



Education Department  
Government of Gujarat

**Guideline for Implementation of SSIP for Institutions/Colleges**  
**Student Start-up and Innovation Policy**  
**(SSIP)-2017**

**Directorate of Technical Education**

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### **1. Institutionalisation of top level strategy and implementation unit/SSIP Student Innovation and Start up Center/Club.**

- i. Each institute/college should setup a dedicated Institute innovation and start-up center/club chaired by the head of the institute and experts from within and outside college.
- ii. This center/club should be responsible to deploy the broad action plan developed by respective college and its affiliating university in compliance with goals of SSIP.
- iii. Periodic consultation with innovation and start-up ecosystem stakeholders should be done.
- iv. This center/club should conceive and deploy a student centric and student driven innovation and entrepreneurship agenda.
- v. Every quarter the center/club should evaluate the on-going programs and suggest necessary course of action to the implementation team at the college level.
- vi. This center/club can closely work with SSIP cell at the state level, University Innovation and Start-up Council of its affiliating university for optimum benefits of students.
- vii. Enthusiastic faculty members and students should drive the core activities of such entity in college and every year new batch of students can be inducted in the student driven efforts along with experienced seniors.
- viii. Head of the institute/Director/Principal should constantly monitor and motivate the stakeholders associated so that each institute contributes its best towards student innovation and start-up agenda of the state.

### **2. Codification/Gauging existing innovation and start-up efforts in college.**

- i. Each institute should try to analyse its own existing efforts related to student innovation and start-ups, so that the further development strategy could be developed.
- ii. Conduct a survey across its departments to understand which one has already initiated process that can be aligned with SSIP agendas.
- iii. Documenting and sharing existing scenario of innovation and entrepreneurship critical mass among all stakeholders in the college.
- iv. Informal activities and efforts being carried out in the same area needs to be streamlined and promoted by the college.
- v. Measurement of such activities should be carried out as per the indicators given by affiliating university institute evaluation process or broad SSIP Mandate.

### **3. Awareness and outreach to all stakeholders.**

- i. Institute should create a structured outreach and awareness strategy to reach out to every possible stakeholder, primarily students and faculty members.
- ii. Through institute circular, web portal, mailers, newsletters, social media and frequent activities core agendas of SSIP need to be propagated.
- iii. The benefits of SSIP and allied support systems to different stakeholders need to be clearly communicated.
- iv. In the beginning of every academic session institute should do a campaign so that freshly inducted students are made aware about the agendas and available support systems.
- v. Faculty members, Principals, Deans, Directors, Institute Promoters need to be sensitized about student innovation and start-up agenda.
- vi. The outreach strategy should be student centric and periodic so that innovators can benefit at any point and location.
- vii. Through periodic conferences and workshops the head of institute need to inform institute specific efforts to all affiliating stakeholders.
- viii. Institute need to reach out to stakeholders of local and national innovation and start-up ecosystems.

#### **4. Infrastructure to support student Innovators and Start-ups.**

- i. Each institute should develop infrastructure for basic pre incubation and innovation facility at college level.
- ii. As per the mandate of SSIP, Institutes which are potential beneficiaries of SSIP resources should also have a bare minimum infrastructure support for student innovation and entrepreneurship.
- iii. Necessary soft infrastructure and digital tools should be availed at the innovation centre.
- iv. Around 600 square feet of innovation space at institute level can be provided to start with for supporting for student innovation and entrepreneurship.
- v. Institute can pool in some common resources for different branches, streams, domain which can be shared through a common window to benefit students and innovators.

#### **5. Human Resource to execute SSIP mandate at Institute level.**

- I. Each institute should have SSIP coordinator who would be closely working with the office of the head of the institute to develop and deploy strategies at institute level.
- II. College should hire and place some competent human resources who have exposure to innovation and pre incubation processes.
- III. In case of existing human resource competent for the mentioned SSIP agenda, he/she can be given the task to effectively deploy SSIP agenda at grassroots level in college. Institute can depute some of the relevant faculty members with prior exposure and interest to promote innovation and entrepreneurship.
- IV. Periodically some external subject matter experts need to be involved and engaged for strategic advice and guidance.
- V. Student volunteers, interns, research assistants can also be added to the efforts of the concerned Institute Innovation and Start-up Center/cell.

#### **6. Setting Milestones.**

- i. Each institute roadmap should clearly mention how a sustainable innovation, pre incubation and incubation support system need to be developed to achieve time bound goals.
- ii. The action plan should prioritize targets like low cost, medium cost and high cost interventions.
- iii. Each institute should have a tentative target to spin off certain number of patents/IPR and student entrepreneurs in given time frame.
- iv. Measurable goals and Key Performance Indicators (KPIs) should be clearly defined and quantifiable so that impact can be measured and monitored.
- v. The Innovation and Start-up cell/Club should also recommend a list of basic milestones with roadmap to its departments, branches etc.
- vi. The milestone and target should try to cover maximum action points as prescribed in SSIP through institute level interventions.

#### **7. Creating innovation pipeline/funnel at institute level.**

- i. Carefully designed efforts need to be carried out to ensure that maximum students at their early stage get exposure to innovation and pre incubation activities.
- ii. Students who show some potential after basic sensitization should be given further support in ideation stage.
- iii. When students/ team of students try to develop proof of concept necessary support system needs to be enabled.

- iv. Innovators whose prototype gets validated need to be integrated towards structured pre incubation program.
- v. All above efforts need to be carried out across sectors and departments every academic year so that maximum innovators try to take their proof of concept to next stage. This will strengthen the innovation funnel of the respective college/institute.
- vi. The quality of ideas and innovation will emerge through a strong pipeline of above efforts.
- vii. Necessary support systems resources linkages, access to mentoring and allied services will push more number of ideas to reach to next stage.
- viii. Some necessary academic and university level intervention can rejuvenate the entire innovation funnel.
- ix. On-going academic research, student projects, thesis and other hobby activities will create enough critical mass to add to this innovation pipeline if a structured approach is followed.
- x. Institute should give special emphasis to establish this innovation pipeline in sustainable manner so that in every academic cycle some good innovations complete the trajectory of mind to market.

#### **8. Creating strategy for Institute Innovation and Start-up Ecosystem Development.**

- i. Each institute should clearly locate key stakeholders who can add value to its action agenda related to SSIP and help in efforts to promote innovation and entrepreneurship in the campus.
- ii. Rather than only events and activities college should have a clear end to end innovation ecosystem design approach.
- iii. While developing the ecosystem all key 3 players: Industry, Academia and Governance; need to be closely integrated.
- iv. Nearby industry chambers, clusters, civil society organizations, research institutes, start-up ecosystems enablers need to be engaged through different process in the value chain.
- v. College should try to engage most of its departments, batch of students in this process so that key efforts are attempted year on year.
- vi. Involving different components of the proposed ecosystem as mentioned in SSIP the college has to develop various processes to engage to integrate all efforts towards meaningful outcomes.

#### **9. Design of Innovation and Student Start-up Support System ( DiS4).**

- i. Each institute should create mechanism and institutional processes to fulfil the need of student innovators at local level.
- ii. This innovation and student start-up support system may have some pedagogy and co-curricular component.
- iii. Some efforts related to above need can also be designed through community lead interventions.
- iv. The institutional mechanism at college level for the above need to be designed in such a manner so that it can be scaled up to all years reaching out to all students from 1st year till final year and even alumni.
- v. Processes and support system in this should be low cost but with maximum outreach potential.
- vi. Lookout for similar efforts for innovation and student start-up support system which have been attempted by different colleges and universities in academic environment.
- vii. Each college should also explore to draw insights from its affiliating University, start-up ecosystems from within and outside the country.

## 10. Benchmarking and best practice deployment.

- i. Quarterly institute should fetch, analyse and interpret the on-going efforts in the campus.
- ii. A common set of benchmarking indicators need to be put in place and college should create awareness about them across all stakeholders including faculty members and students.
- iii. Institute should scout contextual best practices in innovation and pre incubation domain from academia so that they can be experimented within it.
- iv. Institute authority can take help of SSIP cell at state level and respective University Innovation and Start-up Council/Center to achieve the above goal.
- v. During annual institution evaluation process for affiliating institutes, the university will carefully integrate indicators in this segment so that colleges can take them in priority. Concerned institutes should make special plan so that they can achieve the goals and score high in benchmarking process too.
- vi. Annual impact report of each institution will be fetched from each affiliated college by respective affiliating university. Colleges should actively participate in such endeavours and highlights its efforts and achievements.

