

WITH APPROVAL OF ...



EVENT REPORT

FOR

TWO WEEKS SHORT TERM TRAINING PROGRAM ON

TWO WHEELER TECHNOLOGY

26TH DEC. 2017 TO 5TH JAN. 2018

IN ASSOCIATION WITH ..



ORGANIZED BY
MECHANICAL & AUTOMOBILE
ENGINEERING DEPARTMENT
L . D . COLLEGE OF ENGINEERING



EVENT DESCRIPTION

The last day was started by Mr. Shwetal Shah from Climate Change Department, Gujarat. He delivered all about Emission Legislation for Indian OEMs. The last session was conducted by Dr. K. C. Vora, Director, ARAI. Participants were benefited by his extraordinary talk on Two Wheeler Testing.



All the participants have taken sincere interest to learn various aspects of Two Wheeler Technology throughout two weeks with four sessions each day.

The program ended with the valedictory function in the presence of Dr. G. P. Vadodaria (Principal, LDCE), Dr. K. C. Vora (Director, ARAI), Mr. Mukesh Shah (Joint Director, CCD), Dr. G. H. Upadhyay (HOD, LDCE), Prof. R. J. Jani (HOD, LDCE). The program was started with a validating speech by coordinator Prof. D. U. Panchal. Also, some of the participants gave their feedback about the training programme. Principal, Dr. G. P. Vadodaria then gave a motivational speech to the audience. It was followed by distribution of certificates to the participants. The program was concluded with a vote of thanks given by Dr. G. H. Upadhyay.





TRAINING OBJECTIVES

This training was designed to accomplish following objectives.

To impart comprehensive knowledge in Two Wheelers.

1

To improve knowledge about Two Wheeler components design concepts.

2

To provide knowledge about recent developments in the field of Two Wheelers.

3

To Provide Hands-on experience of various Two Wheeler assemblies and systems.

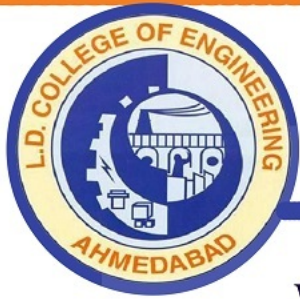
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To cultivate the culture towards Green Vehicles.

5

To improve industry- academia interaction.

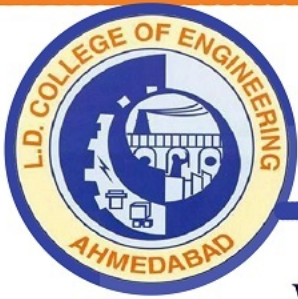
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SCHEDULE

WEEK 1

		10:00 am to 11:30 pm	11:30 pm to 1:00 pm		2:00 pm to 3:30 pm		3:45 pm to 5:15 pm
26-12-2017 Tuesday	High Tea (09:45 am to 10:00 am)	Registration (10:00 to 10:30) Inauguration (10:30 to 11:30)	Two Wheelers – then and now Dr. S K Gupte ADIT	Lunch Break (1:00 pm to 2:00 pm)	Classification of Two Wheelers Prof. D U Panchal LDCE	Tea Break (3:30 pm to 3:45 pm)	Two wheeler engines Prof. M A Shaikh LDCE
27-12-2017 Wednesday		Emission Control Systems for Two Wheelers Mr. Prakash C Ashok layland			Advance Material Technology Dr. G H Upadhyay LDCE		Fuel supply systems Prof. S. K. Dabhi LDCE
28-12-2017 Thursday		Superbike Technologies Mr. Raj Chudasma Triumph Motorcycles	Lubricating and cooling systems Prof. S N Patel LDCE		Cranking mechanism Prof. D U Panchal LDCE		Two Wheeler Clutch Prof. D U Panchal LDCE
29-12-2017 Friday		Two Wheeler Transmission Prof. D U Panchal LDCE	Steering geometry for two wheelers Prof. M A Shaikh LDCE		Two Wheeler Suspension System Prof. D U Panchal LDCE		Braking system for Two wheelers Prof. S N Patel LDCE
30-12-2017 Saturday		Two Wheeler Engine Assembly	Two Wheeler Engine Assembly		Two Wheeler Engine Assembly		Two Wheeler Engine Assembly



