

## DEPARTMENT OF MECHANICAL ENGINEERING

Report on

### SKILL ENHANCEMENT TRAINING PROGRAM ON IC ENGINE DISSECTION PROCEDURES

on

05-06 Sep 2019

#### Coordinators



**Dr. R. Ramesh**



**Dr. C. Senthamarai Kannan**



Dr. S. RAMESH BABU, M.E., Ph.D  
Professor & Head  
Department of Mechanical Engineering  
Sri Venkateswara College of Engineering  
Pennalur, Sriperumbudur (TK) - 602117.  
Tamilnadu, INDIA.

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## APPROVAL LETTER

Sri Venkateswara College of Engineering  
Department of Mechanical Engineering

To  
Dr. RR  
Ray  
4/9/19

Submitted to The Principal

3/09/2019

Through The HOD/ME

Dear Sir,

**Sub:** Requesting approval for conducting "TWO DAY SKILL ENHANCEMENT TRAINING ON IC ENGINE DISSECTION PROCEDURES" in association with Atalon, Chennai in the month of September, 2019-Reg.

We are interested to conduct "TWO DAY SKILL ENHANCEMENT TRAINING ON IC ENGINE DISSECTION PROCEDURES" during 5<sup>th</sup> & 6<sup>th</sup> September, 2019. We plan to conduct this workshop for the Mechanical Engineering Students in association with Atalon Company, Chennai, who is pioneer in NVH of Engine Systems. No of Students is restricted to 35.

The Registration Fee of Rs 650/- will be directly payable to Atalon, Chennai, which includes Training, certification and refreshments.

Principal's Kind permission is requested for conducting the workshop.

Thanking you in anticipation

Yours sincerely,



Dr. R. Ramesh, M.E., Ph.D  
Professor/ME

Sir,  
Forwarded.

Ch/ME - 11  
31/8/19  
(K. S. BADRINATHAN)

To: HOD-ME  
Approved  
3/9





SRI VENKATESWARA COLLEGE OF ENGINEERING  
DEPARTMENT OF MECHANICAL ENGINEERING



**SKILL ENHANCEMENT TRAINING PROGRAM**

**PART I : IC ENGINE DISSECTION PROCEDURES**

In Association With

Atalon , Product Center private Limited, Chennai



**ATALON**

Product Center Private Limited

&

Tech X, Chennai

**TECHX**

KALAM'S VISION FOR INDIAN YOUTH

DATE : 5<sup>TH</sup> & 6<sup>TH</sup> SEPTEMBER 2019

**Objective of the Program:**

This program is to enhance the competency, confident and capability of the Mechanical Engineering students towards their professional development. In this module, dissection procedures of different IC engines are demonstrated and training will be given by the industry experts.

**Chief Patron**

**Prof. M.Sivanandham**  
Secretary, SVEHT.

**Patron**

**Prof.S.Ganesh Vaidyanathan**  
Principal, SVCE

**Convenor**

**Dr.S.Rameshbabu,**  
Professor and Head of the Department,  
Mechanical Engineering  
SVCE

**Corodinator**

**Dr.R.Ramesh,**  
Professor, Mechanical Engineering, SVCE  
**Dr.C.Senthamaraikannan,**  
Assistant Professor, Mechanical Engineering, SVCE

**Venue :** Quality Management Center Hall , Department of Mechanical Engineering ,SVCE

**Registration Fees :** Rs 650/-

**Contact Person:**

**Dr.R.Ramesh,**  
Professor, Mechanical Engineering  
Sri Venkateswara College of Engineering,  
Pennalur, 602117  
rameshraj@svce.ac.in

**Mr.R. GOVARDHANA GIRI**

Managing director – Atalon Pvt Ltd.

**Mr.K.YUVARAJ**

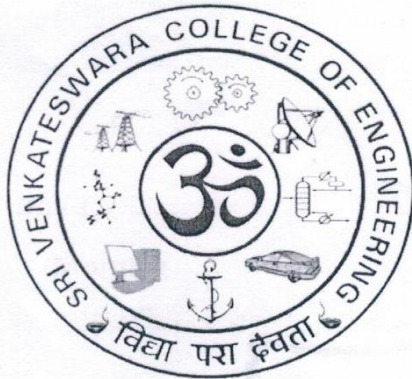
CEO – Techx

**Mr.S. VALLADURAI**

COO – Techx



# PROGRAM SCHEDULE



## TWO DAY SKILL ENHANCEMENT TRAINING ON IC ENGINE DISSECTION PROCEDURES

**DATE : 5<sup>TH</sup> & 6<sup>TH</sup> SEPTEMBER 2019**

### HANDS ON TRAINING ENGINES LIST

1. TATA Indica engine
2. TATA indigo engine
3. Pulsar 250cc engine
4. Honda twister engine
5. Yamaha FZ engine

### DEMO LIST

1. SUPER BIKE
2. Hybrid cycle concept engine ( Acrylic model)



# ATTENDANCE LIST



**SRI VENKATESWARA COLLEGE OF ENGINEERING**  
DEPARTMENT OF MECHANICAL ENGINEERING



**SKILL ENHANCEMENT TRAINING PROGRAM**  
PART I : IC ENGINE DISSECTION PROCEDURES  
DATE : 5<sup>TH</sup> & 6<sup>TH</sup> SEPTEMBER 2019