## 11. Resource mobilisation for supporting innovation and start-up efforts.

- i. After the format of SSIP grant disbursement is released institutes can apply to that.
- ii. Institute should year-mark some internal resources including financial and infrastructural support to add to the SSIP resources by the state.
- iii. Institute should approach to industry and other organizations to avail CSR and other such resources.
- iv. Institute should apply for further grants through different innovation and entrepreneurship schemes availed by State and Central agencies.
- v. Institute should also create some of the flagship programs through which resources can be mobilized by participants and sponsors.
- vi. Resources can be also mobilized through alumni networks.
- vii. Institute can apply to some private and public grant agencies which focus to support innovation and start-up activities in India.
- viii. Existing infrastructural resources, lab facilities, common resources can be availed for student innovation and start-ups
- ix. Competent and expert human resources from within the Institute or from outside need to be mapped and engaged so that student innovators can access them through single window facility at college level too.
- x. Institute should explore to avail and access resources from local ecosystems and communities periodically.
- xi. Institute should create a knowledge network involving industry, academia, expert organization, facilitators and enablers who can be leveraged periodically.

## 12. Leveraging SSIP resources.

- i. Develop application proposal for availing the grant of SSIP.
- ii. Coordinate with SSIP cell at state level to avail common resource facilities.
- iii. Institute should coordinate with SSIP cell and respective university start-up and innovation center/council to have access to knowledge partners and resource organizations at state and national level through SSIP.

- iv. Periodically with the help of the affiliating university innovation and start-up council and state SSIP Cell institute can co-design programs to build capacity of its stakeholders with input and guidance from SSIP cell.
- v. Through the different state level expert committee under SSIP and similar resources from university ecosystems, each institute can fetch insights and guidance to implement SSIP mandates in its own campus.
- vi. SSIP cell at state level will do periodic programs by inviting experts and policymakers to provide exposure and further guidance to all academic institutes in the state.

### **13. Institutionalisation and sustainability of initiatives.**

- i. Each institute should make efforts at the highest level so that grassroots activities and interventions get institutionalized in the system.
- ii. Special unit/cell/ department or such functional entities need to be dedicatedly established under the leadership of the head of the institute to deploy SSIP goals.
- iii. Institute should create annual budget plan to achieve the target in time bound manner.
- iv. Validated experiments in pilot level from other academic systems need to be scaled up in own system to reach out to maximum student innovators and start-ups.
- v. Within 2-3 years of such activities each institute should be able to establish a robust innovation and pre incubation process.
- vi. In next 5 years each university should target to setup a dedicated incubation facility in its domain. At least 200 colleges/institutes should have a dedicated and robust pre incubation system to leverage such benefits.
- vii. Each college in state should make effort to ensure that most of its departments, branches, domain area kick-start basic activities related to student innovations.

### **14. Efforts to better Innovation, Creativity and Entrepreneurship (ICE) index.**

- i. SSIP policy mandates to do certain bare minimum activities across all universities and affiliated institutes.
- ii. SSIP will create benchmarking indicators to measure initiatives and impacts related to efforts in Innovation, Creativity and Entrepreneurship every year to gauge the current level of efforts.
- iii. University will make special effort to sensitize about this agenda across all its affiliated colleges. Each Institute will make special effort to see that it achieve key goals as expected to fulfil through these benchmarks/indicators.
- iv. If institute needs any further support to initiate activities to fulfil such indicators they can reach out to SSIP expert committees and respective University.
- v. Pedagogic and other necessary changes need to be embraced within the university system to improve the ICE index every year. Each institute have to make efforts to implement such mandates so that its own ICE index improves every year.
- vi. In those parameters majority of the institutions are finding difficult to address special efforts and initiatives will be intervened by respective university and SSIP cell at state level.
- vii. Every department, college, faculty member need to be sensitized about the clear goals so that optimum output can be achieved as desired by SSIP.

### **15. Incentive design for stakeholders in Innovation Process.**

- i. Institute and affiliating University should develop and deploy various incentive structures to make its innovation and entrepreneurship ecosystem vibrant.

- ii. Academic and non-academic incentives to promote student innovation and entrepreneurship need to be designed.
- iii. Quite often non-monetary incentives like appreciation, awards, citations trigger more creativity and innovation.
- iv. Universities will establish awards, appreciations, citations and/or such incentives to acknowledge best efforts of all stakeholders and inspire them. Each institute should actively take part in all of these and motivate young students to leverage them.
- v. Institutes can develop its own incentives to appreciate and motivate all stakeholders associated with its innovation and entrepreneurship ecosystem.
- vi. Universities will take necessary measures to appreciate institutes which are doing serious efforts at campus or college level. Respective institute should plan systematically so that its students become major beneficiary.
- vii. University inspection process and similar benchmarking methods will encompass efforts done by institutes as mandated by SSIP. This should motivate more and more institute to come forward to take bold steps to promote student innovation and start-ups.
- viii. Institute should incentivize external experts and such stakeholders so that they can meaningfully engage and contribute to the agenda.

#### **16. Activity and Innovation process design at institute level.**

- i. Each University Innovation and Start-up council will design a set of activities and recommend them to constituent colleges and university cell. Each Institute should also develop its own set of efforts to add to them and create own innovation ecosystem at respective campuses.
- ii. SSIP cell at state level will also recommend a toolkit and a set of activities which each university should try to deploy.
- iii. Each institute should facilitate some process to enable and help students at ideation, proof of concept, prototype and next stages of innovation value chain.
- iv. Each institute Innovation and Start-up Center/Club should create an annual calendar of activities and engage stakeholders.
- v. Colleges should co-design various innovation and start-up activities involving subjects and local start-up ecosystem enablers.

#### **17. Pedagogic and academic interventions to achieve SSIP Goals.**

- i. As per the mandate of SSIP, Universities should embrace necessary pedagogic and academic changes to promote innovation and pre incubation activities. Each Institute should carefully implement those interventions to benefit its students.
- ii. The SSIP state level committees on pedagogic recommendation will draw action agenda for universities and colleges. Each university and institute should make best possible effort to implement them.
- iii. Academic council and such bodies in universities will take into account about recommendations of SSIP policies and develop university policy frameworks. Institutes should actively take part in such deliberation in shaping such policies and also effectively deploying them.
- iv. Head of the institute and competent advisory committee should review all such efforts after each cycle of academic year and suggest necessary course of actions at institute level and also share insights with respective universities and SSIP Cell at State level.
- v. Student innovators, start-ups, experts need to be engaged in the dialogue process while developing the strategy so that it becomes need based.
- vi. Pedagogical changes need to be done to ensure that maximum number of student projects and innovations are based around real life challenges.

### **18. Leverage existing infrastructure, resource and expertise for SSIP efforts.**

- i. Institute should make a list of existing resource, infrastructure, and experts and engage them while deploying SSIP mandate.
- ii. SSIP grants should be utilized for new activities, process experimentation and similar endeavours.
- iii. Existing resource, tool, labs and other academic facilities could be flexibly availed to interested student innovators and start-ups beyond regular class hours.
- iv. Map expertise available among faculty members, local industry experts and other ecosystem stakeholders and leverage them time to time.

### **19. Inculcating innovation and student start-ups as a key activity of institute strategy.**

- i. Institutes should aim to create mechanism which will enable minimum 1% of its graduates to be either self-employed or job creators.
- ii. Placement, employability and entrepreneurship should go hand in hand so that suitable students can benefit from the respective facility.
- iii. University policy makers at the highest level should drive this agenda and highlight it in key university occasions like conferences, convocations, annual celebrations and similar occasions to highlight its relevance. Each affiliating institute should also carry forward the spirit to execution level so that true impact of the SSIP policy is attained.
- iv. Institutes should map its core competencies and blend the innovation and start-up strategy around it.

### **20. Capacity building of stakeholders.**

- i. Each constituent college should have an SSIP coordinator who will be responsible for executing university mandates.
- ii. The SSIP coordinator of each institute should create an annual action plan of capacity building of own college with support from respective University and other stakeholders from local innovation and start-up ecosystem.
- iii. University and SSIP Cell at State level will create a micro toolkit to build capacity of departments and colleges based on SSIP toolkit.
- iv. External experts and ecosystem enablers having deep knowledge should be involved periodically.
- v. University Innovation and Start-up cell will organize meet-ups and training programs for all stakeholders in every 6 months. Each institute should take maximum benefit from all such avenues.
- vi. SSIP cell at state level will provide necessary toolkits, manuals, reference materials, case studies and insightful documents which will broaden the understanding and execution ability of each university and college.

