

Project Definition format
Interdisciplinary Projects Special Focus Group (IPRG)

A. Format of the Project Definition

Project Title: _____

Faculty In-charge(s): _____ Department _____

Student Leader: _____ Class: _____

College _____ Department _____

List of Modules*Table 1 - List of project Modules*

Module No.	Module Title and Brief Description of Task	Lead Student	Tentative Time Required in Hours	Equivalence *
1				
2				
3				
4				
5				
.				
.				

* to be given by the concern faculty in consultation with respective Head of Department

Project Work Packages (repeat for each module mentioned in Section A)

Module number	1	Lead Faculty and Lead Student					
Module title							
Name of participants (Faculty and Students one in each column)							
Tentative time required							
Start month				End month			

Objectives of Module

Description of work and Task (where appropriate, broken down into sub-tasks), lead partner and role of participants

a. Task 1

Sub Task a.1: Brief description of Activity

Sub Task a.2: Brief description of Activity

Sub Task a.3: Brief description of Activity

Sub Task a.4: Brief description of Activity

Sub Task a.5: Brief description of Activity

b. Task 2

Sub Task b.1: Brief description of Activity

Sub Task b.2: Brief description of Activity

Sub Task b.3: Brief description of Activity

Sub Task b.4: Brief description of Activity

Deliverables (brief description and month of delivery)

D.1- Deliverable 1

D.1- Deliverable 2

.....so on

2. Details of Project Identification: (General Guidelines)

Project Identification Process		Resources used
<p>Identification of,</p> <ul style="list-style-type: none"> • Project • Problem Statement • Industrial Issues • Modifications In Products • Application Software • New Products • New Services • Societal Solutions 	<ol style="list-style-type: none"> 1.Recent trends—IOT, Industry 4.0 2. Emerging trends in engineering and interdisciplinary fields. 3.Commercial Product based projects 4.Agriculture, Domestic, Urban area. 5.Engineering projects-innovative process, services. 6.Medical sciences-, Dental, Ortho, Surgery Models, Mechanisms Etc. <p style="text-align: center;">(*not limited to above fields)</p>	<p>References:</p> <ul style="list-style-type: none"> • Research institutes • Incubations centers • Industrial associations • Agriculture University • Renowned institutes • Government agencies • Project funding agencies <p style="text-align: center;">(*not limited to above fields)</p>
<p>Methodology of,</p> <ul style="list-style-type: none"> • Project • Problem Statement • Industrial Issues • Modifications in Products • Application Software • New Products • New Services 	<ul style="list-style-type: none"> • Identification of thrust area. (By market, site survey) • Problem Statements • Study of market demand. (Review of potential customers/beneficiaries) • Concept screening and analysis (Feasibility analysis- paper drawing) • Resource capacity and capability analysis (make and buy decisions- part sorting) • Infrastructure identification • Concept trials in market • Concept confirmation for project <p style="text-align: center;">(*not limited to above fields)</p>	<ul style="list-style-type: none"> • Reputed magazines • Research projects • Patent Published, Granted • Survey • Journal Papers <p style="text-align: center;">(*not limited to above fields)</p>

<p align="center">Technology and Delegates supports/Resources</p>	<ul style="list-style-type: none"> • Industry (Entrepreneur, Plant, Process Manager) • Medical sciences (renowned consultant from Surgery, Orthopedics) • Agricultural industry (Expert, divisional Area officer from agriculture) • Government funding institute (Patent Attorney, Project consultant) • IITs - subject experts/technology expert/collaborations • NITs- subject experts/technology expert/collaborations 	<ul style="list-style-type: none"> • Hand Books • Reference literature • Industry • Consultancy firms • Advance Labs • Center of excellence <p>(*not limited to above fields)</p>
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3. Proposed Projects titles: (Filled by Guide)

<p>1.</p>	<hr/> <hr/> <hr/> <hr/>
<p>2.</p>	<hr/> <hr/> <hr/> <hr/>
<p>3.</p>	<p>Optional if any</p> <hr/> <hr/> <hr/> <hr/>

3.1 Brief About Projects (Filled by Student and approved by Guide)

1.PROJECT 1-

- **Problem statement:**

1.....
.....2.....
.....3.....

- **Objective**

1.....2.....
.....3.....
.....4.....

- **Concept/solution**

1.....2.....
.....3.....
.....4.....

2. PROJECT 2-

- **Problem statement:**

1.....
.....2.....
.....3.....

- **Objective**

1.....2.....
.....3.....
.....4.....

- **Concept/solution**

1.....2.....
.....3.....
.....4.....

Sign

Experts (All faculty)

Project Guide

H.O. D

Phase –II

4. Prior Art (Patent Search) for Finalize Project after Phase –I Filled by Students

4.1 Patent Search: (REF WEBSITES. - IPINDIA.GOV.IN, USPTO.GOV.IN)

SR N.	Patent Application No.	Title of Patent	Existing Solutions/ Brief about solutions
1.			
2.			
3.			
4.			

