







ISTE-GTU Sponsored One Week Faculty Development Program on

"Multi-Objective Optimization: Theory and Applications

11th-16thFebruary, 2019



Organized By

Chemical Engineering Department

Vishwakarma Government Engineering College

Near Visat Three Roads, Visat-Gandhinagar Highway, Chandkheda, Ahmedabad

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1. Objective of Faculty Development Program (FDP)

The STTP on "Multi-Objective Optimization: Theory and Applications" is organized with a view to acquaint the faculty and research scholars with this growing area of optimization. It is aimed to give exposure of MOO techniques and applications along with hands on sessions for formulation and solutions of MOO design problems. It is also aimed to provide information on some advanced MOO algorithms along with a few case studies. Computer laboratory training and demonstrations will be given to the participants to gain experience in this area. The course will be divided into theory, practical sessions and demonstrations. Though the goal is exposure to advances in MOO techniques and applications, care is taken in designing the content for participants with little or no exposure of the optimization.

1.1 Inaugural Ceremony

In the auspicious presence of Dr. Navin Sheth (Vice-Chancellor – GTU), the inaugural ceremony of FDP was arranged in A Block auditorium of VGEC – Chandkheda. It was also attended by Shri. Damodara M S, Business Manager, Entuple Technologies, Prof. S. P. Sapre, I/C Principal, VGEC Chandkheda, Dr. R. A. Thakker, HoD - EC and Dr. N. M. Patel, Associate Professor, Chemical Department and Dr. A. R. Patel, Associate Professor – Mathematics, other faculties of college and participants of FDP.

Dr. N M Patel, Coordinator of the FDP delivered opening remarks, briefed about the course contents, objective of the training program and shared his views on Multi-Objective Optimization. Dr. Navin Sheth (Vice-Chancellor – GTU) appreciated the efforts of coordinators for organizing the FDPs.

About the Institute:

Vishwakarma Government Engineering College (VGEC) Ahmedabad, was established in August 1994, with an objective of imparting higher education in various fields of engineering and technology. This institute is recognized by All India Council of Technical Education (AICTE), New Delhi. The college is administrated by Directorate of Technical Education, Gujarat State, Gandhinagar and is affiliated with Gujarat Technological University. VGEC shifted to its own campus at Chandkheda, Ahmedabad in the year 2004.

This Institute is located in Chandkheda which is highly developing area. The Institute campus is situated adjacent to Oil and Natural Gas Corporation, Chandkheda. Presently the institute is running 09 under graduate and 02 postgraduate courses of engineering. This Institute is considered among few best Engineering Institutes of the state. More than 700 Engineers are passing out every year from this Institute.

About Multi-Objective Optimization:

Optimization is the process of finding the best. Continuous improvement is an important feature and need for all engineering development, application and processes. Improvement of efficiency in manufacturing and engineering activities is a result of optimization of design and operations. In particular for the efficiency, a scope still exists for optimizing the current operations with the ever changing economic, energy and environmental landscape. Most engineering optimization problems are complex in nature, multi-objective and needs robust optimization methods/algorithms.

Multi-objective optimization (MOO) is a class of optimization that deals with multiple conflicting objectives. Some examples of the sets of conflicting objectives are: capital cost and operating cost, cost and features, selectivity and yield in multiple reactions, profit and environmental impact, and profit and safety cost. MOO problems with conflicting objectives will have a set of solutions (representing trade-offs among the objectives), which are called pareto optimal solutions, of which none can be said to be better than the others with respect to all the objectives.

Formal presentation of optimization problem in mathematical form is the first step for Optimization; problem formulation. Solution of optimization problem is a field of applied mathematics that deals with finding the best solutions in a domain of definition, subject to various constraints on the variable values. Analytical, Numerical and Heuristics based methods are the major classes having their strengths and limitations, which will be discussed in details along with recent developments in the area of MOO. The course also focuses on hands-on sessions to practice solution of MOO design problems.

Course Content:

- · Introduction to multi-objective optimization (MOO)
- Evolutionary optimization techniques
- Performance Measures for MOO
- Non-dominated sorting
- Rank based sorting
- Evolutionary MOO algorithms
- Decomposition based algorithms
- Constrain Handling in MOO
- MOO Design Applications
- Optimal Control Applications
- · Recent Developments in MOO

Objectives:

The STTP on "Multi-Objective Optimization: Theory and Applications" is organized with a view to acquaint the faculty and research scholars with this growing area of optimization. It is aimed to give exposure of MOO techniques and applications along with hands on sessions for formulation and solutions of MOO design problems. It is also aimed to provide information on some advanced MOO algorithms along with a few case studies. Computer laboratory training and demonstrations will be given to the participants to gain experience in this area. The course will be divided into theory, practical sessions and demonstrations. Though the goal is exposure to advances in MOO techniques and applications, care is taken in designing the content for participants with little or no exposure of the optimization.

Recourse Persons: Expert Faculty will be from reputed academic institutions like IITGN, VGEC, PDPU, SVNIT, DAIICT, Nirma Uni., Gujarat Uni. and practicing professionals.

Eligibility for Participation: Faculty from Engineering Colleges/Polytechnics, PG and PhD Research Scholars and persons from industry / R & D Organizations / Consultants.

