



RAJA BALWANT SINGH ENGINEERING TECHNICAL CAMPUS, AGRA [ARI-C-46018] C-46018]

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 31st October 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. Vivek Kumar Srivastava
Designation:	Professor & Head, Biotechnology
Email ID:	vivekrbscollege@yahoo.com
Mobile No.	9411925287



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)	1
IIC 3.0 (2020-21)	4
IIC 4.0 (2021-22)	0 (On Progress)

Contact:

IIC President of the Institute:	Prof. (Dr.) B. S. Kushwah
Designation:	Director
Email ID:	tu04@rediffmail.com
Mobile No.	7251233353



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	Prof. (Dr.) Vivek Kumar Srivastava	Advance	2
2	ASHISH KHARE	Advance	0
3	Dr. Sanjay Gupta	Advance	0
4	Dr. Devbrat Pundhir	Advance	0
5	Dr. Monika Singh	Advance	0
6	Dr. Ashish Shukla	Basic	0
7	Dr. Amit Agarwal	Basic	0
8	Dr. Lavkush Sharma	Basic	0
9	Dr. Namrata Gupta	Basic	1
10	Er. Atul Jain	Advance	0
11	Dr. Ashok Kumar	Basic	4
12	Mr. Amit Yadav	Basic	0
13	Dr. Tripanshu Gupta	Basic	0
14	Ashish kabra	Basic	0
15	Dhananjali Singh	Advance	0

Sr. No.	Name of the Faculty IA	Level of Training	No of I&E Expert Talks/Sessions Conducted
16	Dr Saloni Srivastava	Basic	0
17	Arun Singh	Advance	0
18	VENKATESWARA RAO BELLA	Basic	0
19	Shubham Chauhan	Advance	0
20	Er. Jay Kumar	Basic	0

1.4) Participation in KAPILA/SIH Program

HEI Registered in the KAPILA Portal	C-46018	Yes
HEI Participated in the Smart India Hackathon (2022)	C-46018	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	Co En Da
1	Entrepreneurship IPR and Biosafety	MTBT 202	2020-21	Core Course	Master	Biotechnology	3	01-01-2021 00:00:00	30-20:00:
2	Entrepreneurship IPR and Biosafety	MTBT 202	2021-22	Core Course	Master	Biotechnology	3	01-01-2022 00:00:00	01-20:00:
3	Entrepreneurship Development	ROE 082	2020-21	Elective Course	Bachelor	Applied Sciences and Humanities	3	01-01-2021 00:00:00	30-20:00:

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	T D o C (i
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
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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 Ideas / 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 31st October 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	Computer Vision Control Robotic Arm	Independent Assignment/Non-academic Study Project	2021-22	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)	vineet solanki	Student
2	Smart Agriculture Using LoRaWAN Technology	Independent Assignment/Non-academic Study Project	2021-22	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)	Vivek Verma	Student
3	Design and fabrication of thermoelectric Peltier Shoes	Academic Requirement/Study Project	2021-22	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)	Abhishek Tainguriya	Student

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
4	Energy producing roads	Academic Requirement/Study Project	2021-22	TRL 9 : Full commercial application, technology available for consumers	Yash tetriya	Student
5	A wearable System to safeguard a person	Academic Requirement/Study Project	2021-22	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)	Sanchit Agrawal	Student
6	Production Of Bricks From Waste Plastic	Academic Requirement/Study Project	2021-22	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)	AMAN CHAUHAN	Student
7	Immunity Booster Herbal Gummies Of Aloe Vera and Tulsi	Academic Requirement/Study Project	2021-22	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)	Harsh Srivastava	Student
8	Saarthi	Academic Requirement/Study Project	2021-22	TRL 7 : Demonstration system operating in operational environment at pre-commercial scale	Abhinav Kumar Jha	Student

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
9	To Design cost effective Brick by using Black cotton Soil	Academic Requirement/Study Project	2021-22	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)	Manish Sharma	Student
10	Studies on the development of fruit and vegetable industrial waste	Academic Requirement/Study Project	2021-22	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)	Shivam garg	Student
11	Face mask detection using python	Academic Requirement/Study Project	2021-22	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)	Kushagra Goyal	Student
12	PREPARATION AND STANDARDIZE HERBAL ANTI-FUNGAL GEL	Academic Requirement/Study Project	2021-22	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)	Aditi	Student
13	self cleaning road highways by using water conservation principle and laying down solar panels.	Academic Requirement/Study Project	2021-22	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)	Jai Krishan Singh	Student

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
14	Process Parameter Optimization & Production of Nanobioplastic using Agricultural Waste	Academic Requirement/Study Project	2021-22	TRL 7 : Demonstration system operating in operational environment at pre-commercial scale	Easha Bahal	Student
15	Formulation and Evaluation of Polyherbal Powder Formulation for Cold and Cough	Independent Assignment/Non-academic Study Project	2021-22	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)	SAHAS RATAN	Alumni
16	Formulation and evaluation of Flax herbal suppositories	Academic Requirement/Study Project	2021-22	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)	Siddharth Singh	Student
17	Formulation of antimicrobial paste from leaves of Murraya koenigii	Academic Requirement/Study Project	2021-22	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)	ATUL KANE	Student
18	Catalytic oxidation of soot emitted from diesel engines	Academic Requirement/Study Project	2021-22	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)	SAURABH SHARMA	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 31st October 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	FY St Re Su fr In un In:
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	Chromospec Solutions, Chromoatography & Spectroscopy Solutions, Delhi	Corporate/Industry Association	Five	Active	31-12-2020	
2	NinePages Techsolutions Private Limited, Agra	Corporate/Industry Association	Five	Active	15-09-2021	

