BHARATI VIDYAPEETH'S
COLLEGE OF ENGINEERING, KOLHAPUR

Accredited by NAAC With 'A' Grade
Approved by AICTE, New Delhi & Affiliated to Shivaji University, Kolhapur
Near Chitranagari, Kolhapur - 416013 (MS)
DTE INSTITUTE CODE : EN-6288
Tel.No.: (0231) 2638893, 2638894, Fax : 2636050
Web : http://coekolhapur.bharatividyapeeth.edu E- mail : coekolhapur@bharatividyapeeth.edu

FOUNDER CHANCELLOR
Dr. Patangrao Kadam
M.A., LL. B., Ph. D.

PRINCIPAL
Dr. Vijay Ghorpade
M.E., Ph. D. (Computer)

# NAAC SSR CYCLE- 2

| | |
|---|---|
| **Criterion 3** | **Research, Innovations and Extension** |
| **Key Indicator 3.2** | **Innovation Ecosystem** |
| **3.2.1 Institution has created an ecosystem for innovations and has initiatives for the creation and transfer of knowledge (patents filed, published, incubation center facilities in the HEI to be considered)** | |

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Dr. Patangrao Kadam
M.A., LL. B., Ph. D.

PRINCIPAL
Dr. Vijay Ghorpade
M.E., Ph. D. (Computer)

# Documents Uploaded

Government of India
Ministry of Human Resource Development

MHRD'S
INNOVATION CELL
(GOVERNMENT OF INDIA)

INSTITUTION'S
INNOVATION
COUNCIL
(Ministry of HRD Initiative)

AICTE
All India Council for Technical Education

# CERTIFICATE

**This is to certify that**

**Bharati Vidyapeeth's College of Engineering, Kolhapur**

**has established Institution Innovation Council(IIC) as per the norms of Innovation Cell, Ministry of HRD, Govt. of India during IIC Calendar year 2018-19**

**Prof.Anil D.Sahasrabudhe**
**Chairman, AICTE**

**Shri. R. Subrahmanyam**
**Secretary, MHRD**

**Dr. Abhay Jere**
**CIO, MHRD, Innovation Cell**

Certificate No : 2422

Issuing Date: 18-11-2019

Ministry of Education
Government of India

MoE's INNOVATION CELL
(GOVERNMENT OF INDIA)

INSTITUTION'S INNOVATION COUNCIL
(Ministry of Education Initiative)

# CERTIFICATE

**Institution Innovation Council (IIC) established at**

**Bharati Vidyapeeth's College of Engineering, Kolhapur**

**had undertaken various activities prescribed by Innovation Cell, Ministry of Education, Govt. of India to promote Innovation and Start-up in campus during the IIC calendar year 2019-20.**

**Prof.Anil D.Sahasrabudhe**
**Chairman, AICTE**

**Sh. Amit Khare**
**Secretary, Department of Higher Education, MOE**

**Dr. Abhay Jere**
**CIO, MOE, Innovation Cell**

Certificate No : 2422

Issued On : 2020-09-22


Certificate No : 2422

Issued On : 2022-01-03


Ministry of Education
Government of India
सत्यमेव जयते
MoE's INNOVATION CELL
(GOVERNMENT OF INDIA)
INSTITUTION'S INNOVATION COUNCIL
(Ministry of Education Initiative)
AICTE
CERTIFICATE
Institution's Innovation Council (IIC) established at
Bharati Vidyapeeth's College of Engineering, Kolhapur , Kolhapur
had undertaken various activities prescribed by Innovation Cell, Ministry of Education, Govt. of India to promote Innovation and Start-up in campus during the IIC calendar year 2021-22.
Dr. Abhay Jere
Chief Innovation Officer
MOE, Innovation Cell
Mr. Dipan Sahu
Assistant Innovation Director
MOE, Innovation Cell
Certificate No : 2422
Issued On : 2022-11-17

**Letter of Appreciation**

Dear Sir/Madam,

Please accept our sincere gratitude to all the chief functionaries and every members of the IIC Institution's Innovation Council (IIC) of Bharati Vidyapeeth's College of Engineering, Kolhapur for the continuous support and contribution towards building the innovation and entrepreneurship culture development in your campus and also extending support to help other IIC institutions towards growth of the IIC network during the academic year 2021-22.

Chief Functionaries of the IIC at Bharati Vidyapeeth's College of Engineering, Kolhapur , Kolhapur

| Name | Position |
|---|---|
| Dr. Sanjay Shamrao Pawar | Convener |
| Mr. Vinay Sampatrao Mandlik | NIRF Coordinator,ARIIA Coordinator |
| Mr. Ranjeet R. Suryawanshi | Innovation Activity |
| Mr. Mayur M. More | Start up Activity Coordinator |
| Dr. Pralhad B. Patole | IPR Activity Coordinator,Vice President |
| Mr. Sagar B. Patil | Social Media,Member |
| Dr. Manik Sadashiv Sonawane | Internship Activity Coordinator,Member |
| Mrs. Sarita Shinde | Member |
| Amit Desai | Member |
| Mr. Asit Kittur | Member |

As we are progressing towards a 'quality' driven I&E ecosystem development, we strongly believe that the IIC model and its unique structure is definitely putting your HEI's thoughts, actions and aspirations in a systematic way to achieve inclusive and holistic development of the ecosystem.

Thank you & regards.

Yours Sincerely,

Dipan Kumar Sahu

Assistant Innovation Director
MoE's Innovation Cell, Govt. of India

Estd : 1962
NAAC 'A++' Grade
Accerediated by NAAAC (2021)
With CGPA3.52

SHIVAJI UNIVERSITY, KOLHAPUR - 416 004 MAHARASHTRA
PHONE: EPBX - 2609000 FAX:0091-0231-2691533 & 0091-0231-692333
DLL 0231-2609091, 2609135 Website : www.unishivaji.ac.in E-mail : affiliation.t2@unishivaji.ac.in
Website Conduit :(1)Affiliation →Affiliation T2 Circulars (2) Affiliation →Affiliation T2 Information Lists
शिवाजी विद्यापीठ, कोल्हापूर - ४१६ ००४ महाराष्ट्र
दूरध्वनी ईपीबीएक्स-२६०९०००, फॅक्स ००९१ ०२३१ २६९१५३३ व ००९१ ०२३१ ६९२३३३
संलग्नता टी-२ विभाग थेट दूरध्वनी क्र. ०२३१-२६०९०९१, २६०९१३५

संदर्भ क्र./शिवाजी वि/संलग्नता/टी-२ दि. 19 SEP 2022

No 00314

प्रति,
मा. प्राचार्य,
भारती विद्यापीठाचे कॉलेज ऑफ
इंजिनिअरींग, मोरेवाडी, जि.कोल्हापूर

**विषय - आपल्या महाविद्यालयाच्या Incubation Center करीता विद्यापीठाची मान्यता देण्याबाबत.**
**संदर्भ - १. आपले जा.क्र. BV/COEK/79/2022-213, Date.17/05/2022 रोजीचे पत्र.**
**२. आपले जा.क्र. भावि/अमको/294/2022-213, Date.07/09/2022 रोजीचे पत्र.**

**महोदय,**

आपला संदर्भ **BV/COEK/79/2022-213, Date.17/05/2022** रोजीच्या पत्राने **"Incubator Centre namely IoT based Engineering Solutions." (Common Facility Center)** या सेंटर करीता प्रस्ताव सादर केला असून त्यास विद्यापीठ अधिकार मंडळाने **(Common Facility Centre)** या संकल्पनेवर आधारीत **स्वनिधीतून सेंटर** सुरू करण्यास मान्यता देण्यात आलेली असून तसे प्रमाणीत करुन देण्यात येत आहे.

तसेच पत्र दिनांकापासून दर तीन वर्षानी **Incubation Center** च्या मुदतवाढीचा प्रस्ताव सर्वकष अहवालासह विद्यापीठास सादर करावा हि विनंती.

कळावे,

**आपला विश्वासू,**

**(श्री. विलास एस.सोयम)**
**उपकुलसचिव**
**संलग्नता टि-२ विभाग**

Dr. P.B. Patil
T. 23/9/22

BHARATI VIDHYAPEETH'S COLLEGE OF ENGINEERING ★ KOLHAPUR ★
INWARD No. 101
DATE :- 23/9/22

Date: 19 Sep. 2022

To,

The Principal,

Bharati Vidyapeeth's College of Engineering,

Morewadi, Dist. Kolhapur.

**Subject: Permission grant of Incubation Centre in college by the university**

Reference: 1. Letter BV/COEK/79/2022-213, Date.17/05/2022.

2. Letter BHVI/AMKO/294/2022-213, Date:07/09/2022.

Dear,

With reference to your letter BV/COEK/79/2022-213, Dated.17/05/2022 received regarding the Proposal of an "Incubation Center namely IoT-based Engineering Solutions." (Common Facility Centre). The University authority committee (Common Facility Centre) has given the approval to start an Incubation Center with self-finance bases.

Also, request you to apply to increase the validity of the centre every three years with an overall progress report.

Thank You.

