

3.2: Innovation Ecosystem

3.2.1: Institution has created an ecosystem for innovations, Indian Knowledge System (IKS), including awareness about IPR, establishment of IPR cell, Incubation centre and other initiatives for the creation and transfer of knowledge/technology and the outcomes of the same are evident

Innovation Ecosystem

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

In an era marked by rapid technological advancements and evolving market dynamics, fostering innovation and entrepreneurship is crucial for sustaining economic growth and addressing global challenges. Recognizing this, our institute has meticulously crafted an ecosystem that not only supports innovations but also facilitates the creation and transfer of knowledge. This comprehensive approach is exemplified by the approval and implementation of the National Innovation and Start-up Policy (Govt), which aims to nurture ideas from conception to realization. Below mentioned Departments/Offices/Cell/Clubs are mainly involved in developing the innovation ecosystem in the Institute.

- [National Innovation and Start-up Policy](#)
- [Institute Innovation Council](#)
- [ITM Business and Incubator Foundation](#)
- [Makers Lab](#)
- [Research Cell](#)
- [Intellectual Property Rights \(IPR\) Management](#)
- [Student Projects and Financial Support](#)
- [Indian Knowledge System](#)
- [Year wise summary of the research grant received, Publications etc.](#)

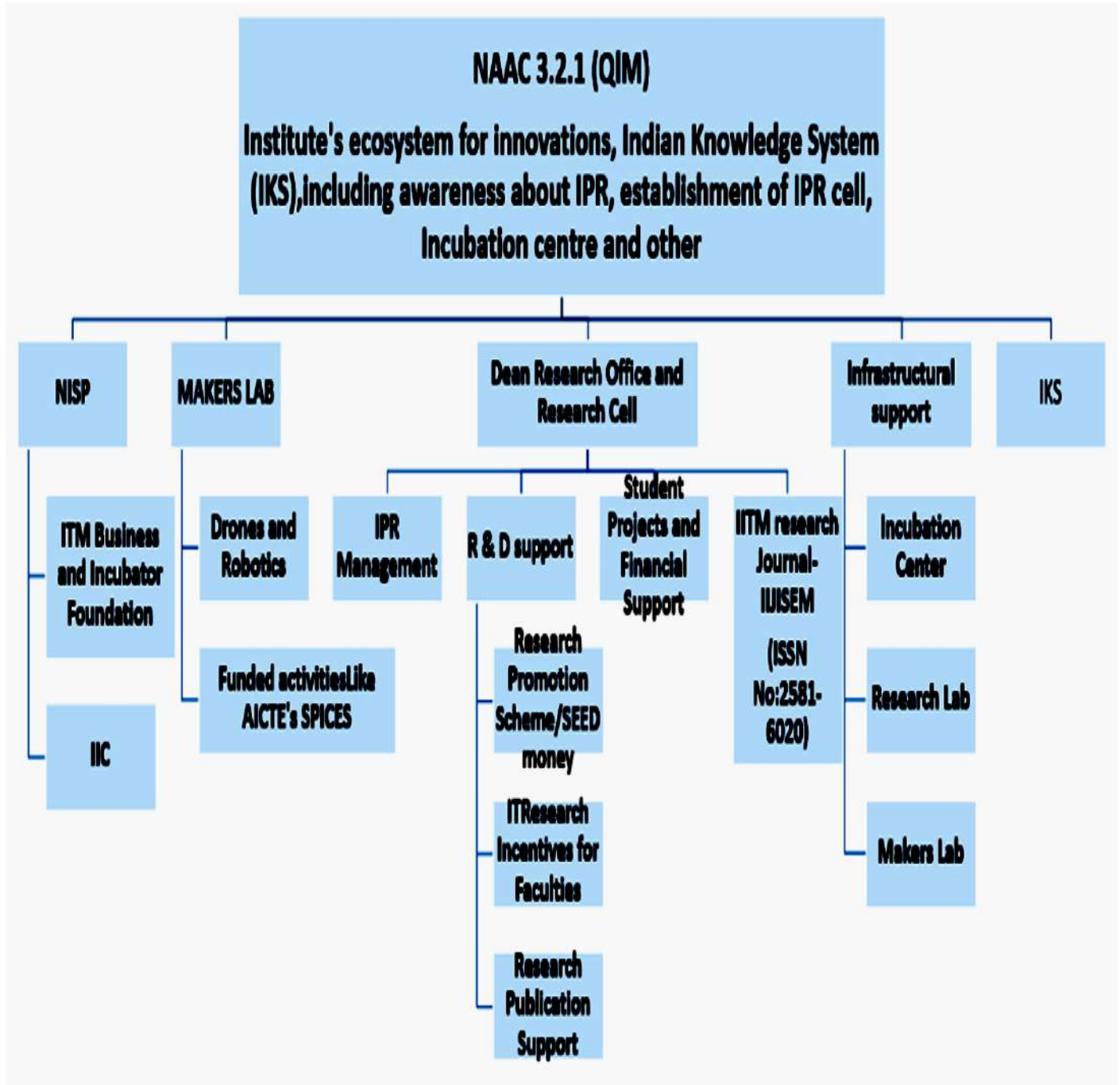


Chart Showing Different components of Institutes creating Innovation Ecosystem

Meenakshi Meenakshi
Dr. Meenakshi Meenakshi

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Institute of Technology & Management
Gwalior (M.P.)

National Innovation and Start-up Policy


The National Innovation and Start-up Policy serves as the backbone of our institute's commitment to fostering innovation. This policy provides a structured framework for supporting ideation and the subsequent development of ideas. By formalizing the processes of ideation, incubation, and commercialization, the policy ensures that students and faculty members have the necessary support to transform their innovative ideas into viable ventures. This holistic approach is designed to encourage creativity, risk-taking, and entrepreneurial thinking, which are essential for driving innovation.




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Institute Innovation Council

To further institutionalize the innovation ecosystem, our institute has established a well-structured Institute Innovation Council (IIC). This council comprises deans, heads of departments, and faculty members who bring diverse expertise and perspectives to the table. The IIC is responsible for strategizing, overseeing, and promoting innovation-related activities within the institute. By involving senior academic leaders, the council ensures that innovation remains a strategic priority and is integrated into the academic and research agenda of the institute.



INSTITUTE OF TECHNOLOGY & MANAGEMENT
www.itmgoi.in

ITM Innovation & Startup Policy-2021

Departmental Coordinators

Students those have any innovative idea and want to establish a successful start-up are advised to contact the following faculty of their branch.

The nominated faculties will help them to show direction to avail pre-incubation and incubation facility. Students must not directly approach incubation center.

S.No.	Branch	Faculty Details
1.	CSE	Ms. Iti Jain, Asst. Prof, CSE Dept. Contact: 9165299557 Email: iti.jain@itmgoi.in
2.	IT	Mr. Ram Naresh Sharma, Asst. Prof., IT Dept. Contact: 9754063682 Email: ramnaresh.sharma@itmgoi.in
3.	EC	Mr. Shushant Jain, Asst. Prof., EC Dept. Contact: 9893260404 Email: sushant.jain@itmgoi.in
4.	ME	Mr. Deepak Sharma, Asst. Prof., ME Dept. Contact: 9993733944 Email: deepak.sharma@itmgoi.in
5.	CE	Mr. Mayur Verma, Asst. Prof., CE Dept. Contact: 8770055822 Email: mayur.verma@itmgoi.in
6.	MBA	Dr. Ankit Gupta, Assoc. Prof., MBA Contact: 8959696170 Email: ankitgupta.mba@itmgoi.in


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Institute Innovation Council (IIC, ITM)



Mr. Manoj K. Bandil
(President, IIC)



Mr. Pawan Tiwari
(Convener, IIC)



Mr. Rajkumar Rajoria
(Coordinator, Innovation Activity & ARIIA)



Dr. Ankit Gupta
(Coordinator, Start-up Activity)



Ms. Tania Das
(Coordinator, Internship)



Mr. Vishal Shukla
(Coordinator, IPR Activity)



Mr. Nitin Dixit
(Coordinator, Social Media)



Mrs. Priusha Narwariya
(Coordinator, NIRF)

Team Megatron, the 1st runner-up of Smart India Hackathon 2019, developed a multipurpose adjustable cane, showcasing innovative solutions and practical design, demonstrating their commitment to addressing real-world challenges through technology and creativity.

Megatron
Dr. Meenakshi Meenakshi

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Dr. Meenakshi Meenakshi
Dean (R&D)
Institute of Technology & Management
Gwalior (M.P.) INDIA

Name of Team: Megatron/ Winner (1st runnerup) of Smart India Hackathon-2019 for multipurpose Adjustable Cane

Role	Name	Gender (M/F)	Email id	Mobile no.
Team Leader	Aniket Kumar	M	anilikeworld@gmail.com	8319979800
Team Member	Ashutosh Pandey	M	ashutoshp273@gmail.com	7987785798
Team Member	Jatin Gulati	M	jatingulati2468@gmail.com	8770088794
Team Member	Yaman Sahu	M	yaman.sahu26@gmail.com	8871874269
Team Member	Anshika Arora	F	anshikaarora004@gmail.com	9131322140
Team Member	Deepali Sharma	F	deepalisharma0811@gmail.com	8770779204



Team: Megatron/ Winner (1st runner-up) of Smart India Hackathon-2019 for multipurpose Adjustable Cane

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Team: Megatron/ Winner (1st runner-up) of Smart India Hackathon-2019 for multipurpose Adjustable Cane

Meenakshi Mezumar
Dr. Meenakshi Mezumar

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Dr. R.D. Sharma

Dean (R&D)
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Gwalior (M.P.) INDIA



Institute of Technology & Management, Gwalior
July 16, 2019 -

News Coverage #SmartIndiaHackathon2019 #ITMGroupofInstitutions

मेगाट्रोन टीम बनी हैकेथॉन की फर्स्ट रनरअप

पत्रिका PLUS रिपोर्टर

ग्वालियर • दुनिया के सबसे बड़े ओपन इनोवेशन मॉडल 'स्मार्ट इंडिया हैकेथॉन-2019' में ग्वालियर के आईटीएम ग्रुप ऑफ इंस्टीट्यूट्स की टीम ने अपनी योग्यता से एक बार फिर परचम फहराया। दो लाख इंजीनियरिंग स्टूडेंट्स की 35 हजार टीमों में से ग्रैंड फिनाले में चयनित 250 से अधिक टीमों में से फर्स्ट रनरअप पर आईटीएम जीओआई की टीम ने अपना स्थान बनाया। टीम ने हार्डवेयर एडिशन के अंतर्गत 36 स्मार्ट स्टॉप मॉडल पर वर्क कर समस्या को दूर करने के लिए तकनीक ईजाद की।

हैकेथॉन में आईटीएम टीम के सदस्य



रहे। टीम मेंटर के रूप में आरके राजौरिया, नीलम बघेल भी साथ रहे। टीम की उपलब्धि पर आईटीएम के मैनेजिंग डायरेक्टर प्रविण के उच्च उल्लास ज़रूरतों को देखते हुए टीम को

पीपुल' पर काम किया। इसके लिए उन्होंने बुजुर्गों या दिव्यांगों द्वारा आमतौर पर उपयोग की जाने वाली केन या छड़ी को

आईटीएम जीओआई की टीम स्मार्ट इंडिया हैकाथॉन में फर्स्ट रनरअप बनी

डिप्टी डायरेक्टर (ग्वालियर)

स्मार्ट इंडिया हैकाथॉन-2019 के ग्रैंड फिनाले में आईटीएम ग्रुप ऑफ इंस्टीट्यूट्स की मेगाट्रोन टीम को फर्स्ट रनरअप का खिताब मिला। 3 लाख इंजीनियरिंग स्टाफ की 35 हजार टीमों में से 250 से अधिक टीमों में से चुनी गई आईटीएम की टीम फर्स्ट रनरअप बनी। टीम ने हार्डवेयर एडिशन के अंतर्गत 36 स्मार्ट स्टॉप मॉडल पर वर्क कर समस्या को दूर करने के लिए तकनीक ईजाद की।



हैकेथॉन में आईटीएम टीम के सदस्य

स्मार्ट इंडिया हैकेथॉन के ग्रैंड फिनाले में पहुंची आईटीएम की दो टीम



आईटीएम की दो टीमों ने ग्रैंड फिनाले में भाग लिया। टीम को फर्स्ट रनरअप का खिताब मिला।

आईटीएम की दो टीमों ने ग्रैंड फिनाले में भाग लिया। टीम को फर्स्ट रनरअप का खिताब मिला।

ITM Business and Incubator Foundation

A significant milestone in our journey towards nurturing innovation is the incorporation of the ITM's state-of-the-art incubation center commonly known as "IDEAPAD" is registered under company act 2013 by the name of "ITM Business and Incubation Foundation" with corporate identity number "U80301MP2021NPL055625/01.04.2021" which serves as a hub for entrepreneurial activity, providing a conducive environment for start-ups and innovative ventures.



