



MHRD
Ministry of Human
Resource Development
Government of India



MoE's
INNOVATION CELL
(GOVERNMENT OF INDIA)



Government of Rajasthan



Government of Rajasthan, Jaipur

Department of College Education



Govt. Shakambhar PG College Sambhar Lake Jaipur (Rajasthan)

(NAAC Accredited with "B+" Grade)



Established

Institution's Innovation Council

As per the norms of Innovation Cell, Ministry of Education, Govt. of India

Guideline Document

(IIC Calendar
year 2020- 21)

(In-line with National Innovation
and Start-up Policy, 2019)



**INSTITUTION'S
INNOVATION
COUNCIL**

(Ministry of Education Initiative)

<https://mic.gov.in>

Govt. Shakambhar P.G. College
Sambhar Lake, Jaipur (Rajasthan)

<https://hte.rajasthan.gov.in>

Implementation team of Institutions Innovation Council:

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	<i>Arunachal Pradesh</i>	
	<i>Assam</i>	
	<i>Jharkhand</i>	
	<i>Manipur</i>	
	<i>Meghalaya</i>	
	<i>Mizoram</i>	
	<i>Nagaland</i>	
	<i>Odisha/Orissa</i>	
	<i>Sikkim</i>	
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	<i>Haryana</i>	
	<i>Himachal Pradesh</i>	
	<i>Jammu and Kashmir</i>	
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<i>South-West/SWRO</i>	<i>Karnataka</i>	
	<i>Kerala</i>	
<i>Western/WRO</i>	<i>Dadra and Nagar Haveli</i>	
	<i>Daman and Diu</i>	
	<i>Goa</i>	
	<i>Maharashtra</i>	

Expect a restructured policy for startups in colleges, varsities soon

Sandip Digha@timesgroup.com

Pune: Chief Innovation officer Abbey Jere of the ministry of human resource development (MHRD) said here on Friday that a restructured policy to promote startups at colleges and universities across the country would be released next month.

Issues pertaining to intellectual property (IP) rights, revenue share and other aspects have been addressed effectively in the new policy, Jere told TOI on the sidelines of a regional mentoring session for 'Proof of Concept for Innovative Ideas' at the Army Institute of Technology (AIT) in Dighi.

"The ministry has formed the Jhunjhunwala committee to study various facets related to start-ups and reframe the new policy. Earlier, there was no uniformity in the share of equity by start-ups for colleges. We found that some colleges were charging 60% to 40% revenue from start-ups. If a group develops an IP, the college would take its ownership.



Chief innovation officer Abbey Jere (centre) says the issues pertaining to intellectual property rights and revenue share are addressed effectively in the new policy.

To change this, we introduced new norms in the policy that will be released next month. This will be adopted by the University Grant Commission," Jere said.

The ministry has established 54 innovation clubs at educational institutes across the country. "If new institutes are interested, they can join us this year. Our aim is to increase the number to more than 1,000 this year," Jere said.

He observed that unlike universities and institutions in developed countries, Indi-

stitutions on Innovation Achievements. We aim to increase this number," Jere said.

India has recently inched ahead on the Global Innovation Index, Jere said. "The government has given importance to start-ups and other related programmes have helped in improving the GI ranking. But still we have a lot of scope for advancement in higher education."

MHRD starts new course

The MHRD has started a new MBA course in innovation, entrepreneurship and venture development in four states on a pilot basis. "This course has started at colleges based in Gujarat, Andhra Pradesh, Tamil Nadu and Uttarakhand. Depending on its success, the ministry will introduce the course across the country. Under this course, we will mentor students on various facets such as business plan development, marketing trends, and so on, to develop entrepreneurial skills," said Jere.

Institutions are yet to develop a culture of generating breakthrough ideas. "Therefore, such clubs are necessary to create a conducive ecosystem on campuses," he added.

The chief innovation officer added that many institutes have not focused on innovative ideas. "We have observed that students' ideas get scrapped at institutional level. Besides, there is no competition among students in this area. Therefore, barely 800 institutes are registered with the Atal Ranking of In-

Youngsters need to be in forefront of innovative movement: Pokhriyal



New Delhi, Sept 11 (UNI) Human Resource Development Minister Ramesh Pokhriyal 'Nishank' on Wednesday said that youngsters need to be in the forefront of innovative movement and country's higher education institutes need to play a key role and emerge as centers of excellence in producing global quality research and innovation.

The HRD Minister added that as India aspires to be 3 trillion-dollar economy by 2024, the country needs to emerge as global innovation, entrepreneurship and startup hub.

The Minister said this while attending the first annual Innovation Festival of the MHRD's Innovation Cell (MIC). MIC organised the first Annual Innovation Festival in coordination with AICTE.

During this festival, Innovation cell showcased more than 70 top students' innovations from across the nation.

HRD MoS Sanjay Dhotre was also present on the occasion.

The HRD Minister also launched the Smart India Hackathon 2020, Atal Ranking of Institutions on Innovation Achievements (ARIIA) 2020, and Institution's Innovation Council 2.0.



