

A HANDBOOK FOR IEDC NODAL OFFICERS



**INNOVATION AND
ENTREPRENEURSHIP
DEVELOPMENT CENTRE**



**KERALA
STARTUP MISSION®**

A HANDBOOK FOR IEDC NODAL OFFICERS

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ABOUT THIS HANDBOOK

The concept of Innovation and Entrepreneurship Development Centre (IEDC) was formulated to promote innovation and entrepreneurial culture in educational institutions and to develop institutional mechanism to foster techno-entrepreneurship for generation of wealth and employment. The IEDCs are established in academic institutions across Kerala having requisite expertise and infrastructure.

Kerala Startup Mission has taken this initiative to create awareness, exposure and skills among the students and to enable and promote an environment to create entrepreneurial ventures by developing innovative products of social relevance.

IEDC plays a major role in identifying the potential entrepreneur, right from the college level. The Nodal Officer/Faculty is advised to nurture the talent and it undergoes multiple phases during its journey from identifying right students, right scalable idea and sustainability of the idea, team and IEDC.

This Handbook is for Nodal Officers of IEDCs of Kerala Startup Mission which highlights the major aspects of the preparatory and development phases of an IEDC and an innovator journey. Rather than being a theoretical discourse on process, this Handbook intends to be a hands-on guide for current and future IEDC Nodal Officers. Certain aspects of the existing mechanism had been redefined and a practical framework that might help Nodal officers to plan their immediate actions has been put forward.

This Handbook also encourages new and existing IEDC to share their experience and suggest newer approaches.

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INTRODUCTION

1. INTRODUCTION

Government of Kerala initiated the Startup movement through Kerala Startup Mission(KSUM) by forging and implementing forward-looking policies for creating a vibrant Startup ecosystem in the state primarily to foster the growth of innovation lead technology entrepreneurship by supporting all the strata of society to encourage them to come up with ideas and to turn it into business so that they may obtain gainful employment and can employ others as well.

Kerala is currently witnessing the rise of technology driven, innovation-led and knowledge-based enterprises right from the college level. KSUM put forward the concept of Innovation and Entrepreneurship Development Centre (IEDC) in the year 2014 and was formulated to promote innovation and entrepreneurial culture in educational institutions and to develop institutional mechanism to foster techno-entrepreneurs. IEDC aims to create awareness, exposure and technology skills among the students and to enable and promote an environment to create technopreneurial ventures by developing innovative products of social relevance. IEDCs will act as mini incubators enabling students to work on prototypes while studying.

Until recent times, the graduating students had two choices: get into world of work or pursue higher education. With the establishment of IEDC, a third option now emerges: to start a venture.

1.1. KERALA TECHNOLOGY INNOVATION POLICY

Government of Kerala introduced Kerala Technology Innovation Policy in 2014 with an ambitious objective to transform Kerala as an entrepreneurial State. Through the Technology Policy, Government of Kerala aims to bring a series of intervention to develop a conducive ecosystem where you of our State can reach his/her maximum potential. The policy envisages strategies to retain the best talents within the State of Kerala itself and encourages to pursue their dream in Kerala. Kerala Technology Innovation policy aspires to develop an entrepreneurial culture and recognises the skill development as the key characteristic of such an ecosystem.

1.2. KERALA STARTUP MISSION

Kerala Startup Mission (KSUM) is the State nodal agency for the promotion of innovation and entrepreneurship under Department of Electronics and IT, Government of Kerala. Kerala Startup Mission plays a pivotal role in developing a vibrant Startup ecosystem in the State of Kerala.

The primary objectives of KSUM is to undertake the planning, establishment and management of Technology Business Incubators/Accelerators in Kerala and thereby promote technology-based entrepreneurship activities and develop a conducive environment required for promoting high technology-based business activities.

Being the apex body for the Startup activities in the State, Kerala Startup Mission supports incubators in the State of Kerala to achieve their full potential by extending financial, technological and mentoring support to incubated start-ups. Kerala Startup Mission helps Startup Founders to execute their vision and compete on the global stage by providing them with risk capital, Incubation support, expert mentoring, and business network when traditional financial and other institutions cannot. The objectives of Kerala Startup Mission are;

- ◆ To promote knowledge driven and technology based Startup ventures
- ◆ To establish and Management of Technology Business Incubators and thereby create the infrastructure and environment required for promoting technology-based start-ups
- ◆ To encourage leading entrepreneurs and companies to set up high technology business activities in the region
- ◆ To undertake major initiatives in Innovation promotion in the region.
- ◆ To build appropriate models for Entrepreneurship Development through research
- ◆ To create a knowledge, innovation and entrepreneurial support system through a collaborative community of national and international experts, practitioners and other partners.

1.3. INNOVATION AND ENTREPRENEURSHIP DEVELOPMENT CENTRE (IEDC)

Innovation and Entrepreneurship Development Centre (IEDC) is a flagship initiative of Kerala Startup Mission to promote innovation and entrepreneurship among the student and academic fraternity in the educational institutions in the State of Kerala and considered as an umbrella programme that would play an instrumental role in fostering innovation culture in Academic institutions.

1.4. GENESIS

The concept of Innovation and Entrepreneurship Development Centre (IEDC) is formulated to promote innovation and entrepreneurial culture in educational institutions and to develop institutional mechanism to foster techno-entrepreneurship for generation of wealth and employment. The IEDCs are established in academic institutions across Kerala having requisite expertise and infrastructure.

1.5. RELEVANCE

Migration of most talented youth in the State of Kerala to other parts of world for better career options is considered as a feature of Kerala Society. This loss is an irreparable in Knowledge economy where people and ideas are more important than land or capital. By recognising this very fact, Government of Kerala have taken steps to prevent the brain drain from Kerala. Kerala Technology Innovation policy of State Government is formulated in this context.

Kerala Technology Policy aptly recognises inculcating the habit and embedding the idea of innovation and entrepreneurship in the minds of citizen in every aspect of economic activity is critical for promoting culture of innovation. This can be achieved only through the active involvement and support of educational institutions.

Innovation and Entrepreneurship Development Centre (IEDC) is initiated as an Academic Intervention to promote innovation and entrepreneurial culture among students as envisaged in the Technology Innovation Policy 2014. Through the setting up of IEDCs in Colleges, Government aims to encourage talented youth to initiate entrepreneurship in technology sectors.

1.6. THE IDEA

The Innovation and Entrepreneurship Development Centres (IEDC) are platforms set up mainly in Engineering, Arts & Science Colleges and Polytechnics with an aim to provide students an opportunity to innovate and experiment. IEDC act as the first launch pad for a Student's entrepreneurial journey and expose them with the new age technologies.

The IEDCs are envisaged as a learning and innovation hub that creates innovation culture among Innovators by introducing them the State-of-the-art technologies and expert mentors. IEDC will encourage students to translate their innovative ideas into prototypes without the fear of failure. IEDCs will take earnest effort to upgrade the skill set of the students through the conduct of relevant workshops and seminars.

IEDC in short will bridge the gap between Industry and Academia by conducting skill development training programmes for the students and will act as an aggregator with three stages of growth in mind – Innovation, Technology and Entrepreneurship.

Kerala Startup Mission has set up IEDCs in 226 institutions across the State in 135 Engineering Colleges, 26 Arts & Science college, 52 Polytechnic colleges and 13 other colleges who are having requisite expertise and infrastructure which provides avenues for creative students to learn, collaborate and transform their innovative ideas into prototypes of viable products.

1.7. IEDCS IN THE ERA OF DISRUPTION

Innovation and Entrepreneurship Development Centers are the innovation arm of Kerala Startup Mission to promote innovation culture among students in academic institutions. IEDCs are considered as a pioneer in student startup movement in the country and there are some good success stories came out from these innovation centers. IEDCs are facing two important challenges. Ie the emergence of Industry 4.0 and the recent COVID-19 pandemic outbreak. Both has drastically affected the way we live and work.

Industry 4.0 is making drastic changes in industries across the sectors. Convergence of physical and digital space became the norm. Most of the conventional skill sets are becoming obsolete and new skill sets coping with changes are emerging and replacing the old one.

The outbreak of COVID-19 has not only created a health crisis but also threaten our ways of living and we are faced with the stark reality that the world we return to will be forever altered. This will also reflect in our state as well. The disruption in brought in Academic sphere has no parallel in history. The far-reaching consequences of COVID-19 pandemic may also jeopardize the hard gains made in Innovation space in educational institutions. It is obvious that we may not be able to continuous IEDC activities as done in pre-COVID era and we need to make changes.

One of the limitations of existing IEDC system is that the innovators are able to access the resources within the institutions only and most of the innovation related activities were limited to IEDC and Fab lab spaces only. The development of technology has made the resources from across the globe accessible and affordable and liberated the innovators and learners from the limitation of the physical space. IEDCs of the post COVID-19 era should be seen from this perspective and should be able to leverage these aspects for the benefit of innovators in IEDC.

IEDCs are the places meant for innovation and learning takes root. Thus, it seems only fitting to look more closely at the foundations of IEDC itself. It is on this context; following design elements has been incorporated into design the IEDC to meet the requirement of the era of disruption.

a. AN INNOVATION PLATFORM

Though IEDCs were envisaged as forums for innovators from all fields in the institutions, in practice, IEDCs became yet another club and often works in isolation. It is also observed that members of IEDCs are selected from one or two departments and a large majority of students are not able to access the IEDC facilities. Besides, there are other forums both technology and non-technology are working in colleges. IEDCs are proposed as a common innovation

platform for all innovators in the institutions and students from other forums will properly represent in the IEDC committee.

b. A PLATFORM FOR SKILL TRAINING

It is an accepted fact that all students may not have the aptitude for entrepreneurship and even students having the aptitude may not start their entrepreneurial venture due to other factors including that of resources and other societal pressures. In this context, IEDC can act as a skill platform where students innovators can experiment their innovative ideas and fine-tune their business models during their course of study itself. Such innovators need to be highly skilled in the latest technology. IEDCs can ensure that these student innovators are exposed to latest technological developments and are acquired changing skill sets through a structured training bouquet. Even if these innovators not pursuing entrepreneurial career after their graduation, the experience gained at IEDC would help them to enhance their position in job market

c. THEME BASED CLUSTER IEDCS

The new version of IEDC explore the possibility to set up theme based IEDCs by clustering the IEDCs having expertise and resources in the similar domain. Such a clustering will not only ensure access to various resources but also will enhance the use of the existing resources optimally. Such a clustering will encourage collaborative innovation among students from different institutions. The themes selected are as follows.

- | | |
|------------------------------------|---------------------------|
| a. Cyber Security | f. Big-Data & lot |
| b. Ar/Vr/Gaming | g. Block Chain & Fin-Tech |
| c. Biotechnology | h. Robotic & Sensors |
| d. Hardware Design And Fabrication | i. Health-Tech |
| e. Deeptech (Ai/MI) | |

j. VIRTUAL IEDC

Since technology provides opportunity to students from different locations to work collaboratively, virtual IEDCs are envisaged. Such an IEDC will overcome the limitations of physical space, intellectual capital etc. Students from non-IEDC institutions can also join such a virtual IEDC.

