## Society of Automotive Engineers (SAE) India Student Chapter Activities

### 2017-18:

<table>
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<tr>
<th>No.</th>
<th>Date of activity</th>
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<th>Description of the activity</th>
<th>Achievements/Evidence of the activity (Photos)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>12&lt;sup&gt;th&lt;/sup&gt; August to 20&lt;sup&gt;th&lt;/sup&gt; August 2017</td>
<td>Training programme on MATLAB</td>
<td>To provide training on MATLAB applications in Mechanical Engineering</td>
<td>SAE organised a forty hours training program on MATLAB applications in Mechanical Engineering from 12&lt;sup&gt;th&lt;/sup&gt; August to 20&lt;sup&gt;th&lt;/sup&gt; August 2017. Dr. Suhas Deshmukh, Director, IoT Mechatronics Pvt Ltd was the trainer for the program</td>
<td>![Image of the training session]</td>
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<td>2.</td>
<td>July 2017 – March 2018</td>
<td>Design, Manufacturing and testing of All Terrain Vehicle (ATV), Racing car, Karting Vehicle, battery operated racing car and an aeroplane.</td>
<td>To showcase technical skills of students in designing and manufacturing of various types of vehicles and an aeroplane model.</td>
<td>A team of Mechanical and production engineering students called DJS Kronos (All-Terrain Vehicle) designed, manufactured and tested a All Terrain Vehicle (ATV). This team participated in BAJA SAE INDIA 2018 and Enduro Student India 2018 and they have won the following prizes.</td>
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</table>
|    |                |                                                                                           |                                                                                           | Enduro Student India 2018
- Runners up in Maneuverability Event.
- Runners up in Business Plan Presentation.
- Second runners-up in ESI Virtual League.
- Overall 3rd in Static Events.
- Overall Rank 10

   Baja Sae India 2018
- Winners of the Maneuverability Event.
DJS Racing (Formula-Style Racing Car) participated in Formula Bharat 2018 and won the following prizes:

Formula Bharat 2018 prizes:
- Fourth overall
- First in the Cost event
- First in the Design event
- First in Manufacturing
- First in skidpad
- 2nd in fuel efficiency
- 4th in Endurance
DJS Karting INDIA (Go-Kart) participated in Go Kart Design Challenge 2018 and Indian Karting Championship 2018 and won the following prizes:

DJS Thunderbolt (Electric Vehicle) participated in Formula Bharat 2018 and they secured 6th position in cost analysis and sustainability, 7th in business plan and 9th position in design reporting and delivery event.

Jay Sanghrajka selected as a team member for Volkswagen Motorsport Ameo Cup 2018, which will broadcast live in Discovery Turbo.

Go Kart Design Challenge 2018
- Best Autocross
- Best CAE
- Best Acceleration
- 2nd in Skid pad
- 2nd in Business plan
- 2nd in Design event

Indian Karting Championship 2018 (AY 2017-18)
- Best CAE
- 3rd in Design presentation
DJS Skylark, a team of mechanical and production engineering students designed, manufactured and tested a model of aeroplane. They participated in an International competition held in Texas USA and won following prizes:

- 1ST in Technical Design Report Worldwide
- 1st in Asia-Pacific.
- 4th Overall Worldwide
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<tr>
<td>1.</td>
<td>28&lt;sup&gt;th&lt;/sup&gt; January 2017</td>
<td>Guest lecture on Vehicle Dynamics</td>
<td>To provide technical knowledge on vehicle dynamics by an eminent Professor.</td>
<td>An invited talk on Vehicle Dynamics by Dr. Shaktivel, Associate Professor, VIT University, Vellore by SAE on 28&lt;sup&gt;th&lt;/sup&gt; January 2017</td>
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<tr>
<td>2.</td>
<td>4th February 2017</td>
<td>Guest lecture on Jet Propulsion Engines</td>
<td>To provide technical knowledge on Jet Propulsion engines by an industry expert.</td>
<td>An invited talk on Jet Propulsion Engines by Mr. F. A. Shaikh (Assistant General Manager in Technical services, Air India) on 4th February 2017.</td>
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3. **July 2016 – March 2017**

Design, Manufacturing and testing of All Terrain Vehicle (ATV), Racing car, Karting Vehicle, Solar car and an aeroplane.

To showcase technical skills of students in designing and manufacturing of various types of vehicles and an aeroplane model.

**DJS Kronos** is an All-Terrain Vehicle design team that competes under the BAJA off-road vehicle design and race competition organized by the Society of Automotive Engineers (SAE) annually in various locations spread out across the globe.

