

Section 1: Policy And Institutionalization Of I&E Activities In HEIs (Academic Calendar Year 2020-21 & 2021-22)

1.1) Adoption Level of Innovation and Entrepreneurship (I&E) Policy in HEIs: Registration; Policy Formulation; Policy Implementation

Completion of Action Items (status as on 7th November 2022)	Status
Registered in the NISP portal for I&E Policy Adoption	Yes
Institute has Formulated an Innovation and Entrepreneurship (I&E) Policy	No
Institute has Action Plans for Implementation of the I&E Policy	No

Contact:

Faculty Name:	Dr. Bhushan R. Mahajan
Designation:	Associate Professor and Head (Innovation & Incubation Cell)
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Mobile No.	7498134148

1.2) Performance Level of Institution's Innovation Councils (IICs) Established in HEIs: Scores and Stars Obtained

Annual Performances of IIC Institute	Stars Secured
IIC 1.0 (2018-19)	
IIC 2.0 (2019-20)	2
IIC 3.0 (2020-21)	2
IIC 4.0 (2021-22)	3

Contact:

IIC President of the Institute:	Dr. N. V. Pradnyakar
Designation:	Off. Principal

Email ID:	namratapw07@gmail.com
Mobile No.	7775023857

1.3) Activeness of Trained Innovation Ambassadors in Driving Campus I&E Ecosystems in HEIs: Trained IA/HEI and Nos of Prescribed Activities undertaken by IA

Sr. No.	Name of the Faculty IA	Level of Training	No of I&E Expert Talks/Sessions Conducted
1	Dr. N. V. Pradnyakar	Basic	0
2	Jolly Nikhade	Advance	0
3	Dr. vaishanvi Dhok	Advance	0
4	Ms. Tinu Khandale	Basic	0
5	Mr. Gaurav Rangari	Basic	0
6	Mr. Dinesh Yelure	Basic	0
7	Dr. U. S. Dange	Basic	0
8	Imran Khan	Basic	0
9	Mr. M. M. Baig	Basic	0
10	Mr. Ashotosh V. Joshi	Basic	0

1.4) Participation in KAPILA/SIH Program

HEI Registered in the KAPILA Portal	C-18192	Yes
HEI Participated in the Smart India Hackathon (2022)	C-18192	Yes

Section 2: Teaching and Learning: Academic Programs related to Innovation and Entrepreneurship (I&E) Offered by the HEI

2.1) Academic Courses in Innovation, Entrepreneurship and IPR

Srno	Title of Course	Course Code	Academic Year	Type of Course	Level of Course	Course Offering Department/ Centre/ Unit Name	Total Credit Score	Cour Start Date
1	Intellectual Property Rights	EE7T003	2021-22	Core Course	Bachelor	Electrical Engg Department	1	07-01-2022 00:00
2	Intellectual Property Rights	CE7T002	2021-22	Core Course	Bachelor	Civil Engineering	1	07-01-2022 00:00
3	Intellectual Property Rights	ET7T006	2021-22	Core Course	Bachelor	Electronics and Telecommunication	1	07-01-2022 00:00
4	Intellectual Property Rights	ME7T004	2021-22	Core Course	Bachelor	Mechanical	1	07-01-2022 00:00
5	Innovation and entrepreneurship Development	ET4T007	2021-22	Core Course	Bachelor	Electronics and Telecommunication	1	28-01-2022 00:00
6	Innovation and entrepreneurship Development	EE4T007	2021-22	Core Course	Bachelor	Electrical	1	28-01-2022 00:00
7	Innovation and entrepreneurship Development	CE4T007	2021-22	Core Course	Bachelor	Civil Engineering	1	28-01-2022 00:00
8	Innovation and entrepreneurship Development	ME4T008	2021-22	Core Course	Bachelor	Mechanical	1	28-01-2022 00:00

2.2) Non-Academic Courses in Innovation, Entrepreneurship and IPR

Srno	Title of Course	Academic Year	Type of Certificate Program	Certificate Program/MDP/FDP/EDP Sponsored/Supported by	Certificate Program Offering Department/ Centre/ Unit Name	Program Start Date	Program End Date
No Data Found							

Section 3: Pre-Incubation and Incubation Infrastructure & Facilities are Currently in Operation to Promote I&E Agenda (AY 2020-21 & 2021-22)

3.1) Existence of Pre-Incubation Facility (Tinkering Lab/Makers' Space/Design Centre/New Gen IEDC/IEDC/EDC/Innovation Cell/Startup Cell) (>= 600 Sq. Ft. Floor Area)

Sr. No.	Type of the Unit	Name of Unit	In-charge Name	Contact no	Email	Govt. Schemes
No Data Found						

3.2) Existence of Incubation Facility (>= 1500 Sq. Ft. Floor Area)

Sr. No.	Name of Unit	In-charge Name	Contact no	Email	Govt. Schemes
No Data Found					

3.3) Existence of IPR Cell / Patent Facilitation Unit / Technology Transfer Centre at the institute