Your faithfully

(Shri. Vikas S. Soyam)

Deputy Registrar

affiliation T-2 Department

# BHARATI VIDYAPEETH'S

# COLLEGE OF ENGINEERING, KOLHAPUR

## Patent Details

| Year | 2021-22 | 2020-21 | 2019-20 | 2018-19 | 2017-18 |
|---|---|---|---|---|---|
| Number | 07 | 02 | 01 | 00 | 02 |

| Sr. No. | Name of the teacher | Title of patent | Type of patent (National/ International) | Application Number | Status (Filed/published/ awarded) |
|---|---|---|---|---|---|
| 1 | Dr. Sunil Jagannath Kadam | COST-EFFECTIVE ELECTROSPINNING SETUP FOR SYNTHESIS OF NANOFIBERS | National | 202121004762 | Awarded |
| 2 | Ms. Sarita Santaji Shinde | AI & ML BASED SYSTEM FOR PREDICTION OF WIND POWER FOR MULTI-TURBINES | National | 202221050126 | Published |
| 3 | Ms. Sarita Santaji Shinde | A SYSTEM FOR MAPPING CANCER COMMON DATA ELEMENTS USING ANN & AI MODULES | National | 202221051203 | Published |
| 4 | Dr. Rajkumar K. Chougale | BATTERY MANAGEMENT SYSTEM FOR GREEN ENERGY STORAGE | National | 202221048908 | Published |
| 5 | Mr. Vinay S Mandlik | BATTERY MANAGEMENT SYSTEM FOR GREEN ENERGY STORAGE | National | 202221048908 | Published |
| 6 | Dr. Rajkumar K. Chougale | DESIGN AND IMPLEMENTATION OF A SMART SOLAR PANEL WITH AUTO RECTIFICATION AND SELF PHASED MANAGEMENT FEATURES | National | 202221036570 | Published |
| 7 | Dr. Rajkumar K. Chougale | DESIGN OF SOLAR THERMAL POWER INTEGRATION SYSTEMS TO INCREASE THE EFFICIENCY OF UTILISATION OF RENEWABLE ENERGY RESOURCES IN HOUSING UNITS | National | 202211035079 | Published |
| 8 | Dr. Vijay Ram Ghorpade | DYNAMIC TRUST MANAGEMENT FOR COMMUNITY BASED MOBILE GRID APPLICATION | National | 201921047137 | Published |
| 9 | Dr. Vijay Ram Ghorpade | INTELLIGENT COIN SEPARATOR | National | 201821038013 | Published |
| 10 | Dr. Vijay Ram Ghorpade | SECURE ROUTING PROTOCOL FOR MOBILE AD-HOC NETWORK (MANET) | National | 201921053631 | Published |
| 11 | Dr. Sunil Jagannath Kadam | DESIGN, FABRICATION AND ANALYSIS OF SOYABEAN MOISTURE REDUCING MACHINE IN SOYBEANS | National | 201621003189 | Published |
| 12 | Dr. Vijay Ram Ghorpade | METHOD AND APPARATUS FOR HIGH PERFORMANCE COMPUTING USING MOBILE GRID | National | 4218/MUM/2015 | Published |

ORIGINAL

No. 108640

सत्यमेव जयते

भारत सरकार

GOVERNMENT OF INDIA

पेटेंट कार्यालय

THE PATENT OFFICE

# CERTIFICATE OF REGISTRATION OF DESIGN

| | |
|---|---|
| Design No. | 355606-001 |
| Date | 28/12/2021 11:35:53 |
| Reciprocity Date* | |
| Country | |

Certified that the design of which a copy is annexed hereto has been registered as of the number and date given above in class 10-04 in respect of the application of such design to PROBE FOR MEASURING SEMICONDUCTOR DEVICE CHARACTERISTICS in the name of 1.DR. TUKARAM D. DONGALE, RS NO. 54/8, PLOT NO. 9, INDIANAGAR, NEAR MOREWADI LAST BUS STOP, MOREWADI, TAL-KARVEER, DIST-KOLHAPUR-416013 2. DR. SUNIL J. KADAM, PLOT NO 29 SURVEY NO 75 NEAR R K NAGAR SCT NO. 3 BHARATI NAGAR MOREWADI KOLHAPUR-416013 3. DR. SACHIN SHANKARRAO CHAVAN, PIYUSH VILLA, FLAT NO. 21 SR. NO. 73 NEAR NARAYANI DHAM KATRAJ PUNE-411046

in pursuance of and subject to the provisions of the Designs Act, 2000 and the Designs Rules, 2001.

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

*The reciprocity date (if any) which has been allowed and the name of the country.
Copyright in the design will subsist for ten years from the date of Registration, and may underthe terms of the Act and Rules, be extended for a further period of five years.
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RAJAT MALHOTRA,
IDEAS2IPR,B-115 CHANDER NAGAR, JANAK PURI,
NEW DELHI-110058

Date of Issue 11/02/2022 12:20:57

# पेटेंट कार्यालय
# शासकीय जर्नल

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| | | |
|---|---|---|
| निर्गमन सं. 37/2022 | शुक्रवार | दिनांक: 16/09/2022 |
| ISSUE NO. 37/2022 | FRIDAY | DATE: 16/09/2022 |


पेटेंट कार्यालय का एक प्रकाशन
PUBLICATION OF THE PATENT OFFICE

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :02/09/2022

(21) Application No.202221050126 A
(43) Publication Date : 16/09/2022

(54) Title of the invention : AI & ML BASED SYSTEM FOR PREDICTION OF WIND POWER FOR MULTI-TURBINES

(51) International classification :C07K0007060000, A61P0019100000, G01N0033574000, D06F0058200000, H04N0001000000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
**1)Dr. Santaji Krishna Shinde**
Address of Applicant :Professor & Dean, Department of Computer Engineering, Vidya Pratishthan's Kamalnayan Bajaj Institute of Engineering and Technology, Baramati Dist. Pune, Maharashtra, India, Pin.413133 Pune ---------- ----------
**2)Mrs. Sarita Santaji Shinde**
**3)Dr. A. Sivakumar**
**4)Dr. Bibhuti Bhusan Pradhan**
**5)Dr. R. Vijaya Kumar Reddy**
**6)Dr. Catherine T. J.**
**7)Mr. V. Prabhu**
**Name of Applicant : NA**
**Address of Applicant : NA**
(72)**Name of Inventor :**
**1)Dr. Santaji Krishna Shinde**
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**2)Mrs. Sarita Santaji Shinde**
Address of Applicant :Assistant Professor, Department of General Science, Bharati Vidyapeeth's College of Engineering, Kolhapur, Maharashtra, India, Pin. 416013 Kolhapur ---------- ----------
**3)Dr. A. Sivakumar**
Address of Applicant :Associate Professor, Department of Electrical and Electronics Engineering, Panimalar Engineering College, Nazarathpet, Poonamallee, Chennai, India, PIN: 600 123 Chennai ---------- ----------
**4)Dr. Bibhuti Bhusan Pradhan**
Address of Applicant :Associate Professor, Department of ECE, Malla Reddy Engineering College, Hyderabad, Pin Code: 500100 Hyderabad ---------- ----------
**5)Dr. R. Vijaya Kumar Reddy**
Address of Applicant :Associate Professor, Department of Computer Science and Engineering, Koneru Lakshmaiah Education Foundation, Vaddeswaram, AP, India Vaddeswaram ---------- ----------
**6)Dr. Catherine T. J.**
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**7)Mr. V. Prabhu**
Address of Applicant :Assistant Professor, Department of Mechanical Engineering, Sri Sai Ram Engineering College, Chennai -600044 Chennai ---------- ----------

(57) Abstract :
The present invention relates to an AI & ML based system for prediction of wind power for multi-turbines. The methods from machine learning and artificial intelligence have been used to forecast wind energy. In terms of feature extraction and model generalisation, machine learning enhances more traditional machine learning techniques. When processing data with spatial structure, Convolutional Neural Network (CNN) performs exceptionally well, whereas among popular deep learning techniques, time series problems are where CNN excels. In order to prevent the instability of the power grid, each wind turbine in a wind farm needs to have its power distribution set up in accordance with its specific operating circumstances, necessitating power forecasting for each wind turbine. Accompanied Drawing [FIG. 1]


FIG. 1

No. of Pages : 16 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :07/09/2022

(21) Application No.202221051203 A
(43) Publication Date : 16/09/2022

(54) Title of the invention : A SYSTEM FOR MAPPING CANCER COMMON DATA ELEMENTS USING ANN & AI MODULES

(51) International classification :F21Y0115100000, A01N0043560000, A01N0047020000, A61P0019100000, B29C0065000000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
**1)Dr. Santaji Krishna Shinde**
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**2)Mrs. Sarita Santaji Shinde**
**3)Dr. R. Pitchai**
**4)Dr. B. Uma Maheswari**
**5)Mrs. R Sujatha**
**6)Ms. Anuradha Reddy**
**7)Dr. V. Mohanavel**
**Name of Applicant : NA**
**Address of Applicant : NA**
(72)**Name of Inventor :**
**1)Dr. Santaji Krishna Shinde**
Address of Applicant :Professor & Dean, Department of Computer Engineering, Vidya Pratishthan's Kamalnayan Bajaj Institute of Engineering and Technology, Baramati, Dist. Pune, Maharashtra, India, Pin.413133 Baramati ---------- ----------
**2)Mrs. Sarita Santaji Shinde**
Address of Applicant :Assistant Professor, Department of General Science, Bharati Vidyapeeth's College of Engineering, Kolhapur, Maharashtra, India, Pin. 416013 Kolhapur ---------- ----------
**3)Dr. R. Pitchai**
Address of Applicant :Associate Professor, Department of Computer Science and Engineering, B V Raju Institute of Technology, Narsapur, Medak, Telangana, India, Pin: 502313 Narsapur ---------- ----------
**4)Dr. B. Uma Maheswari**
Address of Applicant :Associate Professor, Department of Computer Science and Engineering, St. Joseph's College of Engineering, OMR, Chennai, Tamilnadu, India, Pin: 600119 Chennai ---------- ----------
**5)Mrs. R Sujatha**
Address of Applicant :Assistant Professor (Selection Grade), Department of Information Technology,M.Kumarasamy College of Engineering, Thalavapalayam, Karur-639 113 Karur ---------- ----------
**6)Ms. Anuradha Reddy**
Address of Applicant :Assistant Professor, Department of Computer Science and Engineering, Maisammaguda, Secunderabad - 500010 Secunderabad ---------- ----------
**7)Dr. V. Mohanavel**
Address of Applicant :Associate Professor, Centre for Materials Engineering and Regenerative Medicine, Bharath Institute of Higher Education and Re-search, Chennai - 600073, Tamilnadu, India Chennai ---------- ----------