SINGAPORE INDIA HACKATHON 2019

28th - 29th September 2019

Prize distribution function 30th Sept 2019

ग्रामीण क्षेत्रों में इनोवेशन के लिए अधिक अवसर : डॉ. अभय जेरी

विद्यार्थियों के बीच डिजेनर करेसट को प्रोत्साहित कर उद्वार करने हेतु मानव संसाधन विकास मंत्रालय तथा अखिल भारतीय तकनीकी शिक्षा परिषद (एआईटीसीई) द्वारा इनोवेशन पॉलिसी तैयार की जा रही है. ग्रामीण क्षेत्रों के विद्यार्थियों में गुणवत्ता है और वहां इनोवेशन हेतु अधिक अवसर हैं, लेकिन आवश्यक संसाधनों के अभाव में उन्हें पर्याप्त भौके नहीं मिलते. इसी वजह से इनोवेशन हेतु अधिक अवसर वाले ग्रामीण क्षेत्रों में बुनियादी सुविधाएं व जरूरी संसाधन मुहैया कराने हम प्रयास करेंगे. यह जानकारी मानव संसाधन विकास मंत्रालय (एमएचआरडी) के मुख्य नवाचार अधिकारी (सीआईओ) अभय जेरी ने दी.

एमएचआरडी व एआईटीसीई द्वारा संयुक्त रूप से दिया गित्त आनी इंस्टीट्यूट ऑफ टेक्नोलॉजी (एआईटी) में आयोजित 'प्रूफ ऑफ कॉन्सेप्ट' एमएचआरडी-एआईटीसीई रीजनल मेंटॉरिंग कार्यक्रम में वे बोले रहे थे. इस अवसर पर 'एआईटीसीई' एमएचआरडी के संचालक संजय धोत्रे, जेरी, एमएचआरडी व एआईटीसीई के



एमएचआरडी व एआईटीसीई द्वारा एआईटी में प्रूफ ऑफ कॉन्सेप्ट कार्यक्रम के अवसर पर विद्यार्थियों के साथ गणमान्य.

निरंतर क्रिगिडेशन (रोमानिगुल) अभय भट्ट उपस्थित थे. महाराष्ट्र व गंगा विभाग के 150 से अधिक विद्यार्थी व 100 से अधिक शिक्षक इस कार्यक्रम में शामिल हुए. डॉ. जेरी ने कहा कि नवाचार-संस्कृति को स्थापित करने के लिए विनोदित्वालय व महाविद्यालय स्तर पर हम प्रयास कर रहे हैं. इनोवेशन काउंसिल के जेरी हम देश के लिए उपयुक्त इनोवेशन की तरफ़ात करने का प्रयास कर रहे हैं. प्रारंभिक व सरकारी

संस्थाओं को इनोवेशन व शोध कार्यों हेतु प्रोत्साहित करने के लिए अटल रेंजिंग ऑफ इंस्टीट्यूट्स ऑन इनोवेशन एक्सेलेंस (एआईआईएई) जैसी योजना चला रही है. संजय धोत्रे ने कहा कि राज्यपाल व वायस चांसलर के जेरी लगभग 17 राज्यों में इनोवेशन कन्सलर नियुक्त करने हेतु प्रयास किये गये हैं, लेकिन ग्रामीण क्षेत्रों में संसाधनों तथा शर्तों के अभाव में नवाचार की चुनौती है. निर्धारित दायरे के बाहर

जाकर काम करने का दृष्टिकोण विकसित होना जरूरी है. ग्रामीण क्षेत्र में इनोवेशन व आउट्रोन्पुटिंग विकसित हो रही है. क्रिगिडेशन अभय भट्ट ने कहा कि हमारे यहां कई विद्यार्थी प्रायोगिक संशोधन कर रहे हैं. स्मार्ट हार्कबॉल जैसी प्रतियोगिताओं में आनी इंस्टीट्यूट के विद्यार्थियों ने सरफ़ला प्राप्त की है. इसके बाद भी हम विद्यार्थियों व प्राध्यापकों को शोध कार्यों, नवाचार आदि के लिए प्रोत्साहित करेंगे.

04 metro hindustantimes htcampuscalling

Educating new generation of innovators, problem solvers

UPGRADE MHRD will form students and faculty startup policy to encourage innovative ideas

Shree of the group

Sanjay Dhotre@timesgroup.com

PUNE: Ministry of human resource development (MHRD) under the innovation cell is in the process of framing student and faculty startup policy. The policy will give guidelines to all the educational institutions on what they should do if students or faculty members are interested in start-ups.

Ministry of human resource development in November 2018 established the innovation cell to promote startup culture among students.

The policy will be established in the next couple of months, says A. Jere, chief innovation officer (CIO) of innovation cell.

He said, "We are now consulting with student and faculty startup policy. The policy will give guidelines to all the educational institutions on what they should do if students or faculty members are interested in start-ups. The policy guidelines will give details about revenue sharing, incubation support the institutes should provide to students, among others."



Abbey Jere, chief innovation officer of innovation cell, ministry of human resource development, says the startup policy will be formed in the next couple of months.

The policy guidelines will give details about revenue sharing, incubation support the institutes should provide to students, among others.

Abbey Jere, chief innovation officer (CIO) of innovation cell

but we will recommend all the universities and institutions to adopt this policy," he said. "There are multiple challenges that the innovation sector is facing, according to Jere. "Due to the zero tolerance environment, we don't have a culture to appreciate or promote new ideas. Due to this we have knowledge and understanding of the country's students and the ability to think out of the box. So, we need to think of this as a major task."

"One of the other challenges is lack of cognitive skills. For this we will be launching an online course," said Jere. "Another problem which we are facing is that we don't have platforms, where experts and entrepreneurs can meet to discuss problems faced by start-ups. So we want to become a bridge between both the parties and provide common platform," he said.

Jere said, "Our country's youth should be the part of the solution and not the problem. So they should be used to think about how I can provide solutions to millions of problems which our country is facing. Students must recognize that they should look at the problem as an opportunity."

WHAT DOES INNOVATION CELL DO?

