

SYED AMMAL ENGINEERING COLLEGE

(Approved by AICTE, New Delhi and affiliated to Anna University, Chennai)

Accredited with 'A+' Grade by NAAC

An ISO 9001:2015 Certified Institution | NBA Accredited UG Courses : CSE & MECH

Anna University Approved Research Centres : EEE, CSE & ECE

Dr. E.M. Abdullah Campus, Ramanathapuram - 623 502

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Annexure -I: Action Plan: - Planned Programs, Activities, Budget Allocation, and Annual Targets

I&E Policy Objectives	Thrust Area	Planned Intervention: Program/Activities (Input)	Unit of Measurement (KPIs)	Current Status (Baseline Value)	Budget Allocation on Collaboration (Resource/Source)	Annual Targets (Process/Output)		
						Year 1	Year 2	Year 3
Objective 1: To establish institutional mechanisms, processes and guidelines to generate knowledge, intellectual properties and innovations from institute and commercialization of innovations through Technology transfer, technology licensing and startups etc.	Start Up	To Organise Session on "Lean Start-up & Minimum Viable Product/Business"- Boot Camp (or) Mentoring Session	%	40%	3 Lakhs	45	50	55
	Innovation	Innovative ideas to build projects	%	40%		45	50	55
Objective 2: To Develop a critical mass of motivated students & faculties with creative potential, and Entrepreneurial orientation & skill set.	Entrepreneurship	Motivational session by successful Entrepreneur/ startup founder	%	45%	3 Lakhs	50	55	60
	Critical And Design Thinking	Workshop on Design Thinking, critical Thinking and innovative design	%	45%		50	55	60
	Entrepreneurship	Workshop on Entrepreneurship Development Phases	%	45%		50	55	60

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Objective 3: To build and strengthen the in-house mentor pool and human resource capacity to drive campus I&E activities; identifying, handholding and guiding potential/early stage entrepreneurs, student innovators at the Institute on regular basis.	Innovation	Workshop on Entrepreneurship and Innovation as career opportunities	%	40%	0.5 Lakhs	50	55	60
	Incubation Facilities	Field/Exposure Visit to Incubation Unit/Patent Facilitation Centre/Technology Transfer Centre/ Co-working spaces	%	40%	0.5 Lakhs	50	55	60
	Innovation	Workshop on Prototype/Process Design and Development - Prototyping	%	40%		50	55	60
	Incubation	Business Plan/Prototype Competition to Invite Innovative Business Models from Students	%	40%		50	55	60

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Objective 5: To strengthen the intra and inter-institutional partnership and collaboration with ecosystem at different level and co-creation of new program interventions.	Startup	Interactive Session/Mentoring Session with "Successful Start-up founders" (Entrepreneurs in Campus)	%	40%	0.5 Lakhs	50	55	60
	IP Ecosystem	Workshop on Intellectual Property Rights (IPRs) and IP management for start up	%	40%		50	55	60


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Annexure -2: Timeline and Progress Tracking Sheet

I&E Policy Objectives	Thrust Area	Planned Intervention: Program/Activities (Input)	Responsibility Unit/Dept./ Person Incharge	Annual Targets (Process/Output)			
				Year 1 Quarter 1	Year 1 Quarter 2	Year 1 Quarter 3	Year 1 Quarter 4
Objective 1: To establish institutional mechanisms, processes and guidelines to generate knowledge, intellectual properties and innovations from institute and commercialization of innovations through technology transfer, technology licensing and startups etc.	Start Up	Organised " Knowledge Pattarai"- A National level mega contest for innovation and start-ups	SAIIC				
	Innovation	Workshop on Prototype/Process Design and Development - Prototyping	IIC CELL				
	Start Up	Organise Session on "Lean Start-up & Minimum Viable Product/Business"- Boot Camp (or) Mentoring Session	IIC CELL				
Objective 2: To Develop a critical mass of motivated students & faculties with creative	Entrepreneurship	Motivational Talk to Prepare for an Interview	IIC CELL				