1.7.1. VISION

To create an innovation culture among Innovators by introducing them the State-of-the-art technologies and positioning the Institution as a Learning and Innovation Platform by delivering technically competent and skilled Entrepreneurs.

1.7.2. PURPOSE

The purpose of the IEDCs will be to act as an aspirational platform, for the I student entrepreneurs and tech savvy innovators, in skilling and sharpening their entrepreneurial skill sets. The selected innovators will be exposed to Innovation culture, emerging technologies and Business aspects with the implicit assumption that the delta will become an entrepreneur and all the other skilled talents will get high end jobs with the kind of exposure and skills they acquire.

1.7.3. MISSION

To create IEDC as an Innovation Platform and to create future founders by promoting Innovation, Technology and Business Learning among student community

1.7.4. OBJECTIVES

- ◆ To promote an innovation driven entrepreneurship culture among the students
- ◆ To develop and promote commercially viable innovative product and solution from the students.
- ◆ To promote enterprise among budding technopreneurs and thereby creating more employment opportunities
- ◆ To bridge the gap between Industry and Academia
- ◆ To support the budding Entrepreneurs through Grants and to create an entrepreneurship flavour in the academic fraternity.

1.7.5. FUNCTIONS OF IEDC

- ◆ To create awareness and interest among faculties and students through workshops and Hackathons
- ◆ To motivate, support and mentor students for identification, development and commercialisation of their innovative ideas
- ◆ To create a platform for the young brains to develop their skills and to give proper technological exposure
- ◆ To provide exposure to technology and entrepreneurship by providing Job opportunities and Internship in relevant Industry

- ◆ To provide Technology & Management Skill Training to the students and Faculties in building their innovative product or solution.
- ◆ To create specialisation hubs for promoting the culture of Entrepreneurship among the student communities
- ◆ To organise Business Plan Competitions/Innovation Camps/ Hackathons with active involvement of industry and alumni

1.8. PROGRAMME DESIGN OF IEDC

IEDC Programme design systematically helps the Faculty in -charge to nurture the innovation culture among the young innovators. Beyond innovation, while engaging with IEDC activities, students are benefiting on their overall personality development, soft skills, technology skills and the 21st century skills.

IEDC programme allow students to explore new ideas, test them and develop prototypes using the resources available in IEDC. IEDC system adopts a “learning by doing” philosophy and promotes “Do It Yourself” culture.

IEDC programmes are designed in three distinct but connected verticals namely innovation, Technical and Entrepreneurship. Students will be exposed to a number of interventions in these three areas. In the first phase ie Innovation phase, students will be experienced the innovation thinking, tools of innovation and innovation mindset. Students will be experienced design thinking, ideation which help them to develop a new perspective towards social and community problems.

In the second phase, Student will undergo a skill appreciation workshop and will be introduced to new technologies, future of work, concepts of computational thinking and other sectoral areas. Students are expected to take up efforts to upgrade skills if their chosen areas. KSUM may introduce a Skill Voucher scheme and empanel Training agencies and Programmes in emerging technologies.

And finally, Students will be exposed to business and entrepreneurship aspects through workshops and case studies. Tools such as Business Canvas Modelling workshops, Design Thinking workshops will be conducted in this phase. Students begin working in teams, towards solving the identified problems, leveraging their learning from the previous phases. IEDC encourages a growth mindset for the young innovators, diligently helping them graduate through the different phases mentioned in this handbook.

JOURNEY TOWARDS EXCELLENCE

2. JOURNEY TOWARDS EXCELLENCE

IEDC innovation journey commence with the IEDC selection process, by the Kerala Start up Mission. KSUM has designed a systematic selection process to select Institutions to set up IEDC. Interested institutions shall submit an online application to KSUM through IEDC portal. Upon Selection, Institutions are required to complete documentation process and portal compliance process as required by KSUM. Officials/ team appointed by KSUM may visit the institution and will do the IEDC readiness audit. Upon satisfactory completion of the compliance and receiving recommendation from the audit official/team, KSUM will officially communicate the institution about the selection of institution to set up IEDC and will issue an affiliation certificate.

2.1. SELECTION PROCESS AND TIMELINE

The Selection of Institution to set up IEDC comprises of four distinctive stage and the entire process will take **3-4 months** to complete.

STAGE 1: INVITING APPLICATION THROUGH IEDC PORTAL

Institutions are invited to submit online application for IEDC through IEDC portal. The online application broadly consists of general information pertaining to Institutions including contact details of Principal, existing Infrastructure details, Students information etc. Applicants are not allowed to make more than one submission and they must refrain from furnishing false/ inaccurate information in part or in full. Mere submission of application, in any way does not guarantee selection.

STAGE 2: SCREENING OF APPLICATIONS

The selection process for IEDC will be in three stages – Screening, Auditing and Final evaluation. Received application would be processed on the basis of eligibility criteria. Eligibility criteria include availability of built-up space of 1000 sq ft, minimum enrolment of students, dedicated faculty coordinator, basic infrastructure including availability of computers and internet connectivity, Lab etc.

STAGE 3: INSTITUTION AUDIT AND SELECTION

Official/ Team appointed for the purpose by KSUM will physically visit the institution and will do IEDC readiness audit of the Institution. KSUM official/Team will interact with Principals, designated Faculty Coordinator, Management representatives, Students and will assess the

institution's willingness and proactiveness in taking up the innovation journey and will submit a report to KSUM.

STAGE 4: FINAL EVALUATION

After the Institutional audit, selected application will be evaluated further for final selection based on the parameters such as institutions participation in student related events such as arts, technology fest etc, existing mentor and alumni engagement. Date for the all the parameters are captured in the Institution audit report submitted. One of the key parameters for the evaluation would be Institutions commitment and willingness to utilise IEDC as a platform to transform their institution into a local innovation hub.

After the final evaluation, the list of selected institutions shall be published on KSUM website and shall be communicated through email to Institution head. The institution will be required to complete the compliance process including documentation related to IEDC portal. Once completed, KSUM will give access to institution into IEDC portal.

STAGE 5: SELECTION OF NODAL OFFICER

The institution will have to engage a faculty as a nodal officer for IEDC activities. The tenure of a nodal faculty shall be 3 years and can extend as long as the institution demands and also a change can be brought in, if the Students vote for another faculty and the Executive Committee of IEDC approves for it.

A major criterion for a nodal officer is to be a passionate individual interested in building an entrepreneurial ecosystem and develop entrepreneurs in their respective college. The Nodal officer should make sure that all the aspiring students get the chance to attend various programs in the college.

The Institution selects/appoints a Nodal officer and an Assistant Nodal Officer and he/she will be responsible in coordinating the activities of IEDC. The Asst. Nodal officer will be in charge of all the activities in the absence of Nodal Officer. The major activities includes coordinating all the activities of IEDC, Design and implement IEDC activities in line with IEDC Programme framework, Develop an Innovation led entrepreneurial Culture among Students, Facilitate setting up of Incubation Centre in Institution, Support Innovators to develop their prototypes and connect them with relevant mentors, Ensure all Students in Institutions are getting information related to IEDC activities, Ensuring that all aspiring students are getting equal opportunity to attend various programs in the college under IEDC, Creating a mentor pool, Encouraging students to take up relevant skill development programmes, promoting patent related activities etc.

STAGE 6: SELECTION OF INNOVATORS

The innovators are the aspiring student entrepreneurs who are interested starting a venture and are ready to undergo a series of workshops, seminars and talks which can polish their inner businessman. All the interested students joining in the first year can be part of IEDC. Though Students can join IEDC any time during their course of study, it is advised to enrol interested students in the beginning of Academic year itself. Students interested in tech enabled entrepreneurship with a vision to succeed in life will be encouraged to associate with IEDC. The new students will have to undergo an induction programme.

The ideal candidate for IEDC will be students who have participated in International/National talent event, Science/Tech festivals and earnest efforts should be taken to identify such students and enrol them with IEDC.

Innovators run the entrepreneurial activities under the facilitation of Nodal Officers. An institution will have to identify key innovators under the designation - IEDC Lead, Quality & Operations Lead, Finance Lead, Creative & Innovation Lead, Technology Lead, Branding & Marketing Lead and Community Lead

- ◆ The IEDC Lead can be student preferably from final year – The Leader, the guiding light
- ◆ Technology Lead can be student preferably from final year
- ◆ Quality & Operations Lead can be students preferably from third year
- ◆ Finance Lead can be students preferably from second or third year
- ◆ Creative & Innovation Lead from any year including First year
- ◆ Branding & Marketing Lead from any year including First year
- ◆ Community Lead
- ◆ Women Entrepreneurship Lead

The IEDC student committee members shall be selected under an evaluation of committee headed by Nodal officer. Outreach through orientation programme (Through senior students, Alumni Network etc). Applications for the post can be collected, Screening (Aptitude test, interview) can be done, Selection of the interested candidates, Announcement of the list and Induction training for the students can be given. The selected innovators can chose any of the categories - Quality & Operations, Finance, Creative & Innovation, Technology, Branding & Marketing, Community and Women Entrepreneurship.

Interested students at the beginning of the academic year will join IEDC under any of the lead team. The lead teams will work together for bringing out the best talents. At the beginning of the second last semester each team leads will identify interested, bright student innovators to continue the process.

Innovators should be proactive student leaders capable of running the IEDC. Technically sound and creatively shrewd with a business focus will be the key success of the vibrancy in the team. IEDC shall be run completely by students of the college and guided by faculty whenever required. Every year the college selects the designated innovators based on their interest, experience and knowledge in entrepreneurship. Being proactive is the key mantra. The responsibilities of the student leads are attached as Annexure 4.

STAGE 7: SELECTION OF IEDC EXECUTIVE COMMITTEE

Post selection of the institution, an IEDC Executive Committee must be constituted every year and conduct meeting at the beginning and end of the academic year for charting and evaluating the programmes. Formations of executive committee and the decisions taken in the meeting must be intimated to KSUM and the Activity report should be shared at iedckerala@startupmission.in every year for accreditation and evaluation process. The activities of the IEDC should be captured in the IEDC Portal.

The Executive committee will have an institution representative, Nodal Officer, Assistant Nodal Officer, Innovators (IEDC Lead, Quality & Operations Lead, Finance Lead, Creative & Innovation Lead, Technology Lead and Branding & Marketing Lead).

2.2. COMPLIANCE PROCESS FOR GRANT – IN AID DISBURSEMENT

Compliance refers to the adherence of IEDC norms under KSUM requirements in terms of proper documentation, so that grant-in-aid can be released to the selected Institutions. KSUM has designed strict buy simple compliance process and only institutions which submit required documents within the stipulated timeframe will be considered for grant-in-aid. There are two components of compliance namely documentary compliances and IEDC portal compliance.