- They work on what policy needs to be developed to encourage what policy intervention is required to nurture the innovation culture.
- The cell guides educational institutions about the same.
- The cell conducts national initiatives where these educational institutions compete with each other in terms of innovation.
- The cell keeps a track about the progress of the institutes.

What to students and faculty startup policy?

The policy will give guidelines to all the educational institutions on what they should do if students or faculty members are interested in start-ups.



Govt. Shakambhar P.G. College

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**MoE's
INNOVATION CELL
(GOVERNMENT OF INDIA)**



**INSTITUTION'S
INNOVATION
COUNCIL**
(Ministry of Education, India)



CERTIFICATE

This is to certify that

Govt. Shakambhar PG College, Jaipur

**has established Institution Innovation Council(IIC) as per the norms of Innovation Cell,
Ministry of Education, Govt. of India during IIC Calendar year 2020-21**

**Prof. Anil D. Sahasrabudhe
Chairman, AICTE**

**Dr. Abhay Jere
CIO, MHRD,
Innovation Cell**

Date : 10-05-2021

Certificate No : 5102

MOE's Innovation Cell
Institution's Innovation Council
Institute Portal



Institute Login

Enter email

Enter password

I'm not a robot



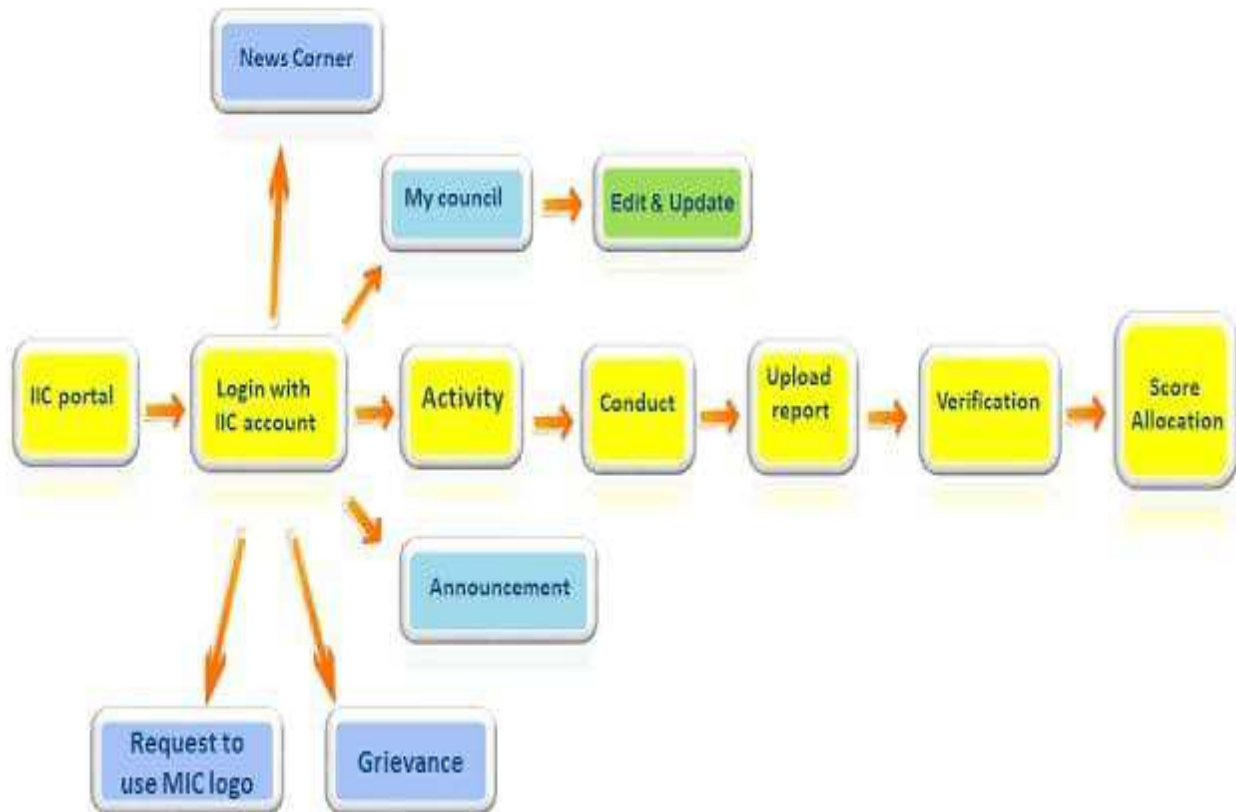
[Forgot Password](#)

LOGIN

For New Registration

ABOUT IIC AND PORTAL GUIDELINES

IIC PORTAL FEATURES





Sandesh Nayak
IAS



Commissioner
College Education
Rajasthan, Jaipur

Message

At the outset, I thank the Ministry of Education (MoE), Govt. of India for the establishment of 'MoE's Innovation cell (MIC)' to systematically foster the culture of innovation amongst all Higher Education Institution (HEIs) with the mandate to encourage the creative energy of our students population to work on new ideas and innovation and promote them to creat start-ups and entrepreneurial venture.