Sr. No.	Type of the Unit	Name of Unit	In-charge Name	Contact no	Email	Govt. Schemes
No Data Found						

Section 4: Generation and Support of Prototypes / Innovations at HEI and Recognition received (AY 2020-21 & 2021-22)

4) Total no. of Innovations (Verified and Recommended) in Different TRLs (4-9) are Recorded in the YUKTI National Innovation Repository of the IIC Institute (Status as on 7th November 2022)

Sr. No.	Innovation Name	Developed as part of	FY of Development (FY. 2020-21,2021-22)	TRL Stage	Team Lead/Innovator Name	Current Engagement of Team Lead in Institute	Contact No	Emai
No Data Found								

Section 5: Start-ups/Ventures Established and Supported at HEI and & Recognitions Received (AY 2020-21 & 2021-22)

5) Total no of Ventures/Startups (Verified and Recommended) are Recorded in the YUKTI National Innovation Repository of the IIC Institute (Status as on 7th November 2022)

Sr. No.	Startup/Venture Name	Startup/Venture Registered as	CIN No/LLP/OPC/RC No	GST No	FY of Establishment	Startup/Venture Recognized by DPIIT/Startup India
No Data Found						

Section 6: Collaboration with Other Incubation Units, HEIs and Industry Associations to Strengthen Better Services and Support to Innovation & Startups at HEI (AY 2020-21 & 2021-22)

6) Collaboration with Other Incubation Units, HEIs and Industry Associations to Strengthen Better Services and Support to Innovation & Startups at HEI (AY 2020-21 & 2021-22)

Sr. No.	Collaborated Agency Name	Collaborated Agency Type	Period of Collaboration (No. of Years)	Current Status of Collaboration	Date of MOU / Agreement Signed on	View
1	COJAG SMART TECHNOLOGY PRIVATE LTD.	Corporate/Industry Association	3	Active	22-07-2020	View (/Uplc
2	Cloud Counselage	Knowledge/Mentoring Agency	3	Active	30-06-2020	View (/Uplc
3	J.P. Electricals	Corporate/Industry Association	5	Inactive	01-11-2020	View (/Uplc
4	ICT Academy	Educational Institute	1	Inactive	18-08-2020	View (/Uplc

Section 7: Intellectually Property (IP) Generated and Commercialization

7.1) IPR Filed and Published (Copyrights & Design only)

Sr. No.	Title/Name of IP (Copyright/Design Only)	Type of IP	IP Registration Number of Copyright/Design	Date of Filed/Published	Has this IP(Copyright Designs Only) been Commercialized/Trans to Industry/Startup/Soci
1	DATABASE MANAGEMENT SYSTEM (DBMS)	Copy Right	L-95926/2020	20-10-2020	No
2	ANALYZING RANK OF A MATRIX USING BLOOMS TAXONOMY	Copy Right	L-95908/2020	19-10-2020	No
3	APPLICATION LAYER PROTOCOLS	Copy Right	L-116529/2022	30-06-2022	No

Sr. No.	Title/Name of IP (Copyright/Design Only)	Type of IP	IP Registration Number of Copyright/Design	Date of Filed/Published	Has this IP(Copyright Designs Only) been Commercialized/Transferred to Industry/Startup/Society
4	APPLICATION OF TRAPEZOIDAL RULE AND ITS MATLAB PREPROGRAMMING	Copy Right	L-98921/2021	25-01-2021	No
5	BIOSENSOR	Copy Right	L-99900/2021	01-03-2021	No
6	Nature in Anita Desai's "Fire on the Mountain": An Ecocritical Reading	Copy Right	13708/2022-CO	26-06-2022	No
7	FORMATION OF DEPLETION REGION IN PN JUNCTION DIODE	Copy Right	L-96045/2020	23-10-2020	No
8	GRAPH THEORY AND COMPUTING(INTRODUCTION)	Copy Right	L-97797/2020	16-12-2020	No
9	ROLE OF PHYSICS IN ENGINEERING	Copy Right	L-96429/2020	04-11-2020	No
10	VALUABLE INTEL OF NANO-MATERIAL	Copy Right	L-97571/2020	11-12-2020	No
11	water Treatment	Copy Right	55995	24-06-2022	No
12	A NEW CONTROL CONCEPT FOR THE REDUCTION OF THERMAL LOADING OF PV INVERTER	Copy Right	L-97650/2020	14-12-2020	No
13	IMPROVEMENT OF POWER SYSTEM SECURITY USING TCSC DEVICE	Copy Right	L-97086/2020	02-12-2020	No
14	TO ANALYZE TENSILE BONDING BEHAVIOR OF BAMBOO REINFORCEMENT IN CONCRETE BEAM	Copy Right	L-104538/202	17-06-2021	No
15	COMPARISON OF PHYSICAL AND MECHANICAL PROPERTIES OF BAMBOO SPECIES AS A STRUCTURAL ELEMENT	Copy Right	L-115739/202	21-05-2022	No