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potential, and entrepreneurial orientation & skill set.							
	Critical And Design Thinking	Workshop on Prototype/Process Design and Development - Prototyping	IIC CELL				
Objective 3: To build and strengthen the in-house mentor pool and human resource capacity to drive campus I&E activities; identifying, handholding and guiding potential/early stage entrepreneurs, student innovators at the Institute on regular basis.	Innovation	Demo Day/Exhibition/P oster Presentation of Start-ups developed & linkage with Innovation Ambassadors for mentorship support	IIC CELL				
Objective 4: To build infrastructure support and facilities to promote innovation & startup and enabling environment of easy access to resources within and outside the institute.	Incubation Facilities	Field/Exposure Visit to Incubation Unit/Patent Facilitation Centre/Technology Transfer Centre/ Co- working spaces	IIC CELL				

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Objective 4: To build infrastructure support and facilities to promote innovation & startup and enabling environment of easy access to resources within an outside the institute.	Innovation	Out of the box thinking for problem solving	IIC CELL				
	Incubation	Webinar on Applications of Machine Learning using Python Spyder 3.7	IIC CELL				
	Incubation Facilities	Field/Exposure Visit to Incubation Unit/Patent Facilitation Centre/Technology Transfer centre	IIC CELL				
Objective 5: To strengthen the intra and inter-institutional partnership and collaboration with ecosystem at different level and co-creation of new program interventions.	Startup	Simulation of Antenna using HFSS	IIC CELL				
	IP Ecosystem	Workshop on Intellectual Property Rights (IPRs) and IP management for start up	IIC CELL				


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Annexure 3: List of Key Performance Indicators (KPIs)

b. Thrust Area based KPIs

I&E ecosystem in HEIs and Key performance indicators for different components of ecosystem

Sl. No	Parameters	Technical HEI
1	Developing an Innovative and Entrepreneurial Mind-set through Series of Activities	4.00
2	Teaching and Learning: Academic Programmes related to Innovation & Entrepreneurship (I & E) & IPR offered by the HEI	6.00
3	Dedicated Infrastructure & Facilities to Promote Innovation & Entrepreneurship at HEI	13.00
4	Generation of Innovations/ ideas with the support of HEI and recognition received	13.00
5	Ventures Established with the support of the HEI & Recognitions Received	12.00
6A	Angel & VC Fund/Investment Mobilized to Support Innovation & Startups Incubated at HEI	5.00
6B	Promotion of Collaboration for & Co-Creation of I & E initiatives	5.00
7	Intellectual Property (IP), Generation and Commercialization	19.00
8A	Annual Budget on Promoting and Supporting I&E Activities: Total expenses towards I & E and IPR support activities	8.00
8B	Total Revenue Generated by HEI from Incubation Services to Startups and Commercialization of IP and Innovations	6.00
9	Participation of HEI in I & E Initiative of MOE	9.00
Total		100

Parameter and sub-parameter wise data points are as below


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Sl. No	Parameters & Sub Parameters	Technical HEI
1	Developing an Innovative and Entrepreneurial Mind-set through Series of Activities (FY 2019-20)	
1.1	Number of co-curricular events related to Innovation and Entrepreneurship (I & E) conducted by the HEI	2.00
1.2	Number of co-curricular events related to I&E organized by external organizations where students/faculty members of HEI were sent to participate/represent	2.00
	Sub Total	4.00
Sl. No	Parameters & Sub Parameters	Technical HEI
2	Teaching and Learning: Academic Programmes related to Innovation & Entrepreneurship (I & E) & IPR offered by the HEI (AY 2019-20)	1.00
2.1	Number of full-fledged programmes/courses in Innovation / Entrepreneurship / Intellectual Property offered by the HEI (Diploma/ UG/ PG/ PhD)	1.00
2.2	Number of short-term Certificate courses or Elective group(s)/ Major or Minor Specializations/ Core Credit courses offered by the HEI in Innovation and Entrepreneurship (I & E) of minimum 30 contact hours of duration	1.00
2.3	Number of I & E related MDP, EDP, FDP, Employment Generation Skill Development Programs conducted by HEI (Approved by Regulatory bodies of HEIs or other State and Central government agencies) of minimum 30 contact hours of duration	1.00
2.4	Number of full-time faculty who have completed any specialized training programme of I & E (MDP, EDP, FDP, Certificate course of minimum 30 contact hours of duration) conducted by State and Central government agencies (for example AICTE, MIC, Ministry of MSME etc.), knowledge agencies etc.	1.00
2.5	Number of entrepreneurial skill development/employment generating training programmes conducted by the HEI for external participants (local residents, community members, alumni etc.)	1.00
2.6	Number of full-time faculty with a degree (UG/PG/PhD) in entrepreneurship/innovation/ IPR and(or) received training on I&E, and IPR	1.00
	Sub Total	6.00