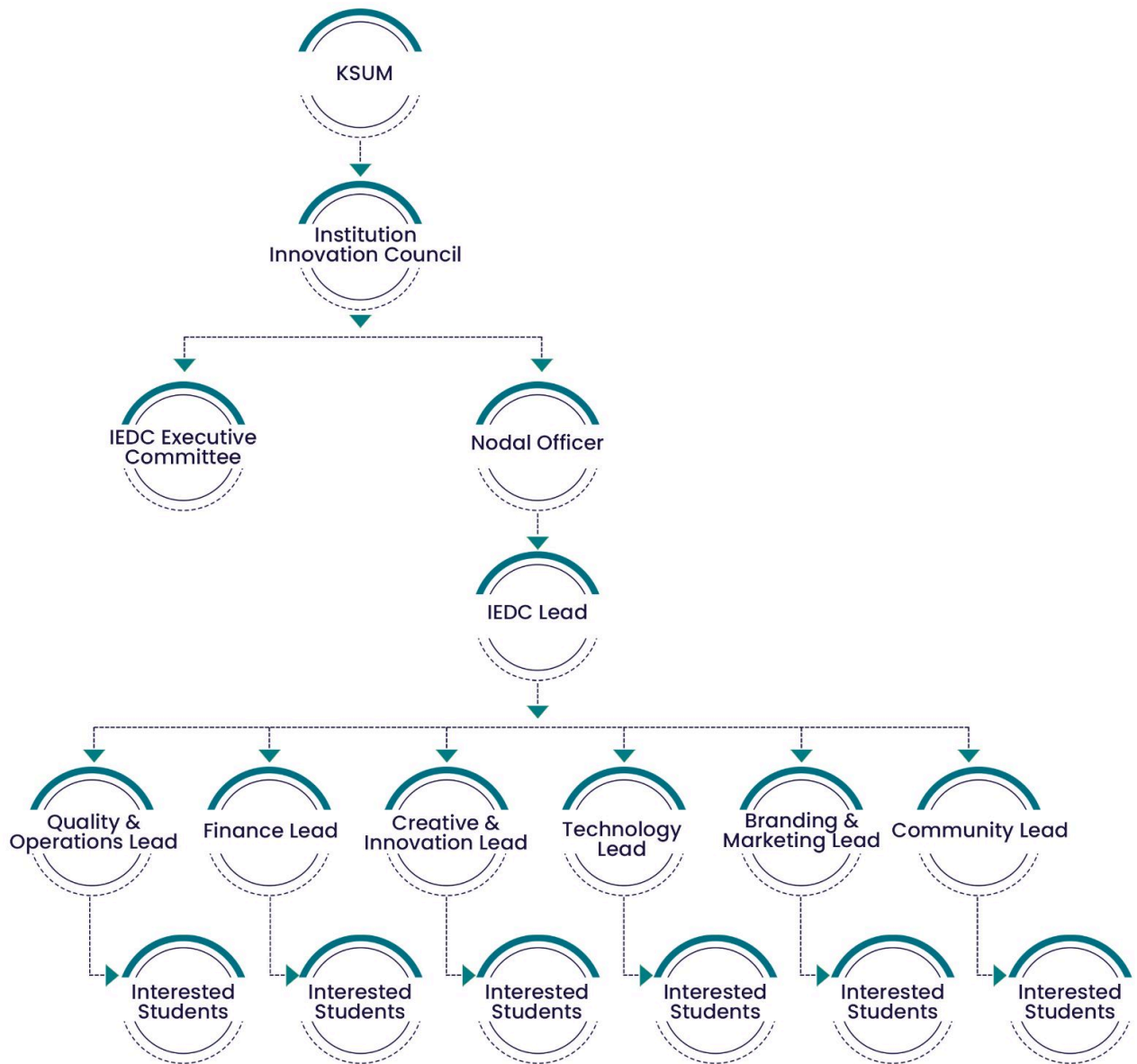
2.2.1. DOCUMENTARY COMPLIANCE

The documentary compliance mandates institutions to submit a set of documents and complete the IEDC portal compliance. Selected institutions are required to open an IEDC specific bank account. The Documents include a declaration form by the Institution Principal and Management on the Institution letter head, Copy of bank Passbook and IEDC layout

2.2.2. IEDC PORTAL COMPLIANCE

In addition to the documentation compliance, the Institution is required to complete the IEDC Portal Compliance. IEDC Portal is a KSUM initiated Management and decision support System that help to track and monitor IEDC activities and performance of IEDCs. It is aimed towards bringing transparency and effectiveness in innovation related activities.

KSUM will provide access to selected Institution and the IEDC faculty co-ordinators are required to register their IEDC on the portal.



SEEDING AN INNOVATION CULTURE

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In the second phase, Student will undergo a skill appreciation workshop and will be introduced to new technologies, future of work, concepts of computational thinking and other sectoral areas. Students are expected to take up efforts to upgrade skills if their chosen areas. KSUM may introduce a Skill Voucher scheme and empanel Training agencies and Programmes in emerging technologies.

And finally, Students will be exposed to business and entrepreneurship aspects through workshops and case studies. Tools such as Business Canvas Modelling workshops, Design Thinking workshops will be conducted in this phase. Students begin working in teams, towards solving the identified problems, leveraging their learning from the previous phases. IEDC encourages a growth mindset for the young innovators, diligently helping them graduate through the different phases mentioned in this handbook.

3.1. PROGRAMME DESIGN - EXPRESS, EXPLORE, EXPERIMENT AND EXPERIENCE

The IEDC aims at moulding the tech savvy entrepreneurial mind-sets among students to experiment their innovations during their academic journey. IEDC programme design revolves around the theme “Express, Explore, Experiment and Experience”. IEDC encourage students to express their ideas without any inhibition, explore ways to translate those ideas into business model, experiment with the business model in real world scenario and get it validated by customers. This experience enriches their understanding about business in general and gives a cutting edge in their career journey.



In short, IEDC will act as a skill platform for students to acquire 21st Century skills and above all transform them as a much sought-after innovator.

The Programme Design will have a design which embraces the students in 3 aspects – Innovation, Technology and Entrepreneurship.

3.1.1. INNOVATION PHASE

Entrepreneurship demand innovative mind set. Innovativeness is one of the important characteristics of an entrepreneur. Culture plays an important role in cultivating such an approach. The first phase of IEDC programme aims to introduce innovation culture to students and make them exposed to tools of innovations. KSUM believes that cultivating an innovative mindset among students is key in building an innovation-based economy.

It is true that an innovation culture can be developed only in an open-minded and collaborative environment. Academic institution plays a pivotal role in creating and developing such an environment. IEDC recognises that each student is unique and innovative. Students can nurture their innovativeness only in an environment that support their endeavours and initiatives. Since innovation can't be learned or taught, IEDC attempts to create a right environment so that students can take up their innovation journey without the fear of risk.

In the innovation phase, Institutions need to organise programmes and events that cultivates an innovation mindset among students. A list of programmes has been given below. Institutions are free to innovate their own programme.

1. Innovation Orientation workshop
2. i-Talk - Talky by an innovator – 20 Minutes
3. Failure Friday - Talk by an entrepreneur about his/her entrepreneurship failure
4. Ideation Workshop
5. Campus Innovator Talk
6. Meet the Founder – Interactions with a Start-up Founder
7. Visit to an Incubator/ Fab lab/ Maker Lab/corporate Innovation lab
8. Campus Hackathon
9. Innovation film Screening/Film fest
10. Meet the Innovator – Interaction with a grass-root innovator

AFTER THE PROGRAMMES/EVENTS

- ◆ An IEDC need to conduct a minimum of three programme in this phase. For conducting each activity, Institution will get 5 points.
- ◆ Each Student will also receive 5 point for attending each activity.
- ◆ KSUM will take every effort to empanel innovators and Start up founders and the same shall be published on IEDC portal. However, institutions are free to choose innovator/founder for any programme.

ADDITIONAL POINTS

- ◆ Knowledge sharing of “A” Institution faculty to the students of “B” Institution in terms of a pre-planned value-added session can score 3 points. (“A” College 3 points, “B” college points NA)
- ◆ “A” Institution sharing the facility with “B” Institution in terms of venue/lab/Human Resource can avail 3 points for each facility shared.

3.1.2. TECHNOLOGY PHASE

World of work is rapidly changing because of the technology innovation. It is accepted that good entrepreneurship can't happen without the right skill and this more relevant in the era of Industry 4.0. Recognising this fact, IEDC gives ample thrust to empower its student members with relevant skill set.

Second stage of IEDC Programme designed in such a way that each students enrolled with the network will be exposed to the emerging technologies and thereby provides opportunity to identify his/her technology interest inventory. IEDC will organise a day long Technical skill appreciation workshop in which experts will take students through various emerging technologies such as block chain, AI, Machine learning, Computer vision, Cyber security etc. This would enable students to identify their areas of interest and subsequently, they can take up relevant skill development programme in their chosen area of interest. KSUM may empanel training programmes and agencies for the benefit of students and the same shall be available on IEDC portal.

The institution will have to bring in efforts to create tech community through IEDC, bringing together alumni, faculty, students, industry and other stakeholders under an umbrella to create a broader entrepreneurial ecosystem around deep technology. This will help the students to encounter and experience the state-of-the-art technologies which only an IEDC will have access to. IEDC can thereby quench the thirst of the tech savvy students who will be the torch bearers of the innovation ahead.

IEDCs can partner with corporates, incubators and institutions of Higher learning to avail their facilities including labs

The Future Lab and Fab lab of Kerala Startup Mission can be the Technology partner of IEDCs. Future Technologies Lab is an initiative by KSUM to provide necessary tools, equipment and infrastructure for Research & Development of emerging technologies and serves as a platform to introduce it to startups and students. The thrust areas for Innovation and Research at Future Technologies Lab include Virtual Reality (VR) and Augmented Reality (AR), Artificial Intelligence (AI), Robotics and Brain Computer Interface (BCI).

Fabrication Laboratory (FabLab) is a technical prototyping platform where people can design and build their own technology. Fab labs aim to provide stimulus for local entrepreneurship and serves as a platform for learning and innovation. A Fab Lab consists of state-of-the-art digital fabrication tools such as 3D printers, laser cutters, CNC routers, electronics workbench, PCB milling machine, vinyl cutter etc. FabLab allows anyone to express their ideas through technology.

To create the technology culture and community among the IEDC students, a minimum of 3 activities from the below lists are to be conducted

1. One day workshop on Future Skills
2. Electronics and Hardware Workshop
3. Sessions : Basics of VR and AR technologies
4. Sessions : Basics for Programmer/ 3D Artist
5. Introduction Sessions : Game Development and Gamification
6. VR / AR Experience and Hands-on Workshop
7. Artificial Intelligence & Machine Learning Workshop
8. Brain Computer Interfacing Introduction Workshop
9. Robotics and Aerial vehicles Workshop
10. Workshop on Blockchain

AFTER THE PROGRAMMES/EVENTS

- ◆ Every institution will receive 2 points if the activity is coordinated with the support of any existing community/club/labs under any recognised institution
- ◆ An IEDC need to conduct a minimum of three programme in this phase. For conducting each activity, Institution will get 5 points.
- ◆ Each Student will also receive 5 point for attending each activity.
- ◆ KSUM will take every effort to empanel innovators and Start up founders and the same shall be published on IEDC portal. However, institutions are free to choose innovator/founder for any programme.

