



VISHWAKARMA GOVERNMENT ENGINEERING COLLEGE, CHANDKHEDA

Brief Report on FINISHING SCHOOL Technical Advance Training Programme – 'Computational Methods for Mechanical Engineers using MATLAB'

Name of Department/Organizer	:	Mechanical Engineering Department
Date & Time	:	1-4-19 to 5-4-19 (1 week)
Venue	:	M block, Mechanical Engineering Department
No of Participants	:	31 final year students

- **Objective of the Event**

As an engineer we are going to be faced with new tools and techniques constantly as the technology and science advances. MATLAB is very popular in science and engineering fields, so it is highly likely that you'll be using MATLAB, Simulink or other toolboxes as your studies continue, and it's likely to find it at use in industry -- although it is entirely possible that you will choose a career path (or maybe the career path chooses) where MATLAB isn't a part of the skill set that's required.

- **Outcome of the Event**

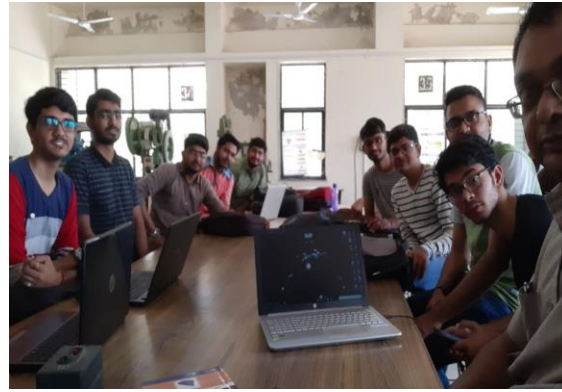
First time Students learn the Interaction of participants and introduction to MATLAB and use of different Variables, arrays and expressions.

Student learn

- use of plotting and graphics functions,
- Decision making, branching and looping,
- MATLAB simulink and usage,
- Reading and writing Excell files and modular programming,
- Linear algebra and application,
- Mathematical modelling and solution or ordinary differential equations,
- Solution of partial differential equations
- Numerical integrations techniques
- And different CASE STUDY

Students clearly understand above by practiced on simple to complicated programs, simulink block sets, reading and writing excel files and modular programming, linear algebra and application, ordinary differential equations, partial differential equations, numerical intergration

- Event Photographs



- Attendance sheet of program

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sr no	Enrollment No.	Name of student	01-04-2019				02-04-2019				03-04-2019				04-04-2019			
			S1	S2	S3	S4	S1	S2	S3	S4	S1	S2	S3	S4	S1	S2	S3	S4
1	150170119003	BHALAJI Z BHISHK M	ABM	ABM	ABM	ABM	ABM	ABM	ABM	ABM	ABM	ABM	ABM	ABM	ABM	ABM	ABM	ABM
2	150170119007	Chavda Rajesh Dharnat	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD
3	150170119010	Darji Bhadeshbhai N	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD
4	150170119013	Gandhi Deep	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD
5	150170119015	GHEDIYA JIGIR P	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD
6	150170119018	Naval Narehbhai Hedau	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD
7	150170119020	Kartha Har sankar	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD
8	150170119023	Makwana Pragneshkumar D	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD
9	150170119025	Nagpal Rishavkumar Kirantbhai	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD
10	150170119026	panchal kevar bhupendrabhai	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD
11	150170119029	Surya Ranjan Pandita	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD
12	150170119030	PANDOR N/RAJ RAJESHKUMAR	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD
13	150170119031	Patel Dhruv Shaileshbhai	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD
14	150170119033	Patel Haricom	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD
15	150170119040	RAJ RAMESHBHAI PATEL	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD
16	150170119041	Patel Rajankumar Hirjibhai	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD
17	150170119046	PRAJAPATI JAY RAMESHBHAI	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD
18	150170119047	Prajapati k Shankumar N	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD
19	150170119048	Prajapati Pirth Deepakkumar	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD
20	150170119054	Sikanwar Chirag Akhaleshinh	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD
21	150170119055	Dhiraj B Sirdhi	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD
22	150170119056	SOLANKI H TESHKUMAR D	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD
23	150170119057	Suratwala Veer Limeshchandra	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD
24	150170119060	Trivedi Bhavik Shaileshbhai	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD
25	150170119062	Vaghani Bhautik Bharatbhai	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD
26	150170119064	Vohra Aziz Kurbanhusain	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD
27	150174119001	Abdulaziz Dahortwala	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD
28	150174119002	MAKAWANA POOJAN CHETAN	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD
29	150179119052	Sathwara H manshubhai S	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD
30	160173119006	MISTRY D/AVALKUMAR R	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD
31	160173119008	Patel mural Ashokbhai	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD

- Details of program and its time table.

FINISHING SCHOOL - TECHNICAL TRAINING PROGRAM

Mechanical Engineering Department – VGEC, Chandkheda

FOR FINAL YEAR STUDENTS

COMPUTATION METHODS FOR MECHANICAL ENGINEERS USING MATLAB

Time(Hr) Date(Day)	10.30 to 12.00	12.00 to 1.30	1.30 to 14.30	14.30 to 15.30	15.50 to 16.10	16.10 to 17.30
1/4/19 (Monday)	Interaction of participants and introduction to MATLAB	Vairables, arrays and expressions	LUNCH BREAK	Use of plotting and graphics functions	TEA BREAK	Simple script writing in MATLAB environment
2/4/19 (Tuesday)	Decision making, branching and looping	Practice on simple to complicated programs		MATLAB simulink and usage		Practice on simulink block sets
3/4/19 (Wednesday)	Reading and writing Excell files and modular programming	Practice on reading and writing excel files and modular programming		Linear algebra and application		Practice on linear algebra and application
4/4/19 (Thursday)	Mathematical modelling and solution or ordinary differential equations	Practice on ordinary differential equations		Solution of partial differential equations		Practice on partial differential equations
5/4/19 (Friday)	Numerical integrations techniques	Practice on numerical intergration		CASE STUDY		Questions and Answers and valedictory function