

OP Jindal University, Punjipathra [ARI-U-0832][U-0832]

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	Yes

Contact:

Faculty Name:	Dr Saket Jeswani
Designation:	Associate Professor

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)	0
IIC 3.0 (2020-21)	2
IIC 4.0 (2021-22)	3.5

Contact:

IIC President of the Institute:	Dr. R D Patidar
Designation:	Vice Chancellor

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. Trinath Talapaneni	Advance	1
2	Dr R. S. Singh	Advance	1
3	Dr Sandeep Biswal	Advance	1
4	Dr Sandeep Biswal	Advance	0
5	Dr. I.A. Qadri	Basic	0
6	Dr Vikas Kumar	Advance	1
7	Prof Uma Shankar Pandey	Basic	1
8	Dr Swapnasarit Kar	Advance	1
9	Mr Bhupendra Tripathi	Basic	1
10	Dr Himanshu Vaishnaw	Basic	1
11	Dr. Rekha Sharma	Advance	1
12	Dr Satish Kanhed	Advance	1
13	Dr Sanjay Singh	Advance	1
14	Dr Deepayan Priyadarshi	Basic	1

1.4) Participation in KAPILA/SIH Program

HEI Registered in the KAPILA Portal	U-0832	Yes
HEI Participated in the Smart India Hackathon (2022)	U-0832	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	Course Start Date
1	Entrepreneurship and Innovation	MGT- 302	2020-21	Core Course	Master	School of Management	4	15-02- 2021 00:00:00
2	Entrepreneurship and Innovation	MGT- 302	2021-22	Core Course	Master	School of Management	4	02-03- 2022 00:00:00
3	Entrepreneurship	MGT-B- 602	2021-22	Core Course	Bachelor	School of Management	4	02-03- 2022 00:00:00
4	Design Thinking	SOE-B- CE510	2021-22	Core Course	Bachelor	Department of Civil Engineering	2	24-08- 2021 00:00:00
5	Design Thinking	SOE-B- MME510	2021-22	Core Course	Bachelor	Department of Metallurgical Engineering	2	24-08- 2021 00:00:00
6	Disaster Management	SOE-B- CE305	2021-22	Core Course	Bachelor	Department of Civil Engineering	2	03-09- 2021 00:00:00
7	Principles of Management	SOE-B- ME610	2021-22	Core Course	Bachelor	Department of Mechanical Engineering	2	21-02- 2022 00:00:00
8	Principles and Practice of Management	MGT 101	2020-21	Core Course	Master	School of Management	4	24-08- 2020 00:00:00
9	Principles and Practice of Management	MGT 101	2021-22	Core Course	Master	School of Management	4	23-08- 2021 00:00:00

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
1	Mechatronics Automation and Robotics	2020-21	Faculty Development Program (FDP)	Industry/Non-Govt.	Department of Mechanical Engineering	03-08- 2020 00:00:00
2	CNC Machining Techniques	2020-21	Short-term Certificate Program	Self Sponsored/Supported	Department of Mechanical Engineering	10-05- 2021 00:00:00
3	Summer Training on ANSYS	2020-21	Short-term Certificate Program	Central Govt. Agency	Department of Mechanical Engineering	25-05- 2020 00:00:00
4	Basics of AUTOCAD 2D and 3D	2021-22	Short-term Certificate Program	Self Sponsored/Supported	Department of Mechanical Engineering	08-08- 2022 00:00:00
5	Basics of AUTOCAD	2021-22	Short-term Certificate Program	Self Sponsored/Supported	Department of Mechanical Engineering	12-07- 2021 00:00:00
6	ANSYS Hands on Workshop	2021-22	Short-term Certificate Program	Self Sponsored/Supported	Department of Mechanical Engineering	04-05- 2022 00:00:00
7	Robotic Welding Technology	2021-22	Short-term Certificate Program	Industry/Non-Govt.	Department of Mechanical Engineering	05-04- 2022 00:00:00
8	Advanced Welding Technology	2021-22	Short-term Certificate Program	Industry/Non-Govt.	Department of Mechanical Engineering	06-12- 2021 00:00:00

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
9	ANSYS Mechanical and CFD	2021-22	Faculty Development Program (FDP)	Industry/Non-Govt.	Department of Mechanical Engineering	22-11- 2021 00:00:00
10	Metal Joining Technology	2021-22	Short-term Certificate Program	Self Sponsored/Supported	Department of Mechanical Engineering	16-05- 2022 00:00:00
11	Summer internship on Advanced Welding Technology	2021-22	Short-term Certificate Program	Self Sponsored/Supported	Department of Mechanical Engineering	06-06- 2022 00:00:00
12	Energy management in Power Plants	2021-22	Faculty Development Program (FDP)	Self Sponsored/Supported	Department of Mechanical Engineering	05-09- 2022 00:00:00
13	FDP ON EMERGING TRENDS IN POWER ELECTRONICS AND POWER SYSTEM	2020-21	Faculty Development Program (FDP)	Self Sponsored/Supported	Department of Electrical Engineering	24-08- 2020 00:00:00
14	FDP ON POWER ELECTRONICS APPLICATIONS ON ELECTRIC VEHICLE	2021-22	Faculty Development Program (FDP)	Self Sponsored/Supported	Department of Electrical Engineering	27-06- 2022 00:00:00
15	RESEARCH SEMINAR SERIES	2021-22	Short-term Certificate Program	Self Sponsored/Supported	Department of Electrical Engineering	08-04- 2021 00:00:00
16	Recent Advances in Process Metallurgy	2020-21	Faculty Development Program (FDP)	Self Sponsored/Supported	Department of Metallurgical Engineering	13-07- 2020 00:00:00