(57) Abstract :
[050] The present invention discloses a system for mapping cancer common data elements using Artificial Neural Network & Artificial Intelligence modules. The system is comprised of, but not limited to, the neural networks that contain artificial neural networks designed to recognize cells, objects, or substances that point to the presence of a particular kind of cancer. A second neural network may identify additional chemicals or cells that correspond to the same or a different type of cancer. For instance, a first neural network may identify cells that correspond to a certain type of cancer. A certain sort of examination may determine the kinds of particles that are looked for and, consequently, the neural networks that are employed for categorization. Accompanied Drawings [FIGS. 1-2]

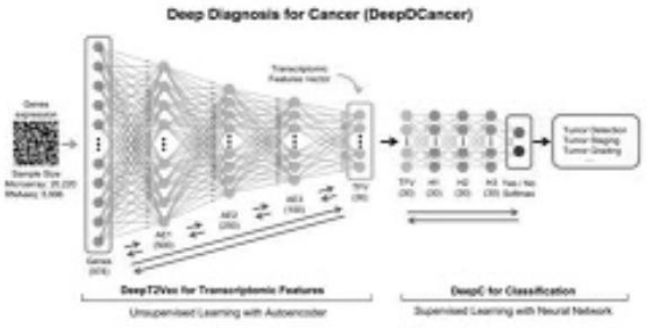

Figure 1

No. of Pages : 21 No. of Claims : 8

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

सत्यमेव जयते

INTELLECTUAL PROPERTY INDIA
PATENTS | DESIGNS | TRADE MARKS
GEOGRAPHICAL INDICATIONS

| Application Details | |
|---|---|
| APPLICATION NUMBER | 202221048908 |
| APPLICATION TYPE | ORDINARY APPLICATION |
| DATE OF FILING | 26/08/2022 |
| APPLICANT NAME | 1 . Ravindra Mukund Malkar<br>2 . Vaibhav Baburao Magdum<br>3 . Dr. Rajkumar Kundlik Chougale<br>4 . Vinay Sampatrao Mandlik |
| TITLE OF INVENTION | BATTERY MANAGEMENT SYSTEM FOR GREEN ENERGY STORAGE |
| FIELD OF INVENTION | ELECTRICAL |
| E-MAIL (As Per Record) | ravimalkar@gmail.com |
| ADDITIONAL-EMAIL (As Per Record) | ravimalkar@gmail.com |
| E-MAIL (UPDATED Online) | |
| PRIORITY DATE | |
| REQUEST FOR EXAMINATION DATE | -- |
| PUBLICATION DATE (U/S 11A) | 09/09/2022 |

| Application Status |
|---|

# पेटेंट कार्यालय
# शासकीय जर्नल

# OFFICIAL JOURNAL
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|---|---|---|
| निर्गमन सं. 29/2022 | शुक्रवार | दिनांक: 22/07/2022 |
| ISSUE NO. 29/2022 | FRIDAY | DATE: 22/07/2022 |


पेटेंट कार्यालय का एक प्रकाशन
PUBLICATION OF THE PATENT OFFICE

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :25/06/2022

(21) Application No.202221036570 A

(43) Publication Date : 22/07/2022

(54) Title of the invention : DESIGN AND IMPLEMENTATION OF A SMART SOLAR PANEL WITH AUTO RECTIFICATION AND SELF PHASED MANAGEMENT FEATURES

| | |
|---|---|
| (51) International classification | :H02S0020240000, A61C0007000000, H02S0020230000, H02S0020000000, F24S0025130000 |
| (86) International Application No<br>Filing Date | :NA<br>:NA |
| (87) International Publication No | : NA |
| (61) Patent of Addition to Application Number<br>Filing Date | :NA<br>:NA |
| (62) Divisional to Application Number<br>Filing Date | :NA<br>:NA |

(71)**Name of Applicant :**
**1)DR. SANJAY SINGH THAKUR**
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**2)DR. K DHANANJAY RAO**
**3)DR. RAJKUMAR KUNDLIK CHOUGALE**
**4)KIRAN**
**5)DR. NIMISH H. VASOYA**
**6)DR. BASANT KUMAR DAS**
**7)RAJASEKARAN N**
**8)DR. KIRTI SAHU**
**9)DHANAPAL M**
**10)DR R ASHOK KUMAR**
**11)PROF (DR) VIVEK SINGH KUSHWAH**
**12)DR. MAHESH DHONDE**
**Name of Applicant : NA**
**Address of Applicant : NA**
(72)**Name of Inventor :**
**1)DR. SANJAY SINGH THAKUR**
Address of Applicant :TECHNICAL HEAD, SUYOG TELEMATICS, MUMBAI Mumbai ---------- ----------
**2)DR. K DHANANJAY RAO**
Address of Applicant :ASSISTANT PROFESSOR, DEPARTMENT OF EEE, VELAGAPUDI RAMAKRISHNA SIDDHARTHA ENGINEERING COLLEGE PIN-520007LEGE, VIJAYAWADA Vijayawada ---------- ----------
**3)DR. RAJKUMAR KUNDLIK CHOUGALE**
Address of Applicant :ASSISTANT PROFESSOR IN ELECTRICAL ENGINEERING, BHARATI VIDYAPEETH COLLEGE OF ENGINEERING, KOLHAPUR (MAHARASHTRA) 416013 Kolhapur ---------- ----------
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**8)DR. KIRTI SAHU**
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**12)DR. MAHESH DHONDE**
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(57) Abstract :
Design and implementation of a smart solar panel with auto rectification and self phased management features is the proposed invention. The invention aims at designing a smart solar panel that can identify the problems that are erupted in the solar panels. The proposed invention focuses on auto-rectification along with wear and tear of parts of solar panel through self-phased management.

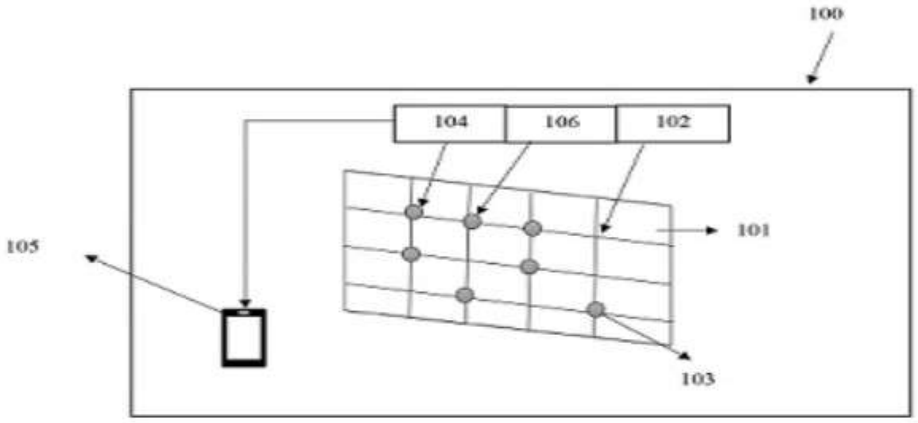


Figure 1: Schematic view

No. of Pages : 12 No. of Claims : 4

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :19/06/2022

(21) Application No.202211035079 A
(43) Publication Date : 01/07/2022

(54) Title of the invention : DESIGN OF SOLAR THERMAL POWER INTEGRATION SYSTEMS TO INCREASE THE EFFICIENCY OF UTILISATION OF RENEWABLE ENERGY RESOURCES IN HOUSING UNITS

(51) International classification :H02J0003380000, H02J0003460000, C10L0003100000, G06Q0010060000, F03G0006060000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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**3)DR. SARIKA SHRIVASTAVA**
**4)DR. DIGAMBAR MAHADEO SAPKAL**
**5)OMBEER SAINI**
**6)DR.J.KARTIGEYAN**
**7)DR.P.ARULKUMAR**
**8)S SULOCHANA**
**9)DR HARISHCHANDER ANANDARAM**
**10)S.JOSHUA DANIEL**
**11)BENNY JOHN J**
**12)SURESH C**
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Address of Applicant :ASSISTANT PROFESSOR, CHEMISTRY, G.T.N ARTS COLLEGE, DINDIGUL-624005 Dindigul ---------- ----------
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(57) Abstract :
Design of Solar thermal power integration systems to increase the efficiency of utilisation of renewable energy resources in housing units is the proposed invention. The proposed invention focuses on integrating the solar thermal power to the electricity supply of housing units. The invention focuses on utilization renewable energy resources rather than Non-renewable energy resources saving the environment. The invention also aims to decrease the financial expenses experienced by users.

No. of Pages : 12 No. of Claims : 3

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# शासकीय जर्नल

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :19/11/2019

(21) Application No.201921047137 A
(43) Publication Date : 21/05/2021

(54) Title of the invention : DYNAMIC TRUST MANAGEMENT FOR COMMUNITY BASED MOBILE GRID APPLICATION

| | |
|---|---|
| (51) International classification | :H04L0029060000, G06F0021620000, G06Q0030020000, G06F0021000000, G11C0016240000 |
| (31) Priority Document No | :NA |
| (32) Priority Date | :NA |
| (33) Name of priority country | :NA |
| (86) International Application No | :NA |
| Filing Date | :NA |
| (87) International Publication No | : NA |
| (61) Patent of Addition to Application Number | :NA |
| Filing Date | :NA |
| (62) Divisional to Application Number | :NA |
| Filing Date | :NA |

(71)**Name of Applicant :**
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**2)DR. VIJAY RAM GHORPADE**
(72)**Name of Inventor :**
**1)GRANTEJ VINOD OTARI**
**2)DR. VIJAY RAM GHORPADE**

(57) Abstract :
The Mobile Grid is the inter-networking of heterogeneous physical as well as virtual devices. Each device transfer and share the information with each other. Trust management plays an important role in community based applications for reliable data fusion, data mining, qualified services with context-awareness, enhanced user privacy and information security. It helps people overcome perceptions of uncertainty, risk and engages in user acceptance to consumption on grid services and applications. In this paper a dynamic trust management protocol is proposed for community based mobile grid application to deal with misbehaving nodes whose status or behavior may change dynamically. Trust plays an important role for handling the security in the community based system. Trust management provides facilitate to identify malfunctions and also make legitimate collaboration and enhance the user privacy and information security.