SCHEDULE

WEEK 2

		10:00 am to 11:30 pm	11:30 pm to 1:00 pm		2:00 pm to 3:30 pm		3:45 pm to 5:15 pm
01-01-2018 Monday	High Tea (09:45 am to 10:00 am)	Anti-Lock Braking system – future technology Prof. M A Shaikh LDCE	Frames for modern two wheelers Prof. D U Panchal LDCE	Lunch Break (1:00 pm to 2:00 pm)	Electricals for modern two wheelers Prof. S N Patel LDCE	Tea Break (3:30 pm to 3:45 pm)	Safety systems of future two wheelers - Prof. D U Panchal LDCE
02-01-2018 Tuesday		Importance of aesthetic designing Mr. Samarjit Vaghela NID	Lean Manufacturing for two wheeler industries Dr. S Y Jani Indus Uni		Harley Davidson		Harley Davidson
03-01-2018 Wednesday		Importance of CFD in two wheeler design Mr. S Parmar Hitech i solutions	Two wheeler dynamics Prof. D U Panchal LDCE		Honda Two Wheelers		Honda Two Wheelers
04-01-2018 Thursday		Importance of Quality Management in Two Wheeler Industry Dr. Jigar Doshi 4C Consulting	Battery technologies for future vehicles Dr. C D Updhyay LDCE		Drive trains for electric two wheelers Mr. Sagar Thakkar Greenvoltmobility		Challenges for electric vehicle manufacturers Mr. Parth Shah Ford Motors
05-01-2018 Friday		Emission legislation for automotive OEMs Mr. Shwetal Shah CCD Gujarat	Two Wheeler Testing Dr. K C Vora ARAI		Valedictory		