### **21. Inclusion, access and affordable strategy to benefit maximum student innovators.**

- i. University should ensure that maximum of its constituent colleges take part in SSIP efforts and each Institute should make strong efforts to take leadership while promoting innovation and start-ups.
- ii. Institutes should create strategy to ensure that students irrespective of locations, sectors and year of study can take part through various activities at different level.
- iii. Regional/Distributed innovation and entrepreneurship centres need to be established by universities if the affiliated type university is present in multiple geographical areas. In such case nearby institutes should take maximum benefits from such common resource facilities in that region and link more and more of its student innovators and start-ups so that they can benefit from these initiatives.
- iv. Single point access mechanism has to be created at institute level so that the ease of accessing and benefiting from the available support system can be maximized.
- v. Institutes should develop strategy to take SSIP efforts to students of all streams/disciplines and year.

## **22. Collaboration and Co-creation Strategy for each Institute for promoting Innovation.**

- i. Institutes should find potential partners, resource organizations or suitable stakeholders to co-design programs as mentioned in SSIP mandate.
- ii. Institutes may do MOU and other engagement efforts for sustainable long term cooperation with support providing organization.
- iii. Institutes should collaborate with other institutes and universities in case of joint efforts to promote innovation and entrepreneurship in particular sector or geographical location of mutual interest.
- iv. Universities will incentivize diverse departments, multiple institutes and similar functional entities within and outside university to come together to design and deploy joint programs. Each institute should actively take part in such endeavours and leverage those platforms to add value to its innovation ecosystem.
- v. Tie up with best incubators, accelerators, innovation promotion organizations and develop joint initiatives to support student innovators and start-ups.

## **23. Leveraging technological platforms to integrate all efforts related to Innovation and Entrepreneurship.**

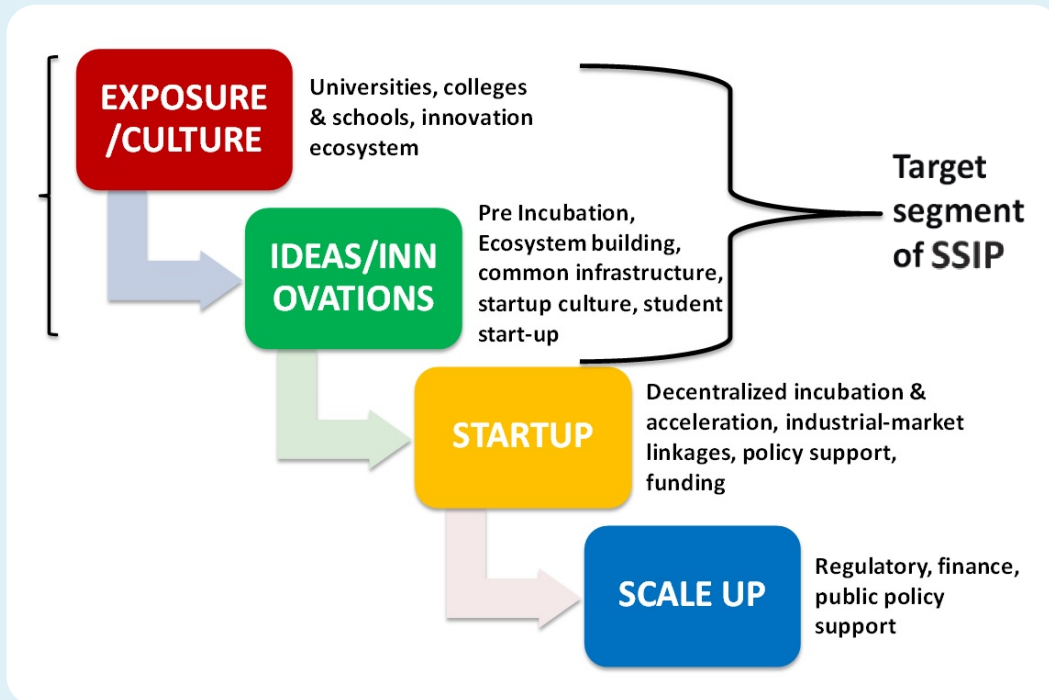
- i. Each university will create a web portal to virtually integrate all the efforts and synchronize them. Institutes should regularly update their efforts through these platforms. Colleges should update their efforts and initiatives through their own web platforms so that all stakeholders are updated and engaged virtually.
- ii. Collaboration tool and digital platforms are desirable to be developed by the university to facilitate innovation and entrepreneurship. Institutes may go ahead in deploying such tools at its own portal and develop its own to engage its own students in various activities and track the impact.
- iii. Widely use social media and similar broadcasting tools to share and celebrate success and progress.
- iv. Create virtual repository of all student innovations/ project/thesis and allied research work so that best of them can be supported through innovation and pre incubation support facility of SSIP.
- v. ICT enabled knowledge management tools need to be developed by universities and colleges to integrate all efforts end to end and optimally harness creative potential of young minds.
- vi. Actively engage with SSIP cell at state level through SSIP portal so that various benefits can be directly linked to student innovators and start-ups at respective college level. This will help each stakeholder stay connected and engaged. This will also create lateral learning opportunity so that colleges can learn from best practices from each other and grow further.

## **24. Codification, documentation and dissemination of SSIP efforts at Institute level.**

- i. Each institute should try to analyse its own existing efforts related to student innovation and start-ups, so that the further development strategy could be developed.
- ii. Documenting and sharing existing scenario of innovation and entrepreneurship critical mass among all stakeholders within the college will help further. Such reports can also be shared with respective university and SSIP cell at State level.
- iii. Informal activities and efforts being carried out to promote innovation and entrepreneurship needs to be streamlined and promoted by the institute.
- iv. Measurement of SSIP mandated activities will be carried out by introducing new indicators in on-going institute evaluation process by concerned university and each institute should actively take part in it and share its learning.
- v. Reports and insights at each institute level while promoting innovation and start-ups should be developed and shared with all associated stakeholders periodically.

Please note that faculty suggested projects should not be taken up. Faculties should encourage Students to exercise their own creativity and independent thinking. Any existing Ideas/projects shall not be eligible for inclusion as part of the policy and the SSIP coordinators should withhold all the temptation to do so.

### SSIP Support System



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**Institute/College Application Format**  
for  
Student Startup and Innovation Policy  
**(SSIP 2017)**

## 1 Institute Basic Information

### 1.1 Institutional Identity

- (A) Name of the Institute:
- (B) Type of Institute (Govt./ Private/ Grant-in-Aid):
- (C) Year of Starting of Institute:
- (D) Total Number of Departments in the Institute:
- (E) Total Number of Enrolled Students:

### 1.2 Correspondence and Contact Details of the Institute

- (A) Correspondence Address of the Institute:
- (B) Phone Number:
- (C) Fax Number:
- (D) E-mail Id:

### 1.3 Details of Director/Principal of the Institute

Sr.	Name	Mobile Number	E-mail Id
1			

### 1.4 Details of SSIP Coordinator

Sr.	Name	Designation	Mobile Number	E-mail Id
1				

## 2 Present Scenario of Innovation and Startup Activities/Preparedness

### 2.1 Details of Programmes Offered in Academic Year 2015-16

Sr.	Students Affiliated to Institute						Faculty Members				
	Diploma	UG	PG	Ph.D	Certificate Course	Total	Lecturer	Asst. Prof.	Asso. Prof.	Prof.	Principal
1											

### 2.2 Facilities Available for Innovation Pre-incubation Support (claims will be verified during evaluation)

Sr.	Details	Yes/No
1	Research/Innovation/Incubation/Pre-incubation Centre Available	<input type="checkbox"/> Yes / <input type="checkbox"/> No
2	Meeting Room for Innovators and Startups, Seminar Computer Centre with Independent High-Speed Dedicated Internet Facility	<input type="checkbox"/> Yes / <input type="checkbox"/> No
3	Library/Reading Room/Soft Digital Infrastructure	<input type="checkbox"/> Yes / <input type="checkbox"/> No
4	Area of minimum 600 Square Feet dedicated for Innovation and Entrepreneurship Activities	<input type="checkbox"/> Yes / <input type="checkbox"/> No
5	Dedicated Supporting Staff for Startup/Incubation/Pre-incubation Activity/Centre	<input type="checkbox"/> Yes / <input type="checkbox"/> No
6	Collaboration with Expert Individual and Organization to Promote Innovation and Entrepreneurship	<input type="checkbox"/> Yes / <input type="checkbox"/> No
7	Access to Institute Labs/Workshops and Research Infrastructure to Student Innovators and Startups	<input type="checkbox"/> Yes / <input type="checkbox"/> No