I am delighted to know, that Govt. Shakambar P.G. College, Sambhar Lake (Jaipur) has established Institutional Innovation Council (IIC as par the norms of Innovation Cell, Ministry of Education, Govt of India (IIC Calender year, 2020-21) and devised the “ **Guidelines on Institutions Innovation Council**” for promoting innovation and entrepreneurship among students and facilities. I believe that, this will guide to evolve sound mechanisms for promoting and managing innovations as well as start - ups at institutions premises. Furthermore, it will also provide the required direction and support to a large number of students on handling intellectual Property Rights, Entrepreneurial, Innovations and Start-up related issues, I extend my best wishes to the institute for stepping ahead to implement these guidelines

(Sandesh Nayak)



Dr. Kiran Shukla
Principal

Govt. Shakambhar P.G. College, Sambhar Lake,
Jaipur (Rajasthan)



Govt. Shakambhar PG College,
Sambhar Lake
Jaipur (Rajasthan)

Message

We are proud to announce that the Govt. Shakambhar P. G. College, Sambhar Lake (Jaipur) has established Institutional Innovation Council (IIC) as per the norms of Institution's Innovation Cell, Ministry of Education, Govt. of India (IIC Calendar year, 2020- 21).

I am indeed very pleased to share that, we are releasing a guideline booklet “Guidelines on Institution's Innovation Council” with an aim to foster and promote the innovation, start-up and entrepreneurship culture in an appropriate direction.

I firmly believe that this will pave the way for developing and encourage students and faculties for making every possible effort to purse start- up, entrepreneurship, stat- up and intellectual property related activities in our institution.

I wish a grand success for this initiative to emerge as one of the pivotal points of our education System.

किरण शुक्ला

Dr. Kiran Shukla



Dr. Kiran Shukla
(Head, Department of Chemistry)
President
Institution's Innovation Council (IIC)
Govt. Shakambhar P.G. College, Sambhar Lake,
Jaipur (Rajasthan)



Govt. Shakambhar PG College,
Sambhar Lake
Jaipur (Rajasthan)

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किरण शुक्ला

Dr. Jaya Rai

IIC Calendar Activities for Academic Year 2020-21

Semester I

Quarter 1

Sl. No.	Activity	Mandatory/ Elective	Thrust Area
1	IIC Council formation or upgradation (of existing council) at Institute level. Conduct first council meeting.	Mandatory	Inspiration, Motivation and Ideation
2	Workshop on "Entrepreneurship and Innovation as Career Opportunity"	Elective	
3	My Story - Motivational Session by Successful Innovators	Elective	
4	My Story - Motivational Session by Successful Entrepreneur/Startup founder.	Elective	
5	Session on Problem Solving and Ideation Workshop	Elective	
6	Exposure and field visit for problem identification	Elective	
7	Pitching workshop & linkage of innovators with Innovation Ambassadors.	Elective	
8	Panel Discussion on Atmanirbhar Bharat- Vocal for Local, Make In India for the world.	Elective	
9	Orientation Session on National Education Policy (with a focus on Innovation and entrepreneurship)	Mandatory	

Quarter 2

1	IIC Council Meeting- Review of Q1 progress and Planning for Q2.	Mandatory	Validation and Concept Development
2	Session on Process of Innovation Development	Elective	
3	Workshop on Design Thinking, Critical thinking and Innovation Design	Elective	
4	Field/Exposure Visit to Fab lab, Makers Space, Design Centres, City clusters etc.	Elective	
5	Workshop on Entrepreneurship Development Phases	Elective	
6	Design Validation through various model of design validation (e.g. Double Diamond Approach)	Elective	
7	Session on identifying Intellectual Property component at the early stage of Innovation	Elective	
8	Idea/ PoC pitching & validation and Institute level PoC competition. Submission of Idea/PoC on IIC Portal	Mandatory	
9	Orientation session for all students & faculties of Institute by Innovation Ambassador	Elective	
10	Call for paper writing and research report on Innovation	Elective	
11	Orientation Session on National Innovation and Startup Policy (NISP)	Mandatory	
12	Semester Break : Internship at startup	Elective	

Semester II

Quarter 3

1	IIC Council Meeting- Review of Q2 progress and Planning of Q3.	Mandatory	Prototype, Design, Process Development for Business Model/ Process/ Services
2	Field/Exposure Visit to Incubation Unit/Patent Facilitation Centre/Technology Transfer Centre/ Co-working spaces	Elective	
3	Workshop on Prototype/Process Design and Development - Prototyping	Elective	
4	Session/ Workshop on Business Model Canvas (BMC)	Elective	
5	Business Plan/Prototype Competition to Invite Innovative Business Models from Students	Elective	
6	Session on “How to plan for Start-up and legal & Ethical Steps”	Elective	
7	Interactive Session/Mentoring Session with "Successful Start-up founders" (Entrepreneurs in Campus)	Elective	
8	Workshop on Intellectual Property Rights (IPRs) and IP management for start up	Elective	
9	Mentorship Session for Innovators (or) Student Entrepreneurs through experts and (or) Innovation Ambassadors/Innovation Agent	Elective	
10	Orientation session for all students & faculties of Institute by Innovation Ambassador(s).	Mandatory	

Quarter 4

1	IIC Council Meeting- Review of Q3 progress and Planning of Q4	Mandatory	Awareness about Startup and related Ecosystem
2	Session on Prototype Validation - Converting Prototype into a Startup	Elective	
3	Session on Accelerators/Incubation - Opportunities for Students & Faculties - Early Stage Entrepreneurs	Elective	
4	Organise Session on “Lean Start-up & Minimum Viable Product/Business”- Boot Camp (or)Mentoring Session	Elective	
5	Session on Angel Investment/VC Funding Opportunity for Early Stage Entrepreneurs	Elective	
6	Session on Building an Innovation/ product fit for market	Elective	
7	Session/ Panel discussion with innovation and Startup Ecosystem Enablers from the region/state/national level	Elective	
8	Orientation session for all students & faculties of Institute by Innovation Ambassador	Elective	
9	Semester Break : Internship at startup.	Elective	

Note:

1 To receive maximum marks/star in a particular quarter, it is necessary to complete atleast 3 elective activities along with the mandatory activities.