4.2 Literature Review:

SN	Title of Paper	Details of Publication with Date and Year	Literature Identified for Project
1.			
2.			
3.			
4.			

4.3 Findings of literature Review: (Approved by Guide)

	About the Project
Current Limitations	1. 2. 3. 4. 5.
Proposed solution	1. 2. 3. 4. 5.
Aim & Objective	Aim: Objective. 1. 2. 3. 4.
Scope of work	1. 2. 3. 4. 5. 6

5. Summary of Project (Approved by Guide)

Feasibility Assessment		
1.	Expected outcome of project	(Patent, Copy rights, industrial solutions, Any Other)
2.	Innovation Potential	(Technology transfer, Commercial product, Industry solution, Apps, Electronic system, Any Other)
3.	Task Involved (Concept to execution/commercialization of project)	1. _____ 2. _____ 3. _____ 4. _____ 5. _____ 6. _____
4.	Facilities Required	Internal: _____ _____ External: _____ _____
5.	Expertise Required (personnel)	Internal: _____ External: _____
6.	Estimated Budget of Project	_____ _____
7.	Estimated claims of project for Patent or Copy rights	1. _____ 2. _____ 3. _____

Project Feasibility Evaluation: (Filled by Guide as per suggestions from Committee)

1. Project Screening Committee:

Committee Members: Any 04 members of following

- H.O.D (Internal)
- IPR expert (external)
- Industry expert (external)
- Project Guide or Co-Guide (Internal)
- Subject expert (Internal)
- Marketing expert (Delegates from MBA department)
- Product Developer /Consultant (external)
- R & D coordinator (Internal)
- Sales executives (Delegates from MBA department)
- Project Coordinator (Internal)
-

2. Committee Remarks

Screening criteria	Remarks	Marks
1. Unique Idea		(10)
2. Feasibility		(10)
3. Innovation potential		(10)
4. Patentable		(10)
5. Problem solution		(10)
Total:		
Criteria for screening		
More than 70 %	Accepted	
Less than 70 %	Provisional Acceptance (Scope for modification)	
Less than 50 %	Rejected	
Overall Remark By H.O.D:		

Sign:
External/Internal Experts

Sign:
Project Guide

Sign:
HOD

Monitoring: time plan and activity plan

	Task	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	April	May
Design	Conceptual design										
	Detailed drawing										
	Design, Analysis,										
	Final design										
Developed	BOM, Procurement (if any)										
	Prototyping										
	Modifications										
Deliver	Testing and Validation										
	Final modification										
	Final Trials /Experimentations										
	Results and conclusions										
Final Drafting	IPR Patent draft										
	Research Paper										
	Thesis Report										
	Paper presentations										

Evaluation plan:

Activities	Duration			Members
RPIP : Report Phase 1,2	<u>August</u> 1 Month	<u>Phase -1 (15 days)</u>	<u>Phase 2 (15 days)</u>	Screening Committee Project Guide, Subject Experts ,HOD
Project Phase -1 <i>Concept</i>	September 1 month	<u>Progress 1 (15 days)</u>	<u>Progress 2 (15 days)</u>	Project Guide ,Project coordinator
Project Phase -2 <i>Design and development</i>	<u>October,</u> <u>November</u> 2 month	<u>Progress 1 (15 days)</u> <u>Progress 2(15 days)</u>	<u>Progress 1 (15 days)</u> <u>Progress 2(15 days)</u>	Project Guide, Project Coordinator
Project Phase -3 <i>Fabrication</i>	<u>December,</u> <u>January</u> 2 months	<u>Progress 1 (15 days)</u> <u>Progress 1(15 days)</u>	<u>Progress 2 (15 days)</u> <u>Progress 2 (15 days)</u>	Project Guide, Project Coordinator
Project Phase 4 <i>Trial, Validation</i>	<u>February</u> 1 month	<u>Progress 1 (15 days)</u>	<u>Progress 2(15 days)</u>	Project Guide, Project Coordinator
Project Phase 5 : <i>Presentations</i>	<u>March</u> 1 month	Progress 1- (15 days)		All Faculty Members ,HOD
<u>Final evaluation</u>	<u>1 month</u>	<u>Progress 1 (15 days)</u>	<u>Progress 2(15 days)</u>	All Faculty , HOD, Experts External
<u>Project Report writing</u>	1 month	<u>Progress 1 (15 days)</u>	<u>Progress 2(15 days)</u>	HOD, Guide, Project coordinator Expert/reviewer (external/internal),
<ul style="list-style-type: none"> • Research Paper writing • Paper presentation • Project exhibition • Patent Draft • Copy right • Any other Outcome 				
**** Total Time Duration 10 Months for completion of project (June to March of Academic Year 20__ - 20__)				

