

SPARK INNOVATION CONTEST

**Last Date for
Submission Project :
28th February, 2021**

- Competition for all Undergraduate Students
- Students should cover all aspects of their project given in format and they can add extra sheets also to explain their project.
- A team should have minimum 4 students and 1 mentor (faculty).
- A student can be a part of multiple teams and a team can submit multiple projects.
- A student can submit their project in the given format at pooja.sharma@ggnindia.dronacharya.info
- Selected projects will be submitted in National Innovation Contest.
- No submission will be considered after last date.

Faculty Co-ordinator : **Prof. Pooja Sharma**
(M. No.: 9818644355)

Theme of Project :

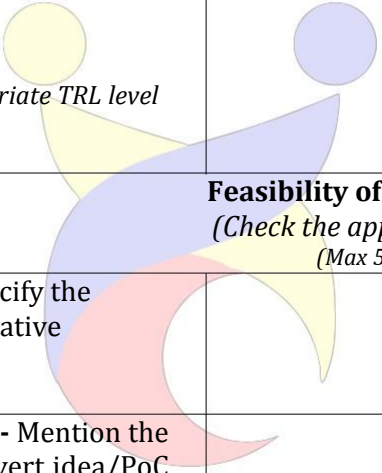
Healthcare & Biomedical devices. | Agriculture & Rural Development. | Smart Vehicles/ Electric vehicle/ Electric vehicle motor and battery technology. | Food Processing. | Robotics and Drones. | Waste management. | Clean & Potable water. | Renewable and affordable Energy. | IoT based technologies (e.g. Security & Surveillance systems etc) | ICT, cyber physical systems, Block chain, Cognitive computing, Cloud computing, AI & ML.

Institution's Innovation Council Project Submission Form

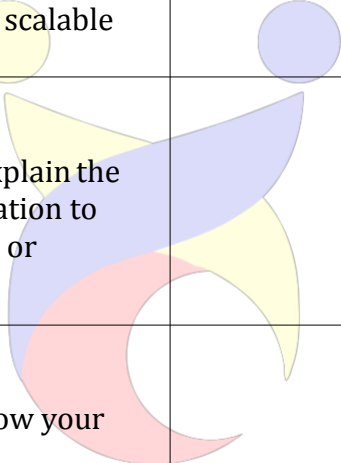
PART A: Idea/PoC (Product/Service/Process)

Team Details	Team Lead:			
	Name	Email	Contact no.	
	Team Members Details:			
	Sr. No.	Name	Email	Contact no.
<i>Add more fields if required</i>				
Mentor	Name	Email	Contact no.	
<i>Add more fields if required</i>				
Institute Name and Address:				
<i>(Ministry of HRD Initiative)</i>				
Name of the Idea/Proof of Concept (PoC)				
Theme			
		<i>Chose most appropriate theme (max 2) from Annexure 1</i>		
Define the problem & relevance to today's market/society/industry need (Max 100 words)				
Propose the solution to Problem Identified (Max 100 words)				
Describe the product/process/ service and write how it is innovative / unique. (Max 100 words)				

<p>How is your proposed product/ process/service being different/ better from a similar product/ process/ service, if any, in the market (Max 100 words)</p>	
<p>If your Idea is technology based, then specify the TRL Level (Technology Readiness Level) and Expecting the features of Idea/PoC.</p> <p>Note: For the Idea level, TRL 0 – 2 is expected.</p> <p>For the PoC level, TRL 3 is expected.</p> <p>(Max 100 words) Chose most appropriate TRL level from Annexure 1</p>	
<p>Feasibility of Idea/PoC solution (SMART) (Check the appropriateness of the Idea/PoC) (Max 50 words for each from a-e)</p>	
<p>(a) Specific- Specify the features of Innovative Idea/PoC.</p>	
<p>(b) Measurable- Mention the approach to convert idea/PoC to Prototype/Innovation with milestones.</p>	
<p>(c) Attainable- Explain how you are going to achieve the prototype development objective with the available resources at your disposal.</p>	
<p>(d) Realistic- what kind of skillset of team and resources required to achieve the goal in specific time period?</p>	



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COUNCIL
 (Ministry of HRD Initiative)