2 The report shall be submitted within 10 days after a particular quarter concludes.

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Chapter - 1 Introduction

National Innovation and Start up Policy- 2019 (NISP)

The Ministry of Human Resource Development in 2019, released the National Innovation and Start up Policy 2019 for students and faculty of Higher Education Institutions (HEIs). The Policy is in line with the focus of the Central Government on entrepreneurial projects. The framework was created to enable the institutes to actively engage students, faculties and staff in innovation and entrepreneurship related activities.

The Guidelines on National Innovation & Start-up policy 2019 were published to provide required direction and support in handling Innovation Start-up and Intellectual Property rights related issues.

The framework designed to facilitate the Ministry of Human Resource Development in bringing uniformity across HEIs in terms of Intellectual Property ownership management, technology licensing and institutional Start up policy, thus enabling creation of a robust innovation and start up ecosystem across all HEIs.

Innovation and Entrepreneurship must emerge as one of the focal points of today's education system with focus on creation of economic hubs so that the nation aspires to become a five trillion- dollar economy in the near future. To achieve this milestone, systems and mechanisms must evolve to convert the present demographic dividends into high quality technical human resources, which could eventually create wealth generation hubs through Start- ups and entrepreneurship.

Chapter - 1 Introduction

MHRD's Innovation Cell (MIC) In the year 2018, Ministry of Education (MoE), Govt. of India has established 'MoE's

Innovation Cell (MIC)' to systematically foster the culture of Innovation amongst all Higher Education Institutions (HEIs) with the mandate to encourage the creative energy of our student population to work on new ideas and innovation and promote them to create start-ups and entrepreneurial ventures.

The primary mandate of MIC is to encourage, inspire and nurture young students by supporting them to work with new ideas and transform them into prototypes while they are informative years. MIC has envisioned encouraging creation of 'Institution's Innovation Council (IICs) across selected HEIs. MIC will also work on designing ranking system to identify institutions in the forefront of innovation.

Institution's Innovation Cell (IIC) 3.0

A network of IICs is established to promote innovation and entrepreneurship in the Institution through multitudinous modes leading to an innovation promotion ecosystem in the campuses.

A network of more than 950 IICs were established on 21st November 2018.

IICs is a faculty-experts-student council which takes on multiple activities to promote Innovation and Entrepreneurship round the year.

IIC's objective is to prepare the students with skills like

- Critical thinking,
- Design Thinking,
- Innovative thought process and
- Entrepreneurial mindset.

We proudly announce that Govt. Shakambhar P.G. College, Sambhar Lake, Jaipur (Rajasthan) has also established Institutions Innovation Cell as per the norms of Innovation Cell, MoE, Govt. of India during IIC calendar year 2020- 2021.

Sambhar Lake (Calendar Year, 2020- 21& 2021- 22)

Chapter - 2 Institute's Innovation Council, Govt. Shakambhar PG College,**Sambhar Lake (Calendar Year, 2020- 21& 2021- 22)****Institute's Innovation Council, Govt. Shakambhar PG College, Sambhar Lake
(Calendar Year, 2020- 21& 2021- 22)**

S. No	Name of Member	Department	Key Role/ Position assigned in IIC
Teaching Faculty Staff			
1	Dr. Kiran Shukla	Dept. of Political Science	Head of the Institute
2	Dr. Jaya Rai	Dept. of Chemistry	President
3	Dr. Gyan Prakash Dayma	Dept. of Botany	Vice- President, Media Coordinator
4.	Dr. Deepak Sharma	Dept. of Zoology	Convenor
5.	Dr. Priyanka Sharma	Dept. of Zoology	Co- Convener, Innovation Activity Coordinator
6.	Mrs. Sunita Kumari	Dept. of Chemistry	Innovation Activity Co- Coordinator
7.	Dr. M.A. Qureshi	Dept. of Botany	IPR Activity Coordinator
8.	Dr. Sangeeta Rautala	Dept. of English	IPR Activity Co- Coordinator
9.	Dr. Beena Sharma	Dept. of ABST	Internship Coordinator
10.	Mr. Ruben Mathur	Dept. of EAFM	Internship Co- Coordinator
11.	Dr. Chavvi S. Chaturvedi	Dept. EAFM	Start-up Activity Coordinator
12.	Dr. Ritu Sharma	Dept. of History	Start-up Activity Co- Coordinator
13.	Dr. Makkhan Lal Nayak	Dept. of Political Science	NIRF Coordinator
14.	Dr. Snehlata Singh	Dept. of English	ARIIA Coordinator
15	Dr. Rajendra Kumar Rai	Dept. EAFM	Media Co- Coordinator
16.	Mr. Ram Badkodia	Dept. of Hindi	Member
17.	Dr. Radha Krishan	Dept. of	Member
18.	Dr. Deep Chand Dudi	Dept. of Geography	Member
19.	Dr. Seema Kulshreshtha	Dept. of Zoology	Member
20.	Dr. J. P. Pareek	Dept. of Maths	Member
21.	Dr. Ram Swaroop Sahu	Dept. of Physics	Member
22.	Dr. Satish Kumar Sain	Dept. of Sanskrit	Member
23.	Smt. Lalita Sharma	Dept. of English	Member
24.	Mr. Bhvvnesh kumar Parihar	Dept. of Hindi	Member
25.	Dr. O. P. Sharma	Dept. of Business Administration	Member
26.	Dr. Sushil Kumar Jain	Dept. ABST	Member
27.	Dr. O. P. Sharma	Dept. of Business Administration	Member
28	Dr. Surendra Singh Rathore	Physical Instructor	Member
29	Smt. Sunita Kumari	Dept. of Physics	Member
30.	Smt. Sunita Kumari	Dept. of Geography	Member

