

## COURSE CONTENTS

### ✦ Introduction of Optimization Technique

### ✦ Analytical Hierarchy Process

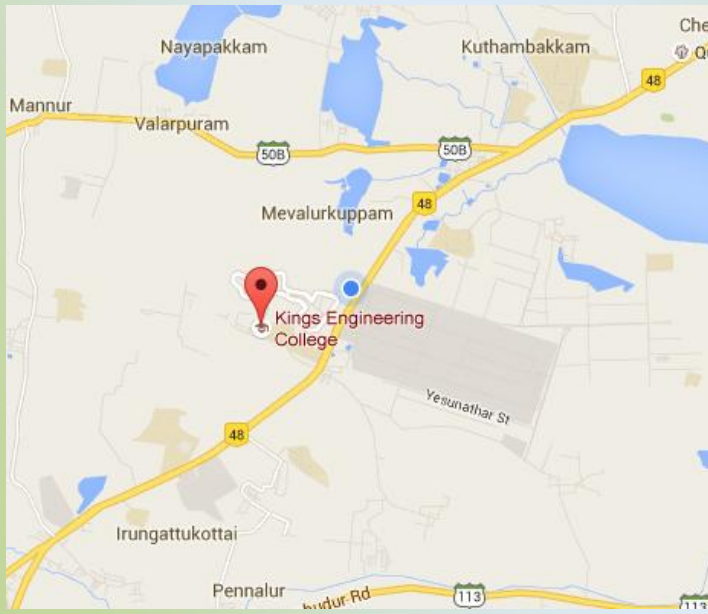
AHP (Analytical Hierarchy Process) is a powerful tool for organizing and analyzing complex problems. AHP has ability to handle decision making and to measure consistency of performance

### ✦ Ants Colony algorithm

Ant colony optimization (ACO) algorithms a fast Sub optional meta-heuristic based on the behaviour of a set of ants that communicate through the deposit of pheromone

### Location

Kings Engineering College is located at Irungattukottai, Sriperumbudur Taluk on the Chennai - Bangalore National Highway, just 20 km from the periphery of the Greater Chennai Metropolitan city of Tamil Nadu State.



### CHIEF PATRON

Dr.Nalini Selvaraj, M.Com., M.Phil.,  
Chairperson, Kings Engineering College.

### PATRON

Mr.S.Amirtharaj, B.Tech., M.B.A.(UK),  
Director, Kings Engineering College.

### CONVENER

Dr.A.V.Mayakkannan, M.E., Ph.D.,  
Principal, Kings Engineering College.

### CO-CONVENOR

S.Hanish Anand, M.Tech., (Ph.D.)

### HOD/Mechanical

### COORDINATORS

Dr.A.MuniaRaj, Professor / Mechanical

Mr.T.Augustin, Assistant Professor / Mechanical

### Address for Communication

### THE COORDINATORS

DEPARTMENT OF MECHANICAL ENGINEERING,  
KINGS ENGINEERING COLLEGE

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**KINGS**  
**ENGINEERING COLLEGE**

Irungattukottai, Sriperumbudur, Chennai – 602 117, India.

**One Day**  
**National Level Workshop**  
**On**  
**“Optimization Techniques”**



Date: 24<sup>th</sup> August 2017

Venue: College Auditorium

Organized By

**Department of Mechanical**  
**Engineering**  
**(NBA Accredited)**

In association with



## ABOUT THE INSTITUTION

**KINGS ENGINEERING COLLEGE** was founded by **Late. Dr. Oorvasi D.Selvaraj M.A., M.Phil.**, and is managed by the Chartian Educational and Health Trust, a Registered Trust of public nature for Educational and Charitable purposes in the year 2001. The Vision of Kings Engineering College is to provide industry relevant technical education, motivate our technocrats to carry out skilful research and encourage innovation and thereby uplift our society through technology. The college is approved by AICTE, New Delhi and affiliated to Anna University, Chennai, Tamil Nadu. The college offers the following four UG programmes Computer Science and Engineering, Information Technology, Electronics and Communication Engineering and Mechanical Engineering and one PG programme M.E. Computer Science. The college maintains high standard of education by providing a wide array of excellent academic facilities, employing highly qualified and experienced faculty members and creating an ambience conducive for quality education. The management motivates all students to carve a niche in the society by providing quality education, discipline and by placing them in top companies.

## ABOUT THE DEPARTMENT

The Department of Mechanical Engineering was established in the year 2001 to cater to the needs of the students. It was later accredited by NBA in year 2016. Excellent and dedicated faculty add to its strength. The department has large and spacious laboratories with a congenial ratio of student to equipment. They get to work, hands-on and get real-time experience under the guidance of the highly experienced faculty. The department aims to achieve higher levels of glory in the years to come. The students acquire interpersonal and communication skills from the Mechanical Association and promote their professional skills through society.

## ABOUT THE PROGRAMME

The workshop aims at providing a forum for UG/PG level Students, teachers of various technical institutions of the country as well as the technical researchers for upgrading their knowledge on recent advances with in the field of optimization techniques. "Optimization Techniques" have been utilized in numerous applications to getting best solutions underneath the given circumstances. The workshop is designed in such a way that it will enlighten the participants with both theoretical and practical aspects of most distinguished engineering optimization methods.

It is intended to describe the systematic approach of optimization, which includes problem definition, its mathematical formulation, selection of a suitable optimization method, and detailed analysis of the solution obtained.

Emphasis can also be given to modify the participants to formulate and optimize engineering problems with minimum programming skills.

## WHO CAN ATTEND

This workshop is going to be suitable for U.G students, P.G.Students, Research Scholars and early career faculty members from any discipline of engineering who are interested in the applications of optimization techniques in real world problems.

### How to apply?

**please visit: <https://kingsmechworkshop.yolasite.com>**

### For Registration,

Registration fees for the workshop will be Rs.200/-. It shall be paid as a Demand Draft drawn in favour of "Kings Engineering College", payable at Chennai.

## IMPORTANT DATES

Event Date: 24<sup>th</sup> August 2017

Last Date to apply: 21<sup>st</sup> August'2017

Confirmation: 22<sup>nd</sup> August'2017

(Through e-mail)



# KINGS ENGINEERING COLLEGE

## One Day National Level Workshop On "Optimization Techniques" Registration Form

Name (in Block Letters):.....

Date of Birth & Age: .....

Qualification: .....

Experience (if any): .....

.....

Designation & Dept:.....

Institution / Organization: .....

.....

Address: .....

.....

.....

..... Pincode: .....

E-mail:.....

Mobile No: .....

Accommodation required: Yes / No

Registration fee paid Rs.....D.D. No.....

Bank.....Branch.....

Date.....

The given information is true to the best of my knowledge. I agree to abide by the rules and regulations governing the programme.

Signature of the Applicant