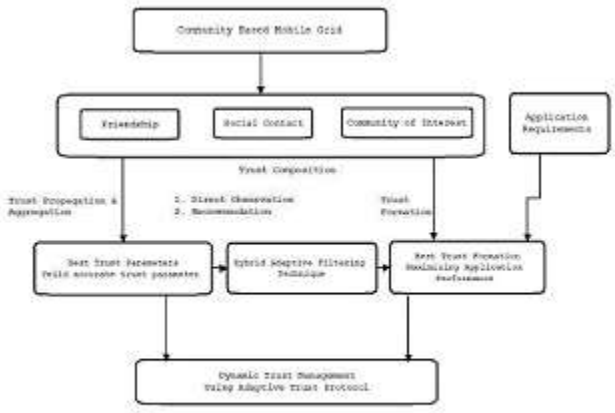


**Figure 01: System Architecture**

No. of Pages : 5 No. of Claims : 2

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :08/10/2018

(21) Application No.201821038013 A
(43) Publication Date : 15/01/2021

(54) Title of the invention : INTELLIGENT COIN SEPARATOR

| | |
|---|---|
| (51) International classification | :G06Q0020040000, G06Q0010060000, G07D0009000000, G07D0011500000, G07D0003120000 |
| (31) Priority Document No | :NA |
| (32) Priority Date | :NA |
| (33) Name of priority country | :NA |
| (86) International Application No<br>Filing Date | :NA<br>:NA |
| (87) International Publication No | : NA |
| (61) Patent of Addition to Application Number<br>Filing Date | :NA<br>:NA |
| (62) Divisional to Application Number<br>Filing Date | :NA<br>:NA |

(71)**Name of Applicant :**
**1)BHARTI VIDYAPEETH'S COLLEGE OF ENGINEERING,KOLHAPUR.**
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**1)DR. VIJAY RAM GHORPADE**
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**3)MR. ATISH NAMDEV KUMBHAR**
**4)MR. UTTAM SHIVAJI GORULE**
**5)MR. SAYAJI VIJAYSINH INGALE**
**6)MR. SAHIL SANJEEV CHOUGULE**
**7)MR. NITIN KRISHNATH MADAKE**

(57) Abstract :
The objective of this project is to study the separation and counting of the coins. The proposal of this project is based on weight detection method. A coin sorter is a machine that sorts mixed coins into their separate denomination using either mechanical or manual process. Coin sorters are used by wide variety of business who deals with mixed coin, because its saves time compared with doing manually. In this project a coin separated and counting machine is implemented which can differentiate one, two, five and ten rupee coins accurately and automatically by using microcontroller as an operating platform.

No. of Pages : 28 No. of Claims : 6

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पेटेंट कार्यालय का एक प्रकाशन
PUBLICATION OF THE PATENT OFFICE

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :24/12/2019

(21) Application No.201921053631 A
(43) Publication Date : 03/01/2020

(54) Title of the invention : SECURE ROUTING PROTOCOL FOR MOBILE AD-HOC NETWORK (MANET)

| | |
|---|---|
| (51) International classification | :G06F 17/00 |
| (31) Priority Document No | :NA |
| (32) Priority Date | :NA |
| (33) Name of priority country | :NA |
| (86) International Application No | :NA |
| Filing Date | :NA |
| (87) International Publication No | : NA |
| (61) Patent of Addition to Application Number | :NA |
| Filing Date | :NA |
| (62) Divisional to Application Number | :NA |
| Filing Date | :NA |

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(72)**Name of Inventor :**
**1)DR. VIJAY RAM GHORPADE**
**2)PROF.(DR.) RAJANISH KAMALAKAR**
**3)DR. SHIVAJI BABASO SADALE**

(57) Abstract :
7. Abstract This invention is related to secure routing protocol for Mobile Ad-hoc Network (MANET). Secure routing protocol provides security in routing and also to individual data packets. The present invention provides security to data packets, routing path and can be used to identify secure neighbors and detect the intrusions. This secure routing protocol finds legitimate nodes, provides cryptographic shield to data packets using hybrid cryptography. This protocol also detects attacks which are implemented by malicious nodes and prevents these malicious nodes from routing by banning them for some time in data transmission.

No. of Pages : 19 No. of Claims : 6

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**पेटेंट कार्यालय का एक प्रकाशन**
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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :29/01/2016

(21) Application No.201621003189 A
(43) Publication Date : 20/10/2017

(54) Title of the invention : DESIGN, FABRICATION AND ANALYSIS OF SOYABEAN MOISTURE REDUCING MACHINE IN SOYBEANS

| | | |
|---|---|---|
| (51) International classification | :A23N 5/00 | (71)**Name of Applicant :** **1)BHARATI VIDYAPEETH'S COLLEGE OF ENGINEERING, KOLHAPUR** Address of Applicant :BHARATI VIDYAPEETH'S COLLEGE OF ENGINEERING, NEAR CHITRANAGARI KOLHAPUR, MAHARASHTRA, INDIA 416013 Maharashtra India |
| (31) Priority Document No | :NA | |
| (32) Priority Date | :NA | |
| (33) Name of priority country | :NA | |
| (86) International Application No | :NA | |
| Filing Date | :NA | (72)**Name of Inventor :** |
| (87) International Publication No | : NA | **1)MR. JOSHI SANKET SANJAY** |
| (61) Patent of Addition to Application Number | :NA | **2)MR. PANDIT SHAMUEL VINOD** |
| Filing Date | :NA | **3)MR. KADAM SUNIL. J** |
| (62) Divisional to Application Number | :NA | **4)MR. SAYYAD MOHSIH. A** |
| Filing Date | :NA | **5)MR. SAVARDEKAR ROHAN. R** |
| | | **6)MR. PATIL GURUPRASAD K** |

(57) Abstract :
India is an agricultural based country. More than 70% of Indian population lives in villages. Their main source of income is from agriculture. Most agricultural products are affected by heavy rain in return of monsoon .Farmers use conventional process like sun drying for reducing moisture in the agricultural products. For drying of an agricultural product requires more effort and it is time consuming process. To reduce farmer efforts and money we developed this machine. Conventional process requires more manpower, more space, money and most important time. In proposed technology this drying process is semi automatic using simple mechanism with help of electric motor and heater.

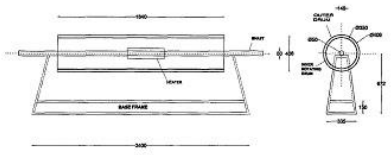

Figure 1: CAD model of moisture reducing machine.

No. of Pages : 12 No. of Claims : 3

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# OFFICIAL JOURNAL
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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :05/11/2015

(21) Application No.4218/MUM/2015 A
(43) Publication Date : 12/05/2017

(54) Title of the invention : METHOD AND APPARATUS FOR HIGH PERFORMANCE COMPUTING USING MOBILE GRID

| | | |
|---|---|---|
| (51) International classification | :H04W 52/00 | (71)**Name of Applicant :** **1)Mr. Savyanavar Amit Sadanand** Address of Applicant :B-15, Yashsada complex, Sainagar, Ambegaon Budruk, Pune, Maharastra Maharashtra India **2)Dr. Vijay R. Ghorpade** |
| (31) Priority Document No | :NA | |
| (32) Priority Date | :NA | |
| (33) Name of priority country | :NA | |
| (86) International Application No | :NA | (72)**Name of Inventor :** **1)Mr. Savyanavar Amit Sadanand** **2)Dr. Vijay R. Ghorpade** |
| Filing Date | :NA | |
| (87) International Publication No | : NA | |
| (61) Patent of Addition to Application Number | :NA | |
| Filing Date | :NA | |
| (62) Divisional to Application Number | :NA | |
| Filing Date | :NA | |

(57) Abstract :
Present invention provides specially a method and apparatus for high performance computing using mobile grid (MG). The system focuses on developing an efficient model for allocation of tasks to nodes in a MG. The resource allocation model will discover nodes which will provide long term connectivity i.e. identifying nodes which will be in the network for longer periods based on their real-world mobility data. The system will be able to predict the next location based on the mobility history of the nodes gathered in real-world. The important objective is to improve battery life by trying to reduce communication cost i.e. conservation of energy due to communication amongst the tasks allocated to the mobile nodes. In addition, a failure handling mechanism in the system will deal with node failures. Following invention is described in detail with the help of Figure 1 of sheet 1 showing the model of the proposed system.

No. of Pages : 14 No. of Claims : 5

# INTELLECTUAL PROPERTY RIGHTS POLICY

# OF

# INTELLECTUAL PROPERTY CELL

(V1/R1)

## PREAMBLE:

BHARATI VIDYAPEETH'S COLLEGE OF ENGINEERING, KOLHAPUR (hereafter referred to as 'BHARATI VIDYAPEETH') is an academic Institute dedicated to excellence in teaching and research. Its activities, centered on faculty/students/project staff/ supporting staff/visitors are based on knowledge and intellectual exercise. In the era of technology domination, where values and perceptions change at brisk pace, BHARATI VIDYAPEETH'S COLLEGE OF ENGINEERING, KOLHAPUR, in particular, have to preserve the fundamental spirit of academics on one hand and have to march ahead, on the other, accepting changing realities of business economy based on knowledge generated, protected and disseminated under the intellectual property regime. In the evolving scenario of the world today, with increasing awareness of the 'knowledge asset', an Intellectual Property Rights (IPR) Policy is needed not only to preserve the interest of BHARATI VIDYAPEETH but also to make BHARATI VIDYAPEETH faculty/students /project staff/ supporting staff/ visitors aware of 'knowledge asset and its impact on the society'.

