

REPORT OF THE ACTIVITIES OF THE DEPARTMENT OF CHEMICAL ENGINEERING FOR THE ACADEMIC YEAR 2015-2016

Retirement and joining of faculty and staff

1. Dr. N.E. Jaffar, Professor, Department of Chemical Engineering, retired on 31 May 2015.
2. Mr. Shan S, Mr. Manikandan P.M. and Mr Adil Muhammed joined as Assistant Professors in October 2015
3. Mr. Muhammed Anzil P.K. and Ms Sree Soumya S. Nath joined as Instructor Grade 1 and Grade II respectively on 7.10.2015

STUDENT ACHIEVEMENTS

1. Ms. Devi Gopika G.S (2011-15 Batch) won All India Rank 3 in the GATE examination held in December 2015
2. Mr. Salil Salim Mathew secured All India Rank 41 in the GATE examination held in December 2015
3. Ms. Anjitha M (2011-15 Batch) secured 1st rank in B.Tech Chemical Engineering during the year 2015. She has been awarded with the Indian Institute of Chemical Engineers (IIChE) - CGG Panikar Gold Medal award instituted by the Trivandrum Regional Centre of the IIChE, Trivandrum.
4. 5 students of the 2011-15 batch qualified with high score in the GATE examination
5. Nithin Sebastian Kuncheria and Kiran Abraham Jacob won the special prize in the state level contest for innovative engineering projects at the tech fest- **Innovate,2016**, held at Amal Jyothi College of Engineering, Kanjirapalli, jointly organized by Amal Jyothi College of Engineering and APJ Abdul Kalaam Technical University
6. Nithin Sebastian Kuncheria and Kiran Abraham Jacob have been awarded a project funding of Rs. 15,000 by KSCSTE for the development of new carbon nano catalyst support with a spherical fibrous morphology.
7. Nithin Sebastian Kuncheria and Kiran Abraham Jacob won the best paper award for their paper in the 11th annual session of Students Chemical Engineering Conference, 2015, held at the department of Chemical Engineering, MIT Academy of Engineering, Alandi, Pune, Maharashtra held from 12th to 13th September 2015

FACULTY INTERACTION WITH OUTSIDE WORLD

- Prof. Manikandan P.M., Prof. Shan S and Prof. Adil Muhammed attended the Academia- Industry workshop organized by the Ministry of Petroleum and Energy at LNG- Petroleum Cochin on 28-30 April 2016.
- Dr. K.B. Radhakrishnan served as assessor/member of the inquiry committee constituted by the Government of India on the fireworks accident that took place at Puttingal Devi Temple, Paravoor, Kollam on 10th April 2016

- Dr. K.B. Radhakrishnan and Prof. Fazil A have been selected respectively as the curriculum committee convener and member of the curriculum committee of B.Tech Chemical Engineering of APJ Abdul Kalam Technical University
- Dr. K.B. Radhakrishnan served as the academic auditor of APJ Abdul Kalam Technological University, Kerala.

FACULTY PUBLICATIONS

- Presented 4 papers in international conferences
- Presented 2 papers in national conferences

STUDENT PUBLICATIONS

- 4 papers were presented in international conferences jointly by the faculty and students
- 18 papers were presented in national conferences

Involvement of Students in Programmes conducted by Professional Societies

- About 100 students of the department attended the technical lectures and other programs organised by the IChE Trivandrum Regional Centre of the Indian Institute of Chemical Engineers at Trivandrum.

PROGRAMES CONDUCTED WITHIN THE DEPARTMENT

- **Faculty Development Programme on “Renewable Energy: Policies & Practices”** was conducted from 30th November, 2015 to 5th December, 2015.
- An expert lecture on **“Science behind Natural Phenomena – Analysis & Interpretations”** by Mr. Sujith R, Scientist, VSSC Trivandrum was organized by the Department of Chemical Engineering, TKMCE Kollam in association with Chemical Engineering association & IChE student chapter on 31st March, 2016
- An expert lecture on **“CVD and its Applications”** by Dr. Giridhar R Nair, Head of the Department, Department of Biotechnology & Biochemical Engineering, Sree Buddha College of Engineering was organized on 8th April, 2016 to address the curriculum gaps.
- Workshop on **“Perspectives, prospects and problems in value addition of beach sand minerals”** organized by the department of Chemical Engineering, TKM College of Engineering, Kollam was conducted on 5th February, 2016.
- An expert lecture on **“Piping and Instrumentation Diagrams”** was conducted on 8th September 2016 by Mr. Prashanth S, Director, Petrocil Engineers and Consultants, Trivandrum.
- Dr. Rebi Roy, Assistant Professor, Department of Mechanical Engineering, TKM College of Engineering, delivered a lecture on **“The Fundamentals of Computational Fluid Dynamics”** on 12th April 2016 to address the curriculum gaps.
- Two Day Workshop on **“Computer Aided Process Simulation and Design”** was conducted from 11th August 2015 to 12th August 2015 for the students of the final and pre-final years