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
17	Introduction to STAAD Pro	2021-22	Short-term Certificate Program	Self Sponsored/Supported	Department of Civil Engineering	02-06- 2021 00:00:00
18	Data Analysis Project cases	2021-22	Short-term Certificate Program	Industry/Non-Govt.	Department of Computer Science Engineering	15-03- 2022 00:00:00
19	Workshop on Python with Data Science	2021-22	Short-term Certificate Program	Industry/Non-Govt.	Department of Computer Science Engineering	13-12- 2021 00:00:00

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	Govt. Schemes
1	Innovation Cell	OPJU innovation center	Deepayan Priyadarshi	Mentoring Support,Pre-Incubation Facility Support (Idea to Prototype and Innovative Business Plan Development)

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

Sr. No.	Name of Unit	In-charge Name	Govt. Schemes
1	OPJU Innovation Center	Deepayan Priyadarshi	CSR/Private,Own Resource

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	Govt. Schemes
1	IPR Cell	OPJU Innovation Center	Dr Satish Kanhed	Mentoring Support,Seed Grant Support,Pre-Incubation Facility Support (Idea to Prototype and Innovative Business Plan Development),Incubation Facility Support (Innovative Business Model to Startup and Market Linkage & Eamp; Growth Stage)

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 Engagemen of Team Lead in Institute
1	Drone (Multipurpose)	Independent Assignment/Non- academic Study Project	2021-22	TRL 4: Small scale prototype built in a laboratory environment ("ugly" prototype)	Somesh Chandra	Student
2	Smart Web App for Enhancing Tourism and related Revenue in Chhattisgarh	Independent Assignment/Non- academic Study Project	2021-22	TRL 4: Small scale prototype built in a laboratory environment ("ugly" prototype)	Dr. Nitesh K Bharadwaj	Faculty

Sr. No.	Innovation Name	Developed as part of	FY of Development (FY. 2020- 21,2021-22)	TRL Stage	Team Lead/Innovator Name	Current Engagemen of Team Lead in Institute
3	Ticketless Entry System To Monuments Using Barcode Technology	Academic Research Assignment/Industry Sponsored Project	2021-22	TRL 6: Prototype system tested in intended environment close to expected performance	abhishek agrawal	Student
4	Sonic Solaric- Transportation is transforming and so we are	Academic Research Assignment/Industry Sponsored Project	2021-22	TRL 6: Prototype system tested in intended environment close to expected performance	Dharmender Singh Saini	Faculty

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.	Startup/Venture	Startup/Venture	CIN No/LLP/OPC/RC No
No.	Name	Registered as	
1	Mitti Agrotech organics pvt ltd	Private Limited Firm (Pvt. Ltd.)	View Document (https://api.mic.gov.in//uploads/institutes/innovationcontesl Innovation7861862.pdf)

Sr. No.	Startup/Venture Name	Startup/Venture Registered as	CIN No/LLP/OPC/RC No
2	Arthashastra Intelligence Databases Private Limited	Private Limited Firm (Pvt. Ltd.)	U72900TG2019PTC135283 View Document (https://api.mic.gov.in//uploads/institutes/innovationcontesl Innovation9311513.jpg)
3	Chalbo India Private Limited	Private Limited Firm (Pvt. Ltd.)	View Document (https://api.mic.gov.in//uploads/institutes/innovationcontest Place1112201.jpg)

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
1	TATA Counsultancy Services Ltd.	Corporate/Industry Association	0003	Active	11-02-2021
2	NALWA STEEL AND POWER LIMITED, RAIGARH (C.G.)	Corporate/Industry Association	0005	Active	28-10-2021
3	JINDAL POWER LIMITED, TAMNAR, RAIGARH (C.G.)	Corporate/Industry Association	0005	Active	28-10-2021