Entrepreneurs benefit from a range of resources, including mentorship, funding opportunities, and access to advanced facilities. IDEAPAD plays a pivotal role in fostering entrepreneurship by providing a supportive environment for young minds to develop their entrepreneurial skills. The foundation offers incubation facilities, mentorship, and access to funding, enabling aspiring entrepreneurs to navigate the challenges of starting and scaling their ventures. By bridging the gap between academia and industry, IDEAPAD enhances the commercialization potential of innovative ideas.




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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 ITM BUSINESS AND INCUBATOR FOUNDATION is incorporated on this First day of April Two thousand twenty-one under the Companies Act, 2013 (18 of 2013) and that the company is limited by shares.

The Corporate Identity Number of the company is U80301MP2021NPL055625.

The Permanent Account Number (PAN) of the company is AAGCI0927D *

The Tax Deduction and Collection Account Number (TAN) of the company is BPLI02382C *

Given under my hand at Manesar this First day of April Two thousand twenty-one.



Digital Signature Certificate

Mr MANGAL RAM MEENA

Deputy 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:

ITM BUSINESS AND INCUBATOR FOUNDATION

SAMTA LOK SANSTHAN I.T.M. CAMPUS,, SITHOLI, JHANSI ROAD,

GWALIOR, Gwalior, Madhya Pradesh, India, 474009



* as issued by the Income Tax Department

Certificate of Incorporation

Dr. Meenakshi Meenakshi

DIRECTOR

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Gwalior (M.P.)

Dean (R&D)

Institute of Technology & Management
Gwalior (M.P.) INDIA



List of Startups

S.No.	Company Name	Company Type	CIN No.	Year	Innovation Area	Lead Student Details
1	BUNGREEN BIOFUEL PRIVATE LIMITED	Private Limited Firm (Pvt. Ltd.)	U40106MP2022PTC059715	2021-22	BUNGREEN BIOFUEL PRIVATE LIMITED	ABHAY P S BUNDELA, 0905EC201001, bundelaabhaypratap Singh@gmail.com, 7509781348,
2	CLOCEAN PRIVATE LIMITED	Private Limited Firm (Pvt. Ltd.)	U52190UP2021PTC145609	2021-22	CLOCEAN PRIVATE LIMITED	HRISHABH TIWARI, 0905ME161037, yourclocean@outlook.com, 9450341322
3	SHRI RAM SAMADHIYA CAPITAL PVT. LTD.	Private Limited Firm (Pvt. Ltd.)	U74999DL2020PTC369758	2020-21	SHRI RAM SAMADHIYA CAPITAL PVT. LTD.	Geet Samadhiya, 0905ME171012, geetsam9128@gmail.com, 8109264086
4	DoorWe-M1	Not Yet Registered as an entity			DoorWe-M1	Abhishek Pathak, 0905CS191011, abhisharma79877@gmail.com, 8319278528
5	DoorWe-M2	Not Yet Registered as an entity			DoorWe-M2	Abhishek Pathak, 0905CS191011, abhisharma79877@gmail.com, 8319278528
6	AVINYA NEUROTECH PRIVATE LIMITED	Private Limited Firm (Pvt. Ltd.)	U33119TG2022PTC169847	2021-22	Health Care	Aniket Kumar, 0905ME161013, sowmyadarapane ni666@gmail.com, 8319979800

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Makers Lab

Our institute recognizes the importance of hands-on experience and practical skills in driving innovation. To this end, we have established the Makers Lab, a dedicated space focused on robotics and its popularization. The Makers Lab provides students with the resources and guidance needed to design, prototype, and test their robotic innovations. By promoting interdisciplinary collaboration and experiential learning, the lab encourages students to explore the frontiers of technology and develop solutions that address real-world problems.

Dedicated to the relentless pursuit of innovation, the Makers Lab serves as a platform for students passionate about the fascinating fields of drones, industrial robots, and humanoid robots. Here, we foster an environment that nurtures creativity, collaboration, and hands-on learning, empowering our members to turn their imaginative concepts into tangible realities.



Makers Club Activity "Drone Mania" and Humanoid developed by students of makers club

Meenakshi Meenakshi
Dr. Meenakshi Meenakshi

DIRECTOR
Institute of Technology & Management
Gwalior (M.P.)

Dated: 25 May, 2022

F.No.10-83/AICTE/IDC/SPICES/2021-22

All India Council for Technical Education
(A Statutory body under Ministry of Education, Govt. of India)
Nelson Mandela Marg, Vasant Kunj, New Delhi 110070 Website: www.aicte-india.org



Scheme for Promoting Interests, Creativity and Ethics among Students (SPICES) - Offer Letter

To

The Registrar / Director / Principal,
Institute Of Technology &
Management, Itm Universe Campus,
Opp. Sithouli Railway Station, Nh-75,
Jhansi Road, Gwalior, 475001,
Madhya Pradesh.
[PID: 1-414297071]

Subject: Offer of the Financial Assistance under the **Scheme for Promoting Interest, Creativity and Ethics among Students (SPICES)** for the Financial Year 2022-23 - reg.

Sir/Madam,

All India Council for Technical Education is pleased to grant approval of the financial assistance towards a project sanctioned under the **Scheme for Promoting Interest, Creativity and Ethics among Students (SPICES)** for the Financial Year 2022-23 on reimbursement basis. The purpose of this offer is to energize and position one of the **club/chapter/society** (hereinafter referred to as 'Club') as facilitating entity for pursuit of individual's interests, creativity work, showcasing talent, networking and teamwork opportunities, social experience; organization and management skills, exposure to professional ethics, etc. Following are the details of the project;

1. Name & address of the beneficiary institute:	Institute Of Technology & Management, Itm Universe Campus, Opp. Sithouli Railway Station, Nh-75, Jhansi Road, Gwalior, 475001, Madhya Pradesh
2. Permanent ID of institute:	1-414297071
3. Name of the Club:	Makers Lab
4. Name of the Coordinator:	Mr. RAJKUMAR RAJORIA
5. Name of Co-coordinator:	ISHWAR GUPTA
6. Maximum financial assistance offered:	Rs.1,00,000/- (Rupees One lakh only)
7. Offer of financial assistance is debitable to:	Major Head 602.22 (a) General (Non-Plan Head)

The said offer is as per the norms and guidelines of the scheme as well as subject to the following terms and conditions: -

I. Release of funds and maintenance of the accounts

- The amount will be reimbursed on receipt of requisite documents after completion of 1 year of project.
- This offer is issued in exercise of the powers delegated to the Council and other Terms and Conditions laid down in the guidelines of the scheme.

II. Limit of Funding

- The grant from AICTE will be **Rs. 1 Lakh (one time grant to one institute)** for developing a students' club.
- The grant from AICTE will be **Rs. 1,00,000/- (Rupees One lakh only)** and the institute is required to make a contribution of **Rs.(200001 to 300000)** to the club (as committed by the institute in the proposal), non-compliance of which shall invite penal action.

AQIS ID: 1-10313400025

Sanction Letter of Rs one lakh grant "AICTE-Scheme for Promoting Interests, Creativity and Ethics among Students (SPICES)-2022"-page-1


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Dean (R&D)
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Gwalior (M.P.) INDIA

F.No.10-83/AICTE/IDC/SPICES/2021-22

III. Utilization of funds

- Funds sanctioned for supporting the particular student club cannot be utilized for any other programme/ student club.
- Only students on roll in the institute shall be the member of the club.
- The grant can be utilized for supporting a range of student activities (viz. developing Interests/Hobbies, Creativity/ Imagination/ Innovation and Ethics/ Values) and meeting the cost of registration and travel of students of the beneficiary club for participating in outstation activities (up to 40% of the total grant) but **cannot be used for procurement of hardware & software.**
- Ex-students and ex- faculty members and other officials of the institute shall not be the member of club.
- The clubs must be encouraged to reach out alumni and industries for fund-raising for their events.
- Coordinator must maintain an electronic record of activities, participants etc. and update same on the SPICES Review Portal.
- No payment is permissible against the activities already conducted by the club (i.e. before receipt of this offer letter).**

III. Disbursement of funds to the institution

- The amount of the grant shall be drawn by the Drawing and Disbursing Officer, All India Council for Technical Education and shall be disbursed to and credited to the Registrar/Director/Principal of the institute through RTGS.
- Grant will be released in conformity with the Terms & Conditions as well as norms of the scheme as already communicated and also being communicated in this letter.
- The sanctioned amount is debit to the Non-Plan Head of the Scheme for Promoting Interest, Creativity and Ethics among Students (SPICES).
- The admissibility of claim will be calculated as per the norms of AICTE only. **If the expenditure incurred is less than the amount offered, the reimbursement will be limited to the actual expenditure amount.**

IV. Documents to be uploaded on SPICES Review Portal

- On receipt of offer:**
Institute must upload the Acceptance Letter within 7 days from the date of receipt of the offer letter duly signed and seal affixed by Coordinator and Head of the Institutions on the SPICES Review Portal.
- After completion of every activity/ events:**
 - Upload the list of activities /events /participation date-wise brief description, achievement and 4-5 pictures on the SPICES Review Portal.
- After completion of project:**
Institute has to fill up Report on SPICES Review portal and upload following documents:
 - Photographs showing various activities, events organized by club.
 - Feedback from members of the club.
 - Identify 2 other clubs which the institution proposes to develop on the lines of club benefited under SPICES.

V. Submission of documents by institute for project closure (after 1 year)

The following documents must be submitted to AICTE within a period of one month from the date of completion of project for reimbursement of the grant:

AQIS ID: 1-10313400025

Sanction Letter of Rs one lakh grant "AICTE-Scheme for Promoting Interests, Creativity and Ethics among Students (SPICES)-2022"-page-2


Dr. Meenakshi Meemadkar

DIRECTOR
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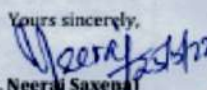
Dean (R&D)
Institute of Technology & Management
Gwalior (M.P.) INDIA

F.No.10-83/AICTE/IDC/SPICES/2021-22


- Statement of Expenditure in prescribed format duly audited by the Chartered Accountant in the case of a private institution and by the Finance Officer/Account Officer in case of government/government-aided institution.
- Supporting bills/documents on account of expenses incurred for the purpose duly attested by the Head of the Institute.
- Soft copy of final report submitted on portal as mentioned above (in section VII).
- e-Payment details/ Mandate form in the prescribed proforma is to be uploaded on the SPICES portal.

