

INNOVATION ENTREPRENEURSHIP DEVELOPMENT CENTRE (IEDC)

AMAL JYOTHI COLLEGE OF ENGINEERING, KANJIRAPPALLY.

ANNUAL REPORT- 2009-10

1.1 About the college

Amal Jyothi College of Engineering (AJCE) was founded and is managed by the Diocese of Kanjirappally under Diocesan Education Trust, Pastoral centre, Kanjirappally. It is steered by a Governing body comprising senior scientists, engineers and renowned educationalists. The core group consist of Mar Mathew Arackal, Bishop of Kanjirappally Diocese, Fr.Varghese Parintherickal, Manager, Dr. S. Balasubramanian, Director, Fr. Jose Kannampuzha, Principal, Dr. P. Basak and Dr. Erat S Joseph, Pro-Directors.

The college was founded in 2001, with a vision “To be a centre of excellence in technical education, research and support services, capable of making significant contribution to individual and social empowerment,” and mission “To create technically qualified world class professionals with social commitment through career – oriented courses conducted by high profile faculty, complemented with globally interactive learning processes and leading edge technology.” The long-term goals are “to create an engineering city of three hundred acres in area, owned by the management out of which the present campus occupies fifty acres and to develop a technological centre to uplift the rural community.”

1.2 Research and Development

Centre for Research and Extension in Sustainable Technology (CREST)

is a new department that brings all R&D consultancy and extension activities of AJCE under one umbrella. This centre is being directed by Dr. James Jacob, Dean of Research. CREST currently has three arms

- IEDC (Innovation Entrepreneurship Development Centre)
- ACTS (Amal Jyothi Consultancy and Technical Services)
- ABCD (Amal Jyothi Business Computing Division)
- ACAR (Amal Jyothi Center for Advanced Research)

1.2.1 Innovation Entrepreneurship Development Centre (IEDC)

- Our college is the only Engineering College in Kerala which is having IEDC under National Science & Technology Entrepreneurship Development Board (NSTEDB). The centre started function at the college in <month> 2009.

2.1 Inspiration behind the starting of IEDC

- Our long-term goal is to create an engineering city of three hundred acres in area, owned by the management out of which the present campus occupies fifty acres and to develop a technological centre to uplift the rural community.
- Many of our students have shown consistent interest to get more knowledge about entrepreneurship to be competent in the modern world.
- Our students and teachers have been proving their talent in developing innovative products by winning several national level project contests and getting funds for product development from various research and development institutes around the nation.
- There are no other centers in our district or neighboring districts for guidance in the field of entrepreneurship.
- The scope of rural technology development is very high because our college is located in a rural setting with most people depending on traditional farming methods.
- Our management and empowered faculty members are trying to provide technology based solutions to the problems faced by the agrarian rural community and these efforts have been streamlined through IEDC.

Activity Report

1. Official inauguration of Innovation Entrepreneurship Development centre (IEDC) was held on 20th January 2010. Mr. Anto Antony, Member of Parliament, Pathanamthitta Constituency has inaugurated this centre.
2. IEDC has organized 22 technical and 8 general clubs at the college to enable our students to pick up skills beyond the university curriculum. Every student has to choose one club of interest and the 4th hour of each Wednesday is devoted for club activity. Best club awards have been instituted to promote healthy competition among the clubs.