The present policy facilitates protection of the right of the Inventor(s) of BHARATI VIDYAPEETH i.e. faculty/students /project staff/ supporting staff /visitors of BHARATI VIDYAPEETH through the option of Intellectual property protection on a novel work or to keep it in public domain as they may deem fit. In alignment with the Vision and Mission of BHARATI VIDYAPEETH, the policy favors outreach of the novel technologies developed at BHARATI VIDYAPEETH. At the same time, it motivates the faculty, students and researchers of BHARATI VIDYAPEETH to initiate technology transfer using the intellectual property rights gained over a novel technology.

In today's knowledge based economy, bio-based sectors are fast emerging and are also being promoted by BHARATI VIDYAPEETH. The present policy intends to take into consideration the sustainable use of biological diversity by BHARATI VIDYAPEETH faculty/students /project staff/ supporting staff, its conservation, deposition of biological samples and use of natural resource based traditional knowledge as per the Indian statutory IP regime.

## OBJECTIVES:

The objectives of this policy document are as given below:

a) To foster, stimulate and encourage creative activities in the widest sense in all the areas in which academic, consultancy and research programs are offered by Bharati Vidyapeeth's College of Engineering, Kolhapur.

b) To protect the legitimate interest of faculty / scholars / students of Bharati Vidyapeeth's College of Engineering, Kolhapur and to avoid as far as possible conflict of opposing interests.

c) To lay down a transparent administration system for the ownership and control of intellectual properties and sharing of the revenues generated and owned by Bharati Vidyapeeth's College of Engineering, Kolhapur.

d) It shares a global perception of practices related to intellectual property retaining national identity and local constraints, avoiding as far as possible 'conflict' of opposing interests.

e) The policy promotes fair use of traditional knowledge while recognizing local traditional knowledge stakeholders and benefit sharing.

## TYPES OF IP

The intellectual properties can be broadly listed as:

a) Patents

b) Copyrights

c) Trade/Service marks

d) Industrial designs

e) Traditional knowledge and Geographical Indications

## DEFINITIONS:

The meaning of terms applied in this policy are as below (unless the context otherwise requires,).

a) **Patent-** is an exclusive right granted for an invention, which is a product or a process that provides a new way of doing something, or offers a new technical solution to a problem.

b) **Copyright-** is an exclusive right given to the author of the original literary, architectural, dramatic, musical and artistic works; cinematograph films; and sound recordings.

c) **Trade/Service mark-** means a mark capable of being represented graphically and which is capable of distinguishing the goods or services of one person from those of others and may include shape of goods, their packaging and combination of colors.

d) **Industrial Design-** means only the features of shape, configuration, pattern, ornament or composition of lines or colors applied to any article whether in two dimensional or three dimensional or in both forms, by any industrial process or means, whether manual, mechanical or chemical, separate or combined, which in the finished article appeal to and are judged solely by the eye; but does not include any mode or principle of construction or anything which is in substance a mere mechanical device.

e) **Traditional Knowledge-** The knowledge developed by the indigenous or local communities for the use of a natural resource with respect to agriculture, food, medicine etc. over a period of time and has been passed from one generation to another traditionally.

f) **Geographical Indications-** means an indication which identify such goods as agricultural goods, natural goods as originating or manufactured in the territory of a country or manufactured in the territory of a country or a region or locality in that territory where a given quality, reputation or other characteristic of such goods is essentially attributable to its geographical origin and in case where such goods are manufactured one of the activities of either the production or of processing or preparation of the goods concerned takes place in such territory, regions or locality as the case may be.

g) **First Party** – Bharati Vidyapeeth's College of Engineering, Kolhapur (BHARATI VIDYAPEETH).

h) **Second Party**- Faculty, Supporting staff, Project staff and Students of BHARATI VIDYAPEETH.

i) **Faculty** means a person professionally qualified to carry out teaching and research at BHARATI VIDYAPEETH as a whole time employee, Visiting professor appointed by BHARATI VIDYAPEETH. (Note this definition of faculty is meant only for the purposes of this document and in not intended to replace the definition of faculty in the statutes or other documents of Bharati Vidyapeeth's College of Engineering, Kolhapur.)

j) **Supporting Staff** means a person employed full-time or part-time by BHARATI VIDYAPEETH to support the research, development, teaching and other supporting activities (including administrative activities) of BHARATI VIDYAPEETH.

k) **Student** means a person who has registered or enrolled as full-time student, part-time student, casual student or exchange student from other universities/colleges for

l) **Project staff** means a person employed temporarily on a contract under a research project, consultancy or any other activity carried out by BHARATI VIDYAPEETH.

m) **Third Party**- Any governmental or non-governmental organization with whom the First or the Second Party interacts for any activity with/without exchange of consideration in cash or kind.

n) **Activity**- Activities related to teaching, research, consultancy, generation and dissemination of information carried out by a person or an Institution independently, or collaboratively.

o) **Inventor(s)** – A person or a group of persons responsible for creating an IP. In case, creation of IP is associated with more than one inventor, one of them, from BHARATI VIDYAPEETH, would function as a Lead Inventor.

p) **Visitor**- A person either from India or abroad visiting under a collaborative activity or associated work at BHARATI VIDYAPEETH. It is expected that the visit has been approved by competent authority of BHARATI VIDYAPEETH.

q) **Work for hire**- The work (or a product) originated from BHARATI VIDYAPEETH and is meant for the specific purpose of BHARATI VIDYAPEETH and produced by (a) an author during his/her employment at BHARATI VIDYAPEETH or (b) non-employee under contracted work by BHARATI VIDYAPEETH.

r) **Work Commissioned/Outsourced** - work commissioned by BHARATI VIDYAPEETH to a creator or group of creators either employed by BHARATI VIDYAPEETH or invited from outside BHARATI VIDYAPEETH with or without any consideration in cash or kind. Typical examples of BHARATI VIDYAPEETH commissioned works are: a. Design work, b. Artistic Work, c. Engineering/Architectural Models, d. Computer Software e. Reports based on surveys and analysis, f. Video works.

s) **Associated Agreement** – document created with mutual consent of involved parties defining the rights, roles and responsibilities of each of the parties, for example, Memorandum of Understanding (MoU), Memorandum of Association (MoA), Research Agreement, Consultancy Agreement, Non Disclosure Agreement (NDA), etc.

t) **Non Disclosure Agreement (NDA)/Confidentiality Agreement** -The agreement intends to protect proprietary or confidential information among the parties involved in executing a NDA.

u) **Intellectual Property** denotes the specific legal rights which inventors and other IP holders may hold and exercise. Intellectual property includes Patents, Trademarks, Copyrights and Industrial Designs each differ in its scope, purpose and effects. IPR aims to exclude third parties from exploiting protected subject matter for a certain specified duration of time without explicit authorization from the right holder.

IPR owners can use or disclose their creations without fear of loss of control over their usage during the course of dissemination of their Creation/Invention.

IP confers a bundle of exclusive rights in relation to the particular form or manner in which ideas/information are expressed/manifested in the following and related items.

i. New and useful scientific and technical advancements in the form of innovations, inventions, products and processes, computer hardware and software, materials, biological varieties etc. which are patentable.
ii. Industrial and architectural designs, models, drawings, creative, artistic and literary works, teaching resource materials, generated records of research including thesis and dissertations which are copyrightable.
iii. Trademarks, service mark, logos etc.

# PATENTS:

## Ownership of Patent:

I. Bharati Vidyapeeth's College of Engineering, Kolhapur shall be the owner, with the creators specially stated as inventors for all the intellectual property inventions, software designs and specimens created by the creators who include faculty members, research scholars, students and those who make use of the resources of Bharati Vidyapeeth's College of Engineering, Kolhapur.

II. The Inventions created by Bharati Vidyapeeth's College of Engineering, Kolhapur personnel, without using Bharati Vidyapeeth's College of Engineering, Kolhapur resources and created outside their assigned/normal duties/areas of research /teaching shall be co-owned by the creators and BHARATI VIDYAPEETH Group of Institution and the revenue generated out of such creations shall be shared in the ratio of **70:30** between the creator and the Institute respectively.

III. If any Patent has emerged as a result of an Institutional/Industrial consultancy, sponsored to Bharati Vidyapeeth's College of Engineering, Kolhapur the concerned industries and Bharati Vidyapeeth's College of Engineering, Kolhapur shall own the Patent. This however will not apply to those Patent that are covered under specific MoU's where the action shall be carried out as per the provisions of the MoU's.

IV. If the Patent is a result of funds sponsored by an outside agency, then the Patent will be shared between Bharati Vidyapeeth's College of Engineering, Kolhapur and the sponsoring agency on case by case basis, as per MoU/Agreement/Undertaking between Bharati Vidyapeeth's College of Engineering, Kolhapur and the outside agency.

# COPYRIGHTS:

## Ownership of the copyright:

I. BHARATI VIDYAPEETH shall be the owner of all copyright works including software and all connected teaching materials designed and developed by employees of BHARATI VIDYAPEETH Chennai.

II. Further, BHARATI VIDYAPEETH shall also be the owner of copyrights of works produced, including software and all teaching materials developed by persons not directly associated with BHARATI VIDYAPEETH, provided BHARATI VIDYAPEETH has made its contribution in the form of any of the resources.