VI. General instructions

- Change of Coordinator name, should be effected only after prior approval of the Council, failing which the offer would be treated as automatically withdrawn.
- The assets acquired wholly or substantially of the All India Council for Technical Education's grants shall not be disposed or encumbered or utilized for the purposes other than those for which it was given without proper sanction of the Council and should, at any time the Institution ceased to function, such assets shall revert to the All India Council for Technical Education.
- The beneficiary institute will make best efforts to promote the scheme by mentioning the sponsorship support from AICTE, carrying the Logo of AICTE and SPICES name in events and other means.
- The beneficiary institution shall observe all financial norms and guidelines as prescribed by the AICTE/ Government of India from time to time. GOI GFR rules (@https://doe.gov.in/order/circular/general-financial-rules2017-0) should be followed while spending for the event.
- The beneficiary institute must create and maintain separate webpage for the Students' Club highlighting all the activities/ events being organized.
- The institute shall strictly follow the provisions laid down in the scheme document and of this offer letter. All correspondence related to the SPICES scheme must contain the number of this letter, failing which correspondence will not be entertained.

Yours sincerely,

(Dr. Neera Saxena)
Adviser (IDC)

Copy forwarded for information and necessary action to:

- The Registrar/ Director/ Principal,
Institute Of Technology & Management,
Gwalior, Madhya Pradesh.
- Mr. RAJKUMAR RAJORIA,
Institute Of Technology & Management,
Gwalior, Madhya Pradesh.
- Guard File.
- QR Code for Review Portal Manual and Scheme Guidelines:


AQIS ID: 1-10313400025

Sanction Letter of Rs one lakh grant "AICTE-Scheme for Promoting Interests,
Creativity and Ethics among Students (SPICES)-2022"-page-3

Research Cell

To manage, promote, and guide research and innovation, the institute has established a dedicated "Research Cell" headed by "Dean R&D".

The Research Cell actively circulates notices, guidelines, and formats to align the institution's research policy with its innovation ecosystem goals. Key communications include the Research Promotion Scheme and application formats for organizing expert lectures, all aimed at fostering a supportive environment for impactful research and innovation.

The Research Cell is a dynamic hub fostering high-impact research, with an impressive Rs. 40,25,911 secured in grants over the last five years. This vibrant research environment encourages the development and protection of innovative ideas through a well-structured process of patent filing and publication. Over the past five years, the Research Cell has filed and published over 100 Intellectual Property Rights (IPRs), including 60 patents and 20 design grants, reflecting the significant contributions of faculty and students.

In addition to its robust patent activity, the Research Cell publishes the "ITM International Journal of Innovation in Science, Engineering and Management" (IIJISEM), a double-blind peer-reviewed international journal (ISSN: 2581-6020) <https://ijisem.com/>. The journal's inaugural issue marks a significant step in cultivating an ecosystem of innovation within the institute.

Moreover, the Research Cell houses a dedicated lab funded by MPCST Bhopal, where faculty and research scholars collaboratively develop prototypes to address societal challenges. Innovations such as multipurpose air filtration units, ventilated PPE kits, and herbal gulal are testament to their efforts in driving impactful, socially relevant research.

The research cell also actively works towards the development of research capabilities by offering research incentives, forming committees to enhance research


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quality, and recommending student projects for financial support. Notable projects supported by the research cell include initiatives focused on converting plastic to fuel, developing solar water filters, detecting train track damage, and creating biogas and biomass energy plants.




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No. Notice/ITM/2020/1556

Date: 11.11.2020

Notice

ITM is restructuring its Research Cell, the following faculty and staff members are here by being associated with the Research Cell.

1. Dr. Deepesh Bhardwaj, Asst. Professor of Department of Basic sciences would cater the responsibilities of Dean Research and Development (R&D). He would focus on all activities that would enhance research in the institute. This responsibility is addition to all previous ones in the department.
2. Mr. Raghvendra Sharma, Asst. Professor of Department of Mechanical Engineering is being associated with Dean R&D office. He would be reporting to Dean R&D., for all Research Cell activities. This responsibility is addition to all previous ones in the department.
3. Mr. Jitendra Singh Kustwar Computer operator / Lab technician Department of CSE/IT is also be attached to the Research Cell. He would be reporting to the Dean R&D, for all Research Cell activities. This responsibility is addition to all previous ones in the department.

Copy to:

1. Dean Academics
2. DSW
3. AllHod's/A hod's
4. Concerned person
5. Offices-HR, Registrar, Accounts, Library, Exam
6. Office Copy For Kind Information to:

- ❖ Hon'ble Chancellor
- ❖ Hon'ble Chairman
- ❖ Managing Director
- ❖ Dean Administration

byE-mail

Director

MeBgie



MeBgie
Dr. Meenakshi Meenakshi

DIRECTOR
Institute of Technology & Management
Gwalior (M.P.)

[Signature]

Dean (R&D)
Institute of Technology & Management
Gwalior (M.P.) INDIA



Notice/Research Cell/ ITM/2022/05


Date: 24/06/2022

Notice

(Call for Research Proposal under ITM Promotion of Funding Project 2022)

All the faculties of ITM Gwalior are hereby informed that ITM Gwalior is providing financial assistance to all the eligible faculties of ITM Gwalior under the Promotion of Funding project 2022.

All interested candidates are required to submit their research proposal (Plagiarism certified) by E-mail to researchcell@itmgoi.in further also requested to send the hard copy to the research cell, ITM Gwalior on or before 15.07.2022. (Guidelines and application format is enclosed with this notice).



(Dr. Deepesh Bhardwaj)
Dean (R&D)
ITM

Copy To:-

1. All HOD's
2. All research Group leaders
3. All Faculty Members

For Kind Information :- by email

- ❖ Director ITM
- ❖ Dean Academics
- ❖ MD Office
- ❖ Research Cell
- ❖ HR Office


(Dr. Deepesh Bhardwaj)
Dean (R&D)
ITM

Notice: ITM promotion of research fund scheme


Dr. Meenakshi Meher

DIRECTOR
Institute of Technology & Management
Gwalior (M.P.)




Dean (R&D)
Institute of Technology & Management
Gwalior (M.P.) INDIA



Notice/Research Cell/ ITM/2022/03

Date: 19/05/2022


Notice

(Research Promotion Scheme)

In accordance with the vision/mission of Institute and clause no. 1.2, 4.6.8 & 4.6.9 of HR Policy, All the faculties of ITM Gwalior are hereby informed that the research promotion scheme of ITM Gwalior is providing financial assistance to all the eligible faculties of ITM Gwalior.

The main objective of this research promotion scheme is to provide seed funding to initiate innovative, multi-investigator, multidisciplinary research proposals on new research and concept that are multidisciplinary in scope are solicited.

All interested candidates are required to submit their research proposal (Plagiarism certified) by E-mail to researchcell@itmgoi.in further also requested to send the hard copy to the research cell, ITM Gwalior. (Guidelines and application format is enclosed with this notice).



(Dr. Deepesh Bhardwaj)
Dean (R&D)
ITM

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- ❖ Dean Academics
- ❖ MD Office
- ❖ Research Cell
- ❖ HR Office


(Dr. Deepesh Bhardwaj) Dean
(R&D)
ITM

Notice: ITM promotion of Promotion scheme


Dr. Meenakshi Mazumdar

DIRECTOR
Institute of Technology & Management
Gwalior (M.P.)




Dean (R&D)
Institute of Technology & Management
Gwalior (M.P.) INDIA



Notice/Research Cell/ ITM/2022/02

Date: 18/02/2022

Notice

(Common application format for organizing expert/guest lecturers/talks/seminars/workshops)

This is to inform all the faculty members that from now onwards a Common application format will be followed to organize expert/guest lecturers/talks/seminars/workshops. You are required to submit duly filled application form signed by respective HOD to Research Cell for necessary recommendations and from Research cell it will be forwarded to Director ITM for final approvals. The feedback of participants will also be the essential part of all such events. A feedback form is also attached with this mail which must be collected in hard copy/online. The documents required to be submitted after the successful conduction of the event will be circulated separately. For any doubt/clarification research cell can be contacted.

(Dr. Deepesh Bhardwaj)
Dean (R&D)
ITM

Copy To:-

1. All HOD's
2. All research Group leaders

For Kind Information :- by email

- ❖ Director ITM
- ❖ Dean Academics
- ❖ MD Office
- ❖ Director Office
- ❖ HR office

(Dr. Deepesh Bhardwaj)
Dean (R&D)
ITM

Notice: Common application format for organizing Expert Lecture etc.

Dr. Meenakshi Meenakshi

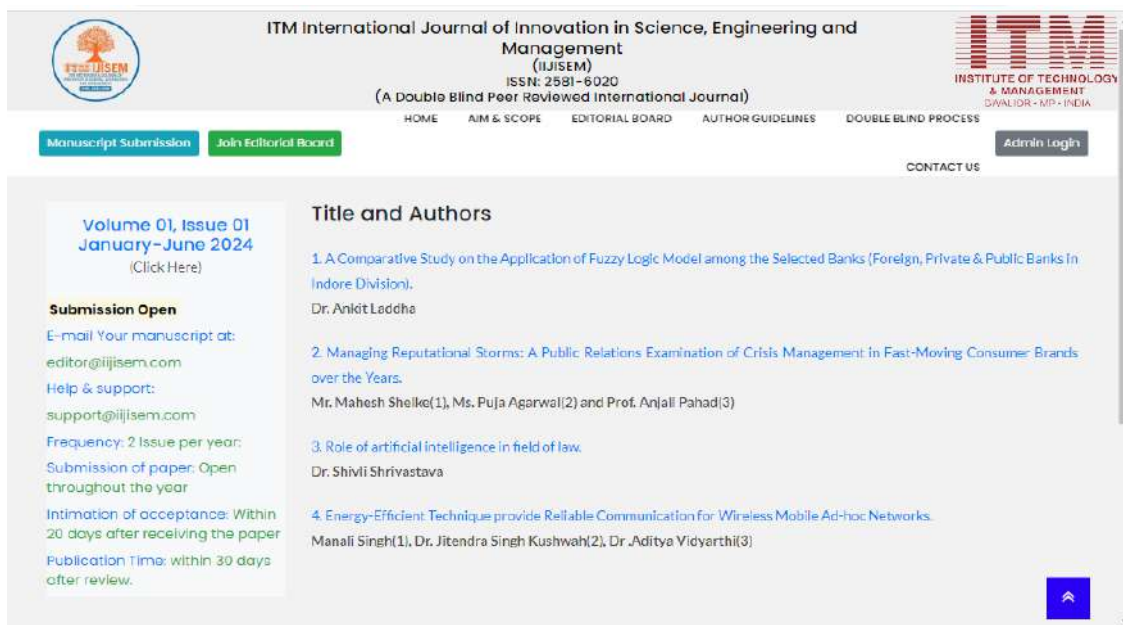
DIRECTOR
Institute of Technology & Management
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Dean (R&D)
Institute of Technology & Management
Gwalior (M.P.) INDIA



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Volume1, Issue 1 of "ITM International Journal of Innovation in Science, Engineering and Management (IJISEM) ISSN: 2581-6020" <https://ijisem.com/>

Meenakshi Meemundar
Dr. Meenakshi Meemundar

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Dr. R.D. Sharma
Dean (R&D)
Institute of Technology & Management
Gwalior (M.P.) INDIA