3. In association with national innovation foundation (NIF) we organized a seminar on new innovations on 6-8-08. This programme was led by Mrs Veejashree, Honorary coordinator, IGINITE-08
4. One day awareness programme was organized at St. Alphonsa Hall on 30 October 2008. Chief guest for this programme was Mr. Zakariahs Mathew, a well known machine design expert and industrialist. He spoke about the importance of good design in innovation, problem identification methods and creativity through imagination.
5. To inspire the students for identifying and developing good curriculum projects Mr. Zakariahs Mathew conducted one day awareness programme for interested students of our college on 9-12-2008. Several innovative ideas were presented in this programme by the staff and students of AJCE.
6. A team of German delegates visited the college on 9-12-08 and discussed procedures for the technology transfer and fund generation for innovations. In this programme Prof. Tommy Joseph presented ideas of solar air-conditioning system for library block and small sized wind mills. The team members expressed their interest in energy production and conservation and agreed to cooperate with hostel solar heating systems.
7. To enhance the creativity skill of our students a project presentation programme was organized on 10th December 08.
8. In association with Technopark Trivandrum and some Govt. organizations our centre has organized Technopreneur-09 at MACFAST Thiruvalla on January 12th 2009.
9. In order to foster a spirit of innovation and to promote creative R&D activities among our students, the centre has been conducting an annual contest for innovative project ideas. The contest is named Innovation Ideas Unleashed contest or popularly as I²U.

The I²U-2010 selection committee received a record number of 66 proposals for the contest and shortlisted 22 proposals for final evaluation after initial screening. Each student team presented their proposal before a panel of judges on 25th March 2010 at the college. The panel evaluated each proposal based on their innovativeness, potential impact, thoroughness of the proposal and practicability of implementation. Based on their recommendation, eleven projects have been selected for funding support from the

college during 2010. Five of these projects will be provided support for product development through IEDC Funds.

10. Principal has constituted an expert technical committee to select and monitor the IEDC projects. This committee consists following members.

Fr. Jose Kannampuzha

Prof. Dr. S. Balasubramaniam

Prof. Dr. James Jacob

Prof. Tomy Joseph

Prof. V. I. Cherian

Prof. Dr. Sony C. George

Prof. Sherin Sam Jose

11. Kerala chapter of Entrepreneurship Development Institute of India (EDII) organized a three day awareness camp for our students at our college from 15th January to 17 January 2010. Financial support for this programme was given by NSTEDB, New Delhi.

12. IEDC identified five innovative student projects and provided financial support leading to the development of successful prototypes under the valuable guidance and cooperation from our faculty and staff members. Some of these projects have won prizes in national level project contests. These projects are:

Robot for bore-well rescue

Pedal powered inverter

Driver's assistant

Digital pre-paid energy meter

Internet streaming radio

13. Government of Kerala had announced a state wide competition for developing equipment which can replace the human efforts (risk factor) for climbing the coconut tree through Directorate of Industries and Commerce This competition was held in two phases, viz. selection of applicable ideas from the proposals received which were invited for final presentation and from which eight proposals were selected for product development with a financial aid of Rs. one lakh per proposal. Out of these finally selected proposals, two of them were from **Amal Jyothi College of Engineering, Kanjirappally**. Even in a state level competition which involved a lot of professionals and scientists we were able to bag 25% of total selected projects.

14. As part of the continuous motivation and encouragement for our students we have organized a Business Skill Development Programme (BSDP). This programme consists of hundred sessions and each session is of 1.5 to 2 hrs of duration. This programme was organized during the holidays and evening hours in 2009-10.
15. In a unique initiative aimed at finding potential innovators from among college students, the Technology Business Incubator (TBI) at Technopark has kicked off a campaign, named as '*I am an Entrepreneur*'. Around 800 students participated for the campaign from this college.
16. A state wide innovative project contest is being organized in association with Malayala Manorama news paper. This programme is conducted at two levels; one for school students and other for college students. Series of advertisements were published in the news paper. More than 500 proposals have been received so far and scrutiny of these is being undertaken at our college to identify 50 best projects to be provided financial assistance for implementation by Manorama. The 50 projects are to be presented at an exhibition at our college to be held in January 2011. Prizeds to the tune of Rs. 4 lakh will be awarded to the winners.

We are indeed grateful to NSTEDB, Govt. of India for providing the necessary financial support and especially to Shri. Sujit Banerjee, Director NSTEDB for the constant support and encouragement he has provided. We look forward to a very fruitful year of activities for the year ahead.

Thank you all!

Prof. Sherin Sam Jose, Coordinator, IEDC

Date: 2 September 2010