<p>(e) Timeline- Develop a timeline against the milestones for taking Idea/PoC to Prototype Development and (or) Commercial level/start-up stage.</p>	
<p>Applicability of Solution 10 Marks (Max 50 words for each from a-e)</p>	
<p>(a) Usability: what is the usability of your innovation. <i>(Level of acceptance of innovation and its Features among target group)</i></p>	
<p>(b) Scalability: how your innovation will be scalable at market level.</p>	
<p>(c) Economic sustainability: Explain the potential of innovation to become profitable or financially viable.</p>	 <p style="font-size: 2em; color: #6699cc; text-align: center;">INSTITUTION'S INNOVATION COUNCIL</p> <p style="color: #cc6666; text-align: center;">(Ministry of HRD Initiative)</p>
<p>(d) Environment Sustainability: How your innovation is environment friendly or address environmental problems.</p>	
<p>(e) Is there any Intellectual Property (IP) Component associated with innovation? if yes, explain.</p>	
<p>Define the potential market size (in terms of INR) and target customers. <i>(Max 100 words)</i></p>	

Annexure 1

Themes:

1. Healthcare & Biomedical devices.
2. Agriculture & Rural Development.
3. Smart Vehicles/ Electric vehicle/ Electric vehicle motor and battery technology.
4. Food Processing.
5. Robotics and Drones.
6. Waste management.
7. Clean & Potable water.
8. Renewable and affordable Energy.
9. IoT based technologies (e.g. Security & Surveillance systems etc)
10. ICT, cyber physical systems, Block chain, Cognitive computing, Cloud computing, AI & ML.

9 stages of TRL:

- TRL 0 : Idea. Unproven concept, no testing has been performed.
- TRL 1 : Basic research. Principles postulated observed but no experimental proof available.
- TRL 2 : Technology formulation. Concept and application have been formulated.
- TRL 3 : Applied research. First laboratory tests completed; proof of concept.
- TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype).
- TRL 5 : Large scale prototype tested in intended environment.
- TRL 6 : Prototype system tested in intended environment close to expected performance.
- TRL 7 : Demonstration system operating in operational environment at pre-commercial scale.
- TRL 8 : First of a kind commercial system. Manufacturing issues solved.
- TRL 9 : Full commercial application, technology available for consumers.

For any Query:

Write us at email: pooja.sharma@ggnindia.dronacharya.info with email subject line:
"Spark Innovation Contest Query".

Spark Innovation Contest
Institution's Innovation Council (IIC)

Guideline and Evaluation Criteria Sheet for Project Submission

Project Title:			
Team Leader Name:		Email: Contact no:	
Mentor Name:		Email: Contact no:	
Project Type: <i>(can select multiple)</i>		Theme Name <i>(Annexure 1):</i>	
<input type="radio"/> Introduction of new or improved services <input type="radio"/> Introduction of new method of production/ process <input type="radio"/> Opening of new market <input type="radio"/> Exploration of a new source & supply <input type="radio"/> Reengineering/ organization of business management process.			
Sl. No.	Parameters	Total Marks	Marks Obtained
1.	Relevance of Problem & Solution	15 Marks	
	(a) Whether the identified problem really exists in Society/Market/ Industry?	<i>10 Marks</i>	
	(b) "How big is the problem"? <i>(Low, Moderate, High)</i>	<i>5 Marks</i>	
2.	Feasibility of solution (SMART) <i>(Check the appropriateness of the proposed solution)</i>	25 Marks	
	(a) Specific- How specifically the proposed solution resolves the identified problem.	<i>5 Marks</i>	
	(b) Measurable- Whether the proposed solution is measurable and step wise approach towards innovation is followed	<i>5 Marks</i>	
	(c) Attainable- Clarity of team. Is the team competent enough to develop the solution and achieve its objectives?	<i>5 Marks</i>	
	(d) Realistic- Given the resources available, how realistic is the team's approach to achieve the solution in time bound manner?	<i>5 Marks</i>	
	(e) Timeline- How confident is the team with the proposed solution & timeline to complete the prototype (TRL 2 or TRL 3 in 2-3 months) <i>(refer Annexure 1)</i>	<i>5 Marks</i>	
3.	Applicability of Solution	10 Marks	
	(a) Usability: Level of acceptance of Solution/Features among target group	<i>2 Marks</i>	
	(b) Scalability: Adoption Potential of Solution as Business Model/Startup	<i>2 Marks</i>	
	(c) Economic Sustainability: Potential of solution to Become profitable or financially viable	<i>2 Marks</i>	
	(d) Environment Sustainability: Potential of solution to become environment friendly or address environment problems	<i>2 Marks</i>	
	(e) Existence of Intellectual Property Component, if any?	<i>2 Marks</i>	
Total		50 Marks	