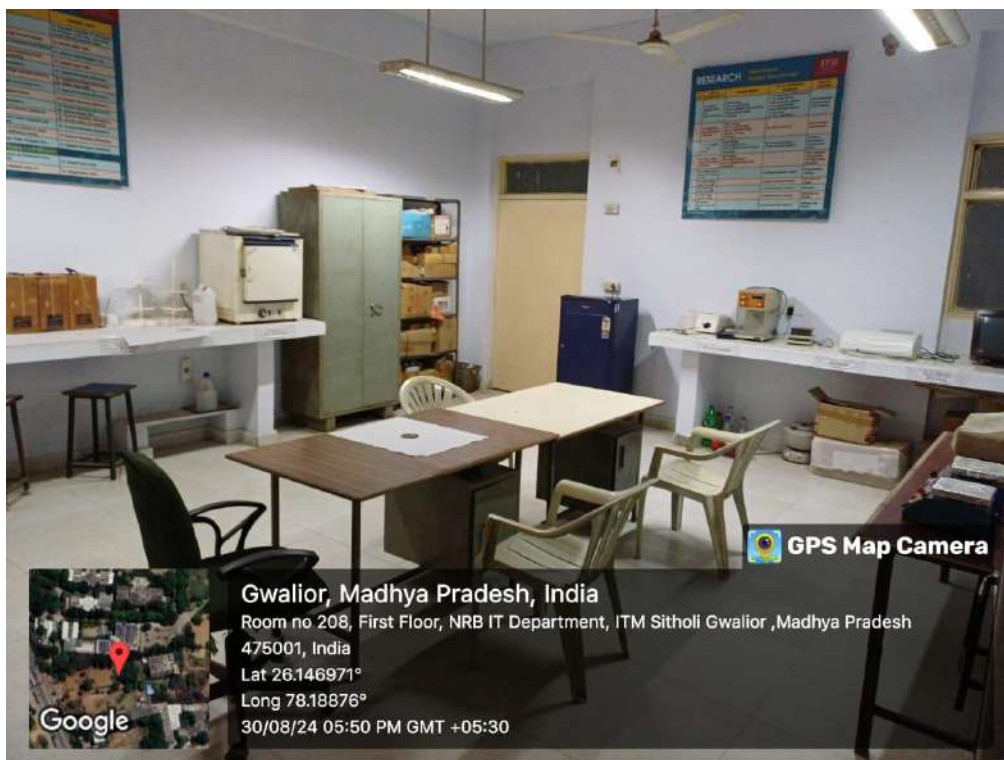


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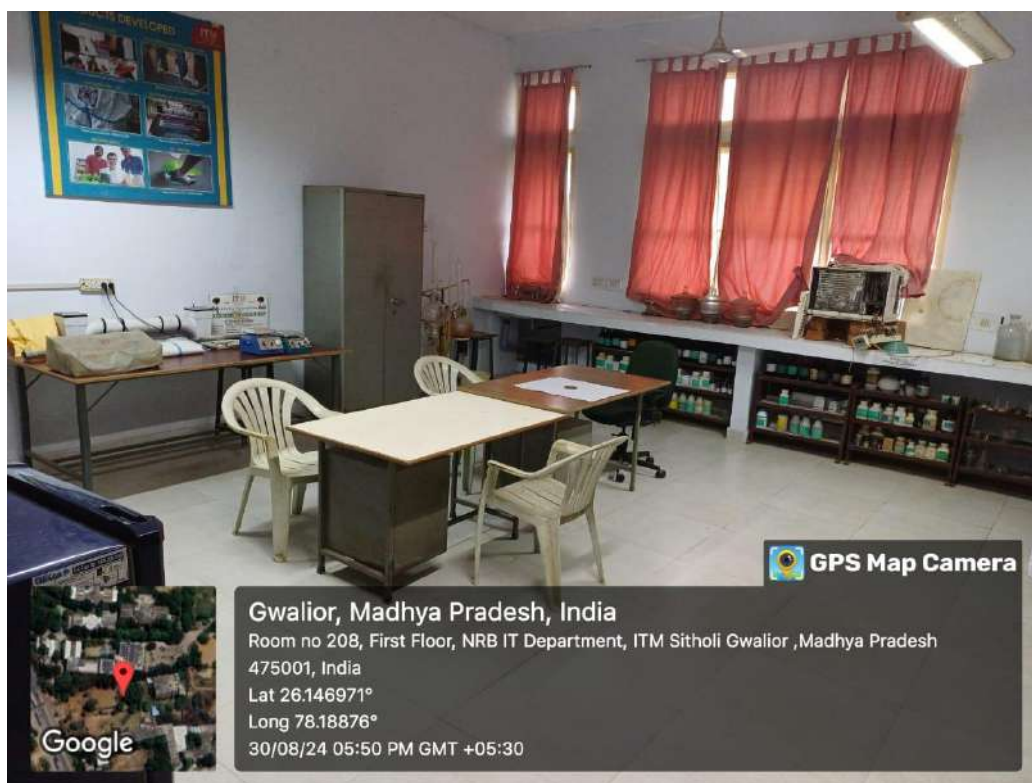
Dr. Meenakshi Meenakshi

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Gwalior (M.P.)

Dean (R&D)
Institute of Technology & Management
Gwalior (M.P.) INDIA



MPCST Bhopal funded dedicated Research Lab- Newton Block First Floor, ITM Gwalior



MPCST Bhopal funded dedicated Research Lab- Newton Block First Floor, ITM Gwalior

Dr. Meenakshi Meenakshi
DIRECTOR
Institute of Technology & Management
Gwalior (M.P.)



Images of compressor cut-off device to save the 25% electricity from air conditioners

Meenakshi
Dr. Meenakshi Meenakshi

DIRECTOR
Institute of Technology & Management
Gwalior (M.P.)

Dr. Meenakshi

Dean (R&D)
Institute of Technology & Management
Gwalior (M.P.) INDIA



Compressor cut off device connected with Window AC



Compressor cut off device connected with sub-meter for testing



Images of Compressor cutoff device from Different angles

Images of compressor cut-off device to save the 25% electricity from air conditioners

Meenakshi Meenakshi
Dr. Meenakshi Meenakshi

DIRECTOR
Institute of Technology & Management
Gwalior (M.P.)



Natural Gulal prepared by Green Chemistry Research Group ITM Gwalior

Dr. Meenakshi Mazumdar

DIRECTOR
Institute of Technology & Management
Gwalior (M.P.)

2 ग्वालियर, शुक्रवार, 8 जनवरी, 2021

नवभारत

आईटीएम में तैयार की गई वेंटीलेटेड पीपीई किट

वर्तमान में उपयोग की जा रही सफ़ोकेटेड पीपीई को विकसित कर दो सदस्यों ने तैयार की है ये किट

नवभारत न्यूज

ग्वालियर, 7 जनवरी. कोरोना से बचाव के लिए हेल्थ सेक्टर व अन्य वागद भी खतरा सुरक्षा पीपीई किट का उपयोग किया जा रहा है। पीपीई जो भी उपयोग कर रहे हैं उनके मुताबिक इसे पहने रखना किसी चुनौती से कम नहीं। साथ ही इसके लंबे समय तक उपयोग से कुछ त्वचीय प्रतिकूल प्रभाव हो सकते हैं। भारत के गर्म और आद्र मौसम की स्थिति में लंबे समय तक पीपीई पहने रहने से पसीने से लक्षण रक्षात्मक कमी काभी खतरा महसूस करते हैं। ज्यादा पसीना से डर्मेटाइटिस, मुहांसे, मोनिंगिशिया, फंगल इन्फेक्शन और कैंसिलकुलिटिस आदि हो सकते हैं। दुर्भाग्य से हमारे पास पीपीई का कोई विकल्प नहीं है।

इसके लिए आईटीएम ग्वालियर के डॉन रिसर्च एंड



डवलपमेंट डॉ. दीपेश भारद्वाज और फिज रीबोर्टक्स साल्यूशन के शिरीष पांडे ने वेंटीलेटेड किट (हवादार पीपीई) किट तैयार की है, जो पीपीई और पहनने वाले के

बीच ताजा फिल्टर्ड हवा की आपूर्ति कर घुटने को कम करती है। यह इंजेक्टेड एयर मानव त्वचा के लिए इनर एनबायरमेंट को अधिक आरामदायक बनाए रख सकता है और त्वचा की समस्याओं को नियंत्रित करने में मदद करती है। इससे पहले भी आईटीएम ग्वालियर में कोरोना काल में बचाव के लिए यूवी

सेनेटाइजर, यूवी ड्राई और स्पेशल शूज भी तैयार किए जा चुके हैं।

आईटीएम के प्रो. चांसलर डॉ. वीलत सिंह चौहान, रजिस्ट्रार डॉ. ओमकार सिंह, डायरेक्टर डॉ. मोनाही मजुमदार ने उन्हें शुभकामनाएं देते हुए भविष्य में पूर्णतः सहयोग का आश्वासन दिया है।

ब्रशलेस फैन से तैयार की पीपीई

वर्तमान में उपयोग हो रही पीपीई किट में एक वेंटीलेशन सिस्टम विकसित करके घुटने को नियंत्रित करना या कम करना इस समस्या का सबसे अव्यवहार्य समाधान हो सकता है। इसलिए हमने एक छोटे डीसी 12V 0.40 ए ब्रशलेस फैन के साथ पीपीई में बदलाव किया गया है। यह पंखा पोटेंशल पावर बैक से बिजली ले रहा है। 3 डी प्रिंटिंग का उपयोग करके फिट किए गए 12 वोल्ट डीसी फैन मोबाइल चार्जर के लिए उपयोग किए जाने वाले एक साधारण पावर बैक द्वारा चलेगा। इससे कम खर्च में ही ये विशेष वेंटीलेटेड किट तैयार की जा सकती है। इसके हवादार होने से जो स्वास्थ्य कर्मचारी या अन्य लोगी को आवश्यक रूप से पीपीई किट पहननी पड़ रही है, वे अब स्वयं में आरामदायक महसूस करके कोरोना से खुद का बचाव करते हुए अपनी सेवाएं दे पाएंगे।

Ventilated PPE Kit developed in Research Cell ITM Gwalior

आईटीएम के प्रोफेसर ने बनाया अल्ट्रावायलट झाड़ू

यूवी झाड़ू से दूर होगा घर में संक्रमण का खतरा

ग्वालियर • संक्रमण काल में हाथों और मुंह की सुरक्षा के लिए मास्क, सेनेटाइजर और हैंडवॉश का इस्तेमाल किया जा रहा है, लेकिन घर कोरोनामुक्त हो ये भी बहुत जरूरी है, इसके लिए आईटीएम के असिस्टेंट प्रोफेसर डॉ. दीपेश भारद्वाज ने अल्ट्रावायलट झाड़ू ईजाद की है। इस झाड़ू के माध्यम से घर, हॉस्पिटल, झुलाघर की कुछ ही सेकंड्स में कोरोना वायरस से मुक्त कर सकते हैं। इसका उपयोग सामान्य झाड़ू की तरह ही किया जाता है लेकिन इसकी यूवी रेज

कीटाणुमुक्त करती है और इसके बाद अन्य पोछे या सफाई की जरूरत ही नहीं पड़ती।



UV broom developed in Research Cell ITM Gwalior

आइटीएम के डॉ. दीपेश भारद्वाज ने तैयार किया सिस्टम फुटवियर सेनेटाइजिंग सिस्टम से अब घर में प्रवेश नहीं कर सकेगा वायरस

पत्रिका PLUS रिपोर्ट

ग्वालियर • देश में कोरोना अपने पैर फसार चुका है। हर रोज हजारों लोग कोरोना वायरस से संक्रमित हो रहे हैं। वर्तमान समय में हाथों और मुंह की सुरक्षा के लिए मास्क, सेनेटाइजर और हैंडवॉश का इस्तेमाल किया जा रहा है, लेकिन घरेलू में जूतों के माध्यम से वायरस आसानी से घरों में पहुंच रहा है। इसके लिए आइटीएम जीआईओ के रसायन विभाग के असिस्टेंट प्रोफेसर डॉ. दीपेश भारद्वाज ने अपनी टीम के साथ डॉ. वू फुट वियर सेनेटाइजिंग सिस्टम इजाद किया है। इस सिस्टम के माध्यम से घर के बाहर ही जूतों को महज 60 सेकंड में कोरोना वायरस मुक्त कर सकते हैं। इससे घर में कोरोना वायरस प्रवेश नहीं कर पाएगा।

