nirf-Innovation
National Institutional Ranking Framework for Innovation
Ministry of Education, Government of India

Army Institute of Technology [ARI-C-42054][C-42054]

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	Yes
Institute has Action Plans for Implementation of the I&E Policy	Yes

Contact:

Faculty Name:	Dr. Shraddha Dinesh Oza
Designation:	Asst. Prof

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)	1,2,3,4
IIC 2.0 (2019-20)	4
IIC 3.0 (2020-21)	4
IIC 4.0 (2021-22)	3.5

Contact:

IIC President of the Institute:	Dr Sangeeta Jadhav
Designation:	Professor and HOD IT

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. Sangeeta Jadhav	Advance	0
2	Dr SeemaTiwari	Advance	1
3	Sanjay Gaikwad	Advance	0
4	geeta patil	Advance	1

1.4) Participation in KAPILA/SIH Program

HEI Registered in the KAPILA Portal	C-42054	Yes
HEI Participated in the Smart India Hackathon (2022)	C-42054	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	Course End Date
1	Project Based Learning	110013	2020-21	Core Course	Bachelor	Applied Science and General Engineering	2	17-05-2021 00:00:00	30-202 00:
2	Project Based Learning	110013	2021-22	Core Course	Bachelor	Applied Science and General Engineering	2	13-12-2021 00:00:00	06-202 00:

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	Cou End Dal
3	Project Based Learning	214458	2020-21	Core Course	Bachelor	Information Technology	2	01-01-2021 00:00:00	15-202 00:
4	Project Based Learning	214458	2021-22	Core Course	Bachelor	Information Technology	2	03-01-2022 00:00:00	01-202 00:
5	Employability Skill Development	204199	2020-21	Core Course	Bachelor	Electronics and Tele Communication	3	01-01-2021 00:00:00	15-202 00:
6	Project Based Learning	204200	2020-21	Core Course	Bachelor	Electronics and Tele Communication	2	01-01-2021 00:00:00	15-202 00:
7	Employability Skill Development	204199	2021-22	Core Course	Bachelor	Electronics and Tele Communication	3	03-01-2022 00:00:00	15-202 00:
8	Project Based Learning	204200	2021-22	Core Course	Bachelor	Electronics and Tele Communication	2	03-01-2022 00:00:00	01-202 00:
9	Skill Development	304190	2021-22	Core Course	Bachelor	Electronics and Tele Communication	1	01-07-2021 00:00:00	30-202 00:
10	Project Based Learning II	210258	2020-21	Core Course	Bachelor	Computer Engineering	2	01-01-2021 00:00:00	15-202 00:
11	Project Based Learning II	210258	2021-22	Core Course	Bachelor	Computer Engineering	2	03-01-2022 00:00:00	01-202 00:
12	Project Based Learning II	202052	2020-21	Core Course	Bachelor	Mechanical Engineering	2	01-01-2021 00:00:00	15-202 00:
13	Project Based Learning II	202052	2021-22	Core Course	Bachelor	Mechanical Engineering	2	03-01-2022 00:00:00	01-202 00:

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	Cou End Dat
14	Skill Development	302047	2021-22	Core Course	Bachelor	Mechanical Engineering	1	01-07-2021 00:00:00	30-202 00:(
15	Project Based Seminar	314458	2020-21	Core Course	Bachelor	Information Technology	1	01-01-2021 00:00:00	15-202 00:(
16	Project Phase-I	414460	2020-21	Core Course	Bachelor	Information Technology	2	15-06-2020 00:00:00	05-202 00:(
17	Project Work	414468	2020-21	Core Course	Bachelor	Information Technology	6	01-01-2021 00:00:00	15-202 00:(
18	Project Phase-I	414460	2021-22	Core Course	Bachelor	Information Technology	2	01-07-2021 00:00:00	30-202 00:(
19	Project Work	414468	2021-22	Core Course	Bachelor	Information Technology	6	17-01-2022 00:00:00	30-202 00:(
20	Project Work Stage I	410248	2020-21	Core Course	Bachelor	Computer Engineering	2	15-06-2020 00:00:00	05-202 00:(
21	Project Work Stage-II	410256	2020-21	Core Course	Bachelor	Computer Engineering	6	01-01-2021 00:00:00	15-202 00:(
22	Project Work Stage I	410248	2021-22	Core Course	Bachelor	Computer Engineering	2	01-06-2021 00:00:00	30-202 00:(
23	Project Work Stage II	410256	2021-22	Core Course	Bachelor	Computer Engineering	6	17-01-2022 00:00:00	30-202 00:(
24	Employability Skills and Mini Projects	304196	2020-21	Core Course	Bachelor	Electronics and Tele Communication	1	01-01-2021 00:00:00	15-202 00:(