### 2.3 Active Student Participation in Innovation and Entrepreneurial Activities

(claims will be verified during evaluation)

Sr.	Interventions	Numbers
1	Projects/research work converted into an innovation/solution	
2	Students participating in Conferences/Symposiums/Workshops in Innovation and Entrepreneurship	
3	Students participating in Boot-camps/Hackathons/ Hands on Activities/Problem Solving Efforts	
4	Students participating in exposure programs like Innovation/ Startup Exhibitions/Award Functions	
5	Students participating in Product Design, Design Thinking, Immersion Programs in Innovation	
6	Startup Internship, Research in Innovation and Entrepreneurship, Students participating with Innovators and Startups through various Engagement programs	
7	Students Participating in Skill Development Programs related to Innovation and Entrepreneurship	
8	Students Startups/Alumni Startups coming out of the Institute	

**2.4 Major Noteworthy Efforts to promote Innovation and Student Startups.**

*(Please Mention at least 5 initiatives within 1000 words)*

Sr.	Initiative
1	
2	
3	
4	
5	

**2.5 Major Achievements and Impacts by now in Innovation and Entrepreneurship.**

*(Please Mention at least 5 initiatives within 500 words)*

Sr.	Achievements and Impacts
1	
2	
3	
4	
5	

**2.6 Internal Support System at Different Stage of Innovation**

Sr.	Need	Figure	Intervention being taken
1	Outreach/Sensitization/ Culture Development		
2	Support at Idea generation stage		
3	Support for IPR awareness and Patent Filing		
4	Support for Proof of Concept (PoC)		
5	Support for access to existing R and D infrastructure		
6	Exposure to Innovators and Student Startups		
7	Collaboration and tie-up with external expert/organizations		
8	Capacity building of stake holders		

## 2.8 Outstanding efforts in the field of Research by the Institute in past three years

Sr.	Type of Student's Project Work	2014-15	2015-16	2016-17	Total
1	Ongoing/Completed Funded Research Projects				
2	Research Publications in Peer Reviewed Journals				
3	Students' Research Publications				
4	Faculty Research Publications				
5	Patents filed				
6	Conferences/Workshops/Seminars/Conducted				
7	Amount Spent on Innovation and Entrepreneurship Agenda				
8	Consultancy Projects Received				
9	Internal Revenue Generation (IRG), Rs. In Lakhs				
					<i>(Last 3 Years)</i>

## 2.9 Project Work

Sr.	Type of Student's Project Work	2014-15	2015-16	2016-17	Total
1	Minor Research / Academic Projects (UG/Diploma Level)				
2	Major Research / Academic Projects (PG Level)				
3	Research Scholars (PhD Level)				
4	Registered Student / Alumni Entrepreneurs				
5	Commercialized Student's Project / Innovation				
					<i>(Last 3 Years)</i>

### 3 Core Capabilities to Host SSIP Activities at Institute

Sr.	Area	Capabilities
1	Competent Human Resource to Operationalize SSIP action agenda	
2	Available Infrastructure for Innovation and Incubation Centre	
3	Core Research/Thrust Areas	
4	Source to tap new Innovation	
5	Locational Advantage	
6	Proven track record to promote innovation and entrepreneurship	
7	University's own budget to promote innovation and entrepreneurship	

#### 4 Roadmap of the Institute to Promote SSIP Agenda

##### 4.1 Plans to create Innovation Pipeline for the future

*(Please Mention at least 3 initiatives within 500 words)*

Sr.	Initiatives
1.	
2.	
3.	

##### 4.2 Three Year Action Plan to Support Student Innovation And Startups

Sr.	Milestone	2017-18	2018-19	2019-20
1	Total Number of Students to be Outreached and Sensitized			
2	Total Number of Innovative Student Projects to be Supported			
3	Total Number Innovations to be Supported at PoC Stage			
4	Total Number of Patents to be Filed			
5	Total Number of Student Start-ups to be Supported			
	through interventions like:			
	1. Incubation space and facilities			
	2. Seed Funding			
	3. Prototyping grant			
	4. Faculty/ alumni/Expert/mentoring			
6	Total Number of Workshops/Conferences/Seminars/Capacity Building Programs in SSIP Agenda (attach detail)			

##### 4.3 Key initiative to achieve the above *(Please Mention at least 10 initiatives within 500 words)*

Sr.	Initiatives
1.	
2.	
3.	
4.	
5.	
6.	
7.	
8.	
9.	
10.	

### 4.3 Budget

Sr.	Component	Year – 1	Year – 2	Year – 3	Total
1	Institute Contribution				
2	SSIP Grant				
3	Other Sources				

### 4.4 Proposed budget plan through SSIP Grant

Sr.	Component	Year – 1	Year – 2	Year – 3	Total
1	Developing Institute innovation and startup council/ecosystem				
2	Developing pre-incubation process				
3	Co-working space/ Pre-incubation facility/ Common Innovation Centre				
4	Activity/Workshop/ Conference/Capacity Building/ Awareness Program				
5	Awards/Recognition/Exposure				
6	Technology Platforms/ICT portals				
7	Virtual Incubation/ Mentoring and allied support				
8	Proof of Concept (PoC) and Prototyping support				
9	Patent Filing support				
10	Tinkering Lab/FabLab/ Basic prototyping facility				
11	Pedagogical Interventions/ Courses/New Programs on Innovation and Entrepreneurship				
12	Special Initiatives to promote student startups and innovations				
13	Documentation/Publication/ Dissemination				



## Chronology of Activities

Date	Event
May 4, 2017	SSIP coordinator Induction Program at State level.
May 1, 2017	Hon. Education Minister launched SSIP Summer Innovation Challenge.
April 10, 2017	Hon. Education Minister appreciated Hackathon winning teams from Gujarat at Sachivalaya.
April 1, 2017	Hon. Education Minister launched Smart Indian Hackathon 2017 in Ahmadabad.
March 3, 2017	SSIP Project got award at national level.
February 14, 2017	Principal Secretary, Higher and Technical Education gave away Pedagogical Innovation Awards.
February 8, 2017	SSIP Workshop at State level to develop Roadmap to deploy the key agenda involving Vcs, Ecosystem stakeholders and others.
January 21, 2017	Round table with Gujarat Start-up Ecosystem stakeholders to further SSIP agenda deployment at GIDM chaired by Principal Secretary, HE and TE.
January 8, 2017	Release of the SSIP Policy by Hon. CM, Shri Vijay Rupani.
November 23, 2016	The draft of the policy was presented to Hon'ble Minister of Education and the Minister gave his in-principle approval to the policy.
November 11, 2016	The third meeting of the committee was organised and a draft of the policy was approved.
October 28, 2016	Hon. Education Minister launched, Largest Student Start-up Literacy MOOC program at Sachivalaya.
October 3, 2016	In the second meeting of the Committee, the first draft of the Student Startup and Innovation Policy was discussed and it was decided to incorporate all inputs of the committee members.
September 28, 2016	The Committee met for the first time under the chairmanship of Principal Secretary (Higher and Technical Education) and a drafting sub-committee was appointed.
September 22, 2016	An office order constituting a committee to develop a framework / policy was issued by Commissionerate of Technical Education.
September 19, 2016	Hon. Minister approves formation of a committee to draft a framework / policy for supporting start-ups, innovation and entrepreneurship in educational campuses.
August 19, 2016	Hon. Education Minister Inaugurated Antracon 2016.
May 10, 2016	Principal Secretary (Higher and Technical Education) issued a letter to all universities asking Vcs to support start-ups, entrepreneurs and innovators at university campuses.
April 12, 2016	Hon. Minister of Education chaired a high-level meeting of education department to finalise the roadmap for support start-ups, innovations and entrepreneurs within universities of Gujarat.
February, 2016	Hon Education Minister Inaugurated GUSEC.
February 1, 2016	Hon. Minister of Education chaired a meeting of Young Entrepreneurs at Swarnim Sankul to discuss challenges faced by young start-ups, innovators and entrepreneurs in Gujarat.
September 26, 2015	Hon. Minister of Education launched the Start-up Gujarat, Stand-up Gujarat movement at LJ Knowledge Campus, Ahmadabad.
September 3, 2015	Hon. Minister of Education chaired a meeting of start-up ecosystem stakeholders such as investors, incubators, start-ups, accelerators, universities, academicians and government officials.
August 21, 2015	Hon. Minister of Education chaired a meeting of Vice-Chancellors of all universities of the state at Gujarat University to discuss the role of universities in supporting start-ups and innovations.