पेटेंट मिलते ही शुरू होगा प्रोडक्शन : डॉ. दीपेश बताते हैं कि डॉ. वू फुट वियर सेनेटाइजिंग सिस्टम को घर में आने वाले व्यक्ति के पास रिमोट के माध्यम से आसानी से पहुंचाया जा सकता है। डॉ. वू फुट वियर सेनेटाइजिंग सिस्टम को पेटेंट के लिए एप्लाई किया गया है। पेटेंट मिलते ही स्टूडेंट्स जानेंगे एमिटी का मिशन और सिस्टम को प्रोडक्शन शुरू किया जाएगा।

60 सेकंड में खत्म हो जाएगा शूज से संक्रमण

डॉ. वू फुट वियर सेनेटाइजिंग सिस्टम को इस तरह डिजाइन किया गया है कि कोरोना वायरस को जूतों की ऊपरी सतह से लेकर निचली सतह तक महज 60 सेकंड में तीन स्टेप के माध्यम से खत्म कर देता है। बाहर से घर पहुंचने वाले व्यक्ति को पहला कदम इस मशीन के चैंबर में रखना होता है। यूवी लैंप के माध्यम से पराबैंगनी किरणों को छोड़ा जाता है, इससे कोरोना वायरस मर जाता है। यह प्रक्रिया महज 20 सेकंड की होती है। इसके बाद दूसरा कदम मशीन के दूसरे हिस्से के ऊपर खड़ा होना होता है। इससे जूतों के नीचे जाली के माध्यम से स्प्रे किया जाता है। इसके बाद सिस्टम के तीसरे हिस्से में डोरमेट पर 20 सेकंड तक जूतों को साफ किया जाता है। इस तरह कुल 60 मिनट में जूते पूरी तरह से वायरस मुक्त हो जाते हैं।

Two step Footwear sanitising system developed in Research Cell ITM Gwalior

CITY PLUS

आइटीएम के डॉ. दीपेश ने वाटर फिल्टर से बनाया उपकरण



• डेमो देते हुए आइटीएम यूनिवर्सिटी के डॉ. दीपेश भारद्वाज।

ग्वालियर । आइटीएम ग्रुप ऑफ इंस्टीट्यूट्स के केमिस्ट्री डिपार्टमेंट के असिस्टेंट प्रोफेसर दीपेश भारद्वाज ने हैंडी यूवी डिस्इफेक्टेंट बनाया है। इसे घर में आसानी से बनाया जा सकता है। इसके जरिए सब्जियां, फलों व अन्य सामग्री को जीवाणु रहित किया जा सकेगा, क्योंकि यह पराबैंगनी किरण पर आधारित है। उपयोग करते समय दस्ताने और थूप के चरमों का उपयोग करना आवश्यक है। इसके लिए उन्होंने घर में उपयोग होने वाले यूवी वाटर फिल्टर के यूवी लैंप (11 वाट मरकरी) का यूज की है। आइटीएम जीआईओ की डायरेक्टर प्रो. मीनाक्षी मजुमदार कहना है कि इसमें पराबैंगनी किरणों को 3 भागों में बांटा जा रहा है। यूवीसी का उपयोग सभी के वाटर फिल्टर में किया जा रहा है। इसमें लगभग 180 से लेकर 280 नैनो मीटर तरंग का यूवी वाटर फिल्टर में सूक्ष्म जीवों का निष्क्रिय करने में होता है।

परिश्रमाएं अब एनपीटीईएल की

Handy UV sanitizer developed in Research Cell ITM Gwalior

Dr. Meenakshi Majumdar

DIRECTOR
Institute of Technology & Management
Gwalior (M.P.)

Intellectual Property Rights (IPR) Management

Securing intellectual property rights is a critical aspect of the innovation ecosystem. Our institute is committed to protecting the intellectual property generated by its faculty and students. The research Cell actively files for various forms of IPR, including patents, copyrights, and designs, to safeguard and commercialize its innovations. Additionally, the institute participates in the Kapila scheme, which supports the filing and commercialization of patents. This proactive approach to IPR management ensures that the institute's innovations are legally protected and can be effectively leveraged for societal and economic benefits.



Notice/Research Cell/ ITM/2022/08

Date: 21/12/2022

Notice (IPR)

All the faculty member of ITM Gwalior are requested to submit their unpublished research/Innovation/Idea/Product (as & when prepared) etc. in a prescribed format (attached with this notice) for patent filing to the Research Cell, Newton Block, First Floor.

(Dr. Deepesh Bhardwaj)
Dean (R&D)
ITM

Copy To:-

1. All HOD's
2. All Research Group Leaders & Members

For Kind Information :- by email

- ❖ Director ITM
- ❖ Dean Academics
- ❖ MD Office

(Dr. Deepesh Bhardwaj)
Dean (R&D)
ITM

Dr. Meenakshi Meenakshi

DIRECTOR
Institute of Technology & Management
Gwalior (M.P.)



Dean (R&D)
Institute of Technology & Management
Gwalior (M.P.) INDIA



Notice/Research Cell/ ITM/2022/06

Date: 30/06/2022

Notice


(KAPILA: Kalam Program for IP Literacy and Awareness

Implementing agency: MoE's (Ministry of Education) Innovation Cell/AICTE)

All the students, faculties and staff members are hereby informed that ITM Gwalior is accepting applications under KAPILA Scheme. All interested candidates are required to submit details of their Idea, Product and Prototype etc. for patent filing. Under this scheme no application fee will be charged from the candidate. To submit the details contact Mr. R. K. Rajoriya Coordinator KAPILA Scheme ITM, Makers lab, Newton block, Ground floor.


Copy To:-

1. All HOD's (With request to circulate among faculty and students of respective department)
2. All research Group leaders
3. All KAPILA Committee Member


(Dr. Deepesh Bhardwaj)
Dean (R&D) and Convener KAPILA
Committee ITM

For Kind Information :- by email

- ❖ Director ITM
- ❖ Pro-VC ITM University
- ❖ Dean Research ITM University
- ❖ Dean Academics
- ❖ MD Office
- ❖ VC Office


(Dr. Deepesh Bhardwaj)
Dean (R&D) and Convener KAPILA
Committee ITM

Notice: KAPILA Scheme


Dr. Meenakshi Mazumdar

DIRECTOR
Institute of Technology & Management
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Dean (R&D)
Institute of Technology & Management
Gwalior (M.P.) INDIA



INSTITUTE OF TECHNOLOGY & MANAGEMENT

No. ITM/2022//DO/ 1756

Date: 16 June 2022

To,
The KAPILA Team
MoE's Innovation Cell
All India Council for Technical Education (AICTE), New Delhi

Dear Sir / Mam,
Subject: Formation and Approval of KAPILA committee

The following members have been selected as per the guidelines for approving the innovative ideas for KAPILA scheme.

Sl. No.	Designation	Name	Institute/Company name	Contact No.	Email Address
1.	Chairperson - (Director)	Dr. Meenakshi Mazumdar	Institute of Technology & Management	9340620782	directoritmgol@itmgol.in
2.	Institute alumni / Industry expert	Mr. Mohsin Hasan	Smart Controls India Limited	9827553363	mohsin_engg@yahoo.com
3.	Incubation Head	Mr. Pawan Tiwari	ITM Business and Incubator Foundation	9425400717	pawantiwari.mca@itmuniiversity.ac.in
4.	Legal Advisor	Mr. Prateek Shrivastava	PNA IP and Technology Attorneys	9015815408	prateek@pna-ip.com
5.	Convenor	Dr. Deepesh Bhardwaj	Institute of Technology & Management	9977672671	deepesh.bhardwaj@itmgol.in
6.	(Senior Faculty Member)	Dr. Prabha Dixit	Institute of Technology & Management	9425110434	prabha.dixit.chem@itmuniiversity.ac.in
7.	(Senior Faculty Member)	Dr. Deepak Gupta	Institute of Technology & Management	9011564796	deepak.gupta@itmgol.in
8.	(Single Point of Contact)	Prof. Raj kumar Rajoria	Institute of Technology & Management	9301908600	rk.rajoria@itmgol.in

I hereby declare that the above-mentioned members have been selected for the KAPILA committee. They will further shortlist the innovative ideas for KAPILA submission from the submitted ideas at the institute level.


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Email: itm.office@rediffmail.com, itm@smartversion.in, website : www.itmgrouped.in

KAPILA Committee Members


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Table 1 List of Patents/Designs/Copyrights

S. No.	First Author	patent number	Title of patent	Patent authority	National /international	Copyrig ht/pate nt	Year of patent
1.	MR ANKIT SHRIVASTAVA	20244103252 5 A	AI-DRIVEN PERSONALIZED NEWS RECOMMENDATION SYSTEM TO ANALYZE USER PREFERENCES AND BEHAVIORS, DELIVER	INTELLECTUAL PROPERTY INDIA	national	PATENT	2024
2.	Dr.K.Sita kumari	20244103029 6 A	ARTIFICIAL INTELLIGENCE-BASED KNOWLEDGE EVOLUTIONARY PROCESS FOR OPTIMIZATION DECISION SUPPORT AND P	INTELLECTUAL PROPERTY INDIA	national	PATENT	2024
3.	Ms. Vishakha Yadav	2.02421E+11	Sustainable concrete mix design for reduced environmental impact and increased durability	Indian Patent Office (Intellectual Property Rights)	national	Patent	2024
4.	Rachit Jain	6324653	Multiband Star-Shapes Terahertz Antenna	UK Design	international	Design	2023
5.	Gaurav Dubey	L-145151/2024	Decision tree for datascience concepts and application	Indian	national	Copyright	2024
6.	Dr.S.Sandosh	2.02441E+11	IoT with AI Integrating Neuro-Fuzzy Systems Based Facial Recognition for Video Surveillance in banki	Indian patent	national	Patent	2024

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7.	R K RAJORIA	2.02421E+11	INTERACTIVE PERSONAL ROBOT - TALKBUDDY	Indan patent	internati onal	Patent	2023
8.	C P Bhargava	6339020	Portable Device for Voice Command Recognition and Response System Using Natural Language Processing	U K Patent	internati onal	Patent	2024
9.	Chandra Prakash Bhargava	6339020	Portable Device for Voice Command Recognition and Response System Using Natural Language Processing	U K Patent	internati onal	PATENT	2024
10.	Om Prakash Singh	6342954	Electronic Bank Device for Validating Handwritten Bank Cheques	UK PATENT	internati onal	PATENT	2024
11.	Chandra Prakash Bhargava	6339020	Portable Device for Voice Command Recognition and Response System Using Natural Language Processing	U K Patent	internati onal	PATENT	2024
12.	Rajkumar Rajoria	2.02421E+11	INTERACTIVE PERSONAL ROBOT - TALKBUDDY	GOV OF INDIA	national	PATENT	2024
13.	Dr. A. SELVARAJ	403218-001	AI BASED PESTICIDE SPRAYING AND FRUIT HARVESTING MACHINE	GOV. OF INDIA	national	PATENT	2023
14.	C P Bhargava	NA	NA	GOV. OF INDIA	national	L-144539/2024	2024