III. A copy of MS/M Phil /PhD thesis works submitted to BHARATI VIDYAPEETH may be forwarded to IP CELL, and IP CELL shall attempt to explore the patentable rights if any in such theses by constituting suitable committees consisting of experts.

IV. The ownership of copyright by BHARATI VIDYAPEETH will in no way deprive the claims of the creator/author to publish his/her contribution in a scholarly and intellectual way and they have authority to improve, publish and propagate their works.

V. A computer software may be copyrighted depending upon the content. A copyright software may be distributed for research and teaching purposes by its creator after obtaining appropriate undertaking to the effect that it will not be used for commercial purpose nor will it be transferred to any other party without explicit permission of Bharati Vidyapeeth's College of Engineering, Kolhapur.

## Inventor/Author/Ownership

1. Inventors/Authors will own intellectual property when:
   a. None of the situation defined above for BHARATI VIDYAPEETH-ownership of intellectual property applies.
   b. It is created outside their normal area of research/teaching, for example, popular novels, poems, musical compositions, or other works of artistic imagination, without the use of significant institute resources.
2. Students will own copyright on thesis/dissertation created as a part of their academic programs. However, the student must grant to BHARATI VIDYAPEETH royalty-free permission to reproduce and distribute copies for teaching and research as well as for dissemination for teaching and research to other academic institutions.
3. Ownership of software code, patentable subject matter and other intellectual property contained in the thesis/reports are subject to conditions specified under BHARATI VIDYAPEETH –ownership and Inventor/Author ownership.

## Trade and Service Marks

Trade and service marks related to goods and services involving BHARATI VIDYAPEETH will be owned by BHARATI VIDYAPEETH. Use of BHARATI VIDYAPEETH's name through trademark makes users obligated to certain standards and accountability.

## Third-Party Ownership

I. Ownership of intellectual property resulting from:
   a. Funds provided partially or fully by a third-party to BHARATI VIDYAPEETH will be governed by specific provisions in the contract between the third-party and BHARATI VIDYAPEETH.
   b. Exchange programs between BHARATI VIDYAPEETH and other institutions will be governed by specific provisions in the contract between the third-party and BHARATI VIDYAPEETH.
   c. In case no such specific contract exists, IPR will remain with BHARATI VIDYAPEETH.

II. In cases of all IP produced at BHARATI VIDYAPEETH, BHARATI VIDYAPEETH shall retain a non-exclusive, free, irrevocable license to copy/use IP for teaching and research activities, consistent with confidentiality arguments where ever entered by BHARATI VIDYAPEETH.

III. In cases where an IP is created by BHARATI VIDYAPEETH personnel, fully or as a part of the team, during deputation, official leave, or sabbatical, the concerned BHARATI VIDYAPEETH personnel should officially communicate the IP to BHARATI VIDYAPEETH. If the IP involves ideas/software developed, fully or in part, using significant institute resources, then the IP will also be owned by BHARATI VIDYAPEETH fully or partially, as the case may be.

IV. Filings of IP Applications in foreign countries: If inventor(s) wish application will be filed in foreign country parallel to its filing in India. If BHARATI VIDYAPEETH opts not to undertake such protection in any specific country requested by the inventor(s), BHARATI VIDYAPEETH will assign rights of the IP in that country to the inventor(s) for the purpose of such protection. BHARATI VIDYAPEETH or Attorney can be approached for such protection.

V. Renewal of IP rights: A decision on the annual renewal of IP rights will be taken by a committee constituted by the Chairman of IPR cell. If BHARATI VIDYAPEETH decides not to renew the IPR in any country, then it will assign the rights of the IP in that country to the inventor(s) upon a request to that affect from the inventor(s). In case of patents, the process of reassignment will be completed in a period of three months before the due date for its renewal.

VI. In all cases where IP rights in any specific country have been reassigned to the inventor(s), BHARATI VIDYAPEETH will not claim any share of proceeds earned through that IP in that country excepting for the costs already incurred by BHARATI VIDYAPEETH.

## Disclosures, Confidentiality and Assignment of Rights

I. For sponsored and/or collaborative work the provisions of the contract pertaining to disclosure of IP are applied.

II. For all other IP produced at BHARATI VIDYAPEETH, the inventors will be required to disclose their IP to the IPEC (Intellectual Property Evaluation Committee) at the earliest date using an IPDF (Intellectual Property Disclosure Form).

III. It will be mandatory for students to submit an IPDF, countersigned by their supervisor(s), at the time of filing their PhD thesis or any other degree offered by University.

IV. The inventor shall assign the rights of the disclosed IP to BHARATI VIDYAPEETH before leaving the institute and will agree to the terms and conditions for the sharing of any financial benefits received by the institute by commercialization of such IP.

V. Having made the disclosure, the inventors, both BHARATI VIDYAPEETH and non-BHARATI VIDYAPEETH personnel, shall maintain confidentiality of the IP during the period it is pending with BHARATI VIDYAPEETH for the assessment of the possibility of commercialization and protection of IP, unless authorized in writing by BHARATI VIDYAPEETH.

## Evaluation of Intellectual Property

I. Evaluation of Intellectual Property will be done by the IPEC (Intellectual Property Evaluation Committee) nominated by the Vice-Chancellor.

II. Evaluation of IP means:
   a. Assigning ownership of IP.
   b. Determining whether an IP is innovative and fit for filing in India and foreign countries.
   c. Determining whether the IP has a reasonable chance for commercialization.

III. After evaluation of IP, if BHARATI VIDYAPEETH decides not to take the responsibility for the protection of the IP, then it will assign all the rights of the IP to the inventors.

IV. Even in such cases, as in (III), BHARATI VIDYAPEETH may take the responsibility of facilitating protection of the IP on case by case basis.

V. A decision on the annual renewal of IP rights will be taken by the IPEC. If BHARATI VIDYAPEETH decides not to renew the IP, fully or partially, then it will assign the rights of the IP, wherever relevant, to the "inventors."

## Maintenance of IP:

I. For the inventions developed at BHARATI VIDYAPEETH and the inventors who wish to protect the invention, it is mandatory that the creator has to disclose the creative work by using an Invention Disclosure Form (IDF). The inventors shall assign the rights of the disclosed invention to BHARATI VIDYAPEETH. All IP related information that is disclosed to BHARATI VIDYAPEETH is confidential.

II. Confidentiality shall be maintained till the dates stipulated in the contract between the concerned parties. Once the IPR is ensured, the inventor/creator is encouraged to publish the work in the interest of general public.

## Commercialization

I. BHARATI VIDYAPEETH shall market the IP and identify potential licensee(s) for the IP to which it (i) has ownership and (ii) for which rights have been assigned to it.

II. For the IP where exclusive rights have not already been assigned to a third party, the inventor(s) may also contact potential licensee(s) on their initiative maintaining confidentiality and taking all necessary care to ensure that the value of the IP is not affected.

III. If BHARATI VIDYAPEETH is not able to commercialize the IP in a reasonable time then the inventor(s) may approach BHARATI VIDYAPEETH for assignment of rights of the invention(s) to them.

## Infringements, Damages, Liability and Indemnity/Insurance

I. As a matter of policy, BHARATI VIDYAPEETH shall, in any contract between the licensee and BHARATI VIDYAPEETH, seek indemnity from any legal proceedings including without limitation manufacturing defects, production problems, design guarantee, up gradation and debugging obligation.

II. BHARATI VIDYAPEETH shall also ensure that BHARATI VIDYAPEETH's personnel have an indemnity clause built-into the agreements with license(s) while transferring technology or copyrighted material to licenses.

## Fees:

BHARATI VIDYAPEETH will pay the IP fees in all cases when IP is taken by BHARATI VIDYAPEETH. If it is a joint patent with sponsoring agency/Inventor(s), then the patenting cost will be mutually discussed and agreed depending on the type of IP.

If the other party does not show interest in such process, BHARATI VIDYAPEETH can either continue the IP by paying the fees for its full term or withdraw application for the patent protection, at its discretion.

## Transfer of IP:

BHARATI VIDYAPEETH shall strive to identify potential licensee for the IP to which it has ownership. Generally creators are expected to assist the transfer of IP in case the IP has not been obtained in the name of the Institute.

BHARATI VIDYAPEETH may contract IP to any of the technology management agency which manages the commercialization of IP. If exclusive rights of IP have not been assigned to the third party, creators may enter into a contract with any potential licenses on their initiative maintaining confidentiality and taking care through Non Disclosure Agreement with the concurrence of BHARATI VIDYAPEETH.

The inventor/creator has the first right on the terms and conditions that are agreeable by BHARATI VIDYAPEETH

## Revenue sharing:

60 % (sixty percent) of the total revenue (lump sum payment, or any other form) accruing from the commercial exploitation of IP owned by BHARATI VIDYAPEETH shall

be credited to BHARATI VIDYAPEETH. 30% of the revenue shall be credited to Inventor/Creator.

Out of the BHARATI VIDYAPEETH's share, 40% shall be transferred to the Department concerned towards encouraging research and development. 10% may be transferred to IP CELL for carrying out IPR related activities. The rest 10% will be allotted to the Centre for Professional Development Education.

**1.** The net earnings from the commercialization of IP owned by BHARATI VIDYAPEETH would be shared as follows:

| Case | Tenure | Inventor(s) | GMCOE's Share | Service Account* |
|---|---|---|---|---|
| 1 | For the First Three Years | 60% | 30% | 10% |
| 2 | After 3 Years | 40% | 50% | 10% |

* Money may be used for the promotion and up gradation of the invention. Unused funds from the service account will be used for promotion of commercialization, IP protection and any other related activities.

**2.** It is suggested that amount Q be initially fixed at Rs. 25 lakhs. The inventor(s) share would be declared annually and disbursement will be made to the inventor(s), their legal heir, whether or not the inventor(s) are associated with BHARATI VIDYAPEETH at the time of disbursement.