ADDITIONAL POINTS

- ◆ “A” Institution helping/co-organising with “B” Institution in scheduling a tech session/ event/workshop can score 3 points. (“A” College 3 points, “B” college 3 points)
- ◆ “A” Institution sharing the facility with “B” Institution in terms of venue/lab/Human Resource can avail 3 points for each facility shared.

3.1.3. ENTREPRENEURSHIP AND BUSINESS PHASE

Entrepreneurship is a way of thinking and it is an outlook that identifies new opportunities and solves problems. Entrepreneurship is not only about starting own business. It is the capacity to be creative and innovative, act upon opportunities and ideas in order to transform them into value for others. An entrepreneur is the change-maker creating new possibilities and improves the world we live in by taking on societal challenges of all kinds.

Graduates, at the end their academics are left with three options – Pursuing Higher Studies, Employment, Entrepreneurship. While recruiting, what skillsets are employers looking for? Problem-solving, flexibility and adaptability, taking the initiative, self-awareness, and resilience are all “skillsets” which graduates need to have to be competitive in the market and, incidentally, these are all key entrepreneurial skills as well!

Third phase of IEDC Programme focus on two aspects, i.e. developing entrepreneurial competence and provide fundamentals of organisational development.

Entrepreneurial competence refers to the ability to identify opportunities and develop the necessary resources and capital in addition to technical, financial, and legal knowledge.

In entrepreneurship, highly developed political skills (four important political skills, a student must possess - networking ability, interpersonal influence, social astuteness, and apparent sincerity) can help student entrepreneurs accurately identify and acquire effective resources in a dynamic and complex social environment, as well as create a new combination of technology and knowledge with the support of Institution and Industry. Entrepreneur must possess the savviness to effectively understand peers and adjust their behaviours accordingly. The actual process of opportunity recognition is an interaction between individuals and their environments.

Highly politically motivated student entrepreneurs can effectively control dynamic and ambiguous environments and can positively influence innovation by enhancing the personal charm of entrepreneurs.

To create the business skills among the IEDC students, a minimum of 3 activities from the below lists are to be done for an academic year starting from Jan2020 to Dec 2020.

1. Business Model Canvas Workshop
2. Ideathon or Business Plan Competition at College
3. How to build a Startup – Workshop
4. Session on IPR
5. Session on Incubation and Acceleration- Opportunities for Students
6. Entrepreneur in Campus
7. Meet with Startup Founder
8. i-Talk
9. Session on Angel Funding and VC Funding
10. Grant Workshop
11. Demo Day
12. Internship in Start-up
13. Boot camp

14.Hackathon

15.Mentor Session

AFTER THE PROGRAMMES/EVENTS

- ◆ Every institution will receive 2 points if the activity is coordinated with the support of any existing community/club/labs under any recognised institution
- ◆ An IEDC need to conduct a minimum of three programme in this phase. For conducting each activity, Institution will get 5 points.
- ◆ Each Student will also receive 5 point for attending each activity.
- ◆ KSUM will take every effort to empanel innovators and Start up founders and the same shall be published on IEDC portal. However, institutions are free to choose innovator/founder for any programme.

ADDITIONAL POINTS

- ◆ An Engineering Institution in association with an MBA college will get additional points (Vice-versa)
- ◆ “A” Institution helping/co-organising with “B” Institution in scheduling a tech session/ event/workshop can score 3 points. (“A” College 3 points, “B” college 3 points)
- ◆ “A” Institution sharing the facility with “B” Institution in terms of venue/lab/Human Resource can avail 3 points for each facility shared.

MANAGING THE IEDC

4. MANAGING THE IEDC

Once the Institution has got IEDC affiliation, they must pay great attention towards designing the IEDC space, identifying the right human resources and successfully implementing the IEDC programmes in the Institution. These elements are crucial towards building an innovation culture in the campus and meet expected outcomes.

4.1. DESIGNING THE INNOVATION AND ENTREPRENEURSHIP CENTRE

IEDC shall be set up in 1000 sq. ft are depending upon the activities planned. IEDC space should be one single space with maximum open space. While designing the space proper attention need to be taken to ensure that the space can be used for collaborative project works and small learning sessions can be conducted. IEDC Space may be setup in the location where all students can easily accessible to the space. Proper care should be taken for safety of women while selecting the IEDC location. Ideally, the centre should be in proximity to the main building. All relevant guidelines and manuals, if any must be available in the centre and should be easily accessible for reference.

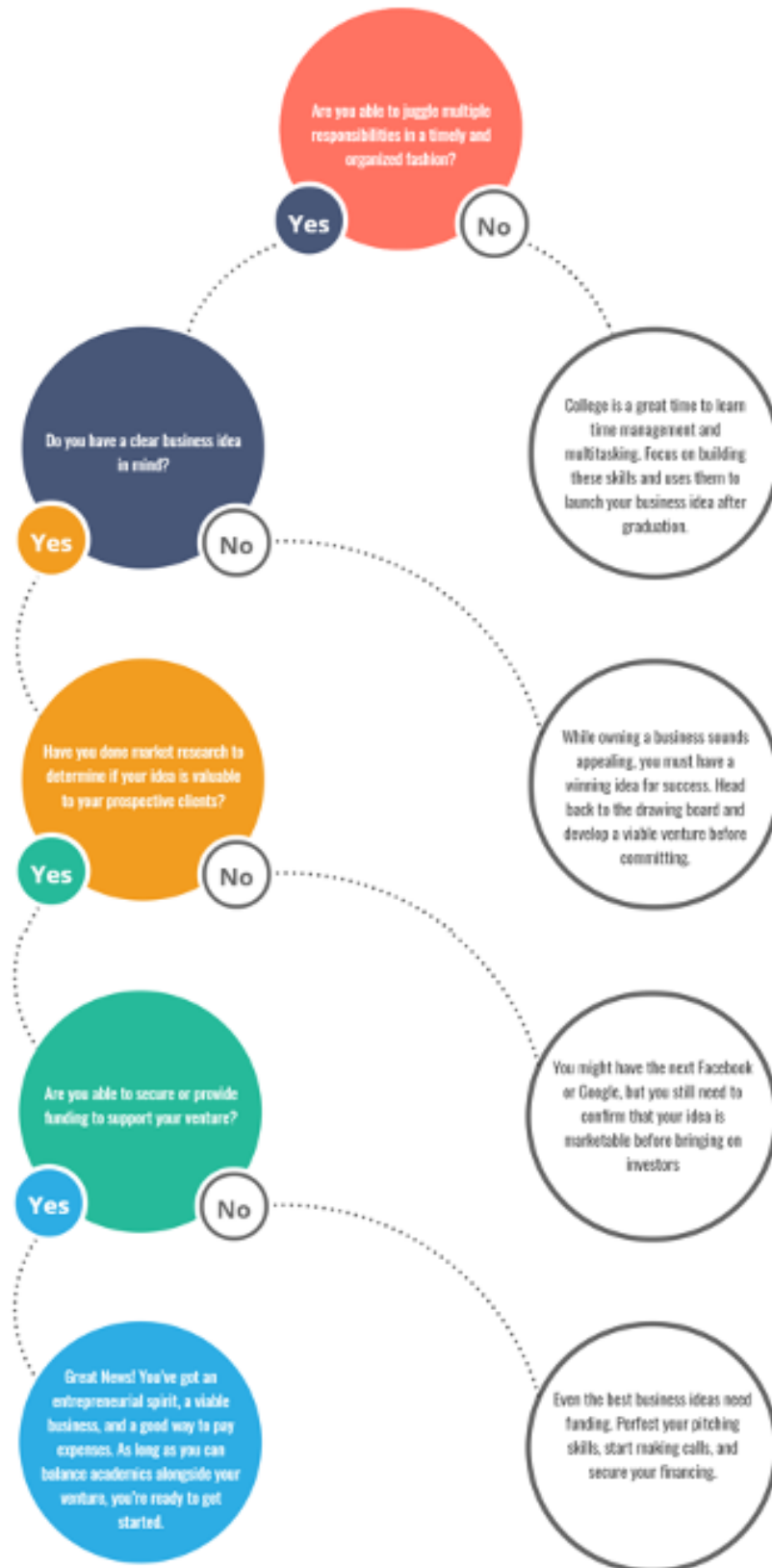
4.2. IDENTIFYING THEN RIGHT HUMAN RESOURCES

While working in the IEDC, students get an opportunity to transform their ideas into workable prototypes/models. To make this happen, it is important to nominate/select faculty with right attitude, right knowledge, skill and experience to take the role of IEDC nodal officer and Assistant Nodal Officer. The role of nodal officer is crucial in making IEDC journey a successful and hence, must be selected carefully.

They should be able to nurture the innovation ecosystem in the institution by adopting appropriate sustainable strategies and should be able to facilitate generation of ideas and motivate students to work on it. It is the resistibility of Nodal Officer to run IEDC with the support from the institution fraternity, management and student volunteers. They should organise regular campaigns in Institutions to spread awareness and get larger number of students to join in IEDC movement.

They should be work in tandem with community organisation and Local Self Governments and thereby forge partnership with them. They should motivate students to solve local community problems through IEDC. They should also give enough attention to identify and develop partnership with relevant stakeholders such as corporates, mentors, industry experts and makers.

Are You Ready to Start Your Business in College?



4.3. INSTITUTIONAL INNOVATION COUNCIL

An Institutional Innovation Council shall be constituted with Principal as chairperson to support and guide IEDC. The council may consist of the following members

- ◆ IEDC Nodal Officer – Convenor
- ◆ IEDC Assistant Nodal Officer – Jt. Convenor
- ◆ Representative from Industry
- ◆ Faculty in Charge of Various Tech communities/ Clubs in Institution
- ◆ Two prominent Alumni
- ◆ Heads of Departments in Institution

IIC shall meet twice a year , to review the progress of IEDC in Institution, suggest course correction in the implementation plan as and when needed, and identify develop partnership with relevant stakeholders.