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15.	Institute of Technology & Management	2.02421E+11	(54) Title of the invention : INTERACTIVE PERSONAL ROBOT - TALKBUDDY	Indian patent office	national	patent	2024
16.	Dr. Ashutosh Trivedi	2.02321E+11	MATERIAL CHARACTERIZATION TECHNIQUE FOR EFFECTIVELY SIMULATING STEEL EMBEDDED IN CONCRETE THROUGH AN	Govt of India	national	Patent	2023
17.	Deepesh Bhardwaj	6278781	Outer straw sipperwithstrawcapandstrawcap protection string	IPO Office United Kingdom	international	Design Patent	2023
18.	Deepesh Bhardwaj	6278780	Double neck disposablebottlewith hangingstring	IPO Office United Kingdom	international	Design Patent	2023
19.	Deepesh Bhardwaj	6278779	Horizontalhandle broom.	IPO Office United Kingdom	international	Design Patent	2023
20.	Deepesh Bhardwaj	6278779	Horizontalhandle broom.	IPO Office United Kingdom	international	Design Patent	2023
21.	Deepesh Bhardwaj	6278778	UVCBroom	IPO Office United Kingdom	international	Design Patent	2023
22.	Deepesh Bhardwaj	6278777	MultipurposeAir Filtration unit for terrain application	IPO Office United Kingdom	international	Design Patent	2023
23.	Deepesh Bhardwaj	6278776	Handy uv sanitizer	IPO Office United Kingdom	international	Design Patent	2023
24.	Deepesh Bhardwaj	6278775	3step walk throughfootwearenitizationssystem	IPO Office United Kingdom	international	Design Patent	2023
25.	Deepesh Bhardwaj	6278774	Brushlessfan basedairfiltrationunit	IPO Office United Kingdom	international	Design Patent	2023
26.	Deepesh Bhardwaj	6278773	Ventilated PPE kit	IPO Office United Kingdom	international	Design Patent	2023

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27.	Aruna Bajpai	382427-001	SMART SURVEILLANCE SYSTEM FOR ANOMALOUS ACTIVITY DETECTION	The Patent Office, Government Of India	national	Design Patent	2023
28.	Aruna Bajpai	382427-001	SMART SURVEILLANCE SYSTEM FOR ANOMALOUS ACTIVITY DETECTION	Intellectual Property India	international	Patent	2023
29.	Dr DilipKumar Sharma	2.02321E+11	Organisational Culture and its Influence on Innovation Management	Patent and Design Journal-IPR	national	Patent	2023
30.	Ankit Shrivastava	52/2022	METHOD OF DEVELOPING SUSTAINABLE CONCRETE INCORPORATING COAL BOTTOM ASH TO MITIGATE CARBON FOOTPRINT	Government of india	national	patent	2022
31.	Dr. Jitendra Singh Kushwah	2.02321E+11	Extended Energy-Efficient Water Management Platform for Smart Irrigation based on the Internet of T	Intellectual Property India	national	Patent	2023
32.	R.Shashikala	2.02341E+11	ARTIFICIAL INTELLIGENCE BASED ONLINE LABOUR EDUCATION MANAGEMENT SYSTEM AND ITS OPTIMIZATION METHOD	Office of the controller General of Patents, Design & Trade marks	national	Patent	2023
33.	Dr. Jitendra Singh Kushwah	2.02321E+11	Extended Energy-Efficient Water Management Platform for Smart	Intellectual Property, India	national	Patent	2023

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			Irrigation based on the Internet of T				
34.	DR. DEEPAK GUPTA	6028/2023-CO/L	Role of artificial Intelligence in education	Intellectual Property, India	national	Copyright	2023
35.	DR. DEEPAK GUPTA	4314/2022-CO/L	Smart Irrigation System with Moisture and Weather Prediction of Soil Using Internet of Things	Intellectual Property, India	national	Copyright	2022
36.	Dr. Aditya Vidyarthi	2.02321E+11	Smart Irrigation System with Moisture and Weather Prediction of Soil Using Internet of Things	Intellectual Property, India	national	Patent	2023
37.	Dr. Jitendra Singh Kushwah	2.02321E+11	Parameter Dependent Analysis of Regression Supervised Machine Learning	Intellectual Property, India	national	Patent	2023
38.	Dr. Aditya Vidyarthi	2.02321E+11	Crop Yield Production Depleting Classifier Machine Learning Algorithms- An Evaluation and Investigat	Intellectual Property, India	national	Patent	2023
39.	Dr. Jitendra Singh Kushwah	2.02221E+11	Improve the Performance of Access Time in Proxy Caching Using JSK-LRU Algorithm	Intellectual Property, India	national	Patent	2022
40.	DESHDEEPAK SHRIVASTAVA	2.02311E+11	CBIE- System And Method For Chaos Based Image Encryption	Intellectual Property, India	national	Patent	2023
41.	Dr.A.Senthamilselvi	2.02241E+11	Integrated Library Management System for Various	Intellectual Property, India	national	Patent	2022

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			Public and Private Institutions based on Internet o				
42.	Dr.M. Ashwin	2.02141E+11	Child Tracker with Emergency Notifier	Intellectual Property, India	national	Patent	2021
43.	ZAKIR ALI,	6271005	SOLAR PANEL CLEANING DEVICE	Certificate for a UK Design	internati onal	Patent	2023
44.	Rachit Jain,	6324953	Multiband Star-Shaped Terahertz Antenna	Certificate for a UK Design	internati onal	Patent	2023
45.	DR. VIJAYANT VERMA,	6322567	SMART WEARABLE DEVICE FOR REAL TIME HEALTH MONITORING	Certificate for a UK Design	internati onal	Patent	2023
46.	DR. DEEPAK GUPTA	L-135302/2023	ROLE OF ARTIFICIAL INTELLIGENCE IN EDUCATION	Indian copyright office	national	Copyrig ht	2023
47.	DR. DEEPAK GUPTA	L-135302/2023	ROLE OF ARTIFICIAL INTELLIGENCE IN EDUCATION	Indian copyright office	national	Copyrig ht	2023
48.	DR. DEEPAK GUPTA	L-135375/2023	: HEALTH MANAGEMENT MODEL USING BLOCKCHAIN	Indian copyright office	national	Copyrig ht	2023
49.	DR. DEEPAK GUPTA	L-139976/2023	SOCIAL IMPACT ASSESSMENT OF ARTIFICIAL INTELLIGENCE IN RULAR COMMUNITIES	Indian copyright office	national	Copyrig ht	2023
50.	Prof.(Dr.) Prashant Singh	The Patent Office Journal No. 47/2021 Dated 19/11/2021	IOT-BASED TEMPERATURE MEASUREMENT PLATFORM FOR A REAL-TIME ENVIRONMENT USING LM35.	INDIA	national	PATENT	2021
51.	DR. DEEPAK GUPTA	L-135375/2023	HEALTH MANAGEMENT MODEL USING BLOCKCHAIN	Copyright Office, Govt. of India	national	Copyrig ht	2023

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52.	DR. DEEPAK GUPTA	4314/2022-CO/L	HEART DISEASE DETECTION	Copyright Office, Govt. of India	national	Copyrig ht	2022
53.	Dr. Jitendra Singh Kushwah	2.02321E+11	ADVANCED CRIME RATE PREDICTION USING ML.	Intellectual Property India	national	Patent	2023
54.	Dr. Aditya Vidyarthi	2.02321E+11	SMART IRRIGATION SYSTEM WITH MOISTURE AND WEATHER PREDICTION OF SOIL USING INTERNETOF THINGS	Intellectual Property India	national	Patent	2023
55.	Dr. Aditya Vidyarthi	2.02321E+11	CROP YIELD PRODUCTION DEPLETING CLASSIFIER	Intellectual Property India	national	Patent	2023
56.	Dr. Jitendra Singh Kushwah	2.02321E+11	PARAMETER DEPENDENT ANALYSIS OF REGRESSION SUPERVISED MACHINE LEARNING	Intellectual Property India	national	Patent	2023
57.	Dr. Jitendra Singh Kushwah	2.02221E+11	IMPROVE THE PERFORMANCE OF ACCESS TIME IN PROXY CACHING USING JSKLRU ALGORITHM	Intellectual Property India	national	Patent	2022
58.	Dr. Sitendra Tamrakar	2.02041E+11	AN IOT ENABLED CLOUD COMPUTING BASED REMOTE MONITORING SYSTEM OF HAZARDOUS, FLAMMABLE, AND EXPLOSIVE	Intellectual Property India	national	Patent	2020
59.	Rachit Jain	6324953	Multiband Star-shaped Terahertz Antenna	Intellectual Property Office U.K.	internati onal	Design	2023

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60.	Ms.S.Sheeba Rachel	2.02241E+11	Irish Based Human Identity Recognition System Mechanism for Any Organization Using Cloud, Machine Le	IPR GOVT OF INDIA	national	PATENT	2022
61.	pradeep yadav	2.02241E+11	Artificial Intelligence and IoT based Automatic smart Healthcare system to Prevention and Detection	IPR	national	patent	2023
62.	Dr.B.Anirudhan	359963-001	AN UV MONITORING SENSOR DEVICE	IPR GOVT OF INDIA	national	PATENT	2022
63.	Dr. Deepak Gupta	L-135302/2023	Role of Artificial Intelligence in the Education	intellectual property india	national	Copyrig ht	2023
64.	RASHMI PANDEY	202221030720 A	AN ARTIFICIAL INTELLIGENCE (AI) & MACHINE LEARNING BASED SYSTEM FOR DETECTING TAMPERING IN AN IMAGE	IPR GOVT OF INDIA	national	PATENT	2022
65.	Mrs. Rashmi Pandey	2.02221E+11	AN ARTIFICIAL INTELLIGENCE(AI) & MACHINE LEARNING BASED SYSTEM FOR DETECTING TAMPERING IN AN IMAGE A	IPR	national	Patent	2022
66.	Dr. Deepak Gupta	L-139976/2023	SOCIAL IMPACT ASSESSMENT OF ARTIFICIAL INTELLIGENCE IN RULAR COMMUNITIES	LITERARY/ DRAMATIC WORK SOCIAL IMPACT ASSESMEN T OF ARTIFICIAL	national	COPYRI GHT	2023

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				INTELLIGENCE IN RURAL COMMUNITIES			
67.	Dr. Deepak Gupta	L-139976/2023	SOCIAL IMPACT ASSESSMENT OF ARTIFICIAL INTELLIGENCE IN RURAL COMMUNITIES	LITERARY/ DRAMATIC WORK SOCIAL IMPACT ASSESSMENT OF ARTIFICIAL INTELLIGENCE IN RURAL COMMUNITIES	national	COPYRIGHT	2023
68.	Dr. Deepak Gupta	L-139976/2023	SOCIAL IMPACT ASSESSMENT OF ARTIFICIAL INTELLIGENCE IN RURAL COMMUNITIES	LITERARY/ DRAMATIC WORK SOCIAL IMPACT ASSESSMENT OF ARTIFICIAL INTELLIGENCE IN RURAL COMMUNITIES	national	COPYRIGHT	2023
69.	R. Shashikala	2.02341E+11	ARTIFICIAL INTELLIGENCE BASED ONLINE LABOUR EDUCATION MANAGEMENT SYSTEM AND ITS OPTIMIZATION METHOD	Intellectual Property India	international	Patent	2023
70.	DR. DEEPAK GUPTA	L-139976/2023	SOCIAL IMPACT ASSESSMENT OF ARTIFICIAL INTELLIGENCE IN RURAL COMMUNITIES	Indian copyright office	national	Copyright	2023
71.	DR. DEEPAK GUPTA	L-139976/2023	SOCIAL IMPACT ASSESSMENT OF	Indian copyright	national	Copyright	2023

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			ARTIFICIAL INTELLIGENCE IN RURAL COMMUNITIES	office			
72.	Deepak Gupta	L-127257/2023	PERFORMANCE METRICS FOR MACHINE LEARNING ALGORITHM	Copyright Office, Govt. of India	international	Copyright	2023
73.	Deepak Gupta	L-127257/2023	PERFORMANCE METRICS FOR MACHINE LEARNING ALGORITHM	Copyright Office, Govt. of India	international	Copyright	2023
74.	Deepak Gupta	L-127257/2023	PERFORMANCE METRICS FOR MACHINE LEARNING ALGORITHM	Copyright Office, Govt. of India	international	Copyright	2023
75.	Dr. Jitendra Singh Kushwah	20232103616 2 A	PARAMETER DEPENDENT ANALYSIS OF REGRESSION SUPERVISED MACHINE LEARNING	Office of the Controller General of Patents, Design & Trade Marks (CGPDTM)	national	Patent	2023
76.	DR. DEEPAK GUPTA	L-125074/2023	IOT AND BLOCKCHAIN APPLICATIONS	Copyright Office, Govt of India	national	Copyright	2023
77.	DR. DEEPAK GUPTA	L-118027/2022	BLOCKCHAIN	Copyright Office, Govt of India	national	Copyright	2022
78.	DR. DEEPAK GUPTA	L-118027/2022	BLOCKCHAIN	Copyright Office, Govt of India	national	Copyright	2022
79.	DR. DEEPAK GUPTA	L-118027/2022	BLOCKCHAIN	Copyright Office, Govt of India	national	Copyright	2022
80.	DR. DEEPAK GUPTA	L-118027/2022	BLOCKCHAIN	Copyright Office, Govt of India	national	Copyright	2022
81.	Dr. Deepak Gupta	L-135302/2023	Role of Artificial Intelligence in the Education	intellectual property india	national	Copyright	2023