Sr. No.	Collaborated Agency Name	Collaborated Agency Type	Period of Collaboration (No. of Years)	Current Status of Collaboration	Date of MOU / Agreement Signed on
4	Jindal Steel and Power Limited (JSPL), Raigarh	Corporate/Industry Association	0005	Active	10-11-2021
5	CSIR-NATIONAL METALLURGICAL LABORATORY, JAMSHEDPUR	Govt. Agency (Central)	0002	Active	07-02-2022
6	CSIR- Advance Material And Processes Research Institute (AMPRI)	Govt. Agency (Central)	0005	Active	25-04-2022
7	GHANA INSTITUTE OF MANAGEMENT AN D PUBLIC ADMINISTRATION (GIMPA)	Educational Institute	0005	Active	04-04-2022
8	Amicus Technology, Raipur	Corporate/Industry Association	0003	Active	17-02-2022
9	The Indian Institute of Welding, Kolkata	Corporate/Industry Association	0005	Active	05-02-2021
10	Association of Welding Products Manufacturer (AWPM), Fort, Mumbai	Corporate/Industry Association	0005	Active	29-07-2021
11	CSIR-Institute of Minerals and Materials Technology, Bhubaneswar, Odisha	Educational Institute	0005	Active	07-12-2021
12	Government Polytechnic, Sonepur	Educational Institute	0001	Active	01-09-2021
13	Government Polytechnic, Gariyaband	Educational Institute	0001	Active	05-10-2021
14	Government Polytechnic, Balangir	Educational Institute	0005	Active	04-10-2021
15	FROYO TECHNOLOGIES PRIVATE LIMITED	Corporate/Industry Association	0005	Active	06-09-2021

Sr. No.	Collaborated Agency Name	Collaborated Agency Type	Period of Collaboration (No. of Years)	Current Status of Collaboration	Date of MOU / Agreement Signed on
16	NATIONAL INSTITUTE OF DISASTER MANAGEMENT, NEW DELHI	Govt. Agency (Central)	0005	Active	22-03-2021
17	FICE EDUCATION PRIVATE LIMITED [Intel approved partner, India	Educational Institute	0005	Active	16-03-2021
18	B.INCUBE INCUBATION CENTER, BILASPUR	Incubation Unit	02	Active	14-10-2022
19	Jose Maria College Foundation, Inc, Phillipiens	Educational Institute	0003	Active	26-08-2022
20	RESEARCH FOR RESURGENCE FOUNDATION, NAGPUR	Educational Institute	0005	Active	28-09-2021
21	SHRI SHRI UNIVERSITY	Educational Institute	0005	Active	29-10-2021
22	Sohare University, Sultanate of Oman	Educational Institute	0005	Active	27-12-2021
23	Bimal Refactories Pvt. Ltd., Saraipali, Raigarh	Corporate/Industry Association	0005	Active	03-09-2020
24	CHANGWON NATIONAL UNIVERSITY, KOREA	Educational Institute	0005	Active	13-10-2021
25	JAYASWAL NECO INDUSTRIES LIMITED, SILTARA, RAIPUR	Corporate/Industry Association	0005	Active	01-04-2022

Section 7: Intellectually Property (IP) Generated and Commercialization

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

	Title/Name of IP		IP Registration		Has this IP(Copyright & Designs Only) been
Sr. No.	(Copyright/Design Only)	Type of IP	Number of Copyright/Design	Date of Filed/Published	Commercialized/Transferred to Industry/Startup/Society?
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No Data Found

7.2) Patents Filed by HEI

Sr.	Title/Name of Patent	IP Registration	Date of
No.		Number	Filed/Published
1	MICROWAVE ASSISTED STEEL MAKER AND CONVERTER (MASMAC)	202021047105	28-10-2020

7.3 & 7.4) 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
1	2021106705	A SYNTHESIS PROCESS OF DOWN- CONVERSION Ba3NaLa(PO4)3F PHOSPHOR FOR ENHANCEMENT IN SOLAR CELL EFFICIENCY	24-08-2021	Granted	2021	Co- Applicant
2	2021101683	A process for fabricating aluminum, boron carbide-based aluminum matrix composites using powder metallurgy route	01-04-2021	Granted	2021	Applicant
3	2021107426	A NOVEL ACOUSTIC FLUIDIZED BED DEVICE FOR HEAT TRANSFER APPLICATION	25-08-2021	Published	2021	Applicant

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
4	202141041225	DEVELOPMENT OF BIG DATA ANALYTICS FOR INTELLIGENT INDUSTRIAL MANUFACTURING BASED ON WIRELESS AND IOT TECHNOLOGY	14-09-2021	Published	2021	Co- Applicant
5	201921036338	STEAM GENERATION DEVICE FOR STEAM TURBINE	09-10-2019	Granted	2021	
6	350918	PROCESS FOR SYNTHESIS OF Ce3+, Eu2+ CO-DOPED BaSiF6 PHOSPHOR	09-04-2019	Granted	2020	
7	201921049003	Welding with the help of Microwave Application	29-11-2019	Published	2020	
8	201921049004	Device for Effective Generation and Utilization of Steam (DEGUS) for Steam Turbine	29-11-2019	Published	2020	
9	201921049005	Use of solar energy in sintering and hence welding of metal/ceramic powders	29-11-2019	Published	2020	

7.5) 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

