail.com, Website: www.pbcoe.edu.in



#### NAAC Accredited

#### **Academic session 2022-23**

Report on "Project exhibition in Indian Science Congress 2023" under the NSS

1. Event Title : Project exhibition in Indian Science Congress 2023

Event Date and time : January 3<sup>rd</sup> to January 7<sup>th</sup> 2023

3. Event venue : Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur

4. Event resource person : NA

5. Name of Event Coordinator : Dr. P. M. Palkar T&P, Coordinator, PBCOE, Nagpur

Dr. S. P. Daf, Asst. Prof. Mech. Engg. Dept. PBCOE, Nagpur

Mr. D. B. Khadase, NSS Coordinator, PBCOE, Nagpur

6. Beneficiary : Society (Specially Farmer)

7. Objective : One of the primary objective of our students' projects was to actively engage with farmers during the exhibition. Visitors, especially farmers, found these projects to be highly relevant to their needs and challenges. Many farmers expressed their appreciation for the practicality and potential impact of these solutions on their farming practices. This engagement led to meaningful discussions and the sharing of valuable insights between our students and the farming community.

8. Outcome : The enthusiastic response from visitors, especially farmers, to our projects in smart agricultural machinery indicates a strong demand for innovative solutions in agriculture. This event has not only showcased the potential of science and technology but also served as a catalyst for social extension activities. The interaction between academia and the farming community during the event has paved the way for future collaborations.

Mr. D. B. Khadase Pregram Officer enal Service Scheme

P.B.C.O.E., Nagpur

Dr. S. P. Daf

**Event Co-Incharge** 

Dr. P. M. Palkar

**Event Incharge** 

Dr N K Choudhari

Principal

Wyadarshini Bhagwati College of Eng. Umred Roan Stanfort













Students explaining the project to visitor in 108<sup>th</sup> Indian science Congress



Harpur Nagar, Umred Road (Near Bada Tajbagh), Nagpur-24 (Approved by AICTE, New Delhi, Govt. of Maharashtra and affiliated to Rashtrasant Tukdoji Maharaj Nagpur University) Email: principalpbcoe@gmail.com, Website: www.pbcoe.edu.in



### NAAC Accredited

#### Academic session 2022-23

#### List of Volunteers

Name of Event: Project exhibition in Indian Science Congress 2023

Event Date a : January 3<sup>rd</sup> to January 7<sup>th</sup> 2023

Sr. No.	Name of Students	Sem	
1	Sahil Jagtap	III Sem ME	
2	Anuj Raju Dhande	III Sem ME	
3	Ayush Anil Mule	III Sem ME	
4	Prashant Feder	III Sem ME	
5	Karan Acharya	III Sem ME	
6	Mayur Sawane	III Sem ME	
7	Nihal Pise	VII Sem ME	
8	Bhavesh Rathod	VII Sem ME	
9	Nihak Kukade	VII Sem ME	
10	Rubel Pakalwar	VII Sem ME	
11	Pawan Tidke	VII Sem ME	
12	Snehil Dhanorkar	VII Sem ME	

Mr. D. B. Khadase

Programo Officer National Service Scheme P.B.C.O.E., Nagpur

Dr. S. P. Daf

**Event Co-Incharge** 

**Event Incharge** 

Dr. N. K. Choudhari

Principal
Principal
Principal
Priyadarshini Bhagwati College of Engg.

Umred-Road, Nagpur





# 108th Indian Science Congress

(ISC-2023)

### Science and Society

Organized by

R.T.M. Nagpur University, Nagpur, Maharashtra, India January 3 -7, 2023

A. Details of Project: 2



**Abstract**: In this project an approach has been made to modify solar water heater with modified heat exchanger. In view of energy crisis, the application of solar energy in the form of solar water heater is most useful for domestic commercial and industrial purpose but it was found that due to improper design of panel, the efficiency is reduced and there is a lot of wastage of space during installation. The main objective of this project is an attempt to change the design of solar water heater with the help of modified heat exchanger.

In order to make the best use of the available solar energy, the designee of the collector should be appropriate as it is the heart of the solar energy application. Parallelogram shape copper collector quoted with black paint has been constituted as the solar absorber on the collector. The problem of scale formation in the solar collector tube in conventional solar water heating system will result in reduced efficiency. To overcome this drawback of conventional water heater we have developed an idea in which we have incorporated modified heat exchanger in between the solar collector and the water tank. The liquid flowing through collector tube is distilled water having desired properties. Solar water heating system uses heat exchanger to transfer solar energy absorbed in the solar collector to the liquid stored in tank for use. The heat exchanger can be made up of steel, copper, bronze, stainless steel, aluminum or cast iron. Solar heating system usually uses copper because it has a good thermal conductivity and has a greater resistance towards corrosion.

