



ALVA'S INSTITUTE OF ENGINEERING AND TECHNOLOGY

A Unit of Alva's Education Foundation (R)

(Affiliated to Visvesvaraya Technological University, Belagavi)

Approved by AICTE, New Delhi & Recognised by Government of Karnataka)

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QUALITY INDICATOR FRAMEWORK (QIF)

6.5.1 Internal Quality Assurance Cell (IQAC) has contributed significantly for institutionalizing the quality assurance strategies and processes

Institute has set up IQAC in year 2015 and since then it has taken quality enhancement initiatives in the academic and administrative domains which are successfully implemented during the last five years.

Among various initiatives and implementations undertaken by IQAC, two of the practices that have been practiced, embedded and have shown excellent results are

- i. Experiential learning initiatives through MOU's & Academic collaborations where Collaborative activities for research & Internship have shown great results where our students are taking up internships in premier Institutes like ISRO, IIIT Allahabad etc.
- ii. Ecosystem for innovations: Product development labs like Apple iOS labs about 10 iOS apps have been approved by the Apple store. Add on labs are consistently increasing the knowledge quotient of the students and make them to be industry ready. These efforts have resulted in production of eight patents in total, from the faculty and the students. The details are attached below



Principal
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Best Practice -1: Experiential learning initiatives through MOU's & Academic collaborations

Below table details out the number of collaborative activities for research, faculty exchange, student exchange/ internship along with e-copies of related documents in year wise during last five years

Sl. No.	File Particulars	File Description	Document Link
1	Internal-Quality-assurance-cell	Policy document	View Document
2	Collaborative activities for research, Faculty exchange, Student exchange & internship	Certificate Programs	View Document
		Internship	View Document

Best practice 2: Ecosystem for innovations

Table lists out the various activities that are envisaged and realized by providing the suitable environment for Innovations

Sl. No.	File Particular	File Description	Document Link
1	Product Developmentlabs	Apple iOS Lab	View Document
2		Innovation & We lab	View Document
3		Envision lab	View Document
4	R & D labs	MEM's Lab	View Document
5		E-yantra Robotics lab	View Document
6		IC engine lab	View Document
7		Nano Organic Electronics & Earth's Field NMR lab	View Document
9		Centre For Bio Based Product Development	View Document
10		ACAR Lab	View Document
11		CNC machinery lab	View Document
12		Edwin's Linux Lab	View Document
13	Entrepreneurship	EDC activity report	View Document
14	Development Cell	Entrepreneurs Details	View Document
15	Innovative Projects / Activities	Feeder-Weeder robot project	View Document
16		International Quiz Competition	View Document
17		SPARKLE-2020	View Document

18		Go Green Glow Green-Set3	View Document
19	Patent-1	Smart Shockwave Velocity Measurement System Based On P(VDF- TrFE) Piezo sensors and Arduino (Patent application number 201941024087)	View Document
20	Patent-2	Enhancement of Direct Methanol Fuel Cells' Performance with NAFION as Proton Exchange Membrane Optimally exposed to ultraviolet rays (Patent application number 201941009746).	View Document
21	Patent-3	Enhancement of Micro Direct Methanol Fuel Cell (μ - DMFC) Performance Using microchannel fabricated from<100>Silicon wafer orientation and P(VDF-TrFE) coated NAFION as Proton Exchange Membrane (Patent application number 201841040380)	View Document
22	Patent-4	A process for fabrication of P(VDF- TrFE) Piezoelectric beams and cantilevers as vibration sensors and energy harvesters(Patent application number 201841030070)	View Document

23	Patent-5	A process for enhancing hydrogen fuel cells performance with NAFION Proton exchange membrane optimally exposed to ultraviolet rays(Patent application number 201941035383)	View Document
24	Patent-6	A process of synthesizing novel methylsubstituted chalcone molecules – the potential cancer inhibitors	View Document
25	Patent-7	To sliding driving helmet for better air ventilation with IOT features	View Document
26	Patent-8	System for hardware acceleration for embedded flash memory based on Machine learning	View Document