### Startup and Innovation Related Massive Open Online Course(MOOC) Programs

Sr No	Name of the Course	University/ Course Creator	Website	Link	Details
1	Entrepreneurship and Innovation (Canvas net)	FLITE	Canvas Network	<a href="https://www.mooc-list.com/course/entrepreneurship-and-innovation-canvas-net">https://www.mooc-list.com/course/entrepreneurship-and-innovation-canvas-net</a>	Learn about entrepreneurship, working at your own pace, over a 5-week period, in around 30 hours of effort. Working individually, you will produce a business plan to form a start-up company using the Osterwalder Canvas, and you will have the opportunity to share, discuss and get feedback from fellow students on the course.
2	Entrepreneurship 103: Show Me The Money (edX)	MIT	EdX	<a href="https://www.mooc-list.com/course/entrepreneurship-and-innovation-canvas-net">https://www.mooc-list.com/course/entrepreneurship-and-innovation-canvas-net</a>	Create a profitable innovation by learning how to design a business model, price your product and create a successful sales process. Entrepreneurship 103 prepares you for the MIT Global Entrepreneurship Bootcamp!
3	Cracking the Creativity Code: Discovering Ideas (Coursera)	Technion - Israel Institute of Technology	Coursera	<a href="https://www.mooc-list.com/course/cracking-creativity-code-discovering-ideas-coursera">https://www.mooc-list.com/course/cracking-creativity-code-discovering-ideas-coursera</a>	Skill at discovering new ideas, and delivering them, may be one of the most important practical job skills, in today's and tomorrow's job market. Creativity is an acquired skill, one that improves with practice. This course aims to empower individuals who believe they have lost their innate creativity, because they, their employers or teachers prefer the three R's: replication, repetition and rote, to innovation. We show how to re-ignite rusty creative powers.
4	Innovation & Entrepreneurship From Design Thinking to Funding (Coursera)	EIT Digital	Coursera	<a href="https://www.mooc-list.com/course/innovation-entrepreneurship-design-thinking-funding-coursera">https://www.mooc-list.com/course/innovation-entrepreneurship-design-thinking-funding-coursera</a>	This Innovation and Entrepreneurship course focuses on the interconnection between entrepreneurial thinking and innovation. Specifically, we look at models used in Silicon Valley to grow both start-up companies as well as innovation inside large organizations. Bringing together top Haas School of Business, UC Berkeley faculty, this course addresses critical areas for successful growth, including design thinking, open innovation, business models, product-market fit, and financing.
5	Creative Problem Solving (Coursera)	University of Minnesota	Coursera	<a href="https://www.mooc-list.com/course/creative-problem-solving-coursera">https://www.mooc-list.com/course/creative-problem-solving-coursera</a>	This course deals directly with your ability for creativity which is a critical skill in any field. It focuses on divergent thinking, the ability to develop multiple ideas and concepts to solve problems. Through a series of creativity building exercises, short lectures, and readings, learners develop both an understanding of creativity and increase their own ability.

### Startup and Innovation Related Massive Open Online Course(MOOC) Programs

Sr No	Name of the Course	University/ Course Creator	Website	Link	Details
6	Strategic Innovation: Innovation at the Frontier: An Exploration of Cutting-Edge Topics (Coursera)	University of Illinois at Urbana-Champaign	Coursera	<a href="https://www.mooc-list.com/course/strategic-innovation-innovation-frontier-exploration-cutting-edge-topics-coursera">https://www.mooc-list.com/course/strategic-innovation-innovation-frontier-exploration-cutting-edge-topics-coursera</a>	In his influential book, The Innovator's Dilemma, Professor Clayton Christensen, introduced the term disruption to the popular lexicon. Disruption refers to the failure of well-managed firms to succeed when faced with technological change associated with disruptive technologies, i.e. technologies that are inferior in the beginning but get better soon enough to precipitate the failure of entrenched firms.
7	Innovation: the World's Greatest (FutureLearn)	University of Leeds	FutureLearn	<a href="https://www.mooc-list.com/course/innovation-worlds-greatest-futurelearn">https://www.mooc-list.com/course/innovation-worlds-greatest-futurelearn</a>	Understand what innovation means and consider the history and developments of innovations that are important in our daily lives. This course is just one of a series about 'innovation'.
8	Entrepreneurship	IIM Bangalore	EdX	<a href="https://www.edx.org/micromasters/iimb-entrepreneurship">https://www.edx.org/micromasters/iimb-entrepreneurship</a>	Learn how to become a successful entrepreneur and gain the skills needed to develop, organize and manage your own business.
9	Entrepreneurship: DO Your Venture	IIM Bangalore	EdX	<a href="https://www.edx.org/course/entrepreneurship-do-venture-iimb-ep101x-0">https://www.edx.org/course/entrepreneurship-do-venture-iimb-ep101x-0</a>	Learn a systematic, scientific and iterative process for identifying, evaluating and testing entrepreneurial opportunities.
10	Innovation and IT Management	IIM Bangalore	EdX	<a href="https://www.edx.org/course/innovation-it-management-iimb-is110x-1">https://www.edx.org/course/innovation-it-management-iimb-is110x-1</a>	Learn key decision-making skills to better manage and implement IT and innovation in your workplace.
11	Supply chain innovation: How technology can create a sustainable future (FutureLearn)	University of Twente	FutureLearn	<a href="https://www.mooc-list.com/course/supply-chain-innovation-how-technology-can-create-sustainable-future-futurelearn">https://www.mooc-list.com/course/supply-chain-innovation-how-technology-can-create-sustainable-future-futurelearn</a>	Understand how new technologies can make supply chains more sustainable and learn how to deal with today's trends.

### Startup and Innovation Related Massive Open Online Course(MOOC) Programs

Sr No	Name of the Course	University/ Course Creator	Website	Link	Details
12	Innovation: the Fashion Industry (FutureLearn)	University of Leeds	FutureLearn	<a href="https://www.mooc-list.com/course/innovation-fashion-industry-futurelearn">https://www.mooc-list.com/course/innovation-fashion-industry-futurelearn</a>	Understand how big fashion retailers innovate and discover the story behind a favourite piece of your clothing. The course introduces a case study showing how Marks & Spencer has been a key innovator in fashion, introducing new fabrics that make our lives easier and more comfortable.
13	Creativity, Innovation, and Change (Coursera)	Pennsylvania State University	Coursera	<a href="https://www.mooc-list.com/course/creativity-innovation-and-change-coursera">https://www.mooc-list.com/course/creativity-innovation-and-change-coursera</a>	Let's keep making history together - over and over! In 2013 and 2014, over 200,000 people from more than 190 countries came together in this MOOC to explore creativity, innovation, and change. What did we DO? We discovered creative uniqueness through Creative Diversity. We used Intelligent Fast Failure to build innovative skills. We applied CENTER principles to drive personal change. And we implemented value creation skills to initiate lasting change.
14	Innovation: the Food Industry (FutureLearn)	University of Leeds	FutureLearn	<a href="https://www.mooc-list.com/course/innovation-food-industry-futurelearn">https://www.mooc-list.com/course/innovation-food-industry-futurelearn</a>	Learn how innovation has changed the food industry and the way we shop, and think about the global issue of food waste. This course considers the ways in which the food industry has evolved over the past 70 years and has created the industry of convenience we have today.
15	Innovation for Powerful Outcomes (Open2Study)	Swinburne University of Technology	Open2Study	<a href="https://www.mooc-list.com/course/innovation-powerful-outcomes-open2study">https://www.mooc-list.com/course/innovation-powerful-outcomes-open2study</a>	Acquire the ability to help make innovation happen, using a rich mix of practical approaches & robust concepts. Innovation involves transformative thinking and the genuine ability to cultivate and pick the lucrative fruits of our creative labour. In this subject, you will develop an appreciation for a range of tools and concepts that can help make innovation happen. This subject will feature original content and fresh thinking. It contains a stimulating mix of creative experiments, intriguing innovation examples, practical tools and robust concepts. These will help you induce creativity, gain deep customer insights, and develop an appreciation for creating a compelling innovation strategy.
16	HI-FIVE: Health Informatics For Innovation, Value & Enrichment (Administrative/IT Perspective) (Coursera)	Columbia University	Coursera	<a href="https://www.mooc-list.com/course/hi-five-health-informatics-innovation-value-enrichment-administrativeit-perspective-coursera">https://www.mooc-list.com/course/hi-five-health-informatics-innovation-value-enrichment-administrativeit-perspective-coursera</a>	HI-FIVE (Health Informatics For Innovation, Value & Enrichment) Training is an approximately 10-hour online course designed by Columbia University in 2016, with sponsorship from the Office of the National Coordinator for Health Information Technology (ONC). The training is role-based and uses case scenarios.