**3.** Co- inventors of IP shall sign at the time of disclosure, a distribution of IP Earnings' Agreement, which shall specify the percentage distribution of earnings from IP to each co-inventor. The inventors may at any time by mutual consent revise the Distribution of IP Earnings Agreement.

## Powers to Amend IPR Policy

BHARATI VIDYAPEETH, through its Board of Governors (referred to as BOG), will have the full power to make changes to the IPR policy or bring out a new policy as and when it is felt necessary. This can happen in view of changes in government policies or other national and international developments including treaties and legal judgments. The changes or the new policy shall be applicable to all faculty/students//project staff/ supporting staff /visitors.

## Responsibility to Create/Amend Procedures and Processes for Implementation of IPR Policy

BHARATI VIDYAPEETH, through its Chairperson, will have full powers to create and amend administrative mechanism from time to time in view of the changing needs including creating administrative bodies and entrusting role and responsibilities to various individual(s)/existing entities for evolving detailed procedures and to facilitate implementation of the IPR policy of BHARATI VIDYAPEETH.

## Conflict of Interest.

All inventors are responsible for compliance with government rules and BHARATI VIDYAPEETH's policies and ordinances related to development and use of IP generated. In all activities arising out of implementation of IPR policy of the Institute, all faculty members/inventors are expected to avoid potential and mutual conflicts of interest.

The inventor(s) are required to disclose any conflict of interest or potential conflict of interest. If the inventor(s) and/or their immediate family have a stake in a licensee or potential licensee company then they are required to disclose the stake they and/or their immediate family have in the company. Under these circumstances, it must be ensured by the inventor(s) that their entrepreneurial activities do not have an adverse impact on inventor(s) teaching, research and any other institutional responsibilities.

## Dispute Resolution

In case of any disputes between BHARATI VIDYAPEETH and the inventors regarding the implementation of the IP policy, the aggrieved party may appeal to the Vice-Chancellor of BHARATI VIDYAPEETH. Efforts shall be made to address the concerns of the aggrieved party. The Vice-Chancellor's decision in this regard would be final and binding.

## Jurisdiction

All the Conflicts and litigations shall be governed by and construed in accordance with the laws of India without giving effect to any choice or conflict of law provision or rule.

BHARATI VIDYAPEETH will retain the right to engage or not; in any litigation concerning patents and license infringements.

Inventor should keep a laboratory notebook in which they keep records of their work. Descriptions of discoveries should be signed, dated, and if possible witnessed.

## IPR STANDING COMMITTEE (IPR SC) AND ITS ROLE

The IPR Standing Committee will be the core administrating body, which will be responsible for evolving detailed procedures to facilitate implementation of the IPR policy of BHARATI VIDYAPEETH. IPR SC would also arbitrate on appeals made and any clarifications sought. The IPR SC will have the following members:

| | |
|---|---|
| Prof. (Dr.) V. R. Ghorpade<br>Principal | Chairperson |
| Prof. (Dr.) J. K. Patil<br>IQAC Coordinator | Member |
| Prof. (Dr.) S. S. Pawar<br>IIC Coordinator | Member |
| Prof. Dr. P. B. Patole<br>IPR Coordinator | Member |
| Prof. (Dr.) R. P. Mirajkar<br>Faculty Member | Member |
| Prof. S. S. Kotwal<br>Faculty Member | Member |
| Director's nominee (MYCrave Consultancy)<br>Dhruv Brahmbhatt \| Managing Director | Member<br>FOR MYCRAVE CONSULTANCY AND SERVICES<br>PARTNERS |

## ROLE OF FITT

The current role of IPCell includes the following, which may be revised from time to time

(a) Organization of IP awareness programs at BHARATI VIDYAPEETH.
(b) Organizing IPR SC meetings in co-ordination with R&D.
(c) Work on behalf of BHARATI VIDYAPEETH, to process and manage IP registrations.
(d) Regularly review IP cases (filed/granted applications) for maintenance / discontinuation.
(e) To assist faculty/students/project staff/ supporting staff/visitors in all IPR application activities.
(f) To coordinate with the inventor (s) to proactively identify third parties for development and commercialization of IP.
(g) Custody of all IPR related documents

- **Organizing Department: Bharati Vidyapeeth's College of Engineering, Kolhapur**
- **Name of Activity: "Smart India Hackathon 2022"**
- **Name of Coordinator:** Mr. A. A. Desai
- **Date of Activity: 1** March 2022 to 31 March 2022
- **Participants:** All Final Year B. Tech Engineering Students
- **Details of Activity:**

This hackathon was conducted by the BVCOE, Kolhapur to encourage the students and drive the spirit of Competitive Programming among other Computer enthusiasts and also hardware on 26 th March 2022. All the students of T.Y. B.TECH and Final Year B.Tech were given time to develop and demonstrate their Project/Model, and the model developed is evaluated by jury members. There were two main rounds of evaluation. First round is held at department level round and nominated teams selected for final inter departmental round and finally 4 teams are nominated for SIH 2022. The 4 jury members evaluated all the teams works.

There are total 9 teams participated in the internal hackathon from various departments in the software and hardware categories out of which 5 top teams are nominated for the SIH2022.

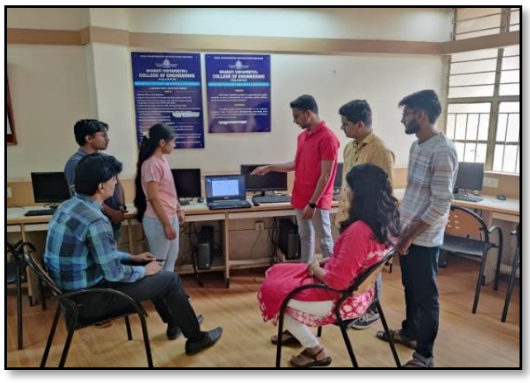
- **Objective of Activity:**

To provide a platform to Students to solve some of the pressing problems we face in our daily lives, and thus inculcate a culture of product innovation and a mindset of problem solving.

- **Outcome of Activity:**

1.Harness the creativity and expertise of the students
2. Build a funnel for 'Start up India' campaign
3.Crowd source solutions for improving governance and quality of life

**Photo:**

Mr. A. A. Desai
SIH SPC

Dr.P.B.Patole
IIC Coordinator

Dr.S.S.Pawar
IIC Conveyor

Dr. V. R. Ghorpade
Principal

# Entrepreneurs

- **Department** : Computer Science & Engineering
- **Name of the Entrepreneur** : Mr. Vijay Lambore
- **Pass out Batch** : 2005
- **Name of the Company** : QualTech Software Pvt. Ltd., Kolhapur
- **Contact Number** : 7758002484
- **Mail-id** : corporate@qualtech.biz
- **Company Start/Founded (Date/Year)** : 25th March 2022
- **Website (if Available)** : www.qualtech.biz
- **Details of Company/ Business/start-up:**

QualTech provides solutions in a prequalification and ecommerce industry to various clients across the globe and have served over more than 200+ clients so far. We are a highly motivated team of people who thrive to make a difference in prequal and ecommerce industry. We are serious about delivering value to our customers, and our development process shows it. We arrange ourselves into vertically integrated product teams who own the entire product experience from conception and design all the way through implementation and delivery to a customer.

Working in Product development, Devops, UI/UX, Mobile development, website development and digital marketing

**Photo:**

1. Entrepreneur's Photo


2. Company/ Business/start-up photo.

3. Company Certificate of Registration

GOVERNMENT OF INDIA
MINISTRY OF CORPORATE AFFAIRS

Central Registration Centre

# Certificate of Incorporation

[Pursuant to sub-section (2) of section 7 and sub-section (1) of section 8 of the Companies Act, 2013 (18 of 2013) and rule 18 of the Companies (Incorporation) Rules, 2014]

I hereby certify that AL'S QUALTECH SOFTWARE PRIVATE LIMITED is incorporated on this Twenty fifth day of March Two thousand twenty-two under the Companies Act, 2013 (18 of 2013) and that the company is limited by shares.

The Corporate Identity Number of the company is U72900PN2022PTC209664.

The Permanent Account Number (PAN) of the company is **AAWCA7136J** *

The Tax Deduction and Collection Account Number (TAN) of the company is **KLPA05120D** *

Given under my hand at Manesar this Twenty fifth day of March Two thousand twenty-two .

Digital Signature Certificate
SHIVARAJ C RANJERI
ASST. REGISTRAR OF COMPANIES
For and on behalf of the Jurisdictional Registrar of Companies
Registrar of Companies
Central Registration Centre

Disclaimer: This certificate only evidences incorporation of the company on the basis of documents and declarations of the applicant(s). This certificate is neither a license nor permission to conduct business or solicit deposits or funds from public. Permission of sector regulator is necessary wherever required. Registration status and other details of the company can be verified on www.mca.gov.in

Mailing Address as per record available in Registrar of Companies office:

AL'S QUALTECH SOFTWARE PRIVATE LIMITED
R S 581-2, PL-3, R.K.NAGAR, TAL KARVEER, KOLHAPUR, Kolhapur,
Maharashtra, India, 416013

* as issued by the Income Tax Department

# Entrepreneurs

- **Department : Civil Engg.**
- **Name of the Entrepreneur : Mr.Rohit Sorate**
- **Pass out Batch : 2022**
- **Name of the Company : Kulhad Chai Truck**
- **Contact Number : +91-9156422424**
- **Mail-id : rohitsorate96@gmail.com**
- **Company Start/Founded (Date/Year) :2021**
- **Website (if Available) : --**
- **Details of Company/ Business/start-up:** True, tea is the most easily available drink in India but that is also what makes it such a great market to tap. What Kulhad Chai Truck offers is a route back to your roots with desi Kullad Chai which is always freshly brewed with the surety of quality and hygiene. Apart from that our outlets are not just about tea but about the spirit of it combined with different snacks that you can have with tea only if you grew up in India. Chai-Pakoda, Chai-Maggie, Chai-Samosa, all these are predominantly combinations that everyone in India has an affinity to and a memory of. Our USP is not simply tea but the experience of it but with a newfound freshness and under hygienic conditions. Currently company is working is Kolhapur. There are two outlets of the company one in Rajarampuri and other one is near Khasbagh maidan. The growth has been exponential and our average growth rate right now is somewhere around 70-80%

