

## INNOVATION ENTREPRENEURSHIP DEVELOPMENT CENTER (IEDC)

### AMAL JYOTHI COLLEGE OF ENGINEERING, KANJIRAPPALLY

#### ANNUAL REPORT 2013-14

### 1. Project development

Innovation promotional activities of AJCE have reached a new horizon, through the recognition by different Govt agencies. Continuous efforts and motivation by the IEDC team to Amal Jyothi students, they have come up with a lot of innovative projects. Those are listed below.

#### 1.1 Center for disability studies

Center for disability studies(Govt. of Kerala) has selected 8 student projects for funding from entire state of Kerala for the year 2014-15. Out of this three projects are sanctioned to AJCE

- Virtual-I - 50,000/-
- B.A.T (Blind Assistance Technology) - 50,000/-
- Smart walking Stick - 40,000/-

#### 1.2 State Commissionerate for Persons with Disabilities. (Govt. of Kerala)

State Commissionerate for Persons with Disabilities has conducted a research enhancement programme, as part of it they had selected 5 projects for funding form entire state of Kerala out of this two projects are from AJCE

- Low cost vehicle for persons with disabilities - 20,000/-
- Modern auto wheel barrow - 20,000/-

#### 1.3 Innovation Ideas Unleashed- I2U- 14 (By AJCE)

It is a innovative project contest being organized by the college (only for our students). This year we have received record number of applications (112) and selected 12 projects for funding of 20,000/- for each projects.

“This will ensureinh the sustainability of IEDC even after the end of financial support from NSTEDB”

“ We are much thankful to NSTEDB for helping us to create this ecosystem in our college”

### 2. Idea to Market

#### 2.1 Gas trolley

Through Yuva Mastermind-14 contest we have developed a trolley for carrying gas cylinders. This product has received some orders even from abroad

- Name of the product : Gas trolley
- Manufactured by : Tesla Devices, Kottayam
- MRP : 1600/-

## 2.2 Arecanut husking tool

Through Yuva Mastermind-14 contest, we have developed a tool for husking areca nuts. It is an initiative of our student Mr. Abi Varghese. Already more than 300 pieces have been sold.

- Name of the product : Arecanut husking tool
- Manufactured by : Maharaja, Chengannur
- MRP : 199/-

## 2.3 Pepper Separator

The product “PEPPER SEPARATOR” which was developed by the team of students from our institution received further support from the Science and Technology Park ( STEP), Pune for its final prototype development and commercialization. The team went to STEP, Pune for Three months and developed a new model. Further work is in progress for the reduction of weight and volume of the equipment. In the near future, the product will be commercialized.

## **3. Prize winning projects**

### 3.1 Techtap- 2013.

Techtop is a national level project contest organized by Technopark, Trivandrum. Our project Advanced low cost cardamom drier has received second prize of Rs. 50,000/- in Techtap-2013.



### 3.2 Infocom- 2013

Infocom is a project contest organized by National science museum and Telegraph news paper at kolkatta. Our project Xerobot has received the second prize in this contest.

Xerobot is a pick and place robot.

### 3.2 NATCON- 2014

As part of NATCON, Kerala State Council for Science Technology and Environment (KSCSTE) and Centre for Engineering Research and Development(CERD) is organizing a state wide tech fest. We received the third prize in this contest for the project Green Hearth



## **4. IPR Cell**

### 4.1 IPR Cell

- An Intellectual Property Right Cell has sanctioned to AJCE by KSCSTE, Govt. of Kerala.
- It is the first of its kind and only IPR Cell for any self financing colleges in Kerala. (This is really the recognition of Govt. of Kerala for our R&D initiatives)
- IPR Cell is functioning under IEDC
- We are supporting the common public for submitting Patents applications
- We have submitted 10 patent applications from common public through our centre
- Organized a two day workshop on Innovation & patenting. (27,28 Sep-13)

## 5 Programmes organized

### 5.1 NIMAT Programmes

Under NIMAT schemes we have organized

- 10 EACs
- 2 TEDPs
- 1 FDP

EACs

- Organized ten EACs
- EAC is compulsory for all first year students
- Interested students are asked to submit the innovative project proposals.
- They are selected to ASCII and directed to TEDPs and other programmes
- This year we have organized two Entrepreneurship programmes out - side our campus
  - ✓ At Kollam, in association with Quilon Management Association
  - ✓ Marian college, Kuttikanam

TEDPs

- TEDP (Object Oriented Software Development Using Java.)
- TEDP(Systematic Approach to Automotive Engine & Chassis components )

FDP

- FDP (05/5/14 to 17/5/14)

### 5.2 Yuva Mastermind

- IEDC has been technical partner with Malayala Manorama- The leading Malayalam Newspaper, in the conduct of “Yuva Mastermind” – a state wide project
- contest held at both school and college levels. 50 projects selected from over 500 proposals received were funded for implementation.
- The final exhibition of the projects was held on 07, 08 FEB 2014
- Mastermind is an annual event.
- **Chief Guest for the programme**
  - ✓ **Dr. APJ Abdul Kalam**, Former President of India(2011)
  - ✓ **Mr. N R Narayana Murthy**, Chief Mentor, Infosys Technologies (2012)
  - ✓ **Dr. K Radhakrishnan**, Chairman, ISRO (2013)



✓ **Dr. Tessy Thomas**, Project director, Agni missile (2014)





### 5.3 Innovation Ideas Unleashed (I2U)

- In order to foster a spirit of innovation and to promote creative R&D activities among our students, the R & D wing of IEDC of AJCE “Amal Jyothi Scholars’ Community for Inspiring Innovation (ASCII)” is conducting a contest for innovative project ideas.
- It is open to all AJCE students, including M.Tech and MCA students.
- Selected projects will receive AJCE R&D funding for implementation (up to Rs. 20,000/- per project)
- Supported 12 projects this year

### 5.4 Two Day workshop on Innovation & Patenting

- Organized a two day workshop on Innovation & patenting. (27,28 Sep- 13) along with the inauguration of IPR Cell
- IPR Cell was inaugurated by Shi P H Kurian IAS, Principal Secretary, (Information Technology & Industries)