4.4. ENGAGEMENT WITH COMMUNITY AND COMMUNITY ORGANISATION

IEDC must aspire to become the local innovation hub. This can be achieved without the involvement and ownership of local community. In fact Community plays an important role in building a vibrant innovation ecosystem. IEDC should leverage the network strength of non-government organisation, volunteers, government agencies and local self-governments to bring effectiveness in its operations. These organisation can make significant contribution towards providing support and create awareness about the IEDC innovation activities. Following activities are recommended.

a. OUTREACH PROGRAMMES IN SCHOOLS AND NON-IEDC COLLEGES

IEDC can organise Innovation focused orientation session in Schools and Non-IEDC Colleges with the support of Community Organisations. IEDC can reach out talented students who are attended State/National/International Science fairs with the support of community organisation and extend support to nurture their innovation mindset further by providing with the support they needed.

b. COLLABORATION WITH STUDENT COMMUNITIES AND TECH COMMUNITIES

IEDC should work in partnership with all Technology based student communities while implementing IEDC programmes. IEDC should take effort to enrol members of various Technology communities in IEDC. This will not only involve more students in IEDC activities but also will expand IEDC activities into more areas. The support of these Technology communities may be utilised for skill development activities too.

c. SEEKING SUPPORT FROM LOCAL SELF GOVERNMENTS

Since Local Self Government plays a larger role in regional economic development and Human Resource Development, support of Local Self Governments may be sought for the IEDC activities. Involvement of Local Self Governments will not only bring community involvement but also will ease resource mobilisation.

4.5. MANAGING THE IEDC CENTRE

Starting an IEDC is an easy thing but managing the centre makes all difference. To ensure systematic management of IEDC, following activities are recommended.

- a. Inventory management – IEDC nodal officer shall responsible for general inventory management. In the case, if Institution has set up fab lab/lab/Future Lab, all tools, equipment, materials shall be properly recorded, and Nodal officer shall keep a tab on it to ensure smooth function of IEDC.
- b. Maintaining a bills and Vouchers – All bills and Vouchers pertaining to IEDC activities should be maintained.
- c. Maintain books and Registers - IEDC need to maintain following registers
 - ◆ Minutes Book for Executive Committee Meeting
 - ◆ Minutes Book of Institution Innovation Council
 - ◆ Ledger Book.
 - ◆ Cash Book.
 - ◆ Voucher File.
 - ◆ Bank Pass book,
 - ◆ Cheque book
 - ◆ Audited Financial Statements

4.5.1. INFORMATION MANAGEMENT

All activities of IEDC need to be properly documented and relevant information must be shared with relevant stakeholders to ensure the success of the programme.

- a. Information sharing with internal purposes and audience

IEDC internal audience comprises of students, faculties, parents, Technology communities and Institution Management. It is vital to keep them apprised of all necessary information, since they are important stakeholders of the innovation ecosystem.
- b. Information sharing with external purpose/Audience

IEDC external audience comprises of Local Self Government, other IEDC Institutions, Community Organisations, the maker Community, KSUM and potential partners/ Stakeholders etc. Information need to be disseminated to these audiences for their support as and when required.

4.6. FINANCE MANAGEMENT

The IEDC grant in aid must be operated in the Joint Account of Nodal Officer & Student Coordinator / Principal Nodal Officer in any nationalised bank and sent the Bank Account Details including Name, Branch, Account Number and IFSC Code of the bank to KSUM official designated for releasing grant in aid.

The IEDC will maintain a separate bank account which will be jointly operated by the Nodal officer of IEDC and the Head of the Institution or a person nominated by the Head of the Institution. The bank account must be open in any of the Nationalised Bank and Account details including Name, Branch, Account Number and IFC code should be shared with KSUM official designated for releasing grant in aid.

The grants-in-aid will be credited to the account and should be utilised solely for the activities of IEDC. All financial receipts/funds received by IEDC shall be credited to this account.

It is strictly advised that the institution shall acknowledge the receipt of the grant received in institution letter head with sign and seal of the institution head.

The Income & Expenditure Statement of the year is to be signed by Nodal Officer and Principal and the audited Utilisation Certificate should be submitted on or before 25th March of every year.

The grant will be released only if,

- ◆ The accounts of the previous year are settled along with detailed report and after KSUM verifying the details in online MIS.
- ◆ The Student enrolment, IEDC executive committee formation, and Innovator Leads are in place for the current year is completed.
- ◆ Utilisation certificate for each financial year need to be submitted to KSUM on or before 25th March.

4.7. FUND UTILISATION

The sanctioned amount utilised for the IEDC activities should be recorded and a Fund Utilisation Report to be submitted by the Institution as mentioned earlier.

Funds can be utilised for any activity with a specific outcome of handholding and nurturing Students enrolled in the IEDC Learning Platform.

Fund Request Schedule

Sl. No.	Activity	Time Period	Pre-Requisite
1	Apply for Grant- First Tranche	May 1-30	In the case of existing IEDC, Utilisation Certificate for previous year need to be submitted. Uploading of all information on IEDC Portal
2	Submission of Utilisation Certificate – First Tranche	December 20	
3	Apply for Grant – Second Tranche	November 1-30	Utilisation Certificate of First Tranche. Uploading of all information on IEDC Portal.
4	Submission of Utilisation Certificate	April 30s	

BUILDING A VIBRANT INNOVATION ECOSYSTEM

5. BUILDING A VIBRANT INNOVATION ECOSYSTEM

IEDC plays an important role in building an innovation ecosystem in the institution. IEDC initiated innovation focused events not only provide students to showcase their innovations but also creates awareness in the community in general and academic fraternity in particular. By organising programmes at regular interval for different stakeholders, IEDCs makes the institution as a Hub of Innovation in the region. This can be only achieved by collaborating with non-IEDC institutions and other community organisations in the region.

Ksum Provides A Broad Framework Of Activities To Create A Conducive Environment In Institution. Following Programmes/Concepts And Conceptualised At State Level For Iedcs Along With A Strategy To Implement It. However, These Are Only Indicative In Nature And The Institutions Can Conceptualise And Implement More Such Initiative For A Successful Implementation Of The Programme. Above All, Ksum Encourages Institution To Customise Different Concepts And Organise The Activities With Wide Participation Of All stakeholders.

5.1. FACULTY DEVELOPMENT PROGRAMME

KSUM along with its partners conducts Faculty Development Programme for Nodal officers and Assistant Nodal officers across the state. The objective of these Faculty Development programmes was to build the capacities of resources associated with IEDC. The faculties received training on various aspects of establishing an Innovation ecosystem and running a successful IEDC.

5.2. INSPIRE

INSPIRE is the zonal meet up of innovators organised in various campuses. The objective of the INSPIRE programme is to strengthen student communities by helping innovators to have deeper awareness about the strength and weakness of IEDCs. INSPIRE provide opportunity to students to know about various schemes and support extended by Start-up Mission to innovators.

5.3. I-TALK

i-Talk is a specially designed talk series hosted by Kerala Startup Mission to celebrate entrepreneurship and promote innovation among students. i-Talk series will cover inspirational, Innovation and Investors stories. This would be a three segment talk programme with leaders from innovation, investment and inspirational areas.

5.4. IDEA FEST

With a view to scout talented innovators from the campuses across the state and transform them as technology entrepreneurs, Kerala Startup Mission hosts a yearly pitching event named Idea Fest.

Idea Fest provides students an opportunity to present their ideas or college projects, which can be converted to a practical real world solution, in front of an elite panel and the teams which are shortlisted by the panel are offered grants based on the development stage and innovative value of their ideas.

5.5. WHYHACK

“WhyHack” is a hackathon conceived by Kerala Startup Mission to find out the best technology solutions for the pressing problems in the society. This will be conducted in association with Community partners once in every three months.

5.6. STARTUP AWARENESS AND LEADERSHIP TRAINING (SALT)

Startup Awareness and Leadership Training is a training programme specifically designed for students of 9th Standards. IEDC can select a nearby High school to implement this programme. SALT programme aims to create awareness about entrepreneurship opportunities among school students and to inculcate scientific spirit among young minds. SALT programme will be conducted on selected Saturdays and Holidays and the programme will be offered to elected 30 students. SALT programme will cover basic of entrepreneurship, leadership, innovation, personality development, Communication, Future Technologies etc through 3 hour long 10 sessions. While selecting institutions, due weightage may be given to institutions having Tinker labs. Total duration of the programme shall be 30 hours. Students who have successfully completed the programme shall be given certificate.

5.7. LOCAL ENTREPRENEURSHIP ADVANCEMENT PROGRAMME (LEAP)

Being a socially responsible organisation, educational institutions have much wider responsibility towards the community around the institution. Empowering the local community through job creations would certainly add value of the Institution. Being the innovation of Hub of the region, IEDC can play a pivotal role in empowering local community through creating a conducive ecosystem to nurture entrepreneurs in the local community.

Local Entrepreneurship Advancement Programme (LEAP) provide IEDC an opportunity to mark its signature in the entrepreneurial landscape of the region. LEAP provides a broader canvas to individual IEDC to design their own programmes and projects. IEDC need to involve

community organisation, Local Self Governments and Alumni for the design and implementation of the programme.

Activities may be varied from simple activities such as conducting awareness programme and providing access to IEDC facilities including fab labs to much larger activities like setting up of common facility canters etc. KSUM believes that such an endeavour will help local community to tap the benefit of Industry 4.0. IEDC may need to develop a plan for LEAP Project and share with Startup Mission to get support.

5.8. IGNITE

Ignite is an initiative of Kerala Startup Mission to educate Alumni networks about Startup investment and nurture local angel networks in Kerala with the Support of Educational Institutions of Kerala. Ignite is a very structured three-hour programme focusing exclusively on investment opportunities in Startups and encourage them to support innovators from the Institution. IEDC can take lead to form angel network by involving its Alumni and other High net worth individuals. IEDC can setup IGNITE fund to support the student innovators with the support of Alumni.

5.9. STARTUP MENTORSHIP FOR INNOVATION, LEARNING AND ENTREPRENEURSHIP (SMILE)

SMILE is a programme designed for the benefit of first time innovators to get mentorship support from the acclaimed Startup Founders and Corporates. Selected Mentors from both startups and corporates will extend guidance and support to selected innovators on a regular basis. SMILE has two parts. In the beginning, a bootcamp will be conducted for the shortlisted students' innovators and selected mentors will have one on one meeting with shortlisted innovators. The objective of the bootcamp is to connect student innovators with mentors and establish rapport. Bootcamp will help student innovators to understand their strengths and weakness.

In the second part, a structured mentorship programme is envisaged. Selected Student innovators will take mentorship support from the accredited/shortlisted mentors using online or IEDC portal. Mentors will spend one hour per month with selected student innovators online and will extend guidance and support.

5.10. RECOGNISING INNOVATORS AND START UP ENTREPRENEURS (RISE)

RISE is meetup of innovators in the Institutions to recognise the excellent performers from Students and startup founders. IEDC can invite local innovators and startup founders to the

meetup. The objective of the meetup is to recognise the unsung heroes of the region and instil a sense of pride among innovators.

5.11. IEDC SUMMIT

IEDC Summit is the flagship event of Kerala Start-up Mission. IEDC Summit brings together leading student innovators and Nodal Officers from all IEDC institutions. IEDC Summit, being the annual get together of the innovators attracts many student innovators. The Summit will have different tracks for the benefit of students. Student innovators from IEDCs exhibit their innovation at IEDC Summit. Besides, knowledge and skill development sessions are integral part of the summit and presence of corporate leaders provides students a deeper insight about latest technology trends. IEDC Summit usually organises at Academic Institutions. Startup Mission will select an IEDC by inviting Expression of Interest from the interested IEDCs.