### Startup and Innovation Related Massive Open Online Course(MOOC) Programs

Sr No	Name of the Course	University/ Course Creator	Website	Link	Details
17	Developing Innovative Ideas for New Companies: The First Step in Entrepreneurship (Coursera)	University of Maryland, College Park	Coursera	<a href="https://www.mooc-list.com/course/developing-innovative-ideas-new-companies-first-step-entrepreneurship-coursera">https://www.mooc-list.com/course/developing-innovative-ideas-new-companies-first-step-entrepreneurship-coursera</a>	This course assists aspiring and active entrepreneurs in developing great ideas into great companies. With strong economies presenting rich opportunities for new venture creation, and challenging economic times presenting the necessity for many to make their own job, the need to develop the skills to develop and act on innovative business opportunities is increasingly vital.
18	Creating Innovation (Coursera)	Macquarie University		<a href="https://www.mooc-list.com/course/creating-innovation-coursera">https://www.mooc-list.com/course/creating-innovation-coursera</a>	BIG HISTORY – SOLVING COMPLEX PROBLEMS will teach you revolutionary new problem-solving skills. Involving lectures from over 50 experts from all faculties at Macquarie University, we look at solving complex problems in a way that has never been done before. CREATING INNOVATION will teach you what is at the core of all the innovations we develop to solve complex problems and how to foster methods and a healthy environment to make big breakthroughs possible.
19	Healthcare Innovation and Entrepreneurship (Coursera)	Duke University		<a href="https://www.mooc-list.com/course/healthcare-innovation-and-entrepreneurship-coursera">https://www.mooc-list.com/course/healthcare-innovation-and-entrepreneurship-coursera</a>	This interdisciplinary course focuses on sustainable innovation, introducing entrepreneurial students to the realities of problem identification and solution design within the complex world of healthcare.
20	Strategic Innovation: Building and Sustaining Innovative Organizations (Coursera)	University of Illinois at Urbana-Champaign		<a href="https://www.mooc-list.com/course/strategic-innovation-building-and-sustaining-innovative-organizations-coursera">https://www.mooc-list.com/course/strategic-innovation-building-and-sustaining-innovative-organizations-coursera</a>	Innovation strategy is about creating unique value for consumers by delivering a great product that satisfies their needs and capturing value back from consumers.
21	Business Model Canvas: A Tool for Entrepreneurs and Innovators (Project-Centered Course) (Coursera)	University System of Georgia		<a href="https://www.mooc-list.com/course/business-model-canvas-tool-entrepreneurs-and-innovators-project-centered-course-coursera">https://www.mooc-list.com/course/business-model-canvas-tool-entrepreneurs-and-innovators-project-centered-course-coursera</a>	In this project-centered course*, you will use the Business Model Canvas innovation tool to approach either a personal or corporate challenge or opportunity. You'll learn to identify and communicate the nine key elements of a business model: Customer Segments, Value Proposition, Channels, Customer Relationships, Key Resources, Key Activities, Key Partners, Revenue Streams, and Cost Structure.

### Startup and Innovation Related Massive Open Online Course(MOOC) Programs

Sr No	Name of the Course	University/ Course Creator	Website	Link	Details
22	Innovation Management (Coursera)	Erasmus University Rotterdam	Coursera	<a href="https://www.mooc-list.com/course/innovation-management-coursera">https://www.mooc-list.com/course/innovation-management-coursera</a>	What is innovation management? How do firms bring in new business models and get new products and services to the market? Go on a nine-week journey through innovation management concepts, theories of idea generation, selection, strategy formulation and implementation in this MOOC in Innovation Management. In it, you will also learn the tools for implementing innovation projects yourself.
23	The Search for Great Ideas: Harnessing creativity to empower innovation (Coursera)	Michigan State University	Coursera	<a href="https://www.mooc-list.com/course/search-great-ideas-harnessing-creativity-empower-innovation-coursera">https://www.mooc-list.com/course/search-great-ideas-harnessing-creativity-empower-innovation-coursera</a>	Where do great business ideas come from? We all have compelling business concepts that we've been thinking about for years. In this course we will explore how to use observational tools and other techniques for idea generation and we will talk about how to evaluate the good ideas from the bad. The goal is to settle on a business idea that you are not only passionate about but also has real market application.
24	Innovation and Design for Global Grand Challenges (Coursera)	Duke University	Coursera	<a href="https://www.mooc-list.com/course/innovation-and-design-global-grand-challenges-coursera">https://www.mooc-list.com/course/innovation-and-design-global-grand-challenges-coursera</a>	The purpose of this course is to introduce you to current global challenges in conservation and development, including changes in both sectors. This course will inspire you to rethink assumptions to address global challenges in conservation and development, and introduce you to new models and approaches that harness technological, behavioral, and financial innovation.
25	From Idea to Startup (Coursera)	Technion - Israel Institute of Technology	Coursera	<a href="https://www.mooc-list.com/course/idea-startup-coursera">https://www.mooc-list.com/course/idea-startup-coursera</a>	How do you implement ideas? This course provides practical proven tools for transforming an idea into a product or service that creates value for others. As students acquire these tools, they learn how to tell bad ideas from good, how to build a winning strategy, how to shape a unique value proposition, prepare a business plan, compare their innovation to existing solutions, build flexibility into their plan and determine when best to quit.
26	Innovating in a Digital World (Coursera)	Institut Mines-Telecom	Coursera	<a href="https://www.mooc-list.com/course/innovating-digital-world-coursera">https://www.mooc-list.com/course/innovating-digital-world-coursera</a>	Facebook, AirBnB, Tesla, Amazon, Uber. In just a few years, companies like these have changed the face of the global economy. Meanwhile, hundreds of thousands of start-ups are disrupting old business models, taking on centennial industrial groups – and winning. It's clear that the rules of business have changed forever. This MOOC provides a knowledge toolkit for the ongoing digital revolution. You'll discover 15 concepts that are essential for understanding the new mechanisms of digital business and innovation.

### Startup and Innovation Related Massive Open Online Course(MOOC) Programs

Sr No	Name of the Course	University/ Course Creator	Website	Link	Details
27	Leading Innovation in Arts and Culture (Coursera)	National Arts Strategies (NAS), Vanderbilt University	Coursera	<a href="https://www.mooc-list.com/course/leading-innovation-arts-and-culture-coursera">https://www.mooc-list.com/course/leading-innovation-arts-and-culture-coursera</a>	Developed by David Owens at Vanderbilt University and customized for the cultural sector with National Arts Strategies, this course will help arts and culture leaders create an environment where new ideas are constantly created, shared, evaluated and the best ones are successfully put to work. One of the toughest challenges for any leader is getting traction for new ideas. Winning support can be a struggle. As a result, powerful new ideas often get stuck. This is especially true in the cultural sector. People involved in arts and culture often have little time and even less money for experimentation and risks. This course will help those in the performing arts, museums, zoos, libraries and other cultural organizations build environments where new management and program ideas flourish.
28	Innovating Instruction: Reimagining Teaching with Technology (edX)	Teachers College, Columbia University	EdX	<a href="https://www.mooc-list.com/course/innovating-instruction-reimagining-teaching-technology-edx">https://www.mooc-list.com/course/innovating-instruction-reimagining-teaching-technology-edx</a>	This interactive MOOC is designed to prepare K-12 educators to integrate technology through the use of a design-based process. How has technology changed the world of education? This course will examine the meaningful integration of technology into classrooms through a design-based process.
29	Entrepreneurship for Engineers (edX)	Delft University of Technology, Wageningen University	EdX	<a href="https://www.mooc-list.com/course/entrepreneurship-engineers-edx">https://www.mooc-list.com/course/entrepreneurship-engineers-edx</a>	A toolbox for building a technology startup from idea to execution. Are you an entrepreneur, or do you have a passion for building your own technology-based venture? This course will help and encourage you to start a successful technology-based venture. If you always wanted to become an entrepreneur, or if you are simply interested in putting a new technology to innovative use, this course is for you.
30	You Can Innovate: User Innovation & Entrepreneurship (edX)	MIT	EdX	<a href="https://www.mooc-list.com/course/you-can-innovate-user-innovation-entrepreneurship-edx">https://www.mooc-list.com/course/you-can-innovate-user-innovation-entrepreneurship-edx</a>	Identify a problem and develop a solution as you learn about the phenomena of user innovation and entrepreneurship.