- **Photo:**


| | | |
|---|---|---|
| **Prof. More M.M.** | **Prof. Kadam V S** | **Dr.V.R.Ghorpade** |
| **EDC-Coordinator** | **H.O.D Civil** | **Principal** |

# Entrepreneurs

- **Department** : Mechanical Engineering.
- **Name of the Entrepreneur** : **Mr. Ankur Sevekari**
- **Pass out Batch** : **2017**
- **Name of the Company** : **Mile Stone Industries**
- **Contact Number** : **9822457279**
- **Mail-id** :
- **Company Start/Founded (Date/Year)** :**2018**
- **Website (if Available)** :
- **Details of Company/ Business/start-up:**

  We are Milestone industries. We started your journey in 2018. With a 15 ltr capacity of cold box core shooter machine, with one computer of 15 hp and 50 kg sand mixer. We started your work with two workers and now we have three machines with a capacity of 15/40/80 ltr and with 50 workers. We are the number one individual living in cold box core manufacturers in Kolhapur, Sangli, and Satara districts. We are a proud vendor of Menon Group, Ghatage Patil Industries

- **Photo:**


# Entrepreneurs

- **Department** : Mechanical Engineering.
- **Name of the Entrepreneur** : **Mr. Kunal Mahekar & Vaibhav Mahekar**
- **Pass out Batch** : **2018**
- **Name of the Company** : **Mahekar Engineers**
- **Contact Number** : **8087726906**
- **Mail-id** : **ashok.mahekar@gmail.com**
- **Company Start/Founded (Date/Year)** : **1997**
- **Website (if Available)** :
- **Details of Company/ Business/start-up:**

  We are leading manufacture of Connecting rods for refrigeration and Air Conditioning Industry. We are manufacturing and supplying aluminum pressure die casting located at Tasawade karad Industrial area. An ISO 9001:2015 certified Company by TUV Austria. We manufacture mainly Connecting rods: Spilt type, Sintered Fe, Pressure die casting Con-rod and Aluminum bearing.
- **Photo:**


# Entrepreneurs

- **Department** : Mechanical Engineering.
- **Name of the Entrepreneur** : **Mr. Nikhil Kamalkar**
- **Pass out Batch** : **2014**
- **Name of the Company** : **ipsumcam Industries**
- **Contact Number** : **7798727221**
- **Mail-id** : **nikhilkamalkar@gmail.com**
- **Company Start/Founded (Date/Year)** :**2017**
- **Website (if Available)** :
- **Details of Company/ Business/start-up:**

We are young and highly energetic team of engineers willing to step up in the hard core machining operations .We would like to introduce ourselves as the leading manufacturer and supplier of machined components required in various sectors of the industry. We have a well-equipped machine shop with variety of conventional machines along with CNC VMC machines to cater the needs of highly precise components. We are aiming the product in time with correct specifications by considering quality as topmost priority. We are a proud vendor of Mouraya Group, Ved Industries, Menon alkop.

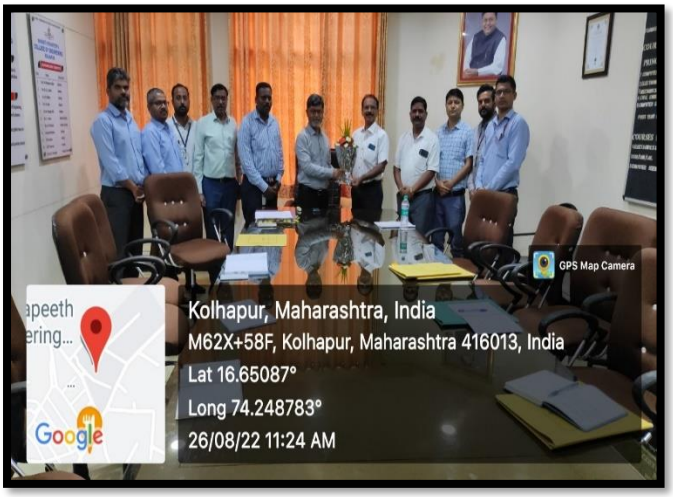
**Photo:**

**INSTITUTION INNOVATION COUNCIL MENTOR INSTITUTE**

Mr. T. V. Mohite Patil, IIC Convener, Vidya Prasarak Mandal's Polytechnic, Thane Visited to Incubation Centre of Bharati Vidyapeeth's College of Engineering, Kolhapur on 26 August 2022.








Ministry of Education
Government of India

MoE's INNOVATION CELL
(GOVERNMENT OF INDIA)

INSTITUTION'S INNOVATION COUNCIL
(Ministry of Education Initiative)

AICTE

This is to certify that

**Dr. Sanjay Shamrao Pawar**

of

**Bharati Vidyapeeth's College of Engineering, Maharashtra**

has undergone Innovation Ambassador (IA) training 'Foundation Level' (Total 15 Sessions of 30 contact hours) conducted in online mode by MoE's innovation Cell & AICTE during the IIC calendar year 2021-22.

Dr. Abhay Jere
Chief Innovation Officer
MoE's Innovation Cell

Mr. Dipan Sahu
Assistant Innovation Director
MoE's Innovation Cell

**Date of Issue:** 30-07-2021

**E-certificate No:** IA/Foundation/1011531

**IIC ID:** IC201912867

Ministry of Education
Government of India

MoE's
INNOVATION CELL
(GOVERNMENT OF INDIA)

INSTITUTION'S
INNOVATION
COUNCIL
(Ministry of Education Initiative)

AICTE

This is to certify that

# Mr. Sagar B. Patil

of

## Bharati Vidyapeeth's College of Engineering, Maharashtra

**has undergone Innovation Ambassador training (Foundation Level, Total 16 Sessions of 30 contact hours) conducted by MoE's Innovation Cell & AICTE during the period from 30th June - 30th July 2021 in online mode.**

**Prof.Anil D.Sahasrabudhe**
**Chairman**
**AICTE**

**Dr. Abhay Jere**
**Chief Innovation Officer**
**MoE's Innovation Cell**

Date of Issue: 30-07-2021

E-certificate No : 11536

Ministry of Education
Government of India

MoE's
INNOVATION CELL
(GOVERNMENT OF INDIA)

INSTITUTION'S
INNOVATION
COUNCIL
(Ministry of Education Initiative)

AICTE

This is to certify that

# Mr. Mayur M. More

of

## Bharati Vidyapeeth's College of Engineering, Maharashtra

**has undergone Innovation Ambassador training (Foundation Level, Total 16 Sessions of 30 contact hours) conducted by MoE's Innovation Cell & AICTE during the period from 30th June - 30th July 2021 in online mode.**

**Prof.Anil D.Sahasrabudhe**
**Chairman**
**AICTE**

**Dr. Abhay Jere**
**Chief Innovation Officer**
**MoE's Innovation Cell**

Date of Issue: 30-07-2021

E-certificate No : 11533

Ministry of Education
Government of India

MoE's
INNOVATION CELL
(GOVERNMENT OF INDIA)

INSTITUTION'S
INNOVATION
COUNCIL
(Ministry of Education Initiative)

AICTE

This is to certify that

# Mr. Ranjeet R. Suryawanshi

of

## Bharati Vidyapeeth's College of Engineering, Maharashtra

has undergone Innovation Ambassador training (Foundation Level, Total 16 Sessions of 30 contact hours) conducted by MoE's Innovation Cell & AICTE during the period from 30th June - 30th July 2021 in online mode.

**Prof.Anil D.Sahasrabudhe**
**Chairman**
**AICTE**

**Dr. Abhay Jere**
**Chief Innovation Officer**
**MoE's Innovation Cell**

Date of Issue: 30-07-2021

E-certificate No : 11532

Ministry of Education
Government of India

MoE's
INNOVATION CELL
(GOVERNMENT OF INDIA)

INSTITUTION'S
INNOVATION
COUNCIL
(Ministry of Education Initiative)

AICTE

This is to certify that

# Mr. Vinay Sampatrao Mandlik

of

## Bharati Vidyapeeth's College of Engineering, Maharashtra

**has undergone Innovation Ambassador training (Foundation Level, Total 16 Sessions of 30 contact hours) conducted by MoE's Innovation Cell & AICTE during the period from 30th June - 30th July 2021 in online mode.**

**Prof.Anil D.Sahasrabudhe**
**Chairman**
**AICTE**

**Dr. Abhay Jere**
**Chief Innovation Officer**
**MoE's Innovation Cell**

Date of Issue: 30-07-2021

E-certificate No : 11537

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INSTITUTION'S
INNOVATION
COUNCIL
(Ministry of Education Initiative)

AICTE

This is to certify that

# Mr. Manik Sadashiv Sonawane

of

## Bharati Vidyapeeth's College of Engineering, Maharashtra

**has undergone Innovation Ambassador training (Foundation Level, Total 16 Sessions of 30 contact hours) conducted by MoE's Innovation Cell & AICTE during the period from 30th June - 30th July 2021 in online mode.**

**Prof.Anil D.Sahasrabudhe**
**Chairman**
**AICTE**

**Dr. Abhay Jere**
**Chief Innovation Officer**
**MoE's Innovation Cell**

Date of Issue: 30-07-2021

VIJAY RAM GHORPADE

Digitally signed by VIJAY RAM GHORPADE
Date: 2023.02.21 16:55:31 +05'30'

E-certificate No : 11822