5.12. COMMUNICATION WITH IEDCS

Effective communication between internal and external stakeholders of IEDC is very vital in making the programme successful. The free flow of communication not only eliminates ambiguity but also keeps stakeholders involved and informed about the developments of the programme.

a. HELP DESK E MAIL

An official Email id must be set up for information sharing and issuing clarification of any kind with respect to the programme.

b. SOCIAL MEDIA

Social Media is a good platform to reach out to existing and potential stakeholders. The focus should be not just to display achievements but also to ignite the spirit of innovation in the wider group. IEDCs are encourage to share stories on Social media channels, to create awareness about the innovation activities and invite community participation.

KSUM will strive to leverage the collaborative power and wider reach of social media platform such as Facebook, Instagram to drive and foster innovation.

KSUM encourage all IEDC to create a Facebook page for their IEDC and share various innovation activities. Institutions are advised to tag KSUM and IEDC in all their post and use the hashtag-#IEDC.

c. MESSENGER GROUPS

WhatsApp messenger groups may be created to disseminate information and status update.

5.13. MENTORING FOR SUCCESSFUL START-UP ECOSYSTEM

Since innovation ecosystem as a concept is new in our country, advancing of an idea to a viable product require sustained handholding from mentors from Industry and Academia. This can be achieved through the robust partnership forged with industries and Professional Associations. Mentors are expected to be enablers rather than instructors. Technical domain, innovation, design, Business and entrepreneurship and strategy are some of the areas where mentors can support students.

5.14. ENGAGEMENT WITH ALUMNI

One of the most important catalysts in a successful innovation ecosystem in Institution is the presence and active involvement of its alumni. IEDC should leverage the Alumni network of the Institution to organise programmes and mentoring support. IEDC can create an innovation fund with the support of its Alumni and this can be used as a grant to support most innovative ideas of students.

MONITORING AND EVALUATION

6. MONITORING AND EVALUATION

An effective Monitoring and Evaluation mechanism is critical in ensuring the success of the Programme. A two-level monitoring mechanism has been envisaged ie first at Institution level by Institution Innovation Council and second at State level by KSUM. The Monitoring and evaluation shall be focused on three aspects ie How effective IEDC as an innovation platform to students and secondly, the impact created by IEDC in terms of Start-up enrolment and Patents registered.

6.1. IEDC PORTAL

IEDCs are required to upload details related to their activities on the IEDC portal. The success of IEDCs shall be assessed based on both subjective and objective parameters such as the number of students enrolled in IEDC, Number of workshops conducted, Number of mentorship session organised, number of start-ups created, number of patents filed etc.

6.2. IMPACT CREATED

Since IEDC is the flagship project of State Government to foster innovation ecosystem in the State, it is important to assess the success based on the impact it created. The input for IEDC intervention may include the number of students enrolled, mentors engaged, number of training programmes conducted, number of events conducted etc whereas the output include number of innovation developed, number of startups generated and number of patents filed. The outcome can be assessed based on how IEDC helps students to nurture various 21st Century skills such as creativity and innovation, IP creation, Entrepreneurial Mindset, critical thinking and Problem -solving skills etc. IEDC outcome can be assessed through the impact it created in the overall innovation mindset of youth in our State leading to large scale entrepreneurial initiatives enabling economic and social growth of our society.

6.3. IEDC ACCREDITATION

KSUM has designed an Accreditation framework for IEDCs across the state. The accreditation framework will assess the IEDCs based on the following parameters

- a. Evangelisation of Entrepreneurship
- b. Promotion of Innovation
- c. Supporting Innovation and Incubation
- d. Alignment with Institutional Mechanism
- e. Strengthening of Ecosystem

KSUM will strive to do the IEDC accreditation through an automatic process. IEDC nodal officers are required to update the details of the programmes, workshops and events on the IEDC portal as and when it over. KSUM will take all effort to do the accreditation process objectively and will not send any individual communication in this regard. The accreditation period shall be the academic year i.e. June to May.

THE JOY OF INNOVATION

7. THE JOY OF INNOVATION

CELEBRATING ENTREPRENEURSHIP

Celebrating Success stories and initiatives of student innovators, even it is small, will not only encourage students to take extra steps but also will create greater awareness about entrepreneurship in general and the impact being created through the IEDC in particular. Recognition and appreciation shall be made as a part and parcel of IEDC culture. IEDCs must give enough attention to encourage, recognise and celebrate the initiatives of students, faculties and mentors towards building an innovation ecosystem. IEDC provides excellent opportunities to students' innovators to sharpen their skills and thereby optimise their innovation potential.

7.1. IEDC STORIES

KSUM will showcase inspiring innovation stories from the students, faculties and mentors on a regular basis on the official website of Startup Mission. IEDCs also should take steps to popularise inspiration of stories on their social media pages and Institution website. These stories are related to events where their students, faculties and mentors participated or also about their innovation journey with IEDC.

KSUM encourages all students, Faculties and Mentors to post their innovation stories on their social media pages and tag KSUM. These stories will certainly spread the works of IEDC among a larger network and will help IEDCs to get its due credit for the good work it is being done.

7.2. OPPORTUNITIES FOR INNOVATORS

IEDCs are not only igniting innovation potential of Students, but also encouraging them to translate their dream into reality. In fact, IEDCs should encourage students to walk beyond their comfort zone and spread their wings to the world of innovation and entrepreneurship. IEDC nodal officer should take steps to expose student innovators who have demonstrated a higher level of innovation appetite to advanced technologies through various programme designed and implemented with the support of Corporate partners and Startup Mission. The programmes offered by Future Lab and Fab Lab should be explored for this purpose.

a. FABLAB KERALA CHALLENGE

Fablab Kerala Challenge is specifically designed to enable students to build solutions that could help in directing the State's development along a sustainable path. The challenge provide Students an opportunity to come up with ideas in listed set of innovation areas and

convert them into POCs and prototypes at Fablabs and Mini fab labs spread across the state with the guidance of expert Fab mentors.

b. FAB SATURDAY

Fab lab Kerala conducts a six-week workshop series named Fab Saturday at Fab labs in Trivandrum and Cochin on selected Saturdays. The workshop will expose participants to the tools of Digital Fabrication. The workshop is designed in such a manner that participants will get exposed to the various rapid prototyping methods using the Fab lab facility such as 3D Printing, laser Cutting, Screen printing, designing and fabricating custom printed circuit boards and CNC milling using 3-axis large format CNC milling machine. The workshop timing will be from 10:00 am to 5:00 pm

c. On-Demand Fab Programmes

Fablab Kerala conducts programmes on Digital Fabrication based on requests received from institutions and corporates. The programmes are designed in partnership with the requested institution or corporates. Overall objectives of such programmes shall be to equip participants in the use of various digital fabrication tools and methods. Fablab Kerala will run this customised programme with the support of accredited mentors of Fab Academy. Interested institution can request programmes

d. FUTURE 101

Future 101 is one of its kind of initiatives by Future Technology Lab of Kerala Startup Mission. The programme aims at educating and spread the wave of frontier technologies among college students in the State of Kerala. The two-day long programme will take the participants through the story of evolution, from the past to the future of the technology under discussion followed by a hands-on session on specific technologies. Future 101 will be handled by Industry Professionals and technology enthusiasts from the relevant domain.

Besides the evangelisation of the future technologies such as AI/XR/Block chain, the programme intends to build Community/interest groups at the institution level. Membership in Future lab and access to involve in selected projects of future Lab will be offered to students of IEDC. KSUM may setup future labs at Institutions based on the strength and passion of students involved in Future Technologies.

Institution can seek support of Future lab to get the service of Mentors. Request may be submitted through the link via: <https://members.futuretechnologieslab.com/requestmentors>

e. YOUNG INNOVATORS PROGRAMME

Young Innovators Programme is specially designed programme under Kerala Development and Innovation Strategic Council (K-DISC). The Programme aims to empower future innovators to innovate new products, services or models to meet emerging requirements, unarticulated needs, or existing market needs of the society more effectively through an innovative Challenge

Eligible students can apply through YIP website : <https://yip.kerala.gov.in/>

f. WHYHACK

Whyhack is a hackathon conceived by Kerala Startup Mission to identify problems pertaining in the society and to find best tech solutions to address it. This will be conducted in association with Community partners once in a quarter.

g. INTERNSHIP

It is a recognised fact that internship in an organised industry/corporate provides students to get deeper insight to the world of work and the internship accelerates the pace of learning too. KSUM will strive to provide students innovators internship at its partner companies and Start-ups.

h. PARTICIPATION AT NATIONAL AND INTERNATIONAL CHALLENGES

KSUM provides opportunities to students who are doing exceptionally well to attend various national and international events and challenges.

i. IDEA FEST

With a vision to promote innovation and entrepreneurship among the students across Kerala and to create an ecosystem for a product culture, the Kerala Startup Mission hosts a yearly pitching event exclusively for college students titled “Idea Fest”.

Idea Fest provides students an opportunity to present their ideas or college projects, which can be converted to a practical real world solution, in front of an elite panel .The teams which are shortlisted by the panel are offered grants based on the development stage and innovative value of their ideas.

h. Fail Fast or Succeed Programme

Fail Fast or Succeed Programme is a 12 week intensive pre-incubation programme for the early stage startups. The Programme enables early stage startups to convert their idea/proof of concept into Minimum Viable Product(MVP). The Successful Participants will be offered a 6 - month virtual programme to build commercially viable products from MVP. The programme

consists of areas such as idea refinement, sharpening value proposition, Technology Integration, Competitor analysis, Team building etc. One of the key elements of the methodology adopted is the hands-on-workshop in various topics including designing and sales.

i. Students Marquee Support Programme

Kerala Startup Mission supports students who have developed innovative products by providing required funding and Mentorship Support.

ANNEXURE

Annexure I - Roles and Responsibilities of Students leads

1. IEDC STUDENT LEAD (CEO)

- ◆ Overall coordination of the team
- ◆ Shall forge partnership with various industries
- ◆ Shall promote and build entrepreneurship ecosystem in the campus
- ◆ Shall be responsible for implementing IEDC activities along with Nodal officer
- ◆ Shall be responsible for all special projects

2. OPERATIONS LEAD (COO)

- ◆ Shall be responsible for the operation of IEDC
- ◆ Shall be responsible for event logistics management
- ◆ Shall be entrusted to identify, recruit, and manage the team
- ◆ Shall ensure the quality of the programmes and events
- ◆ Shall be responsible for the IEDC office and lab
- ◆ Shall be responsible for the IEDC accreditation

3. TECHNICAL LEAD (CTO)

- ◆ Shall responsible for organising Technology & innovation driven events.
- ◆ Shall be responsible for technology mentorship programme for the students.
- ◆ Shall be responsible for planning, co-ordinating and conducting Technical programmes.
- ◆ Shall be responsible introducing emerging technologies.