Sr. No.	Collaborated Agency Name	Collaborated Agency Type	Period of Collaboration (No. of Years)	Current Status of Collaboration	Date of MOU / Agreement Signed on	View
3	Trafo Power & Electricals Private Limited, Agra	Corporate/Industry Association	Onee	Active	23-09-2021	
4	Micro, small, medium Enterprises Technology Development Centre, Agra	Govt. Agency (Central)	Thre	Active	24-09-2021	
5	WaterFirst Engineering Consultancy Private limited	Corporate/Industry Association	Five	Active	15-10-2021	
6	National Small Industries Corportaion Limited, Aligarh	Govt. Agency (Central)	Onee	Active	21-10-2021	

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
No Data Found			

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	358080-001	Sanitizing Dustbin	08-02-2022	Published	2022	Other(Individual)	View
2	2021106378	Method for preparation of polymer coated famotidine tablet	21-08-2021	Published	2021	Other(Individual)	View
3	2021105696	INTERNET OF THINGS SENSOR NETWORK BASED INTELLIGENT SYSTEM FOR MONITORING & SECURING SMART ENVIRONMENT FROM UNAUTHORIZED OBJECTS	17-08-2021	Published	2021	Other(Individual)	View
4	2021103071	Development of Drug design by investigation of Drug side effects based on their chemical structure	03-06-2021	Published	2021	Other(Individual)	View
5	202141035745 A	Method for prepration of polymer coated famotidine tablet	07-08-2021	Published	2021	Other(Individual)	View
6	202211017864 A	A Method for determining lethal dose (LD50)	28-03-2022	Published	2022	Other(Individual)	View

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
7	202111024622A	FLAX SEED SUPPOSITORY FOR RAPID DRUG DELIVER	02-06-2021	Published	2021	Other(Individual)	View
8	202111043569A	EXTRACT OF CURCULIGO ORCHIOIDS GAERTN. ROOT HAVING ANTI OBESITY ACTIVITY	15-09-2021	Published	2021	Other(Individual)	View
9	202111039916A	HERBAL CAPSULES FOR PREVENTION AND TREATMENT OF HEMORRHOIDS	03-09-2021	Published	2021	Other(Individual)	View
10	202011057288 A	SANITIZER COMPOSITION OF MADHUCA LONGIFOLIA	30-12-2020	Published	2021	Other(Individual)	View
11	202111021770 A	AGE DEFYING SKIN REJUVENATING COSMETIC FORMULATION	14-05-2021	Published	2021	Other(Individual)	View
12	202211034062A	ANTI OBESITY ACTIVITY OF EXTRACT OF CURCULIGO ORCHIOES GAERTN. ROOT IN PROGESTERONE INDUCED OBESITY IN RATS	14-06-2022	Published	2022	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	Date of Transfer
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No Data Found



Declaration

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

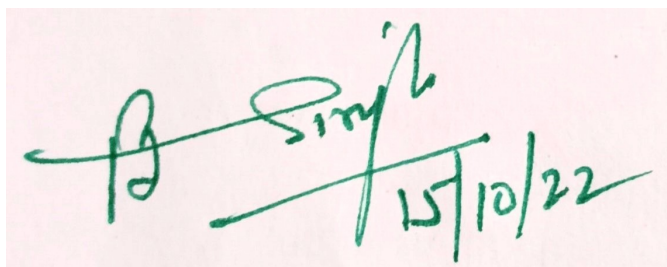
Joint Declaration by the Head of the Institute and Nodal Officer

Dear Sir,

Herewith, myself **Dr. B. S. Kushwah** (Head of Institute) and **Dr. Pankaj Gupta** (Nodal Officer) jointly declaring on behalf of our institute is that all the information submitted are true and correct to best of our knowledge.

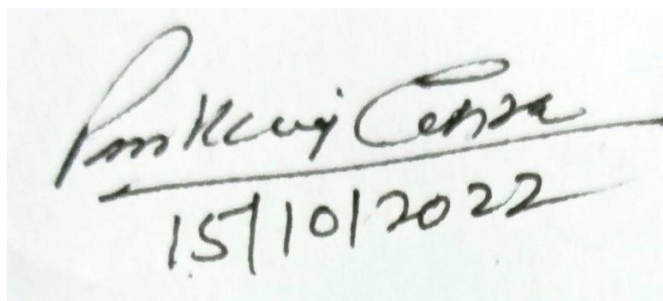
Thank you

The Head of Institute



Dr. B. S. Kushwah,
Head of the Institution,
RAJA BALWANT SINGH ENGINEERING TECHNICAL
CAMPUS, AGRA,
Agra, Uttar Pradesh

Nodal officer



Dr. Pankaj Gupta,
Nodal Officer,
RAJA BALWANT SINGH ENGINEERING TECHNICAL
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