**Attendance Sheet**

S.No	Name	05/09/2019	06/09/2019
1.	M.DHANUSH	M. Dhenu	M. Dhenu
2.	S.M. JAYASHANKAR	S.M. Jayashankar	S.M. Jayashankar
3.	M.NARENKUMAR	M. Narenkumar	M. Narenkumar
4.	S.MANIBALAN	S. Mani	S. Mani
5.	MANOJ KUMAR.R	R. Manoj Kumar	R. Manoj Kumar
6.	ARJUN S V	S.V. Arjun	S.V. Arjun
7.	AKASH K	Akash K	Akash K
8.	HARI PRASAANTH S P	Hari Prasaanth S P	Hari Prasaanth S P
9.	AMANULLAH S	Amanullah S	Amanullah S
10.	K GOKULA KRISHNAN	K. Gokula Krishnan	K. Gokula Krishnan
11.	KAVIYARASAN.R	Kavi Yarasar. R	Kavi Yarasar. R
12.	BARATH M	M. Barath	M. Barath
13.	HARISH KUMAR S	Harish Kumar S	Harish Kumar S
14.	INBASELVAN E	E. Inbaseivan	E. Inbaseivan
15.	HASITH MADDIPATTALA	H. Hasith Maddipattala	H. Hasith Maddipattala
16.	ANIRUDH JALAGAM	A. Anirudh Jalagam	A. Anirudh Jalagam
17.	N.GAUTAM	N. Gautam	N. Gautam
18.	S.GOWTHAM	S. Gowtham	S. Gowtham
19.	A.MAGILAN XAVIER	A. Magilan Xavier	A. Magilan Xavier
20.	GUNAL.J	G. Gunal J	G. Gunal J
21.	P.E.SINAENDHRAN	P. E. Sinaendhran	P. E. Sinaendhran
22.	SHITHARTH.K	K. Shitharth	K. Shitharth
23.	SHANKARR.B	B. Shankar R	B. Shankar R
24.	SANJAY KUMAR K	K. Sanjay Kumar	K. Sanjay Kumar
25.	PRIYANKA V	V. Priyanka	V. Priyanka
26.	PRASANNA VENKATESH M	M. Prasanna Venkatesh	M. Prasanna Venkatesh
27.	SASIDHARAN U	U. Sasidharan	U. Sasidharan
28.	SENTHIL ARASAN P	P. Senthil Arasan	P. Senthil Arasan
29.	SRIVATHSAN K	K. Srivathsan	K. Srivathsan
30.	SARAN V	V. Saran	V. Saran
31.	KARTHICKEYAN.M	M. Karthickeyan	M. Karthickeyan
32.	GNANA MANOLA S	S. Gnana Manola	S. Gnana Manola
33.	SYED ASMATH	S. Syed Asmath	S. Syed Asmath

**Coordinators**

**Dr. R. Ramesh**

**Dr. C. Senthamarai Kannan**

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## PROGRAMME SUMMARY

The workshop was organized in association with Atalon Pvt Ltd and Techx Pvt Ltd. Objective of this workshop is to give knowledge on Engine parts by dissecting the engine. Dismantling and assembling of four stroke petrol engine and identification of parts was carried out in the training process. Different kinds of tools used to dismantle the engine is demonstrated and hands on training is provided. Following Procedure is adopted during the live engine dissection training,

1. Remove the connection from the battery
2. Remove the drain cock from the radiator and drain the water.
3. Remove the drain plug from the oil sump and drain the oil.
4. Remove the air cleaner, valve, carburettor, rock arm assembly, push rod, and rocker arm lubrication tube.
5. Then loose the engine head bolts and remove the gaskets carefully. Then remove the engine head and place it on a workbench.
6. Punch the valves and with the help of lock washer valve spring compressor remove the valve spring, valve lock cup and remove the valves from the head.
7. Clean the valves, rocker arm, pushrod, tappet, valve guide, valve spring, valve lock cup etc. if any parts are damaged replace it with new one.
8. After removing the carburettor from the engine body, dismantle all the parts from the carburettor and clean it using petrol and compressed air.
9. Remove the inlet manifold and exhaust manifold from the engine block and remove the gaskets carefully.
10. Clean the inlet manifold using petrol and remove the carbon from the exhaust manifold with the help of wire brush and finally clean the manifold by kerosene.
11. Then assemble all the parts by reverse of dismantling procedure. And check timing and adjust the distributor for correct advance.
12. Then start the engine and correct the low speed screw, needle screw and fit the air filter.



## SAMPLE PARTICIPANT FEEDBACK FORM



**SRI VENKATESWARA COLLEGE OF ENGINEERING**

(AUTONOMOUS - AFFILIATED TO ANNA UNIVERSITY, CHENNAI)

PENNALUR, SRIPERUMBUDUR (Tk) - 602 117

DEPARTMENT OF MECHANICAL ENGINEERING



# CERTIFICATE OF PARTICIPATION

This is to Certify that Inbaselvan.S  
has participated in

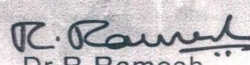
**SKILL ENHANCMENT TRAINING IN IC  
ENGINE DISSECTION PROCEDURES** Conducted in  
association with **ATALON & TECHX**, Chennai

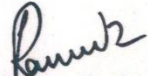
On 5<sup>th</sup> & 6<sup>th</sup> September 2019



  
Mr. Govardhana Giri, B.E., M.B.A.,  
Managing Director  
ATALON

  
K. Yuvaraj, B.E.,  
CEO  
TECHX

  
Dr. R. Ramesh  
Co Ordinator

  
Dr. S. Ramesh Babu  
Convenor - HOD Mechanical