4. MARKETING LEAD (CMO)

- ◆ Shall be responsible for all promotional activities
- ◆ Shall be responsible for marketing of IEDC
- ◆ Shall be responsible for introducing IEDC among Industries and other relevant stakeholders
- ◆ Shall be responsible for all campaign activities

5. CREATIVE LEAD (CCO)

- ◆ Shall be responsibilities for developing creatives for IEDC events
- ◆ Shall be responsible for media coverage inside and outside campus
- ◆ Shall be responsible for Alumni Connect and outreach activities
- ◆ Shall be responsible for Documentation, Reports and Newsletter.

6. COMMUNITY LEAD

- ◆ Shall be responsible for all community related activities
- ◆ Shall ensure active involvement of all communities including Tech communities in IEDC activities
- ◆ Shall be responsible for innovation evangelisation activities

7. FINANCE LEAD (CFO)

- ◆ Shall be responsible for all finance planning and other related activities
- ◆ Shall be responsible for IEDC accounts and its fund utilisation
- ◆ Shall be responsible for annual audit of the IEDC fund
- ◆ Shall be responsible for sharing utilisation certificate with KSUM
- ◆ At least three-women participation should be ensured in the IEDC Team. These details should be shared at the beginning of the year.

8. WOMEN ENTREPRENEURSHIP LEAD

- ◆ Shall be responsible for all the activities related to women innovation and entrepreneurship
- ◆ Shall forge partnership with various women councils and associations
- ◆ Shall promote and build women innovators' network in the campus
- ◆ Shall be responsible for all special projects pertaining to women

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Annexure III - Institutions accredited by Kerala Startup Mission as Incubators

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KSUM/2021-22/TBI/02	ALBERTIAN INSTITUTE OF SCIENCE AND TECHNOLOGY
KSUM/2021-22/TBI/03	CHRIST COLLEGE OF ENGINEERING
KSUM/2021-22/TBI/04	COCHIN UNIVERSITY OF SCIENCE AND TECHNOLOGY
KSUM/2021-22/TBI/05	FEDERAL INSTITUTE OF SCIENCE AND TECHNOLOGY
KSUM/2021-22/TBI/06	GOVERNMENT ENGINEERING COLLEGE BARTON HILL
KSUM/2021-22/TBI/07	GOVERNMENT POLYTECHNIC COLLEGE PERINTHALMANNA
KSUM/2021-22/TBI/08	LOURDES MATHA COLLEGE OF SCIENCE AND TECHNOLOGY
KSUM/2021-22/TBI/09	MANGALAM COLLEGE OF ENGINEERING
KSUM/2021-22/TBI/10	MAR ATHANASIOUS COLLEGE OF ENGINEERING
KSUM/2021-22/TBI/11	MAR BASELIOS COLLEGE OF ENGINEERING AND TECHNOLOGY
KSUM/2021-22/TBI/12	MARIAN ENGINEERING COLLEGE
KSUM/2021-22/TBI/13	MOHANDAS COLLEGE OF ENGINEERING AND TECHNOLOGY
KSUM/2021-22/TBI/14	MUTHOOT INSTITUTE OF TECHNOLOGY & SCIENCE
KSUM/2021-22/TBI/15	RAJAGIRI SCHOOL OF ENGINEERING & TECHNOLOGY
KSUM/2021-22/TBI/16	SAHRDAYA COLLEGE OF ENGINEERING AND TECHNOLOGY
KSUM/2021-22/TBI/17	SAINTGITS COLLEGE OF ENGINEERING
KSUM/2021-22/TBI/18	SREEPATHY INSTITUTE OF MANAGEMENT AND TECHNOLOGY
KSUM/2021-22/TBI/19	ST. ALBERT'S COLLEGE
KSUM/2021-22/TBI/20	ST. JOSEPH'S COLLEGE OF ENGINEERING AND TECHNOLOGY
KSUM/2021-22/TBI/21	SULAMUSSALAM SCIENCE COLLEGE
KSUM/2021-22/TBI/22	TOC H INSTITUTE OF SCIENCE & TECHNOLOGY
KSUM/2021-22/TBI/23	TRINITY COLLEGE OF ENGINEERING

Annexure IV - List of IEDCS in Kerala with Government of India Sanctioned Incubators & Contact Details

APPROVED BY DEPARTMENT OF SCIENCE & TECHNOLOGY (DST WEBSITE)

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AMAL JYOTHI COLLEGE OF ENGINEERING, KANJIRAPPALLY	STARTUPS VALLEY TBI AMAL JYOTHI COLLEGE OF ENGINEERING, KANJIRAPPALLY KOTTAYAM, KERALA- 686518	PROF. SHERIN SAM JOSE	ceo@startupsvalley.in 9496805712
AMRITA VISHWA VIDYA PEETHAM	AMRITA TECHNOLOGY BUSINESS INCUBATOR 5TH FLOOR, AMRITA VISHWA VIDYAPEETHAM AMRITAPURI CAMPUS, CLAPPANA KOLLAM- 690525, KERALA. CET TBI		info@amritatbi.com 7025900047
COLLEGE OF ENGINEERING TRIVANDRUM	CET-TBI, COLLEGE OF ENGINEERING TRIVANDRUM, THIRUVANANTHAPURAM - 695016.	DR.HARISH	principal@cet.ac.in, jazzyhari@cet.ac.in 8281537021
NATIONAL INSTITUTE OF TECHNOLOGY - CALICUT	TECHNOLOGY BUSINESS INCUBATOR, NATIONAL INSTITUTE OF TECHNOLOGY CALICUT, NIT CAMPUS PO, CHATHAMANGALAM, KOZHIKODE, KERALA-673601	MS. PREETHI M	www.tbi.nitc.ac.in preethi@nitc.ac.in 9995421341

APPROVED BY DEPARTMENT OF BIOTECHNOLOGY (DBT WEBSITE)

NAME OF INSTITUTE	NAME OF INCUBATOR	KEY PERSON	CONTACT DETAILS
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Annexure V - Details of Technology Business Incubators in Kerala

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BIONEST, HMT COLONY, NORTH KALAMASSERY, KALAMASSERY, ERNAKULAM, KERALA 683503	DR. SANTOSH GEORGE, CEO DR. UMA SUBRAMANIAN	8309196271 9448475966	director@rgcb.res.in
CARE KERALAM, KINFRA PARK PO, KORATTY, THRISSUR, KERALA 680309	SIMSON	8547969319	info@carekeralam.com;a nilk@keralaayurveda.biz; bd@carekeralam.com
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CIITIC - CUSAT, NEAR UNIVERSITY GUEST HOUSE, CUSAT	MR.SAM THOMAS	9846152127	sam8570@gmail.com
CPCRI INCUBATOR, ICAR-CENTRAL PLANTATION CROPS RESEARCH INSTITUTE KUDLU.P.O, KASARAGOD,KERALA, 671124	DR.MURALI	9562911181	director.cpcri@icar.gov.in; kmurali.cpcri@gmail.com
CTCRI INCUBATOR,TC-5/1639(1, SREEKARIYAM - AAKKULAM RD, AMADI NAGAR, SREEKARIYAM, THIRUVANANTHAPURAM, KERALA 695017	DR.SIVAN	9496550999	ctcritvm@yahoo.com
FOSS INCUBATOR, INTERNATIONAL CENTRE FOR FREE AND OPEN SOURCE SOFTWARE (ICFOSS), SWATANTRA, GROUND FLOOR, SOUTH PAVILION, SPORTS HUB, KARYAVATTOM, THIRUVANANTHAPURAM, KERALA 695581	MS ANJALI	8089946996	anjali.g@icfoss.in

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GECT-TBI RAMAVARMAPURAM, ENGG COLLEGE PO, THRISSUR - 680009	DR. AJAY JAMES	9747291957	ajay@gectcr.ac.in; principal@gectcr.ac.in
IIMK LIVE, TOP FLOOR, COMPUTER CENTRE BUILDING, IIMK CAMPUS, PO, KOZHIKODE, KERALA 673570	MR.LIJO P JOSE	9895233311	lijo@iimklive.org
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NAME OF THE INCUBATOR	KEY PERSON	CONTACT NUMBER	EMAIL ADDRESS
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INTEGRATED STARTUP COMPLEX KERALA TECHNOLOGY INNOVATION ZONE, KINFRA HI-TECH PARK, HMT COLONY, P.O, KALAMASSERY, KOCHI, KERALA 683503	MR. M FASIL	9605035569	fasil@startupmission.in info@startupmission.in
TTBI- KOZHIKODE, 2ND FLOOR, UL CYBERPARK RD, NELLIKKODE, KOZHIKODE, KERALA 673008	MR. MUHAMMED NIHAL	8714400512	space@startupmission.in; info@startupmission.in
TTBI- MIZONNE, KANNUR, MORAZHA- KANNAPURAM ROAD MANGATTUPARAMBA, NEAR KANNUR UNIVERSITY CAMPUS KALLIASSERI P O, KERALA 670562	MS SUNU	7034112113	admin@mizone.in;subhas h@inexoft.com
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TTBI-PALAKKAD,GPTC PALAKKAD ,KODUMBU	MR. VIGNESH R	8089777242	vignesh@startupmission.in info@startupmission.in
NEHRU GROUP OF INSTITUTIONS ,JCET CAMPUS, LAKKIDI,MANGALAM, PALAKKAD – 679 301,KERALA.	SATHYA MURTHY V	7397764545	tbimanager@nehrucolleges.com
KERALA AGRICULTURE UNIVERSITY INCUBATOR	ALOK	8075304392	alokhkau@gmail.com

Annexure V - List of FabLabs & Mini FabLabs

LIST OF FAB LABS

NAME OF ENTITY	KEY PERSON	EMAIL	CONTACT
FABLAB TRIVANDRUM, IIITM-K BUILDING , TECHNOPARK CAMPUS, THIRUVANANTHAPURAM, KERALA 695581	MR. VINOD KUMAR	vinod@startupmissi on.in	9809494669
SUPER FABLAB KOCHI, KINFRA HI-TECH PARK MAIN RD, HMT COLONY, NORTH KALAMASSERY, HMT KALAMASSERY, KOCHI, KERALA 683503	MR. YADU SHARON	yadu@startupmissio n.in	9895608090
PALAKKAD POLYTECHNIC FABLAB	MR. MANIKUMAR	connect2manikuma r@gmail.com	8891198969
CUSAT FABLAB	DR. SAM THOMAS	sam8570@gmail.co m	9846152127