The sessions were handled by Dr. P.A.Solamon (Professor & Head, Dept. of Chemical Engineering, Govt. Engineering College, Thrissur) and Prof. A.M.Manilal (Asst. Professor, Dept. of Chemical Engineering, Govt. Engineering College, Thrissur).

- A lecture on “**Introduction to Paper Presentation**” by Prof. Fazil.A, Asst. Professor, Department of Chemical Engineering, TKMCE was conducted on January 15th, 2016 for the pre-final year students
- The chemical Engineering Association Inauguration was conducted on 1st February 2016. The programme was inaugurated by Er. K Sajeewan (Chairman, Kerala State Pollution Control Board.) Along with that the function witnessed the successful launching of Department Student Website with the address www.tkmcechemical.wix.com/chemical. The website was launched by Dr. Imthias Ahamed T.P (Prof & Head of the Department, Department of Electrical & Electronics Engineering)

Industrial Training

During the academic year 2015-16, majority of the students of pre-final year (2013 admissions) completed their industrial training in various organizations as listed below.

Academic	Number of	Name of Industry	Duration
2015-16	10	BPCL Kochi Refinery	11days
	27	KMML Chavara, Kollam	11days
	1	HPCL, Capacity Building, Kochi	3days
	4	The Fertilizers & Chemicals Travancore Ltd, Udyogamandal	15days
	4	Hindustan Organic Chemicals Ltd, Ambalamugal	15days

Industrial Visits

During the academic year 2015-16, the students of Chemical Engineering department visited different chemical industries to have an overview of the Industrial setup and the related aspects. The list of industrial visits conducted during the academic year is as below.

Batch	Number of Students	Name of Industry	Date
2013-17 (2013 Admission)	73	Travancore Titanium Products Ltd., Trivandrum	22/03/16
	73	Trivandrum Diary, Trivandrum	22/03/16
	75	Hindustan Insecticides Ltd., Ernakulam	22/08/15
	75	Travancore Cochin Chemicals Ltd., Ernakulam	22/08/15

TKM COLLEGE OF ENGINEERING		
RESULT ANALYSIS OF UNIVERSITY EXAMINATION APRIL 2015 – 2011 ADMISSION		
BRANCH : CHEMICAL ENGINEERING		
2011-2015 BATCH		SCHEME : 2008
ITEM/CATEGORY	NAME/NUMBER	CGPA
TOPPER	ANJITHA M	9.1
SECOND TOPPER	DEVI GOPIKA G S	8.91
POSITION IN UNIVERSITY BASED ON PASS %	FIRST	
PERFORMANCE DETAILS		NUMBER / %
TOTAL NO. OF STUDENTS	62	X
NO. OF STUDENTS PASSED IN STIPULATED TIME	45	
PERCENTAGE OF PASS (%)	72.58	
NO. OF DISTINCTION (>= 8.0)	08	
NO. OF FIRST CLASS (6.5 – <8.0)	36	
NO. OF SECOND CLASS (5.0 – <6.5)	01	

Results of June 2016 (2012-2016 Batch)

TKM COLLEGE OF ENGINEERING		
OVERALL RESULT ANALYSIS OF UNIVERSITY EXAMINATION – JUNE 2016		
BRANCH : CHEMICAL ENGINEERING (2012-2016 Batch)		
SCHEME : Kerala University, 2008		
ITEM/CATEGORY	NAME/NUMBER	SGPA
TOPPER	JERRIL JOY	9.16
SECOND TOPPER	SHUHAIB SUBAIR GOURI MENON SWETHA VASUDEVAN	8.96
POSITION IN UNIVERSITY BASED ON PASS %	FIRST	
NO. OF STUDENTS APPEARED	71	
NO. OF STUDENTS PASSED	41	
PERCENTAGE OF PASS (%)	57.74%	
NO. OF DISTINCTION (>= 8.0)	18	
NO. OF FIRST CLASS (6.5 – <8.0)	21	
NO. OF SECOND CLASS (5.0 – <6.5)	2	