- Participated in Enduro Student India (ESI) competition held at Coimbatore from 5th to 9th January 2017.

**Achievements**
- Ranked 3rd in Mumbai,
- Secured first runner up for sales event and
- Secured second position in Sales Presentation.

**Achievements**
- Secured 52nd position among 182 overall,
- Secured 11th position in maneuverability and
- Secured 16th position in cost report.
DJS Racing is a formula-style racing car design team. They design, develop and test a race car that competes in Formula Student series held in India and around the globe.

Team participated in Formula Bharat at Kari Motor Speedway in Coimbatore from January 26th-29th 2017.

Achievements
- Achieved overall rank of 6 out of 58 teams.
- Team DJS Racing was awarded the best designed Formula style Race Car.

b) Team has successfully qualified for Formula Student Germany and Czech Republic 2017, for their formula style race car.

c) Team has successfully qualified for Formula Student Germany, which is to be held at Hockenheim Ring, Germany from August 8th to 13th August 2017. The team has been placed at 10th position worldwide in the registration quiz for Formula Student Germany 2017.
DJS Skylark design, develop and test RC aircraft for SAE Aero Design Competition.

Participated in SAE Aero Competition at Texas, USA from 10th March to 12th March 2017.

DJS Karting INDIA design and fabricate a go-kart.
Team was involved with three competitions:
National Kart Racing Challenge (NKRC) in Oct 2016
Go Kart Design Challenge (GKDC) in January 2017
Indian Karting Championship (IKC) in January 2017.

Participated in National Kart Racing Championship held at Kolhapur district of Maharashtra

Achievements
- Secured fourth position overall,
- Secured first position in design report,
- Secured fourth position in flight round and
- Secured 12th position in technical oral presentation.

Achievements
- Team cleared Technical Inspection round
from 29th September to 2nd October, 2016.


Participated in Indian Karting Championship at Pune from 26th – 29th January 2017.

DJS Helios team design, fabricate and test a single seated solar powered car.

Participated in Electric Solar Vehicle Championship (ISIE-ESVC2016-17) scheduled from 28th March to 2nd April 2017 at Bhimavaram, Andhra Pradesh which is Asia’s biggest solar vehicle design and manufacturing event.

Achievements
- Secured the 5th rank overall,
- 1st place in skid pad,
- 2nd place in auto cross,
- 2nd place design and
- 2nd place business plan

Achievements
- Secured 22nd position overall among 86 teams from all over India,
- Secured 11th position in business plan event,
- Secured 15th position in cross pad and
- Secured 18th position in Innovation.
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<tr>
<td>1.</td>
<td>July 2015 to December 2015</td>
<td>Software training on Solid Works Modelling</td>
<td>To provide practical training on solid works software</td>
<td>Solid Works Modeling Software Training conducted between July 2015 and December 2015 in premises of Mechanical Engineering Department, by CADD Centre Mumbai.</td>
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<td></td>
<td></td>
<td>German language classes</td>
<td>To impart training on foreign language</td>
<td>German Language classes are being conducted in the premises of Mechanical Engineering Department, by Mrs. Ujwal Anil, a language consultant. The classes commenced in January 2016 and will end by June 2016.</td>
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<td>3.</td>
<td>July 2015 – March 2016</td>
<td>Design, Manufacturing and testing of All Terrain Vehicle (ATV), Racing car, and an aeroplane.</td>
<td>To showcase technical skills of students in designing and manufacturing of various types of vehicles and an aeroplane model.</td>
<td>DJS Kronos participated in BAJA Student India – National Level Off-road Racing Competition organized by Delta Inc. and sanctioned by FMSCI. It was held at the Buddh International Circuit, NOIDA in January 2016. Participated in BAJA SAE India – National Level Off-road Racing Competition organized by SAE India and Mahindra &amp; Mahindra. It was held at the NATRAX Facility, Indore</td>
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</table>

### Achievements

1. Maneuverability Event - 1st Position
2. Weight Pull Event - 4th Position
3. Overall - 8th Position
DJS Racing Participated in Formula Student India- National level Race car Design competition organized by Delta Inc. and sanctioned by FMSCI. It was held at the Buddh International Circuit, Noida in January 2016.

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<td>Cost Event- 2nd Position</td>
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<td>Design Event- 4th Position</td>
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<td>Overall- 6th Position</td>
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DJS Skylark participated in SAE International AERO Design East – International level RC Aircraft design competition organized by SAE International. It was held in Fort Worth, Texas, USA in March 2016.