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	Cou End Dal
25	Project Stage I	404188	2020-21	Core Course	Bachelor	Electronics and Tele Communication	2	15-06-2020 00:00:00	05-202 00:0
26	Project Stage II	404195	2020-21	Core Course	Bachelor	Electronics and Tele Communication	6	01-01-2021 00:00:00	15-202 00:0
27	Project-I	402046	2020-21	Core Course	Bachelor	Mechanical Engineering	2	15-06-2020 00:00:00	05-202 00:0
28	Project-II	402051	2020-21	Core Course	Bachelor	Mechanical Engineering	6	01-01-2021 00:00:00	15-202 00:0
29	Project-I	402046	2021-22	Core Course	Bachelor	Mechanical Engineering	2	01-07-2021 00:00:00	30-202 00:0
30	Project-II	402051	2021-22	Core Course	Bachelor	Mechanical Engineering	6	17-01-2022 00:00:00	30-202 00:0
31	Skill Development	302046	2020-21	Core Course	Bachelor	Mechanical Engineering	1	15-06-2020 00:00:00	05-202 00:0
32	Project Stage-I	404188	2021-22	Core Course	Bachelor	Electronics and Tele Communication	2	01-07-2021 00:00:00	30-202 00:0
33	Project Stage II	404195	2021-22	Core Course	Bachelor	Electronics and Tele Communication	6	17-01-2022 00:00:00	30-202 00:0

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	Prog Start Date
1	Entrepreneurship Development Program	2020-21	Entrepreneurship Development Program (EDP)	Self Sponsored/Supported	Army Institute of Technology	26-09 2020 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	Start-Up Cell	Innovation and Entrepreneurship Cell	Dr Shraddha Oza	Mentoring Support,Seed Grant 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			

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	IPR Cell	Dr Seema Tiwari	Mentoring Support,Seed Grant Support,Pre-Incubation Facility Support (Idea to Prototype and Innovative Business Plan Development)

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	
1	A simplified app for assessment of reading and writing difficulties in persons with Specific Learning Disabilities.	Academic Requirement/Study Project	2021-22	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)	Shekhar Kumar Singh	Student	
2	Gaming Apps, etc. for the elderly	Academic Requirement/Study Project	2021-22	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)	Manas Yadav	Student	

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
1	R S Deep Infolab	Private Limited Firm (Pvt. Ltd.)	U72900DL2021PTC381787 **View Document (https://api.mic.gov.in//uploads/institutes/innovationcontest Innovation4202287.PDF)**
2	Electrun Motors	Private Limited Firm (Pvt. Ltd.)	U34300PN2022PTC207786 **View Document (https://api.mic.gov.in//uploads/institutes/innovationcontest**
3	Xefficient	Private Limited Firm (Pvt. Ltd.)	U29308PN2021PTC198902 **View Document (https://api.mic.gov.in//uploads/institutes/innovationcontest**
4	maps4success (myAImate)	Limited Liability Partnership Firm (LLP)	AAU-5059 **View Document (https://api.mic.gov.in//uploads/institutes/innovationcontest**

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	Smt. Asha Suhas Gogate	Angel/VC Firm	2	Active	12-03-2021
2	FortyTwo Technology Innovations Pvt Ltd	Corporate/Industry Association	3	Active	26-11-2021
3	COEP's Bhau Institute of Innovation Entrepreneurship and Leadership	Incubation Unit	3	Active	12-08-2020
4	CopperCloud IOTech Pvt Ltd	Corporate/Industry Association	3	Active	01-04-2021
5	Lemon School of Entrepreneurship (lemon Ideas)	Corporate/Industry Association	1	Inactive	20-12-2021
6	M/s Medyug Technology Pvt. Ltd.	Corporate/Industry Association	2	Active	29-07-2021
7	TalentSprint	Corporate/Industry Association	5	Active	15-07-2020
8	MACFOS PVT. LTD.	Corporate/Industry Association	2	Active	17-03-2021
9	Lemon School of Entrepreneurship (lemon Ideas)	Corporate/Industry Association	1	Inactive	24-09-2020
10	FortyTwo Technology Innovations Pvt Ltd	Corporate/Industry Association	3	Active	16-06-2021
11	Credit Suisse	Corporate/Industry Association	3	Active	16-01-2020
12	Dr Anuraag Mohan	Knowledge/Mentoring Agency	1	Active	01-12-2021

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/Transferred to Industry/Startup/Society?
No Data Found					

7.2) Patents Filed by HEI

Sr. No.	Title/Name of Patent	IP Registration Number	Date of Filed/Published
1	VERTICAL AXIS WIND TURBINE	202021046978	27-10-2020

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	202121040037	Intelligent Process and method for separating salts in seawater (Green Chemistry)	03-09-2021	Published	2021	Other(Individual)
2	AU 2020102665 A4	AMTH- Biomedical Waste Management: Automatic Method and Technologies for Bio medical Waste Management Including Ayurveda Hospitals Using loT-Based System 10-10-2020 Granted 2020 Other(Individual)	10-10-2020	Granted	2020	Other(Individual)

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
3	2020102246	Process For Preparation Of Magnetite Loaded Sulfur Oil (MLSO) Composite Adsorbent	14-09-2020	Granted	2020	Other(Individual)
4	202121003012	SPEX FOR BLIND PEOPLE: DETECT THE OBJECT SPEED AFTER THAT TAKE A DECISION USING DEEP LEARNING PROGRAMMING.	22-01-2021	Published	2021	Other(Individual)
5	202121044062	BITCOIN PRICE PREDICTION USING MACHINE LEARNING	29-09-2021	Published	2021	Other(Individual)
6	202141048156	Non-intrusive personalized smart home automation using big data	22-10-2021	Published	2021	Other(Individual)
7	202121048705	Agriculture Water Level Controlling and Notification using AI and IoT-Based Technology	25-10-2021	Published	2021	Other(Individual)
8	202111019244	System For Secure Logging For Cloud Forensics Using Block Chain 27-04-2021 Published 2021 Applicant	27-04-2021	Published	2021	Applicant

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
No Data Found						