LIST OF PARTICIPANTS

Sr.No.	Name of Participant	Highest Educational Qualification	Designation	Name of Organization	Mobile Number	E mail
1	TEJENDRASINH SAMANTSINH RAOL	M.E (CAD/CAM)	LECTURER	R.C.TECHNICAL INSTITUTE, AHMEDABAD	9879098695	tsraol2017@gmail.com
2	PATEL ASHISH DHIRUBHAI	MASTER OF TECHNOLOGY	LECTURER	GOVERNMENT POLYTECHNIC WAGHAI-DANG	9724658945	ashish44patel@gmail.com
3	DIVYESHKUMAR AMRUTLAL PATEL	M-TECH IN INDUSTRIAL PROCESS EQUIPMENT DESIGN	LECTURER	GOVERNMENT POLYTECHNIC WAGHAI	9427835658	devamrut@gmail.com
4	PANCHAL GUNJAN KANAIALAL	M.E. (I.C & AUTOMOBILE)	Assistant Professor	Ganpat University Institute of Technology	8866827088	gkp01@ganpatuniversity.ac.in
5	NIRAV KISHORBHAI BAIS	M.E. IN AUTOMOBILE ENGINEERING	ASST. PROF.	GANPAT UNIVERSITY	7777961209	nkb01@ganpatuniversity.ac.in
6	RAJSINH CHUDASAMA	Bachelor in computer application	Sales executive	TRIUMPH MOTORCYCLE	9737072809	dxraj90@gmail.com
7	HARDIK GOHIL	CSE	PRODUCT SPECIALIST	JAGUAR AND LANDROVER	9924037432	Hardik.gohil786@gmail.com
8	PAWAR SWAPNA ANNASHEB	M.E(THERMAL SCIENCE)	Assistant Professor	Government Engg. College, Patan	8511190910	prof.swapna@gmail.com
9	KAMLESH K PANSAL	ME (MECH. ENGG.)	ASST. PROF.	GOVT. ENGG.COLLEGE,PATAN	9925353529	kamlesh_er@yahoo.co.in
10	KAMLESHKUMAR S. SAMADHIYA	M.E. (THERMAL SCIENCE)	ASSISTANT PROFESSOR & SECTION HEAD	S.P.B.PATEL ENGINEERING COLLEGE, SAFFRONY INSTITUTE OF TECHNOLOGY	9879037415	kamlesh.samadhiya@saffrony.ac.in
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13	UPADHYAY BHARGAV HARSHADRAY	M.E.	Assistant professor	Government engineering college godhra	9825940775	Bhu7002@gmail.com
14	DARSHIT RAJENDRABHAI SHAH	M.E. CAD-CAM	ASSISTANT PROFESSOR	L D.COLLEGE OF ENGG.	9925237030	darshit99@yahoo.com
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18	IYER ROHINI KRISHNAMOORTHY	M TECH ELECTRICAL	LECTURER	GGP AHMEDABAD	9825830124	ssi424698@yahoo.com
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23	DHAVALKUMAR KANTIBHAI PATEL	ME (WELDING TECHNOLOGY)	ASST. PROFESSOR	L D COLLEGE OF ENGINEERING, A'BAD	9428872903	dhavalpatelmechanical@gmail.com
24	RAVAT HARISHKUMAR M	M. E. Mechanical	Assistant professor	Government Engineering College Godhra	9898566889	Hmr2hmj008@gmail.com
25	MONA KARAN GANDHI	M.E.(CRYOGENICS)	LECTURER IN MECHANICAL	R.C.TECHNICAL INSTITUTE,SOLA	9824400725	monagandhi181184@gmail.com
26	SHYAM K. DABHI	M.E. Mechanical (I.C. Engine and Automobile)	Assistant Professor	L.D. College of Engineering	9904884530	dabhi.shyam@gmail.com
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28	MS. ANAL DHRUVKUMAR BHATT	MASTER OF ENGINEERING(M.E)	ASSISTANT PROFESSOR	L D COLLEGE OF ENGINEERING	9727172289	adbhatt@ldce.ac.in
29	MITUL MAHENDRAKUMAR MAKWANA	M.E. - MECH	ASSOCIATE PROFESSOR	L. D. COLLEGE OF ENGINEERING	9725503040	mmm2312@gmail.com
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32	A G MOMIN	M.Tech	Assistant Professor	LDCE , Ahmedabad	9924228876	altafhusain.momin@gmail.com
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35	BHAVESHKUMAR K. PATEL	PhD	ASSISTANT PROFESSOR	L D COLLEGE OF ENGINEERING, A'BAD	9427139193	mrbk13@gmail.com
36	SONARA VIMAL KUMAR	ME	ASSISTANT PROFESSOR	L D COLLEGE OF ENGINEERING, A'BAD	7926306752	
37	MONIKA VYAS	B.E. MECH	ASSISTANT PROFESSOR	L D COLLEGE OF ENGINEERING, A'BAD	9725022133	
38	PATEL VIMAL RANCHOODLAL	PhD	ASSISTANT PROFESSOR	L D COLLEGE OF ENGINEERING, A'BAD	9428949998	vimalpatel@live.com
39	HIREN PITAMBHARBHAI PATEL	ME	ASSISTANT PROFESSOR	L D COLLEGE OF ENGINEERING, A'BAD		
40	CHE TAN D UPADHYAY	PhD	ASSISTANT PROFESSOR	L D COLLEGE OF ENGINEERING, A'BAD	9428218822	cdupadhyay@gmail.com
41	SACHIN BHATT	ME	ASSISTANT PROFESSOR	L D COLLEGE OF ENGINEERING, A'BAD		sachinbhatt0913@gmail.com



LIST OF EXPERTS

Sr. No.	Name	Organization	Area of Expertise
1	Mr. Prakask C.	Ashok Layland	Engine & Emissions
2	Prof. (Dr.) G. H. Upadhyay	L.D.C.E	Advance Material Technology
3	Dr. K. C. Vora	ARAI	Two Wheeler Testing
4	Dr. Jigar Doshi	4C CONSULTING PVT. LTD.	Two wheeler ISO / Quality Control
5	Prof. (Dr.) Sudhir Gupte	ADIT	Automobiles
6	Prof. (Dr.) S. Y. Jani	Indus University	Lean Manufacturing
7	Prof. (Dr.) C. D. Upadhyay	L.D.C.E	Electric Two Wheelers
8	Mr. Mohd Danish Siddiqui	NINE BRIDGES HARLEY DAVIDSON	Advance two wheeler technology
9	Mr. Alpesh C Suthar	Rangers Honda	Workshop management
10	Mr. Raj Chudasma	Triumph Motorcycles	Superbike technology
11	Mr. Samarjit Vaghela	NID	Modern Vehicle Design
12	Mr. S Parmar	Hitech i solutions	CFD
13	Mr. Sagar Thakkar	Greenvoltmobility	Electric Two Wheelers
14	Mr. Parth Shah	Ford Motors	Electric Vehicles
15	Mr. Shwetal Shah	Climate Change Department, Gujarat	Emission Legislation
16	Prof. S. K. Dabhi	L.D.C.E	Fuel Supply Systems
17	Prof. Mazar. A. Shaikh	L.D.C.E	I.C./ AUTOMOBILES
18	Prof. Dhruv U. Panchal	L.D.C.E	Two Wheeler Technology
19	Prof. Sulay Patel	L.D.C.E	I.C./ AUTOMOBILES