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| 4. | 4th February 2016 | Guest lecture on Project Based Learning | To provide knowledge about Project Based Learning.  
 |   |   |   | An invited talk on “Project Based Learning” on 4th February, 2016 by Dr. Sandeep Inamdar (Managing Trustee, Vishwaniketan) |
| 5. | 22nd March 2016 | Guest lecture on Introduction to Oil, Gas and Power Sector | To impart basic practical knowledge on Petrochemical industries.  
 |   |   |   | An invited talk on “Introduction to Oil, Gas and Power Sector” on 22nd March, 2016 by Mr Vasant Dinkar Mestry (Chairman and MD, Suvidya Institute of Technology). |

**Achievements**

Oral Presentation- 3rd Position (Regular Class)
2014-15:

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<td>Software training on Solid Works Modelling</td>
<td>To provide practical training on solid works software</td>
<td>Solid Works Modeling Software Training conducted between August 2014 and December 2014 in premises of Mechanical Engineering Department, by CADD Centre Mumbai.</td>
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<td></td>
<td>January 2015 and May 2015</td>
<td>German language classes</td>
<td>To impart training on foreign language</td>
<td>German Language classes conducted between January 2015 and May 2015 in the premises of Mechanical Engineering Department, by Mrs. Ujwal Anil a language consultant.</td>
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<td>2.</td>
<td>July 2014 – March 2015</td>
<td>Design, Manufacturing and testing of All Terrain Vehicle (ATV), Racing car, and an aeroplane.</td>
<td>To showcase technical skills of students in designing and manufacturing of various types of vehicles and an aeroplane model.</td>
<td>Participated in BAJA Student India – National Level Off-road Racing Competition conducted by SAE India in collaboration with TATA Motors in January 2015.</td>
<td><img src="image" alt="Photo" /></td>
</tr>
</tbody>
</table>
Participated in Formula Student Germany an International Race Car Design Competition conducted by SAE International in July – August 2014 at Hockenheimring, Germany.

DJS Skylark is the official Aero Design Team of D. J. Sanghvi College of Engineering under SAE student’s chapter. The team wanted to design an aircraft credible enough to be able to compete at an international level with the best teams in the world. The team represented our college on an international level by participating in the SAE Aero Design East competition which was held this year at Lakeland, Florida from 13th March to 15th March 2015 and it stood 17th worldwide and 2nd in India in our category.
| 4. | 19\textsuperscript{th} September, 2014 | Guest lecture on 3D printing, a New Tool to Unlock Fragile Ideas | To provide knowledge about 3D Printing. | Talk on “3D printing, a New Tool to Unlock Fragile Ideas” on 19\textsuperscript{th} September, 2014 by Dr. Guruprasad Rao (Director-Technology & Operations at Imaginarium India Pvt Ltd,) Research Scholar at Indian Institute of Technology, Bombay. |
| 5. | 4\textsuperscript{th} February 2015 | Guest lecture on Engineering Capabilities in Process Equipment Management | To impart introductory knowledge on Process Equipment manufacturing by industry experts. | An invited talk on “Engineering Capabilities in Process Equipment Management” by Mr Alex Tellis of M/s Godrej and Boyce Ltd. Vikhroli was conducted on 4\textsuperscript{th} February 2015. |
### 2013-14:

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<td>January 2014 to March 2014</td>
<td>Software training on Solid Works Modelling</td>
<td>To provide practical training on solid works software</td>
<td>Solidworks Modelling Software Study conducted between January 2014 and March 2014 in premises of Mechanical Department, DJSCOE by CADD Centre India</td>
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<tr>
<td></td>
<td>August 2013 to February 2014</td>
<td>German language classes</td>
<td>To impart training on foreign language</td>
<td>German Language Study conducted between August 2013 and February 2014 [60 sessions, each session of 3 hours each] in premises of Mechanical Department, DJSCOE by Mrs. Ujwal Anil, Language Consultant.</td>
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<tr>
<td></td>
<td>Date</td>
<td>Event Description</td>
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<td>4</td>
<td>12th February 2014</td>
<td>Guest lecture on Computational Fluid Dynamics. To provide basic knowledge about Computational Fluid Dynamics.</td>
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<td>Talk on introduction and scope of Computational Fluid Dynamics in Mechanical Engineering conducted on 12th February 2014 by Dr. R. S. Maurya (PhD. Computational Fluid Dynamics, Professor SPCE)</td>
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<td>5</td>
<td>4th March 2014</td>
<td>Guest lecture on Robotics. To provide basic knowledge on Robotics by an eminent Professor.</td>
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<td>Talk on Robotics conducted on 4th March 2014 by Dr. James McIlrkin (Asst. Professor, Rice University).</td>
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