Outcome: The efficiency of solar water heater is increase by 47.53%

Project Glimpses/Photograph





Institute Coordinator : Dr. P. M. Palkar Name & Contact No: 9421718060

Principal

Privadarshini Bhagwati College of Engg.

Umred Road Magnur





(ISC-2023)



Organized by



A. Details of Project: 3

Title	Fabrication of Solar dryer			
Details of Team (Name, contact No and Mail ID)				
Name Contact Mail Ro				
Pavan Tidke	8087414831	pavanandpavan99@gmail.com	Leader	
Snehil Dhanorkar	7083614512	sssdhanorkar711@gmail.com	Member	
Nihal Pise	8788860546	nihalpise25@gmail.com	Member	
Karan Pradip Acharya	7249338543	karanacharya067@gmail.com	Member	
Dr. A. D. Anjikar	9923290988	akshayanjikar@gmail.com	Co- Mentor	
Dr. P.M. Palkar	9421718060	tp.pbcoe@gmail.com	Mentor	
Name of College	Priyadarshini l	Bhagwati College of Engineering, N	Vagpur	
Area of Work	Solar and agriculture			

Abstract: The solar drying system utilizes solar energy to heat up air and to dry any food substance loaded, which is beneficial in reducing wastage of agricultural product and helps in preservation of agricultural product. Based on the limitations of the natural sun drying e.g. exposure to direct sunlight, liability to pests and rodents lack of proper monitoring, and the escalated cost of the mechanical dryer, a solar is therefore developed to cater for this limitation. This project presents the design, construction and performance of a mixed mode solar dryer for food preservation. In the dryer, the heated air from a separate solar collector is passed through a grain bed, and at the same time, the drying cabinet absorbs solar energy directly through the transparent walls and roof. The results obtained during the test period revealed that the temperatures inside the dryer and solar collector were much higher than the ambient temperature during most hours of the day-light. The temperature rise inside the drying cabinet was up to 74% for about three hours immediately after 12.00h (noonWe can dry tomatoes and then grind to use the powder made from these as the taste additives for various products like sauces, chips, wafers etc. Many beverages' industries like Haldiram, Balaji, Parley, Kissan etc. uses the powder made from tomato to make their beverages.

Outcome: The temperature rise inside the drying cabinet was up to 74%.

Project Glimpses/Photograph





Institute Coordinator : Dr. P. M. Palkar Name & Contact No: 9421718060

Principal

Privadarshini Bhagwati College of Engg.

Umred Road Mannur



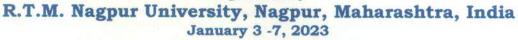


# 108th Indian Science Congress

(ISC-2023)

### Science and Society

Organized by



A. Details of Project: 1

Title	Fabrication of Gravity Separator machine for soyabean.			
Details of Team (Nam	e, contact No a	and Mail ID)		
Name	Contact Mail Role			
Rubel Robat Pakalwar	9373960757	rubelpakalwar2001@gmail.com	Leader	
Nihal Vinod Kukde.	8855022711	nihalofficial67@gmail.com	Member	
Ayush Anil mule	7841900763	ayushmule64@gmail.com	Member	
Anuj Raju Dhande	9322778521	vedantdhande01@gmail.com	Member	
Dr. Shailendra Daf	9665087710	Shailu_daf@rediffmail.com	Mentor	
Name of College	Priyadarshini Bhagwati College of Engineering, Nagpur			
Area of Work	Agriculture	Agriculture		

Abstract: agriculture plays a vital role in the Indian economy. Indian agriculture is at crossroads and one of the major challenges is to reverse deceleration in agricultural growth. The grains on handling after harvest contain various proportions of material other than grains (MOG) such as stone, pod, stem and dirt. Separation of the MOG is essential to upgrade the quality of food material. The development of a soybean grain separation machine presents a review of former needs/approaches. The Available evidence suggests that the grain separation machine in the rural areas by the traditional use of hand beating/ separation of the grains. This method reduces for time wasting, energy sapping and more labor. The objective of this work is to decrease the time required for dust separation thus it will be supportive for agriculture field. In agricultural field the grain separator machine is required for farmers to decrease the labor cost and also the time. And easily accessible in terms of cost and availability at regional level and also the materials used for the machine construction should be light in weight.

**Outcome:** This machine decreases the time required for separation of dust, contaminations, impurities and hauling from the heap of the harvested grains and also minimize labor cost, time and power.

Project Glimpses/Photograph



Institute Coordinator : Dr. P. M. Palkar

Name & Contact No: 9421718060

Andpen heor Brincibal

66ug to allowed and the Charge of Engg.

redibunita reciso, Magpu

M