

### Payment particulars

Cheque / DD Number:

Bank :

Date :

Amount (Rs) :

Place :

Date : Signature of the participant

### **BONAFIDE**

This is to certify that Mr./Ms. \_\_\_\_\_ is a student/ faculty/ employee of our institution/organization and hereby sponsored. He/She will be permitted to attend the programme.

Date: Office Seal Signature of the Sponsoring Authority

For further details please contact

**Ms.L.Priya**  
**AOP/IT,**  
**Training Co-ordinator**

COE in Machine vision  
Rajalakshmi Engineering College,  
Thandalam, Chennai -602105  
Mobile: +91-9841036875  
Mobile: +91-9344353226  
Ph: 044-37181111

Email: priya.l@rajalakshmi.edu.in  
Website: [www.rajalakshmi.org/tifac-core](http://www.rajalakshmi.org/tifac-core)

### Dates to ponder

**Last date for Registration : 10<sup>th</sup> AUG 2017**  
**Programme Schedule : 17<sup>th</sup> -19<sup>th</sup> AUG 2017**  
**Timings : 8.30 AM To 3.00 PM**

### Registration Fee

Students from Academic Institutions: Rs. 750/-  
Participant from Govt. Research Organizations: Rs. 1500/-  
Faculty from Academic Institutions: Rs. 1000/-

(Inclusive of Lunch & Tea)

### **Note:**

Payments to be made in the form of DD only

DD to be drawn in favour of:  
**Rajalakshmi Engineering College, payable at chennai**

- ✚ For transport details, visit [www.rectransport.com](http://www.rectransport.com)
- ✚ For accommodation requirements, please contact on or before 12<sup>th</sup> AUG 2017.
- ✚ Number of Participants is limited to 30 only. Participants are requested to bring their Laptop for all practical sessions, which will facilitate the loading of the software during the conduct of the course.
- ✚ Registration can be done through email by sending DD number.

**Rajalakshmi Engineering  
College, Chennai**

**WORKSHOP ON 3D Object  
Recognition Techniques**

**17<sup>th</sup> AUG 2017 -19<sup>th</sup> AUG 2017**



**Organized by**

**Center of Excellence in  
Machine Vision-A TIFAC CORE LAB**

## Rajalakshmi Engineering College

Rajalakshmi Engineering College is one of the leading ISO-9001-2000 certified; NAAC and NBA accredited engineering colleges established under self-financing scheme in 1997. The college has been growing from strength to strength in the last 18 years and moving ahead to become a Centre of Excellence in Engineering, Management Education, Research and Development. The college is located in a serene atmosphere amidst many multinational companies in Thandalam, about 25 kms from Chennai on the Bangalore National Highway (NH4), providing the right industrial ambience for the budding engineers. The institution currently offers 13 UG programs, 9 PG programs, and 9 Research programs.

## Centre of Excellence in Machine Vision

Centre of Excellence in Machine Vision at Rajalakshmi Engineering College is established with seed funding from TIFAC-CORE, Department of Science and Technology, New Delhi. The centre has been providing solutions for automated QC in manufacturing production lines. Several solutions have been implemented for Industries such as automotive, Pharmaceutical; Electronics and Packaging. The centre provides consultancy services, turn-key solutions, Courses for academicians and corporate executives as well as in house training for budding engineers.

## Workshop Content

	FN(T)	AN (P)
Day 1	2D Object Recognition Pattern Matching Shape matching	Python programming – An introduction
Day 2	Object Recognition Algorithms - Overview Decision Theoretic approaches	<ul style="list-style-type: none"><li>• Pattern Matching</li><li>• Pyramid modeling using python</li><li>• Interpreting depth images</li></ul>
Day 3	Demonstration of Machine Vision Camera(s) and appropriate Lightings  Mini-project in any of the following areas <ul style="list-style-type: none"><li>• 2D object detection</li><li>• 3D object recognition from 2D images</li><li>• Pattern Matching</li><li>• Detection of objects in a video segment</li><li>• Sliding shapes for 3D object detection in depth images</li></ul>	

T- Theory Sessions; P-Practical Sessions

## Course Outcome

At the end of the course, the participant will be confident in handling,

- 2D recognition of objects
- Object tracking in a video sequence
- 3D recognition of objects from 2D images

## REGISTRATION FORM

### WORKSHOP ON 3D Object Recognition Techniques

**17<sup>th</sup> AUG -19<sup>th</sup> AUG 2017**

**Name** (in BLOCK LETTERS) :

**Institution/Organization** :

**Address For Communication** :

**E-mail ID** :

**Phone (Off.)** :

**(Res.)** :

**Mobile** :

Signature of the  
Sponsoring authority

Signature of the  
Participant