### Startup and Innovation Related Massive Open Online Course(MOOC) Programs

Sr No	Name of the Course	University/ Course Creator	Website	Link	Details
31	Design Practice in Business (edX)	Delft University of Technology	EdX	<a href="https://www.mooc-list.com/course/design-practice-business-edx">https://www.mooc-list.com/course/design-practice-business-edx</a>	Learn the essentials of design practice for developing new business opportunities and sparking innovation.
32	How to Design a Successful Business Model (edX)	Delft University of Technology	EdX	<a href="https://www.mooc-list.com/course/how-design-successful-business-model-edx">https://www.mooc-list.com/course/how-design-successful-business-model-edx</a>	Learn how to create value for your customers and grow your business by designing a successful and sustainable business model. Do you want to start or grow your own business, go international, or avoid bankruptcy? In this business and management course, you will learn the key steps to take to design or innovate your own business model. You will learn about the trade-offs to be made, and the design issues that are critical for a viable and sustainable business model.
33	Open Innovation (FutureLearn)	Durham University	FutureLearn	<a href="https://www.mooc-list.com/course/open-innovation-futurelearn">https://www.mooc-list.com/course/open-innovation-futurelearn</a>	Find ideas from your suppliers, competitors or customers and develop them for competitive advantage with this free online course. In today's world, the development of new products and services is not confined within one organisation or indeed one country. To succeed, businesses must be willing to work with others, to spot and develop ideas – a model known as open innovation.
34	Entrepreneurs without borders (POK)	Politecnico di Milano	Polimi OPEN KNOWLEDGE	<a href="https://www.mooc-list.com/course/entrepreneurs-without-borders-pok">https://www.mooc-list.com/course/entrepreneurs-without-borders-pok</a>	Introduction to new business development for young people from all over the world. Have you ever thought of starting your own business? Being a job creator instead of a job seeker? Would you like to gather the right people for improving life in your community? For developing and selling a new product or service? This course is addressed to people from anywhere in the world, particularly to students and young graduates who want to learn about new business development and to see if this is something for them. We welcome people from “developing countries”, as well as from industrialized economies.
35	Managing for Innovation (FutureLearn)	University of Leeds	FutureLearn	<a href="https://www.mooc-list.com/course/managing-innovation-futurelearn">https://www.mooc-list.com/course/managing-innovation-futurelearn</a>	Learn how to manage innovation, guided by experts from the leading triple-accredited Leeds University Business School and IBM. Learn how to manage innovation, in this course developed by world-renowned academics in strategy and innovation from the Leeds University Business School and IBM. Understand why organisations need to establish an innovation process and manage innovation systematically.

### Startup and Innovation Related Massive Open Online Course(MOOC) Programs

Sr No	Name of the Course	University/ Course Creator	Website	Link	Details
36	Entrepreneurship in Emerging Economies (edX)	Harvard University	EdX	<a href="https://www.mooc-list.com/course/entrepreneurship-emerging-economies-edx">https://www.mooc-list.com/course/entrepreneurship-emerging-economies-edx</a>	Explore how entrepreneurship and innovation tackle complex social problems in emerging economies. This business and management course takes an interdisciplinary approach to understanding and solving complex social problems. You will learn about prior attempts to address these problems, identify points of opportunity for smart entrepreneurial efforts, and propose and develop your own creative solutions.
37	Boosting a Sense of Initiative and Entrepreneurship in Your Students (European Schoolnet Academy)	European Schoolnet	European Schoolnet Academy	<a href="https://www.mooc-list.com/course/boosting-sense-initiative-and-entrepreneurship-your-students-european-schoolnet-academy">https://www.mooc-list.com/course/boosting-sense-initiative-and-entrepreneurship-your-students-european-schoolnet-academy</a>	This course has been designed with the intention to provide concrete examples for the practical implementation of the Entrepreneurship Competence Framework (EntreComp). Each module consists of several videos, illustrating lesson plans, teaching activities, or possible resources that could enable teachers and educators to foster entrepreneurial skills in their students.
38	Launching Innovation in Schools (edX)	Microsoft, MIT	EdX	<a href="https://www.mooc-list.com/course/launching-innovation-schools-edx">https://www.mooc-list.com/course/launching-innovation-schools-edx</a>	Become a change leader and take the first step in launching instructional improvement initiatives in schools to improve teaching and learning. Every great teacher and every great school constantly work towards creating better learning conditions for students. Just as we hope our students become lifelong learners, we as educators should be constantly learning and improving.
39	Innovation & Entrepreneurship From Basics to Open Innovation (Coursera)	EIT Digital	Coursera		This Innovation and Entrepreneurship course focuses on the interconnection between entrepreneurial thinking and innovation. Specifically, we look at models used in Silicon Valley to grow both start-up companies as well as innovation inside large organizations. Bringing together top Haas School of Business, UC Berkeley faculty, this course addresses critical areas for successful growth, including design thinking, open innovation, business models, product-market fit, and financing. This course will teach you how to think like an entrepreneur and provides the models, tools and frameworks to further develop your business or idea. An emphasis will be placed on the IT space.

### Startup and Innovation Related Massive Open Online Course(MOOC) Programs

Sr No	Name of the Course	University/ Course Creator	Website	Link	Details
40	How to Finance and Grow Your Startup – Without VC (Coursera)	London Business School, University of London	Coursera	<a href="https://www.mooc-list.com/course/how-finance-and-grow-your-startup-%E2%80%93-without-vc-coursera">https://www.mooc-list.com/course/how-finance-and-grow-your-startup-%E2%80%93-without-vc-coursera</a>	If you're an entrepreneur at any stage of your journey, or even an aspiring one, and you need money to start or grow your business, this course is for you. This course will introduce, and help you put to use in your startup, the five models through which your customers can – and will, if you ask them! – fund your business. These five time-tested models have been put to use by entrepreneurial superstars like Michael Dell, Bill Gates, Richard Branson and more. Sadly, though, the five models are rarely talked about and not widely understood. Until now!
41	Entrepreneurship 2: Launching your Start-Up (Coursera)	University of Pennsylvania	Coursera	<a href="https://www.mooc-list.com/course/entrepreneurship-2-launching-your-start-coursera">https://www.mooc-list.com/course/entrepreneurship-2-launching-your-start-coursera</a>	Once you have a prototype and a clearer vision of the opportunity, you'll need to create a small organization to discover how to create a repeatable and scalable business model. Designed to provide you with a comprehensive overview of the critical components of a creating a start-up, Entrepreneurship 2: Launching the Start-up, provides practical, real-world knowledge about the lean approach, the minimum viable product, when to pivot, when to quit your day job, the art of the pitch, building and managing a team, allocating equity, and building your external team, advisory board members, professional services, and entrepreneurial strategy.
42	Building the Business Model for Corporate Entrepreneurs (Coursera)	University of Maryland, College Park	Coursera	<a href="https://www.mooc-list.com/course/building-business-model-corporate-entrepreneurs-coursera">https://www.mooc-list.com/course/building-business-model-corporate-entrepreneurs-coursera</a>	Led by Dan Gordon, a University of Maryland faculty member who teaches business modeling in the National Science Foundation's I-Corps Program, this course enables you to develop and apply the Business Model Canvas tool to scope a corporate challenge or opportunity. You will learn how to identify and communicate the nine elements of a business model: Customer Segments, Value Propositions, Channels, Customer Relationships, Revenue Streams, Key Resources, Key Activities, Key Partners, and Cost Structure.
43	Grow to Greatness: Smart Growth for Private Businesses, Part II (Coursera)	University of Virginia	Coursera	<a href="https://www.mooc-list.com/course/grow-greatness-smart-growth-private-businesses-part-ii-coursera">https://www.mooc-list.com/course/grow-greatness-smart-growth-private-businesses-part-ii-coursera</a>	This course focuses on the common human resource ("people") challenges faced by existing private businesses when they attempt to grow substantially. Part I of the grow to greatness course is not a prerequisite for taking this course.