S. No	Name of Member	Department	Key Role/ Position assigned in IIC
Non- Teaching/ Office Staff			
1	Shri Mahendra Kumar Pathheer	Assistant. Accounts Officer (I)	Member
2	Shri Satynarayan Samariya	Ad. Administrative Officer	Member
External Experts			
1	Dr. Mahesh Kumar Verma	Senior Medical Officer	Member
2	Sh. Anil Kumar Gattani	M.D., Salt Industry, Sambhar Lake	Member
3	Sh. Sita Ram Khatik	Retd. General Manager, Central Bank of India, Sambhar Lake	Member
Students Council			
1	Subhra Gaur	Dept. of Zoology	Member
2	Dashrath Gurjar	Dept. of Zoology	Member
3	Vishal Vyas	Dept. of Botany	Member
4	Annu yogi	Dept. of Botany	Member
5	Gunjan Sharma	Dept. of Physics	Member
6	Bhawana Saini	Dept. of Physics	Member
7	Sakshi Tak	Dept. EAFM	Member
8	Darshita Deeman	Dept. EAFM	Member
9	Rajat Meel	Dept. of ABST	Member
10	Dilawar Singh	Dept. of ABST	Member
11	Jaya Rajput	Dept. of Business Administration	Member
12	Kanchan Sevkani	Dept. of Business Administration	Member
13	Vinod Kumar Sharma	Dept. of Political Science	Member
14		Dept. of Geography	Member
15		Dept. of Geography	Member

Chapter - 3 Objectives

The objective of the IIC at Shakambhar PG College is to:

- Meet once in a quarter to formalize the discussion and keep action points for activities in the coming quarter and regularly update it.
- Identification of the best of ideas and providing them a 'womb' to incubate eventually to transform into Start-up or entrepreneur endeavour.
- Soliciting an entrepreneur through application of knowledge and expertise – academic as well as industrial.
- Empowering an idea with all important ingredients and resources aiding its conversion into a successful product or service.
- Helping entrepreneurs to grow holistically with business acumen.
- Bring socio-economic change in the country by finding innovative solutions to the daily met problems.

Vision

- To create a vibrant local innovation ecosystem.
- Start-up supporting mechanism in HEIs.
- Prepare institute for Atal Ranking of institutions on innovation achievements framework.
- Establish function ecosystem for scouting ideas and pre-incubation of ideas.
- Develop better cognitive ability for technology students.

Chapter - 4 Functions of IIC

The objective of the IIC at Shakambhar PG College is to:

- To conduct various innovation and entrepreneurship-related activities prescribed by Central MIC in time bound fashion.
- Identify and reward innovations and share success stories.
- Organize periodic workshops/ seminars/ interactions with entrepreneurs, investors, professionals and create a mentor pool for student innovators.
- Network with peers and national entrepreneurship development organizations.
- Create an Institution's Innovation portal to highlight innovative projects carried out by the institution's faculty and students.
- Organize Hackathons, idea competition, mini-challenges etc. with the involvement of industries.

Chapter - 5 Roles & Responsibility of the IIC-council

(I) President

- The President will constitute the IIC council and appoint its members. He/She is responsible for ensuring that Quarterly Council Meeting is planned effectively. Conduct Council Meeting in accordance with prescribed rules and those matters are dealt with in an orderly, efficient manner.
- He/ She will lead the IIC Council.
- He/ She will have the IIC portal Login ID and will be the custodian of IIC portal login and data/ reports uploaded therein.
- He/ She will call the meetings, set meeting agenda and will monitor the deliverable.
- He/ She will be the main point of contact with MHRD Innovation Cell.
- He/ She will respond to all communication from IIC National Coordination team (MHRD Innovation Cell) and will be responsible to ensure decent performance of IIC.
- He/ She will coordinate with MHRD innovation cell and responsible for all the IIC activities in the institute.
- He/ She will ensure Institution's participation in IIC calendar activity and take lead in the institution driven activities (own initiatives).
- He/ She will ensure the effective implementation of IIC activities with the help of Convener. • He could change the council members as per the decision taken in council meetings and update the information on portal.
- He/ She will be responsible for submitting the monthly progress/activity reports on the IIC portal.

(II) Vice President

- It is an Honorary post for senior expert representative from Industry/Ecosystem enablers. He/ She can be from faculty representative as well in case no experts are available.
- The Convener will work in close coordination with IIC president and will provide help wherever required for smooth conduction of activities.
- He/ She will ensure the participation in the meeting and will prepare the meeting agenda at least 10 days prior to meeting with the inputs from all valuable council members and President.
- He/ She will ensure that the internal examination dates would not interfere with the IIC activities and coordinate with all departments to ensure the same.

(III) Convener

- He/ She will collect the inputs from all the members of the council at regular interval, especially external members for better planning of IIC activities and effective delivery of results.

(IV) Faculty Member/ Faculty representatives

Following members will work in close coordination with President and Convener to develop a comprehensive ecosystem of innovation and synergy in efforts to boost entrepreneurship. They will work as per the responsibilities assigned in council meeting.