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Sl. No	Parameters & Sub Parameters	Technical HEI
3	Dedicated Infrastructure & Facilities to Promote Innovation & Entrepreneurship at HEI (FY 2019-20)	
3.1	Number of active Ideas/ Innovation centric Student Clubs in the HEI with access to co-working space/ work- stations for students with facilities & equipment available for I & E activities	2.00
3.2	Existence of dedicated infrastructures and facilities at HEI to support Innovation, Entrepreneurship and IPR	5.00
3.2 a	Existence of Pre-incubation centers such as Tinker Lab/ EDC/ IEDC/ New Gen IEDC/ etc. with minimum space of ≥ 600 sq. ft. floor area	
3.2 b	Existence of Incubation Unit with minimum space of ≥ 1500 sq. ft. floor area	
3.2 c	Existence of Research Park/Innovation Park with minimum Space of ≥ 5000 sq. ft. Floor area	
3.3	Existence of Centre of Excellence with Advance Tools & Equipment with minimum space of ≥ 1000 Sq. ft.	1.00
3.4	Existence of IPR Cell / Patent Facilitation Unit / Technology Transfer Centre at the institute	2.00
3.5	Number of dedicated staff to oversee I & E activities under the leadership of a senior professor/Head of the institute	1.00
3.6	Number of empaneled external experts/ agencies for mentorship regarding IPR, innovation development and enterprise development	1.00
3.7	Number of faculty members/ staff of the HEI deputed on committees of other HEIs to mentor and support the establishment of their I & E eco-system	1.00
Sub Total		13.00

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Sl. No	Parameters & Sub Parameters	Technical HEI
4	Generation of Innovations/ ideas with the support of HEI and recognition received (FY 2019-20)	
4.1	Number of Innovations TRL 0-3 and/or Number of non-technical Innovations (scouted and evaluated) registered with the departments of HEI/ pre-incubation/Incubation center	1.00
4.2	Number of Innovations TRL 4-6	2.00
4.3	Number of Innovations TRL 7-9	3.00
4.4	Number of ideas or innovative projects implemented in the community/Social Innovations	2.00
4.5	Number of ideas or innovative projects/TRLs/Social Innovations implemented with financial support from HEIs	3.00
4.6	Number of awards won by the student and faculty innovations at State/National/International Level in I & E related events	2.00
Sub Total		13.00

Sl. No	Parameters & Sub Parameters	Technical HEI
5	Ventures Established with the support of the HEI & Recognitions Received (FY2019-20)	
5.1	Number of Startups with CIN / Entrepreneurial Ventures with at least GST number started by students/ faculties/ Staff/ Alumni and facilitated by HEI/EDC/ Pre-incubation/ Incubation/ Research Park etc.	4.00
5.2	Number of Startups with CIN /Entrepreneurial Ventures with GST number started by the external beneficiaries (i.e. excluding Student, Faculty & Staff) who had received Employment Generating Skill Training Program conducted by the HEI/EDC/Pre-incubation/ Incubation	3.00
5.3	Number of Faculty as Founder or Co-Founder with DIN	2.00
5.4	Number of Startups with Annual Turnover of Rs. 50 Lakhs or 10 employees	3.00
Sub Total		12.00
Sl. No	Parameters & Sub Parameters	Technical HEI