Annexure - III

Research Contribution Assessment and Incentives

A. Research Papers publication:

Sr. No.	Title with page nos.	Journal/ Conference	ISSN / ISBN No.	Non SCI SCI/ ESCI SCOP-US	No. of co-authors	Whether you are the main author or	Whether Refereed / other Journal as notified by the UGC#	Augmented API Score	Proof Document**
1									
2									
3									
Total									

B. MOOCS or Content Development for Edugy Platform:

Sr. No.	Name of Course	Enrolled Learners	Academic/ Non-Academic	Duration	No. of Teachers	Whether you are the main teacher	05 Marks/ 10hrs of Content	Proof Document**
1								
2								
3								
Total								

C. RESEARCH PROJECTS (Need to apply at least one project every year):

Sr. No.	Title of Project	Major/ Minor	Period of Award	Amount Approved	Name of Funding Agency	Marks (one mark / 1 Lakhs Grant)	Proof Document**
1.							
2.							
3.							

D. Consultancy Projects:

Sr. No.	Title	Agency	Period	Grant / Amount Mobilized	Policy Document Generated	Marks (one mark / Consultancy)	Proof Document**
1							
Total							

E. Patents:

Sr. No.	Title of Patents	Year / Status	National/ International	Patent Number	Marks*	Proof Document**
1						
2						
3						
Total						

* 5 Marks for Granted and 3 for Filed

F. Fellowships and Awards:

Sr. No.	Fellowship/ Award	Award conferring Organization	Event Organized by	Whether international / national / state / regional / college or university level	* Marks	Proof Document**
1						
2						
3						
Total						

* International 05 Marks, national / state: 03 Marks, regional / college or university level: 02 Marks

G. Invited lectures

Sr. No.	Invited Talk/ Paper presented	Title of Conference / Seminar	Event Organized by	Event level	Marks *	Proof Document**
1						
2						
3						
Total						

* International Event: 03 Marks, National / State / : 02 Marks, Regional / College or University level: 01 Mark each

Note:

- ❖ Paper presented if part of edited book or proceeding then it can be claimed only once.
- ❖ For joint supervision of research students, the formula shall be 70% of the total score for Supervisor and Co-supervisor. Supervisor and Co-supervisor, both shall get 7 marks each.
- ❖ *For the purpose of calculating research score of the teacher, the combined research score from the categories of Policy Document and 6. Invited lectures/Resource Person/Paper presentation shall have an upper capping of thirty percent of the total research score of the teacher concerned.

H. Reviewer/Editor/ Session Chair / or relevant

Sr. No.	Details	Title	Event Organized by	Event level	Marks *	Proof Document**
1						
2						
3						
Total						

* International Event: 03 Marks, National / State /: 02 Marks, Regional / College or University level : 01 Mark each

**As per table under the document Annexure IV

Score for the Research Contribution

1	III (A) Research Paper Publication	Research Papers published in: Peer Revived or UGC listed Journals Incentive Marks for Publication 1. Paper in refereed/peer reviewed journals non-Scopus 1 Point 2. Paper in Scopus Indexed 3 Points 3. Paper in SCI/WOS indexed 5 Points Note a) Two authors: 70% of total value of publication for each author. b) More than two authors: 70% of total value of publication for the First/Principal/ Corresponding author and 50% of total value of publication for each of the joint authors.	03 Marks/ paper
2	III (B) Publications (other than Research Papers)	a) Books authored which are published by International Publisher 12 National Publisher 10 Chapter in Edited Book 05 Editor of Book by International Publisher 10 Editor of Book by National Publisher 08 b) Translation work in Indian and Foreign Languages by qualified faculties Chapter or Research Paper 03 Book 08	
3	III (C) Creation of ICT mediated teaching learning pedagogy and content and development of new and innovative courses and curricula	a) Development of innovative pedagogy 05 b) Design of new curricula and courses 02/ curricula / course c) MOOCs Development of complete MOOCs in 4 quadrants (4 credit course) (In case of MOOCs lesser credit 5 marks/ credit) 20 MOOCs (Develop in 4 quadrant) Per module/ lecture 05 Content writer/ subject matter expert for each module of MOOCs (at least one quadrant) 02 Course coordinator for MOOCs (4 Credit Course) (In case of MOOCs of lesser credits 02 marks/ credit) 08 d) E-Content Development of e -Content in 4 quadrants for a complete course/e-book 12 e-Content (developed in 4 quadrants) per module 05 Contribution to development of content module in complete course/paper/e- book (at least one quadrant) 02 Editor of e-content for complete course/ paper e-book 10	

4	III (D) Research	a) Research Guidance	
		Ph.D.	10/ Degree Award 05/ Thesis Submitted
		M.Phil. / PG Dissertation	02/ Degree Award
		b) Research Project Completed	
		More than 10 lakhs	10
		Less than 10 lakhs	05
		c) Research Projects Ongoing:	
		More than 10 lakhs	05
		Less than 10 lakhs	02
		d) Consultancy	03