1. Social Media Coordinator - Will create and manage IIC page/account on Facebook, Twitter and YouTube and other relevant social media platforms. He/ She will be responsible for posting all the relevant information about council meeting resolution and action plan, IIC activities and follow/tag MIC/IIC page and posts on these platforms. He/ She will also ensure that all students follow MIC/IIC page/account on social media to get first-hand information.
2. Innovation activity coordinator - Will work to promote innovation related activities on campus or as mandated in IIC council meeting.
3. Start-up activity coordinator - Will work to boost startup generation among students and related activities or as mandated in IIC council meeting.
4. Internship coordinator - Will work to arrange student internships in start-up, so to expose them with start-up ecosystem in India, real-life challenges in start-up and their success stories or as mandated in IIC council meeting.
5. IPR activity coordinator - To promote awareness about IPRs and conduct related activities on campus or as mandated in IIC council meeting.
6. ARIIA Coordinator (Optional) – Coordinate for ARIIA related activities.
7. NIRF coordinator (Optional)- Coordinate for NIRF related activities.
8. Members – No limit

(V) Expert Members

1. IP Expert/ Patent Expert

- Patent expert could be any registered patent agent/lawyer or the subject matter expert/faculty who have sufficient years of experience in the IPR domain.
- He/ She would suggest points related to patent and technology transfer in the council meeting.
- He/ She would also play a key role in the IPR workshops scheduled in the IIC calendar with in that institute.

2. Start-up / Alumni entrepreneur

Alumni network of any institution is the most valuable resource of any Institution. The role of alumni entrepreneur is to guide not only the council in the matters of startup ecosystem but to also guide the students of the institution. He/ She can share his success story as an entrepreneur/innovator.

3. Expert from nearby Industry/ Industry association/ Ecosystem Enablers

- He/ She will attend the council meeting on regular basis (quarterly).
- Technical Expert would play the role of mentor/guide to the institute students.
- He/ She will help in organizing institute level idea Competition/Hackathon by suggesting suitable problem statements or theme.

3. Start-up activity coordinator - Will work to boost startup generation among students and related activities or as mandated in IIC council meeting.

- He/ She will give his inputs in council meetings about the latest trends in technologies and feasibility of the idea/point discussed.

4. FI/ Bank/ Investor/Angel Investor/ VC

- He/ She will attend the council meeting on regular basis (quarterly).
- His/ Her role is to give information about loan schemes, grant and investments regarding start-up and entrepreneurship.
- He/ She will also arrange meetings with investors/sponsor for the events organized by the institute based on the IIC calendar/guidelines.

(5) Expert from Nearby Incubation Centre

- He/ She will attend the general council meeting on regular basis (quarterly).
- He/ She will help the IIC in conducting idea workshops/ competition/ Hackathon/ bootcamps etc.
- He/ She will also help the IIC in identifying ideas from IIC events and provide mentoring, incubation guidance and business network support.

(VI) Student Representative

Student coordinators will act as a medium of communication between IIC and institute students. He/ She will understand the concept, idea and method of participation in IIC activities and disseminate it to all the students. He/ She will act as volunteer for IIC programs and will support respective faculty coordinators.

(VII) Special Invitee President can nominate any person as a special invitee in IIC council meetings. Special Invitee could be any eminent person in the field of academics/industry/ research/innovation etc.

Chapter 6: Activity and Score

All Activities to be done by IICs are categorized into three types:

1. IIC Calendar Activity
2. MIC Driven Activity
3. Self- Driven Activity

1. IIC Prescribed Annual Calendar Plan activities/ Programs (50%)

IICs have the option to select and organize a certain minimum number of activities in a quarter as prescribed in annual calendar plan from the pool of activities in the calendar. Institutes are encouraged to do a greater number of activities from calendar beyond the prescribed minimum. It is expected that institutes which are in the emerging phase of the innovation ecosystem- will follow the calendar plan vividly. IICs are now allowed to upload the reports for these activities in the portal and will be eligible to get a score on quarterly basis. Completing the minimum number of prescribed activities in the calendar can earn a maximum of 50% weightage.

2. Self-Directed Activities/ Programs (30%) IICs are encouraged to plan their activities apart from IIC calendar for promoting entrepreneurship and innovation in their campuses. They may have collaborations with different agencies, departments, and Industries for organizing seminars, competitions, workshops, training sessions relevant to entrepreneurship and innovation.

3. MIC Directed Activities/ Events (20%) MIC is going to launch and bring various programs for IICs from time to time to enhance the skill and mentoring capacity of IIC members on ideation, innovation, entrepreneurship, and start

2. Scoring Mechanism In each Quarter IICs can earn maximum 25 marks for performing minimum prescribed activities in each type of activity which is equivalent to One Star. Fifth Star is reserved for MHRDs Innovation cell and can be earned on exceptional achievements and conducting more than minimum activities in each quarter.

3. REWARD Points: IIC will earn Reward Points for conducting more than prescribed minimum activities (3) in each “activity type”.

Chapter- 7: Ranking of Institutions

1. Atal Ranking of Institutions on Innovation Achievements (ARIIA)

- Atal Ranking of Institutions on Innovation Achievements (ARIIA) is an initiative of Ministry of Education (MoE), Govt. of India to systematically rank all major higher educational institutions and universities in India on indicators related to “Innovation and Entrepreneurship Development” amongst students and faculties.

More than quantity, ARIIA will focus on quality of innovations and will try to measure the real impact created by these innovations nationally and internationally. ARIIA ranking will certainly inspire Indian institutions to reorient their mind-set and build ecosystems to encourage high quality research, innovation and entrepreneurship.

More than quantity, ARIIA will focus on quality of innovations and will try to measure the real impact created by these innovations nationally and internationally. Moreover, ARIIA will set tone and direction for institutions for future development for making them globally competitive and in forefront of innovation.