Sr. No.	Title/Name of IP (Copyright/Design Only)	Type of IP	IP Registration Number of Copyright/Design	Date of Filed/Published	Has this IP(Copyright Designs Only) been Commercialized/Transferred to Industry/Startup/Soci
16	CONCEPT OF SALES BUDGET AND SALES QUOTAS	Copy Right	L-103579/2021	21-05-2021	No
17	PERFORMANCE MANAGEMENT MODEL	Copy Right	L-90944/2020	30-04-2020	No
18	CAPITAL STRUCTURE AND VALUE OF FIRM: DIFFERENT APPROACHES	Copy Right	L-97589/2020	11-12-2020	No
19	WAGE DIFFERENTIALS	Copy Right	L-98801/2021	20-01-2021	No
20	EMERGING TRENDS IN EMPLOYEE TRAINING & DEVELOPMENT	Copy Right	L-99180/2021	09-02-2021	No

7.2) Patents Filed by HEI

Sr. No.	Title/Name of Patent	IP Registration Number	Date of Filed/Published
1	CORONA BANKNOTE MACHINE	202021017762	01-01-1900
2	SOLAR DISTILLATION APPARATUS	202011027921	01-01-1900
3	A novel cost effective smart solar tube	202031046710A	01-01-1900
4	Sensor based system for monitoring and measurement of Shoulder Biomechanics	202121000171	04-01-2021
5	Critical Condition Detection and urgent Ambulance help for COVID-19 Home Isolated Patient using IOT	202021043526	06-10-2020
6	IOT Based Labour Work Monitoring and Payment System for Farmer	202021043716	07-10-2020
7	Security Architecture for Healthcare Devices over Array of Independent Cloud	202021042194	29-09-2020
8	Generic Communication Architecture for Healthcare systems over distributed cloud	202021050108	18-11-2020
9	IN-PIPE CENTRALIZED CONSUMABLE WATER QUALITY ASSESMENT	202021047389	30-10-2020

Sr. No.	Title/Name of Patent	IP Registration Number	Date of Filed/Published
10	SMART SYSTEM FOR DETECTION OF BLACK FUNGUS AND WHITE FUNGUS DISEASE USING ARTIFICIAL INTELLIGENCE, INTERNET OF THINGS SENSORS AND DEEP LEARNING	2021104507	20-04-2022
11	GAMING APPRATUS NETWORK INFORMATION EXCHANGE PROTOCOL	202021048684	13-05-2022
12	CRICKET BALL ACTIVITY TRACKING MECHANISM	202021029504	31-07-2020

7.3) Patent Published / Granted Data

Sr. No.	Patent Registration Application No	Patent Title	Patent Application Date	Status of Patent Applications	Patent Published / Granted Calendar Year	Institute applied the Patent as	View
1	2021100524	A workstation for washing utensils	31-03-2021	Granted	2021	Other(Individual)	View
2	2021104507	SMART SYSTEM FOR DETECTION OF BLACK FUNGUS AND WHITE FUNGUS DISEASE USING ARTIFICIAL INTELLIGENCE, INTERNET OF THINGS SENSORS AND DEEP LEARNING	20-04-2022	Granted	2022	Other(Individual)	View
3	402175	SOLAR DISTILLATION APPARATUS	01-07-2020	Published	2020	Other(Individual)	View

7.4) IP Commercialized and Transferred to Industry/Startup

Sr. No.	Name of Technology Licenced/Transferred/Commercialized	Technology Type	Patent/Licence Holder name (Institute Co-ownership is Must)	Technology Transferred to	Name of Licensee	D T T
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No Data Found



Declaration

To,
The ARIIA Committee
MHRD's Innovation Cell
New Delhi

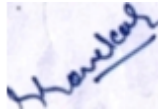
Joint Declaration by the Head of the Institute and Nodal Officer

Dear Sir,

Herewith, myself **Dr. Shrikant Sonekar** (Head of Institute) and **Dr. Ujwala Dange** (Nodal Officer) jointly declaring on behalf of our institute is that all the information submitted are true and correct to best of our knowledge.

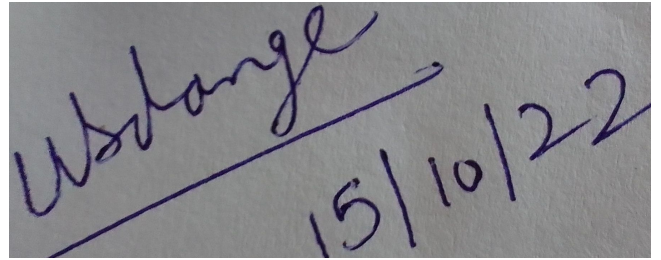
Thank you

The Head of Institute



Dr. Shrikant Sonekar,
Head of the Institution,
J D College of Engineering and Management,
Nagpur, Maharashtra

Nodal officer



Dr. Ujwala Dange,
Nodal Officer,
J D College of Engineering and Management,
Nagpur, Maharashtra