EVENT DESCRIPTION

DIGNITARIES ON DAIS DURING INAUGURATION



1. MR. DHARMENDRA SHARMA
DIRECTOR, TECHNOLOGY
EXCHANGE SERVICES PVT LTD,
AHMEDABAD

2. DR. S. K. GUPTA
HEAD OF AUTOMOBILE
ENGINEERING DEPARTMENT,
ADIT

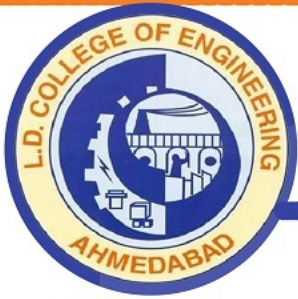
3. DR. M. C. CHUDASAMA
IN-CHARGE PRINCIPAL, LDCE

4. DR. G. H. UPADHYAY
HEAD OF MECHANICAL
ENGINEERING DEPARTMENT,
LDCE

5. PROF. R. J. JANI
HEAD OF AUTOMOBILE ENGINEERING
DEPARTMENT, LDCE.

AROUND 45 DELEGATES COMPRISING OF FACULTIES FROM VARIOUS ENGINEERING COLLEGES ACROSS GUJARAT PARTICIPATED IN THIS PROGRAM. THE PROGRAMME WAS INAUGURATED ON 26TH DECEMBER, 2017 AT 10:00AM BY DR. M. C. CHUDASAM (IN-CHARGE PRINCIPAL, LDCE). ALL THE DIGNITARIES HAVE DELIVERED MOTIVATIONAL AND INSPIRATIONAL SPEECH TO ALL PARTICIPANTS.





EVENT DESCRIPTION

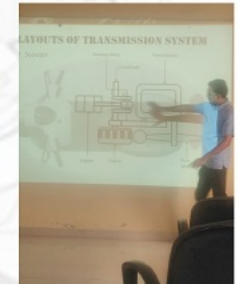
Registration of all the participants for this STTP was started at 9.30 a.m. on 26th December, 2017 and participants were given training kits. A complete range of two wheelers, along with HONDA CBR 600 RR, was on display to create the thought-provoking atmosphere.

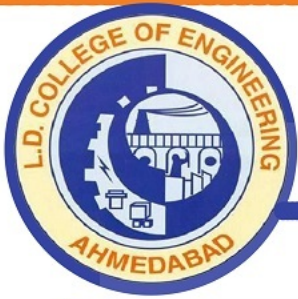
The first session was moved by Dr. S. K. Gupte providing a thorough idea about technological revolution of two wheelers in Indian market. Further sessions were conducted by Prof. D. U. Panchal and Prof. M. A. Shaikh on classifications, layouts and engine technologies for current two wheelers.

The second day was started with the session of Mr. Prakash C. He had retained the audience conscious by his unique delivery technics covering all aspects of engine emissions. The day was then followed by a session of Dr. G. H. Upadhyay on advance materials for two wheelers. Prof. S. K. Dabhi then talked about latest fuel supply technologies.

The Third day was in full swing with the session of Mr. Raj Chudasama covering the technologies of Super Bikes. Prof. S. N. Patel had covered lubrication and cooling system technologies used on current two wheelers. Prof. D. U. Panchal had then delivered sessions on Cranking mechanisms and Two wheeler Clutches.

Fourth day was moved by Prof. D. U. Panchal, Prof. M. A. Shaikh and Prof. S. N. Patel. They had covered sessions on Transmission system, Steering System, Suspension System and Braking System.