2. National Institutional Ranking Framework (NIRF)

- The National Institutional Ranking Framework (NIRF) has been accepted by the MoE and launched by Honourable Minister for Education on 29th September 2015. This framework outlines a methodology to rank institutions across the country
- This framework outlines a methodology to rank institutions across the country. The methodology draws from the overall recommendations broad understanding arrived at by a Core Committee set up by MHRD, to identify the broad parameters for ranking various universities and institutions. The parameters broadly cover “Teaching, Learning and Resources,” “Research and Professional Practices,” “Graduation Outcomes,” “Outreach and Inclusivity,” and “Perception”.

Chapter 8: Glossary

- 1. Accelerators:** Start-up accelerators design programs in batches and transform promising business ideas into reality under the guidance of mentors and several other available resources.
- 2. Co- Creation:** Co- creation is the act of creating together. When applied in business, it can be used as is an economic strategy to develop new business models, products and services with customers, clients, trading partner or other parts of the same enterprise or venture.
- 3. Corporate social responsibility:** Corporate social responsibility (CSR) is a self regulating business model that helps Responsibility a company be socially accountable – to itself, its stakeholders, and the public.
- 4. Cross- disciplinary:** Cross- disciplinary practices refer to teaching, learning, and scholarship activities that cut across disciplinary boundaries.
- 5. Entrepreneurial culture:** A culture/ society that enhance the exhibition of the attributes, values, beliefs and behaviours that are related to entrepreneurs.
- 6. Entrepreneurial:** An Individual who has an entrepreneurial mindset and wants to make his/her idea Individuals successful.
- 7. Entrepreneurship:** Entrepreneurship education seeks to provide students with the knowledge, skills education and motivation to encourage entrepreneurial success in a variety of settings.

Chapter 8: Glossary

- 8. Experiential learning:** Experiential learning is the process of learning through experience, and is more specifically defined as learning through reflection on doing.
- 9. Financial management:** Financial Management is the application of general principles of management to the financial possessions of an enterprise.
- 10. Hackathon:** A hackathon is a design sprint- like event in which computer programmers and others involved in software development, including graphic designers, interface designers, project managers, and others, often including domain experts, collaborate intensively on software projects.
- 11. Host Institution:** Host institutions refer to well-known technology, management and R&D institutions working for developing startups and contributing towards developing a favorable entrepreneurial ecosystem.
- 12. Incubation:** Incubation is a unique and highly flexible combination of business development processes, infrastructure and people, designed to nurture and grow new and small businesses by supporting them through the early stages of development.
- 13. Intellectual Property Rights Licensing:** A licensing is a partnership between an intellectual property rights owner and another who is authorized to use such rights (licensee) in exchange for an agreed payment (fee or royalty). (licensor) Rights Licensing.

14. Knowledge Exchange: Knowledge exchange is a process which brings together academic staff, users of research and wider groups and communities to exchange ideas, evidence and expertise.

15. Pedagogy and Experiential: It refers to specific methods and teaching practices (as an academic subject or theoretical concept) which would be applied for students working on start-ups. The experiential learning method will be used for teaching 'startup related concepts and contents' to introduce a positive influence on the thought processes of students. Courses like 'business idea generation' and 'soft skills for startups' would demand experiential learning rather than traditional class room lecturing. Business cases and teaching cases will be used to discuss practical business situations that can help students to arrive at a decision while facing business dilemma(s). Field based interactions with prospective customers; support institutions will also form a part of the pedagogy which will orient the students as they acquire field knowledge.

16. Pre-incubation: It typically represents the process which works with entrepreneurs who are in the very early stages of setting up their company. Usually, entrepreneurs come into such programs with just an idea of early prototype of their product or service. Such companies can then graduate into full-fledged incubation programs.

17. Prototype: A prototype is an early sample, model, or release of a product built to test a concept or process.

- 18. Science parks:** A science park, also known as a research park, technology park or innovation centre, is a purpose-built cluster of office spaces, labs, workrooms and meeting areas designed to support research and development in science and technology.
- 19. Seed fund:** Seed fund is a form of securities offering in which an investor invests capital in a start-up company in exchange for an equity stake in the company.
- 20. Start-up:** An entity that develops a business model based on either product innovation or service innovation and makes it scalable, replicable and self-reliant and as defined in Gazette Notification No. G.S.R. 127(E) dated February 19, 2019.
- 21. Technology Business incubator (TBI):** It is an entity, which helps technology-based Incubator start-up businesses with all the necessary resources/support that the start-up needs to evolve and grow into a mature business.
- 22. Technology commercialization:** It is the process of transitioning technologies from Commercialization the research lab to the marketplace.
- 23. Technology licensing Agreement:** whereby an owner of a technological intellectual property (the licensor) allows another party (the licensee) to use, modify, and/or resell that property in exchange for a compensation.
- 24. Technology management:** Technology management is the integrated planning, design, optimization, operation and control of technological products, processes and services.
- 25. Venture Capital:** It is the most well-known form of start-up funding. Venture Capitalists (VCs) typically reserve additional capital for follow-up investment rounds. Another huge value that VCs provide is access to their networks for employees or clients for products or services of the start-up.

Chapter 9: References

- National Innovation and Star- up Policy, 2019 for Students and Faculty. A guideline framework for Higher Education Institutes. Ministry of Human Resource Development, Govt. of India. (WWW.mhrd.gov.in)
- Ministry of Education's (Mo E's) Innovation Cell. A Goel Initiative. Fostering A Culture of Progress. Ministry of Education. (WWW.mic.gov.in)

Thanking You