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82.	DR. DEEPAK GUPTA	L-127257/2023	PERFORMANCE METRICS FOR MACHINE LEARNING ALGORITHM	COPYRIGHT OFFICE	international	COPYRIGHT	2023
83.	DR. DEEPAK GUPTA	L-127257/2023	PERFORMANCE METRICS FOR MACHINE LEARNING ALGORITHM	COPYRIGHT OFFICE	international	COPYRIGHT	2023
84.	Dr. Deepak Gupta	L-135302/2023	Role of Artificial Intelligence in the Education	intellectual property india	national	Copyright	2023
85.	Dr. Deepak Gupta	L-135302/2023	Role of Artificial Intelligence in the Education	intellectual property india	national	Copyright	2023
86.	Dr. Deepak Gupta	L-135302/2023	Role of Artificial Intelligence in the Education	intellectual property india	national	Copyright	2023
87.	Dr. Deepak Gupta	L-135302/2023	Role of Artificial Intelligence in the Education	intellectual property india	national	Copyright	2023
88.	Dr. Deepak Gupta	L-135302/2023	Role of Artificial Intelligence in the Education	intellectual property india	national	Copyright	2023
89.	Dr. Deepak Gupta	L-135302/2023	Role of Artificial Intelligence in the Education	intellectual property india	national	Copyright	2023
90.	Dr. Pandarinath Potluri	2.20241E+11	IOT-BASED WATER QUALITY MONITORING FOR FILTER TESTING	NA	national	PATENT	2022
91.	M.Gokilavani	2.02241E+11	Artificial Intelligence based Automatic Health care system to recognize fruits, vegetables and calor	Indian Patent Office	national	Patent	2022
92.	Dr. Mukta Jagdish	2.02341E+11	Artificial Intelligence based Automatic smart Health care system to prevent and predict the	Indian Patent Office	national	Patent	2023

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			colorect				
93.	Dr. Pandarinath Potluri	2.02241E+11	IOT-BASED WATER QUALITY MONITORING FOR FILTER TESTING	Indian Patent Office	national	Patent	2022
94.	Dr. Mehul Pravinchandra Barot	2.02221E+11	IOT-BASED INTELLIGENT ELECTRIC VEHICLE CHARGING STATION	Indian Patent Office	national	Patent	2022
95.	DR. DEEPAK GUPTA	NA	IOT and BLOCKCHAIN	NA	national	L-125074/2023	2023
96.	DR. DEEPAK GUPTA	NA	BLOCKCHAIN	NA	national	L-118027/2022	2022
97.	DR. DEEPAK GUPTA	L-127257/2023	PERFORMANCE METRICS FOR MACHINE LEARNING ALGORITHM	Indian copyright office	national	Copyrig ht	2023
98.	Dr. Akhilesh Kumar Sharma	2.02111E+11	SYSTEM AND METHOD FOR PREDICTING CANCER DISEASE USING DEEP LEARNING	Indian patent office	national	patent	2021
99.	Dr. Akhilesh Kumar Sharma	2.02111E+11	SYSTEM AND METHOD FOR PREDICTING CANCER DISEASE USING DEEP LEARNING	Indian patent office	national	patent	2021
100.	Dr. Deepak Gupta	2.02321E+11	SYSTEM AND METHOD USING DEEP LEARNING ALGORITHMS FOR MEDICAL FRAUD DETECTION	Indian patent office	national	patent	2023
101.	Dr. Brijendra Gupta	2.02321E+11	A SYSTEM FOR PREDICTING DIABETES AND HYPERTENSION USING BIG DATA	Indian patent office	national	patent	2023

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			AND THE METHOD OF USING THEREOF				
102.	Dr. Shyam Sunder Gupta	2.02321E+11	A SYSTEM FOR SMART CITY MANAGEMENT BASED ON IOT AND A METHOD OF THEREOF	Indian patent office	national	patent	2023
103.	Prof. Sanjaykumar Pingat	2.02321E+11	A SYSTEM FOR MONITORING RENEWAL ENERGY USING IOT	Indian patent office	national	patent	2023
104.	Dr. Jitendra Singh Kushwah	20232103616 2 A	PARAMETER DEPENDENT ANALYSIS OF REGRESSION SUPERVISED MACHINE LEARNING	Office of the Controller General of Patents, Designs & Trade Marks (CGPDTM)	national	Patent	2023
105.	S Kranthi	20224107535	Real-Time Disruption In IoT Devices Using Vulnerability Identification Via ML Algorithm Hierarchy	Intellectual Property India	national	Patent	2022
106.	Vineet Shrivastava	2.02321E+11	VEHICLE SPEED LIMIT CONTROLLER	Governmen t of India	national	Patent	2023
107.	Dr. Deepak Gupta	6028/2023- co/n	Role of Artificial Intelligence in Education	Indian Patent Authority	national	6028/20 23-CO/L	2023
108.	Dr. Nidhi Dandotiya	2.02221E+11	A Process to develop authentication scheme for IoT network	Indian Patent Authority	national	Patent	2022
109.	DR. DEEPAK GUPTA	2.02321E+11	SYSTEM AND METHOD USING DEEP LEARNING ALGORITHMS FOR MEDICAL FRAUD DETECTION	The Patent Office ,India	national	Patent	2023

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110.	Dr. pallavi Khattri	2022/06602	A Data Acquisition System and a method their of	Republic of south africa	internati onal	Patent	2022
111.	Dr. Priti Maheshwary	373963-001	INTERNET OF THINGS BASED EQUIPMENT FOR CONTROL OF ELECTRIC POWER	GOVERNME NT OF INDIA, THE PATENT OFFICE	national	Patent	2022
112.	Dr. Dilip Kumar Sharma	2.02321E+11	HIGH CREDIBILITY AND MUTUAL TRUST IN SUPPLY CHAIN MANAGEMENT: ITS IMPORTANCE	Controller General of Patents, Designs & Trade Marks India	national	Patent	2023
113.	DR. DEEPAK GUPTA	L-125074/2023	LITERARY/ DRAMATIC WORK IOT AND BLOCKCHAIN APPLICATIONS	COPYRIGHT OFFICE ,GOVT OF INDIA	national	Copyrig ht	2023
114.	DR. DEEPAK GUPTA	L-118027/2022	Blockchain	COPYRIGHT OFFICE ,GOVT OF INDIA	national	Copyrig ht	2022

Student Projects and Financial Support

The institute places a strong emphasis on student-led innovation. By providing financial support for student projects, the institute encourages students to pursue innovative solutions to pressing problems. Projects such as plastic-to-fuel conversion, solar water filters, train track damage detection, and biogas energy plants not only offer practical solutions but also provide students with valuable learning experiences. The financial backing and mentorship provided by the institute enable students to bring their ideas to fruition and make a tangible impact. A sum of around 6lakhs has been sanctioned to the students for their work to develop ATV, Plastic digester to generate diesel, Solar water purifier.


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Students developing Biogas plant

All these initiatives and structures collectively contribute to the development of a robust innovation ecosystem within the institute. By fostering a culture of innovation, providing the necessary resources and support, and promoting interdisciplinary collaboration, the institute ensures that innovation thrives at all levels. The establishment of various cells and clubs dedicated to innovation, entrepreneurship, and research further strengthens this ecosystem.

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Dr. Meenakshi Mazumdar

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Dr. R.D.

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Indian Knowledge System

The Performing Arts Club at our institute plays a pivotal role in promoting the Indian Knowledge System, while simultaneously supporting the innovation ecosystem. Through its activities, the club not only encourages students to engage with India's rich cultural heritage but also nurtures creative thinking, which is essential for innovation. By organizing workshops, dramas, and traditional street performances like "nukkad natak," the club offers students a medium to explore their cultural roots and connect with timeless wisdom passed down through generations.

Performances such as "Maharathi," "Parashuram Gatha," and "Ek Khanosh Cheekh" highlight India's historical narratives, mythological themes, and philosophical reflections, helping students appreciate the vastness and depth of our traditional knowledge. This connection to culture and history fosters a sense of identity and belonging, which is crucial in shaping well-rounded individuals.

The Performing Arts Club not only celebrates cultural diversity but also integrates it into the academic environment, encouraging interdisciplinary learning. This cultural engagement cultivates creativity and critical thinking, which are vital for innovation. Students are inspired to think beyond conventional academic boundaries, exploring new ideas and perspectives rooted in their heritage.

In this way, the Performing Arts Club contributes to the broader goals of the institute by creating an environment where tradition meets innovation, enabling students to be both culturally grounded and intellectually inventive, thus supporting the institute's innovation ecosystem. The institute promotes Indian Knowledge Systems through non-credit courses like BT4091.

There are some images of play "MAHARATHI":



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Glimpse of this play



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Some images of play EK Khamoosh Cheekh:



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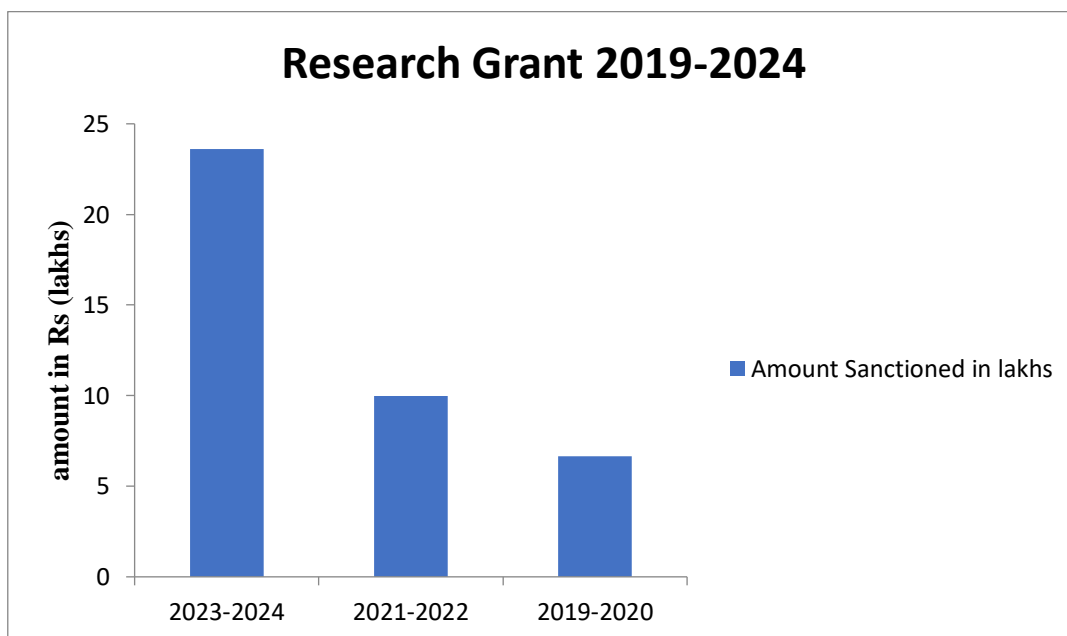
Year wise summary of the research grant received, Publications etc

In **2019-20**, a research grant of INR 6,65,000 was received from MPCST, Govt. of MP. for the project “Synthesis, Characterization, and Optoelectronic Property Manipulation of Zinc Oxide Nanocomposites” led by Dr. Deepesh Bharwaj.