### Startup and Innovation Related Massive Open Online Course(MOOC) Programs

Sr No	Name of the Course	University/ Course Creator	Website	Link	Details
44	How to Validate your Startup Idea (Coursera)	UNSW Australia (The University of New South Wales)	Coursera	<a href="https://www.mooc-list.com/course/how-validate-your-startup-idea-coursera">https://www.mooc-list.com/course/how-validate-your-startup-idea-coursera</a>	Starting a new business begins with an idea that needs to evolve through experimentation, iteration and interactions with people. This course is for existing and potential entrepreneurs who are looking for guidance and support to make their 'great idea' a reality. In addition to reviewing the basic principles of entrepreneurship, this course guides you through the process of actively validating your idea in the market.
45	Essentials of Entrepreneurship: Thinking & Action (Coursera)	University of California, Irvine	Coursera	<a href="https://www.mooc-list.com/course/essentials-entrepreneurship-thinking-action-coursera">https://www.mooc-list.com/course/essentials-entrepreneurship-thinking-action-coursera</a>	Success in business can be greatly enhanced with an understanding of key entrepreneurial characteristics and competencies solutions. This interactive course provides potential entrepreneurs with the knowledge of succeeding in an entrepreneurial opportunity.
46	Entrepreneurship 4: Financing and Profitability (Coursera)	University of Pennsylvania	Coursera	<a href="https://www.mooc-list.com/course/entrepreneurship-4-financing-and-profitability-coursera">https://www.mooc-list.com/course/entrepreneurship-4-financing-and-profitability-coursera</a>	Start-ups can benefit from a wide variety of financing options on the path to profitability, but how do you know which one to choose? This course explores different financing models, including bootstrapping, organic growth, debt and risk capital, and also provides a clear overview of equity financing including the key types of investors: angels, venture capital, and crowdfunding.
47	Business of Games and Entrepreneurship (Coursera)	Michigan State University	Coursera	<a href="https://www.mooc-list.com/course/business-games-and-entrepreneurship-coursera">https://www.mooc-list.com/course/business-games-and-entrepreneurship-coursera</a>	As well as a form of art and entertainment, games are about business. Whether you want to work at a game studio, start your own business or make games as a hobby, recognizing the dynamic landscape of the videogame industry is critical to finding your place. This course will introduce you to game production, project management, teamwork skills, and how to position your game ideas and yourself in the broader marketplace.
48	Grow to Greatness: Smart Growth for Private Businesses, Part I (Coursera)	University of Virginia	Coursera	<a href="https://www.mooc-list.com/course/grow-greatness-smart-growth-private-businesses-part-i-coursera">https://www.mooc-list.com/course/grow-greatness-smart-growth-private-businesses-part-i-coursera</a>	This course focuses on the common growth challenges faced by existing private businesses when they attempt to grow substantially.

### Startup and Innovation Related Massive Open Online Course(MOOC) Programs

Sr No	Name of the Course	University/ Course Creator	Website	Link	Details
49	Entrepreneurship and Family Business (Open2Study)	RMIT University	Open2Study	<a href="https://www.mooc-list.com/course/entrepreneurship-and-family-business-open2study">https://www.mooc-list.com/course/entrepreneurship-and-family-business-open2study</a>	Discover the tools and techniques that will enable you to succeed in business. The course is divided into 4 modules, 'Who is an Entrepreneur', 'Managing the Entrepreneurial Process', 'Entrepreneurial Enterprises' and 'Family Business'. Each module is designed to explore and expand on key elements, assumptions and processes that are essential to the success of a business. Each module builds on the other, eventually painting an integrated picture of the commercial world, and highlighting the strategies that need to be applied to succeed in that world.
50	What's Your Big Idea? (Coursera)	The University of North Carolina	Coursera	<a href="https://www.mooc-list.com/course/whats-your-big-idea-coursera">https://www.mooc-list.com/course/whats-your-big-idea-coursera</a>	Whether your interest lies in solving the world's biggest problems, creating the next commercial success or addressing something closer to home, this course will give you a toolbox to vet your ideas and test them in the real world.
51	Entrepreneurship 3: Growth Strategies (Coursera)	University of Pennsylvania	Coursera	<a href="https://www.mooc-list.com/course/entrepreneurship-3-growth-strategies-coursera">https://www.mooc-list.com/course/entrepreneurship-3-growth-strategies-coursera</a>	Start-ups are designed to grow quickly, but successful start-ups grow smart. This course is designed to provide you with an understanding of the essential elements of successful scaling, including an overview of demand generation, customer acquisition, adoption, diffusion and forecasting demand. You'll also learn how to market effectively using best practices of digital marketing, social media, PR, SEO, and pricing.
52	Entrepreneurship I: Developing the Opportunity (Coursera)	University of Pennsylvania	Coursera	<a href="https://www.mooc-list.com/course/entrepreneurship-i-developing-opportunity-coursera">https://www.mooc-list.com/course/entrepreneurship-i-developing-opportunity-coursera</a>	How does a good idea become a viable business opportunity? What is entrepreneurship and who fits the profile of an entrepreneur? This introductory course is designed to introduce you to the foundational concepts of entrepreneurship, including the definition of entrepreneurship, the profile of the entrepreneur, the difference between entrepreneurship and entrepreneurial management, and the role of venture creation in society. You'll explore where technology entrepreneurship and impact entrepreneurship align and where they diverge, and you'll learn proven techniques for identifying the opportunity, assessing the opportunity, hypothesis testing and creating a prototype.

### Startup and Innovation Related Massive Open Online Course(MOOC) Programs

Sr No	Name of the Course	University/ Course Creator	Website	Link	Details
53	Technology Commercialization, Part I: Setting up your Idea Filtering System	University of Rochester	Coursera	<a href="https://www.mooc-list.com/course/technology-commercialization-part-1-setting-your-idea-filtering-system-coursera">https://www.mooc-list.com/course/technology-commercialization-part-1-setting-your-idea-filtering-system-coursera</a>	New ideas based on high-technology research have a high failure rate because they hit the ground running with lopsided priorities and misalignments. Students complete this course with an Innovation Creed (“Why are you doing this?”) and a customized Idea Filter (“Are you working on the right priorities?”)—2 simple tools that steer concept-stage commercialization to success.
54	Entrepreneurial Strategic Management	University of New Mexico	Coursera	<a href="https://www.mooc-list.com/course/entrepreneurial-strategic-management-coursera">https://www.mooc-list.com/course/entrepreneurial-strategic-management-coursera</a>	This course utilizes an inquiry based approach to understanding sources of competitive advantages in companies and other organizations
55	Developing Innovative Ideas for New Companies: The First Step in Entrepreneurship	University of Maryland, College Park	Coursera	<a href="https://www.mooc-list.com/course/developing-innovative-ideas-new-companies-first-step-entrepreneurship-coursera">https://www.mooc-list.com/course/developing-innovative-ideas-new-companies-first-step-entrepreneurship-coursera</a>	This course assists aspiring and active entrepreneurs in developing great ideas into great companies. With strong economies presenting rich opportunities for new venture creation, and challenging economic times presenting the necessity for many to make their own job, the need to develop the skills to develop and act on innovative business opportunities is increasingly vital.
56	Launching New Ventures	École Polytechnique Fédérale de Lausanne	Coursera	<a href="https://www.mooc-list.com/course/launching-new-ventures-coursera">https://www.mooc-list.com/course/launching-new-ventures-coursera</a>	Transform a promising business opportunity into a venture concept proposal, and launch it as a business for real. Learn the key steps in the venture creation process, including marketing and fundraising. Sharpen your ‘entrepreneurial mindset.’
57	New Venture Finance: Startup Funding for Entrepreneurs	University of Maryland, College Park	Coursera	<a href="https://www.mooc-list.com/course/new-venture-finance-startup-funding-entrepreneurs-coursera">https://www.mooc-list.com/course/new-venture-finance-startup-funding-entrepreneurs-coursera</a>	Learn how to get your new venture funded. Understand capital structure for new ventures. Develop an understanding of investor pitches. This course is for aspiring or active entrepreneurs who wants to understand how to secure funding for their company. This course will demystify key financing concepts to give entrepreneurs and aspiring entrepreneurs a guide to secure funding.
58	Identifying Social Entrepreneurship Opportunities	Copenhagen Business School	Coursera	<a href="https://www.mooc-list.com/course/identifying-social-entrepreneurship-opportunities-coursera">https://www.mooc-list.com/course/identifying-social-entrepreneurship-opportunities-coursera</a>	This Course will clarify the definition and meaning of Social Entrepreneurship and will focus on the need to learn about the source and root of a social problem. You will be introduced to different perspectives about Social Entrepreneurship and you will learn about complementary and opportunistic assets which will help you to detect an opportunity and develop an idea of how to create a business for social change.

# Student Start-up and Innovation Policy (SSIP)-2017



**Education Department**  
Government of Gujarat