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6 A	Angel & VC Fund/Investment Mobilized to Support Innovation & Startups Incubated at HEI (FY2019-20)	
6 A.1	Total amount raised by innovators pre-Incubated/incubated at HEI from Angel/VC Fund/High Net worth Individual (HNI)	2.00
6 A.2	Total amount raised by Startups incubated at HEI from Angel /VC Fund /High Net worth Individual (HNI)	2.00
6 A.3	Total amount of Credit/Loans from Financial Institutions that was facilitated by HEI for innovators/startups	1.00
Sub Total		5.00
6 B	Promotion of Collaboration for & Co-Creation of I & E initiatives (AY2019-20)	
6 B.1	Number of Collaborations with incubation units outside the HEI either to provide OR receive Incubation Support	2.00
6 B.2	Number of Collaborations with other HEIs as mentor/ mentee Institute to promote I&E in the Campus	2.00
6 B.3	Number of Collaborations with start-ups /Industry Associations /Knowledge Agencies to promote I & E activities and/or internship opportunities	1.00
Sub Total		5.00

Sl. No	Parameters & Sub Parameters	Technical HEI
7	Intellectual Property (IP), Generation and Commercialization	
7.1	Number of research papers published (Student/Faculty) with Keywords -Innovation, and Entrepreneurship in Scopus journals during the AY 2019-20	2.00
7.2	Number of Copyrights/Designs- Applied during the FY 2019-20	1.00
7.3	Number of Copyrights/Designs Granted during the FY 2019-20	2.00
7.4	Number of Patents Filed & Published during the FY 2019-20	2.00
7.5	Number of Patents Granted (last 3 FYs: 2017-18, 2018-19, 2019-20)	5.00

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7.6	Number of Patents held by Pre-Incubated Innovations/Incubated Startups (last 3 FYs: 2017-18, 2018-19, 2019-20))	3.00
7.7	Number of IPs Commercialized/ Technology Transferred during the FY 2019-20	4.00
Sub Total		19.00

Sl. No	Parameters & Sub Parameters	Technical HEI
8	Budget - Annual Expenditure Spent towards I&E Activities and Revenue from I&E	
8A	Annual Budget on Promoting and Supporting I&E Activities: Total expenses towards innovation, IPR and entrepreneurship activities	
8 A.1	Amount spent on events conducted (Financial Fields of line items entered in 1.1)	1.00
8 A.2	Amount spent on student/faculty participation in I&E events conducted by external organizations (Financial Fields of line items entered in 1.2)	1.00
8 A.3	Expenses incurred in the establishment, maintenance and operation of Pre-Incubation and/or Incubation infrastructure (capital expenditure + operational expenditure) (Financial Fields of line items entered in 3.1, 3.2 and 3.3)	2.00
8 A.4	Total seed fund/grant disbursed by HEI from its own funds to innovation/ entrepreneurial ventures (Financial Fields of line items entered in 4 & 5)	2.00
8 A.5	Total Seed Fund/Grant received from external sources disbursed to Startups (Financial Fields of line items entered in 4 & 5)	2.00
Sub Total		8.00
8B	Annual Budget on Promoting and Supporting I&E Activities: Total Revenue Generated by HEI from Incubation Services to Startups and Commercialization of IP and Innovations	
8 B.1	Total grant/funds received from authentic sources such as Govt, Non Govt, CSR bodies etc. towards promoting and supporting innovation, IPR, Startups and pre-incubation/incubation activities in the campus	2.00


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8 B.2	Total revenue from Incubation Services offered by HEI to Startups/innovators (training and skill + mentoring + office space and rent). It excludes fees earned for offering general consulting services offered and training conducted by HEIs	1.00
8 B.3	Total revenue generated from commercialization/Licensing of IPs owned by HEIs (It exclude IP commercialization made by incubated Startups/ Innovators).	3.00
Sub Total		6.00