LIST OF MINI FAB LABS

KSUM NO	COLLEGE NAME	NAME	EMAIL	MOBILE
FABMINI01	GOVT COLLEGE OF ENGINEERING, CET CAMPUS PO, TRIVANDRUM, KERALA-965016	AJITH R R	ajithrr@cet.ac.in	9446593698
FABMINI02	SREE CHITRA THIRUNAL COLLEGE OF ENGINEERING, PAPPANAMCODE, TRIVANDRUM, KERALA-695018	CHITRA KUMAR	principal@sctce.ac.in chithrakumar@sctce. ac.in	9447344208
FABMINI03	HEERA COLLEGE OF ENGINEERING AND TECHNOLOGY (HCET), PANAVOOR,TRIVANDRUM, TRIVANDRUM-695568	JASEEM JB	jaseemb4@gmail.co m ggkrishnan93@gmail .com	9074727379
FABMINI04	TKM COLLEGE OF ENGINEERING, KARICODE,KOLLAM, KERALA-691005	DR MOHAMMED SADHIKH	mdsadiKH@tkmce.ac. in	9895409557

KSUM NO	COLLEGE NAME	NAME	EMAIL	MOBILE
FABMINI05	COLLEGE OF ENGINEERING CHENGANNUR, COLLEGE OF ENGINEERING,CHENGANNUR -689121, CHENGANNUR,			
FABMINI06	SAINTGITS COLLEGE OF ENGINEERING, KOTTUKULAM HILLS, PATHAMUTTOM P O, KOTTAYAM,686532	ER. BOBBY P PAUL	bobby.p@saintgits.org	7902581979
FABMINI07	RAJIV GANDHI INSTITUTE OF TECHNOLOGY, VELLOOR P.O,KOTTAYAM, KERALA-686501	ANTONY J K	antony@rit.ac.in	9446332031
FABMINI08	MAR ATHANASIOUS COLLEGE OF ENGINEERING, M A COLLEGE P.O. KOTHAMANGALAM, KERALA-686666	MR JINSE K E	jinseldhose@gmail.com	9946233765
FABMINI09	FEDERAL INSTITUTE OF SCIENCE & TECHNOLOGY (FISAT),HORMIS NAGAR MOOKKANNOOR P O ANGAMALY 683577, ERNAKULAM		mail@fisat.ac.in jibyvarghese@fisat.ac.in	
FABMINI10	MODEL ENGINEERING COLLEGE,THRIKKAKARA P.O.,KOCHI-682021		principal@mec.ac.in pradeep@mec.ac.in mkp@mec.ac.in	
FABMINI11	VISWAJYOTHI COLLEGE OF ENGINEERING & TECHNOLOGY, VAZHAKULAM,P.O.MUVATTU PUZHA-686670	DR ANISHIN RAJ M.M MR.AKHIL RAJ	anishinraj@vjcet.org; akhilraj@vjcet.org	9061348871 9895438895
FABMINI12	RAJAGIRI SCHOOL OF ENGINEERING & TECHNOLOGY, RAJAGIRI VALLEY,P.O. KAKKANAD ERNAKULAM,KOCHI-682039	MR. BONIFUS P L	bonifus@rajagiritech.edu.in vishnudasps@rajagiritech.edu.in	7012042710

KSUM NO	COLLEGE NAME	NAME	EMAIL	MOBILE
FABMINI13	SCMS SCHOOL OF ENGINEERING AND TECHNOLOGY, VIDYA NAGAR, PALISSERY, COCHIN, ERNAKULAM DISTRICT-683582	MR. VINOJ P G	vinojpg@scmsgroup. org	94462 76238
FABMINI14	SREE NARAYANA GURUKULAM COLLEGE OF ENGINEERING, KADAYIRUPPU, P.O KOLENCHERY,ERNAKULAM- 682311			
FABMINI15	ADI SHANKARA INSTITUTE OF ENGG AND TECHNOLOGY, SANKAR, NAGAR,KALADY, ERNAKULAM DISTRICT-683574	ANUROOP K B	anuroop.ec@adisank ara.ac.in	9544069905
FABMINI16	GOVT ENGINEERING COLLEGE,RAMAVARMAPURA M,THRISSUR, KERALA-680009			
FABMINI17	JYOTHI ENGINEERING COLLEGE, JYOTHI HILLS,PANJAL,ROAD,CHERUT HURUTHY, 679531, KERALA			
FABMINI18	MES COLLEGE OF ENGG, KUTTIPPURAM, THRIKKANAPURAM PO KUTTIPPURAM 679573	MUHAMMED FAIROOZ KP	kpfairooz@gmail.co m	9656343736
FABMINI19	GOVT ENGINEERING COLLEGE,PARASSINIKADAVU P.O,KANNUR, KERALA-670563	PROF ARJUN PRABHUDAS	arjunp@gcek.ac.in praveena.prasad.h@ gmail.com	9367669740
FABMINI20	LBS COLLEGE OF ENGINEERING,POVVAL,PO MULIYAR, KASARAGOD, KERALA-671542			
FABMINI21	GOVT POLYTECHNIC COLLEGE, PALAKKAD	MANIKUMAR	connect2manikumar @gmail.com	8891198969

KSUM NO	COLLEGE NAME	NAME	EMAIL	MOBILE
FABMINI22	COCHIN UNIVERSITY OF SCIENCE AND TECHNOLOGY	DR SAM THOMAS	sam8570@gmail.co m	9846152127

Annexure VI - List of Future Technologies Labs

Name of Entity	Key Person	Mail ID	Contact number
FUTURE TECHNOLOGIES LAB, IITMK, TECHNO PARK CAMPUS, THIRUVANANTHAPURAM, KERALA 695581	MR. VARUN G	varun@startupmission.in	9567370286
FUTURE TECHNOLOGIES LAB, INTEGRATED STARTUP COMPLEX KINFRA HI-TECH PARK MAIN RD, KALAMASSERY, KOCHI, KERALA 683503	MR. VARUN G	varun@startupmission.in	9567370286

Annexure VII - List of IEDCs with IOT Labs

SL NO	INSTITUTION
KSUMIOT1	Sahrdaya College of Engineering and Technology
KSUMIOT2	UKF College of Engineering and Technology, Kollam
KSUMIOT3	College of Engineering, Chengannur
KSUMIOT4	TKM College of Engineering
KSUMIOT5	Saintgits College of Engineering and Technology
KSUMIOT6	St. Josephs College of Engineering and Technology
KSUMIOT7	Mar Athanasius College of Engineering , Kothamangalam
KSUMIOT8	MES College of Engineering, Kuttipuram
KSUMIOT9	College of Engineering Attingal
KSUMIOT10	Heera College of Engineering and Technology
KSUMIOT11	Model Engineering College
KSUMIOT12	Seethi Sahib Memorial Polytechnic College
KSUMIOT13	Vimal Jyothi Engineering College
KSUMIOT14	Rajagiri Centre for Business Studies
KSUMIOT15	Swami Nithyanada Polytechnic College ,Kangangad ,Kasragod
KSUMIOT16	Federal Institute Of Science & Technology
KSUMIOT17	Govemment Engineering College, Thrissur
KSUMIOT18	NSS College of Engineering and Technology
KSUMIOT19	College of Engineering Trivandrum
KSUMIOT20	SCMS school of engineering and technology

Annexure VII - List of LoRaWAN across Kerala

COLLEGE	FACULTY IN CHARGE	CONTACT
COLLEGE OF ENGINEERING CHENGANNUR - IHRD	DR HARI VS	8547463422
ADISHANKARA INSTITUTE OF ENGINEERING & TECHNOLOGY	AJAY BASIL VARGHESE	9995103073
COLLEGE OF ENGINEERING, MUNNAR	RAMESHCHAND K A	9495322577
LBS COLLEGE OF ENGINEERING, KASARAGOD	RENSI SAM MATHEW	9946449057
COLLEGE OF ENGINEERING, PATHANAPURAM	DR. DEVI DEVAPAL	9446503136
VIMAL JYOTHI ENGINEERING COLLEGE, CHEMPERI	SARIN CR	9605063204
AMAL JYOTHI COLLEGE OF ENGINEERING, KANJIRAPALLY	ABUBEKER K M, MATHEW GEORGE JAYAKRISHNAN V	9539297709 8714103110
NIELIT, CALICUT	RAJESH M	9447217649
MEA ENGINEERING COLLEGE, PERINTHALMANNA MALAPPURAM	DR RAJI C.G,	9446170854
SREEPATHY INSTITUTE OF MANAGEMENT AND TECHNOLOGY	SEBIN SUNNY P	9446870895
COLLEGE OF ENGINEERING, KALLOOPPARA	RAJ KUMAR T	9447402630
GOVERNMENT ENGINEERING COLLEGE, THRISSUR	AJAY JAMES	9747291957
SREE CHITHIRA ENGINEERING COLLEGE	PREETHA	9526886567
GOVERNMENT ENGINEERING COLLEGE, WAYANAD	DR. GILESH M P	9249285500

Annexure VIII - Kerala Blockchain Academy Innovation Clubs

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COLLEGE OF ENGINEERING TRIVANDRUM	MS. BINDU.C	binducas10@gmail.com	9446283040
LOURDES MATHA COLLEGE OF SCIENCE & TECHNOLOGY	MS. NUSRATH K	nusrathk.mescs@gmail.com	9846997113
TKM INSTITUTE OF TECHNOLOGY	MS. BABY SYLA L	syla@cet.ac.in	8547060768
FEDERAL INSTITUTE OF SCIENCE AND TECHNOLOGY(FISAT)	MS. CIBUMOL B.BABU	cibumol.babu@lmcst.ac.in	9446494938
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Annexure IX - Details of Patent Information Centre

Name of Center	Key Person	Contact
Patent Information Centre- Kerala (PIC-Kerala)		Tel: 0471 2543234, 2548252, 2548315
Kerala State Council For Science, Technology & Environment (KSCSTE), Sasthra Bhavan, Pattom P.O, Thiruvananthapuram – 695 004 Kerala, India.	Nodal Officer Patent Information Centre- Kerala (PIC-Kerala)	Fax: 0471 2540085 E-mail: pic.kscste@kerala.gov.in, patentcentre@gmail.com Website: www.patentcentre.kerala.gov.in.

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Govt. Organizations

District Industries Centre, Trivandrum

Universities

A.P.J.Abdul Kalam Technological University

Cochin University of Science & Technology

Kannur University

Kerala Agricultural University

Kerala Veterinary & Animal Sciences University

National Institute of Technology Calicut

University of Calicut

University of Kerala

Engineering Colleges

Amal Jyothi College of Engineering, Kanjirapally

College of Engineering, Trivandrum

Government Engineering College, Barton Hill, Trivandrum

Government Engineering College, Idukki

Government Engineering College, Kannur

Government Engineering College, Kozhikode

Government Engineering College, Sreekrishnapuram, Palakkad

Government Engineering College, Thrissur

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Government Engineering College, Wayanad

Mar Athanasius College of Engineering, Kothamangalam

NSS College of Engineering, Palakkad

Rajiv Gandhi Institute of Technology, Kottayam

TKM College of Engineering, Kollam

Arts & Science Colleges

Mar Ivanios College (Autonomous), Trivandrum



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