In **2021-22**, a grant of INR 9,99,800 was received, including INR 5,00,000 from T.T. Associates Engineers and Contractors for “An Empirical Study of Welfare Measures for Construction Workers.” Dr. Preeti Singh led two projects totaling INR 6,47,000.

In **2023-24**, the institute secured a total grant of INR 23,61,111 for four research projects of computer science engineering, Civil engineering and Management.

Moreover institute has recieved a total grants of over 6lakhs Rs from government agencies like MPCST Bhopal, AICTE Atal, RGPV bhopal for organizing FDP's, and Seminars during last five years.



Research Grant received in last five years (2019-2024)

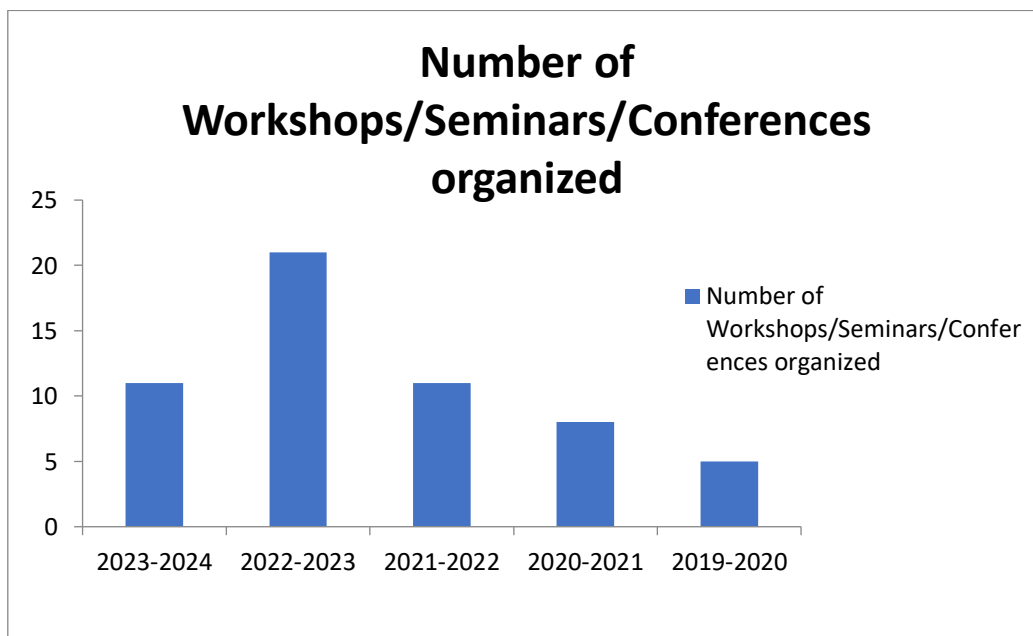
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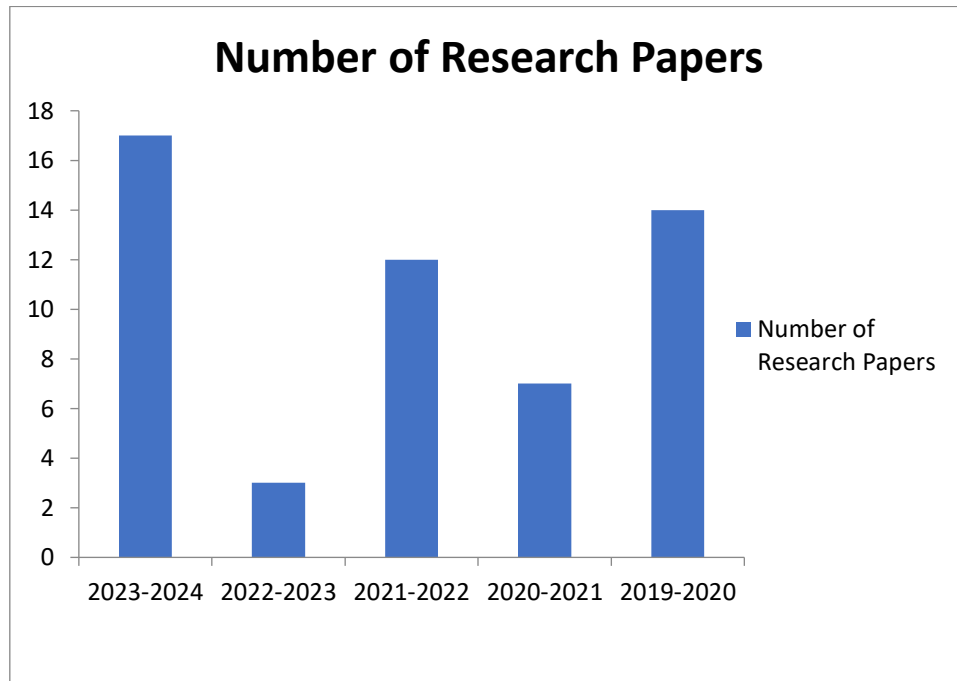
Over the last five years, the institution has organized many events and take several initiatives to create an innovation ecosystem in the institute the outcome of the efforts can be shown by the data of the last five year in the field of research and development. In 2022-2023 institute has organized 21 Workshops/Seminars/expert lectures etc. on research methodology, entrepreneurship and IPR's. more than 50 such events were organized during last five year. The faculty and students have published over 60 research article in highly reputed and indexed Journals. Contribution of faculty and students in research publication especially in Books/book is significant in 2019-2020 with 336 publications and over all 686 chapters in last five years. Extension and outreach programs remained active, with 34 conducted in 2023-2024 and over all more than 100 to sensitize the young minds. Institute has more than 25 Functional MoUs emphasizing strong external collaborations. The year wise details of all these activities is given below in the form of a barchat.



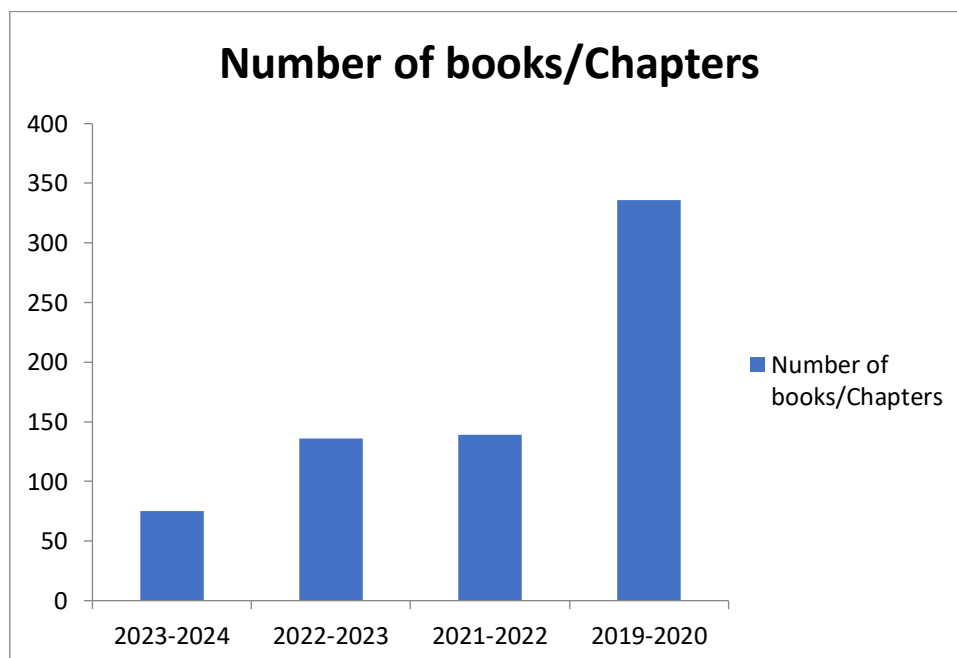
Number of Workshops/Seminars/Conferences organized (2019-2024)

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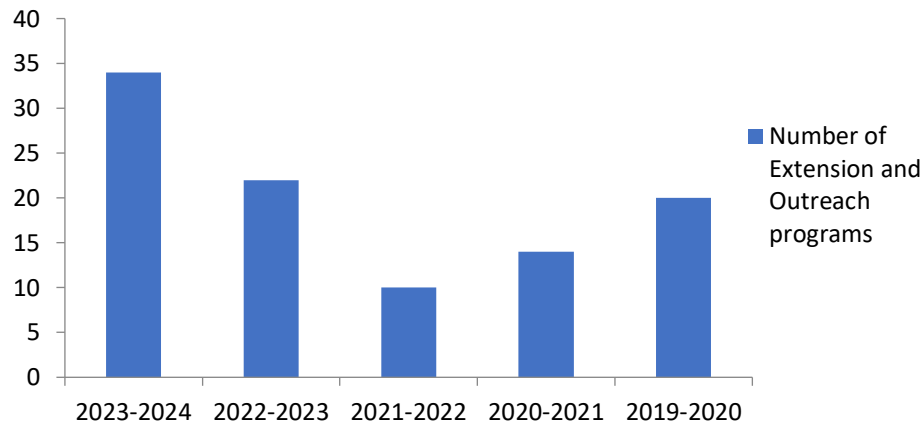


Number of Research Papers Published (2019-2024)



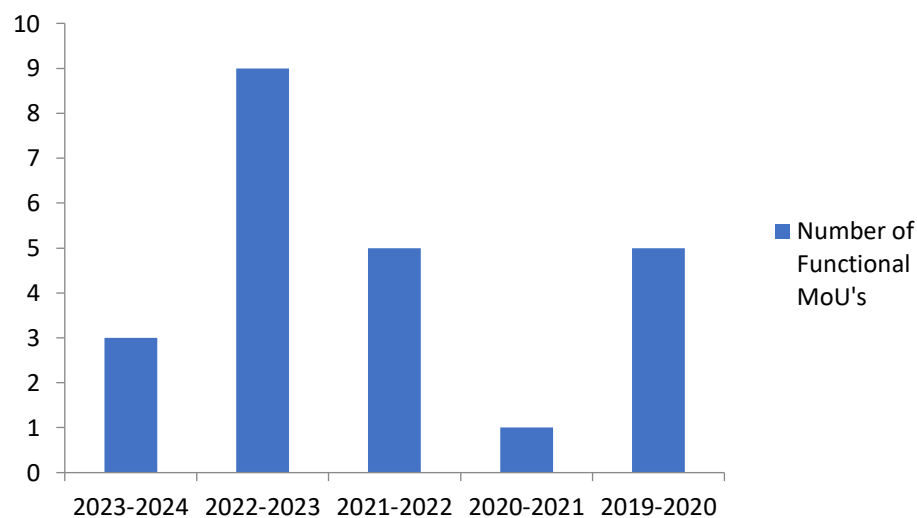
Number of book/chapters Published (2019-2024)

Number of Extension and Outreach Programs



Number of Extension and Outreach Programs (2019-2024)

Number of Functional MoU's



Number of Functional MoU's (2019-2024)


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Conclusion

In conclusion, our institute has made significant strides in creating an ecosystem that supports innovation and entrepreneurship. The approval of the National Innovation and Start-up Policy, the establishment of the Institute Innovation Council, the incorporation of the ITM Business and Incubator Foundation, the creation of the Makers Lab, and the proactive management of intellectual property rights are all testament to our commitment to fostering innovation. By providing financial and intellectual support, promoting interdisciplinary collaboration, and encouraging student-led projects, the institute is nurturing the next generation of innovators and entrepreneurs. This holistic approach not only enhances the institute's academic and research capabilities but also contributes to the broader goal of addressing societal challenges through innovation and entrepreneurship.




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