Sl. No	Parameters & Sub Parameters	Technical HEI
9	Participation of HEI in I & E Initiative of MOE	2.00
9.1	Adopted National Innovation and Start-up Policy at the HEI	2.00
9.2	Establishment of Institution's Innovation Council (IIC) at HEI	2.00
9.3	Trained Innovation Ambassadors at HEI	1.00
9.4	Participation in Smart India Hackathon (SIH)	1.00
9.5	Facilitated Registration of Start-ups/ Technologies developed from HEIs in YUKTI 2.0 (Young India combating COVID with Knowledge, Technology and Innovation) portal of MIC	1.00
9.6	Participation of Students from the HEI in National Education Alliance of Technology (NEAT) courses	1.00
Sub Total		9.00

Our institution following the guidelines and KPIs as per ARIIA ranking along with MoE.


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Annexure 4: List of Activities prescribed under IIC Calendar Activities

The details of IIC Calendar Activities are as below-

c				
Quarter 1				
Sl. No.	Activities	Thrust Area	Threshold Noof Activities Required to Conduct/Quarter	Department
1	Workshop on "Entrepreneurship and Innovation as Career Opportunity"	Inspiration		ALL Departments
2	My Story - Motivational Session by Successful Innovators			
3	My Story - Motivational Session by Successful Entrepreneur/Startup founder.			
4	Session on Problem Solving and Ideation Workshop			
5	Exposure and field visit for problem identification			
6	Pitching Event for Ideas Scouted & linkage with Innovation Ambassadors for mentorship support.			
7	Developing Online Repository of Ideas Developed and Way forward plan			
Quarter 2				
1	Workshop on Design Thinking, Critical thinking and Innovation Design	Validation and Concept Development	3 Numbers	ALL Departments
2	Expert talk on "Process of Innovation Development & Technology Readiness Level (TRL)" & "Commercialization of Lab Technologies & Tech-Transfer			
3	Workshop on Entrepreneurship Skill, Attitude and Behaviour Development			
4	Session on Achieving Problem-Solution Fit & Product-Market Fit			
5	Field/Exposure Visit to Pre-incubation units such as Fab lab, Makers Space,			
	Design Centres, City MSME clusters, workshops etc.			
6	Pitching Event for PoCs developed & linkage with Innovation Ambassadors for mentorship support.			
7	Developing Online Repository of Proof of Concepts (PoCs) Developed and Way forward plan			

Signature

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Semester II			
Quarter 3			
1	Workshop on Prototype/Process Design and Development - Prototyping	Validation and Innovation & Business Model Development	3 Numbers
2	Session/ Workshop on Business Model Canvas (BMC)		
3	Field/Exposure Visit to Incubation Unit/Patent Facilitation Centre/Technology Transfer Centre		
4	Session on "How to plan for Start-up and legal & Ethical Steps"		
5	Workshop on Intellectual Property Rights (IPRs) and IP management for start up		
6	DemoDay/Exhibition/Poster Presentation of Business Plan/Prototype developed & linkage with Innovation Ambassadors for mentorship support.		
7	Developing Online Repository of Business Plan/Prototypes Developed and Way forward plan		
Quarter 4			
1	Session on Innovation/Prototype Validation - Converting Innovation into a Startup (or) Session on Achieving "Value Proposition Fit" & "Business Fit"	And Start-up Development	3 Numbers
2	Session on Accelerators/Incubation - Opportunities for Students & Faculties - Early Stage Entrepreneurs		
3	Organize Session on "Lean Start-up & Minimum Viable Product/Business" - Boot Camp (or) Mentoring Session		
4	Session on Angel Investment/VC Funding Opportunity for Early-Stage Entrepreneurs		
5	Session/ Panel discussion with innovation and Startup Ecosystem Enablers from the region/state/national level		
6	Demo Day/Exhibition/Poster Presentation of Start-ups developed & linkage with Innovation Ambassadors for mentorship support.		
7	Developing Online Repository of Start-ups Developed/incubated and Way forward plan		

Our institution following the IIC calendar as per the guidelines MoE Institution innovation council.