EVENT DESCRIPTION

Fifth day was planned to provide hands-on practice on two wheelers. The first half of the day was paid out for complete disassembling a motorcycle engine. The second half was consumed for maintenance of vehicles. Participants were asked to service their own vehicles under the guidance of Mr. Sultan Shaikh.

The first day of second week was started by Prof. M. A. Shaikh delivering all about ABS. It was followed by a session from Prof. D. U. Panchal on frames. The second half consisted two sessions from Prof. D. U. Panchal and Prof. S. N. Patel delivering about Safety Technologies and Electrical Systems respectively.

The second day of second week was started with the session of Mr. Samarjit Vaghela from NID. He covered all aspects of vehicle design. The day was then followed by a session of Dr. S. Y. Jani on importance of lean manufacturing for two wheelers. The second half was taken care by Mr. Danish from Harley Davidson. He talked about latest technologies used on the model Fatbob 2018.

The first half of the third day was handled by Mr. Sidharth Parmar. He gave detailed talk about importance of CFD in two wheeler design. The second half was planned and executed by Mr. Alpesh from HONDA. He along with his team, had actively interacted with participants on scooter technologies.

The fourth day of second week was started with the session of Dr. Doshi. He explained importance of ISO and quality management. The day was then followed by a session of Dr. C. D. Upadhyay on Battery technologies for electric two wheelers. Mr. Parth Shah from Ford had talked about challenges faced by electric vehicle manufacturer in Indian market.





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The last day was started by Mr. Shwetal Shah from Climate Change Department, Gujarat. He delivered all about Emission Legislation for Indian OEMs. The last session was conducted by Dr. K. C. Vora, Director, ARAI. Participants were benefited by his extraordinary talk on Two Wheeler Testing.



All the participants have taken sincere interest to learn various aspects of Two Wheeler Technology throughout two weeks with four sessions each day.

The program ended with the valedictory function in the presence of Dr. G. P. Vadodaria (Principal, LDCE), Dr. K. C. Vora (Director, ARAI), Mr. Mukesh Shah (Joint Director, CCD), Dr. G. H. Upadhyay (HOD, LDCE), Prof. R. J. Jani (HOD, LDCE). The program was started with a validating speech by coordinator Prof. D. U. Panchal. Also, some of the participants gave their feedback about the training programme. Principal, Dr. G. P. Vadodaria then gave a motivational speech to the audience. It was followed by the distribution of certificates to the participants. The program was concluded with a vote of thanks given by Dr. G. H. Upadhyay.





EVENT DESCRIPTION

GROUP PHOTO



DIGNITARIES, PARTICIPANTS, CONVENER, COORDINATORS,
EXPERTS AND STUDENT VOLUNTEERS



BALANCE SHEET

ACTUAL EXPENSES			
Sr No.	Head	Item	Total Expenditure (Approx.)
1	Inaugral and Valedictory Function	Mometo	3720
2	Application fees ISTE	Demand Draft	1000
		participate fees	6000
		Banner	270
3	Food for 50 persons	Morning Tea/Coffee Break Fast Aftarnoon Lunch Aftaanoon Tea Cofee	74500
4	Kit	Registration Kit	1450
5	Honorium to Experts	experts each 1000/- per session	8000
6	Travelling Allowance and for Experts	travelling by air and taxi	18368
7	Accomodation participant		3000
8	Certificates	Certifcate for participation and coordination (excluding printing charges)	515
9	Miscallenous		550
Total Expenditure			117373

ACTUAL INCOME		
Sr No.	Head	AMOUNT
1	Registration fees	84000
2	Sponsorship (Tech exchange)	15000
3	Sponsorship (SAE INDIA)	10000
Total Income		109000

summary		
Total Income	Total Expenditure	Balance remaining
109000	117373	-8373



OUTCOMES

Participants are benefited by comprehensive knowledge about Two Wheelers.

1

Knowledge about recent developments in the field of Two Wheelers is accurately delivered by each expert.

2

Participants are now capable to perform minor maintenance of vehicles by Hands-on experience given in this training.

3

Technologies adopted for the Green Electric Vehicles are now known and promoted with best examples of Entrepreneurship.

4

Industry- Academia interaction is improved as best-of-the class experts were invited during this event.

5