Lodging, Boarding and Travel: Course fee includes working lunch, tea, kit and course material. Participants will have to bare their travel and accommodation expanses at their own. Participants from Institutes under Commissionerate of Technical Education, Government of Gujarat are eligible to draw TA/DA under TED-7 from their parent institute. (Subject to Approval from CTE)

Course Fee:

Course Fees of Rs. 500/- (non-refundable) is to be paid by all the participants including faculty of Degree/Diploma Engineering Institutes. Participant must become a member of ISTE at the time of registration, if not.

Link for Registration: https://tinyurl.com/y8khyjam

No. of Seats: 40

Venue: Vishwakarma Government Engineering College, Chandkheda

Application Form:

Interested candidates have to submit filled application form duly signed by sponsoring authority at the time of registration. However, participants must have to apply on the above link:

Dr. N. M. Patel / Dr. A R Patel

Course Coordinator, STTP MOO:T&A - 2019 Vishwakarma Government Engineering College, Visat-Gandhinagar Highway, Chandkheda, Ahmedabad-382 424.

Coordinators: (M) 9426024961 (Prof. N M Patel) (M) 9427308425 (Prof A R. Patel)

E-mail: prof.nmpatel@gmail.com hod general@vgecg.ac.in

ISTE-GTU Sponsored

One Week Short Term Training Program

on

Multi-Objective Optimization: Theory and Applications

(MOO:T&A - 2019)

[February, $11^{th} - 16^{th}$, 2019]

Dr. N. M. Patel

Course Coordinator Associate Professor Chemical Engineering Department Dr. A. R. Patel

Course Coordinator
Associate Professor and Head
General Department

Dr. R. K. Gajjar
Principal
Patron









Organized by

Vishwakarma Government Engineering College, Chandkheda, Ahmedabad – 382 424. GUJARAT

ISTE-GTU Sponsored One Week STTP on

Multi-Objective Optimization: Theory and Applications (MOO:T&A - 2019) [February, 11th – 16th, 2019]

ISTE-GTU Sponsored One Week STTP on Multi-Objective Optimization: Theory and Applications (MOO:T&A - 2019) [February, 11th – 16th, 2019]

Registration Form

Registration Form

Name:	Name:						
Designation:	Designation:						
Name & Address of the Institute / Organization:	Name & Address of the Institute / Organization:						
ISTE Membership No:(Submit proof) Educational Qualification:	ISTE Membership No:(Submit proof) Educational Qualification:						
Experience: Academic: Industrial:	Experience: Academic: Industrial:						
Address for Communication:	Address for Communication:						
Phone No. (O):(R):	Phone No. (O):(R):						
Date: Signature of the Applicant. Place:	Date: Signature of the Applicant. Place:						
<u>Certificate</u>	<u>Certificate</u>						
This is to certify that Mr./Ms./ Mrs is working as in department of this Institute. He / She will be permitted to attend this STTP, if selected.	This is to certify that Mr./Ms./ Mrs is working as in department of this Institute. He / She will be permitted to attend this STTP, if selected.						
Seal & Signature of Sponsoring Authority Note: Photocopy this form if required.	Seal & Signature of Sponsoring Authority <i>Note:</i> Photocopy this form if required.						

3 Schedule of FDP

Program Schedule

Date and	Time	Topic	Expert Faculty
Day			
	10-30 to 11-30	Inauguration	
	11-30 to 12-00	Registration and Hi-Tea	
11-02-2019	12-00 to 1-30	Introduction to Multi-Objective Optimization (MOO)	Dr. N M Patel
	13-30 to 14-30	Lunch	
Monday	14-30 to 16-00	MOO: Test Functions & Performance Measures	Dr. N M Patel
	16-00 to 16-15	Tea Break	
	16-15 to 17-45	AHP- an overview	Dr. Kunal Shukla
	10-00 to 11-30	Lexicographic Multi Objective Optimization	Dr. Anil Markana
	11-30 to 13-00	Application of Lexicographic MOO in Process Control	Dr. Anil Markana
12-02-2019	13-00 to 14-00	Lunch	
Tuesday	14-00 to 15-30	Application of GA for MOO	Dr. P J Gundaliya
Tuesday	15-30 to 15-45	Tea Break	
	15-45 to 17-15	MOO Application: BRTS – a case study	Dr. P J Gundaliya
	10-00 to 11-30	Separable Programming based Optimization	Dr. Dipesh Makwana
12 02 2010	11-30 to 13-00	Applications of Separable Programming in MOO	Dr. Dipesh Makwana
13-02-2019	13-00 to 14-00	Lunch	
Wednesday	14-00 to 15-30	Constraint handling in MOO	Dr. N M Patel
Wednesday	15-30 to 15-45	Tea Break	
	15-45 to 17-15	Demonstration of solving MOO in MATLAB	Dr. N M Patel
	10-00 to 11-30	Many-objective heat transfer search algorithm and	Dr. Vivek Patel
		its applications	
11.00.0010	11-30 to 13-00	NSGA-II and its Applications	Dr. Rajesh Sanghvi
14-02-2019	13-00 to 14-00	Lunch	
Thursday	14-00 to 15-30	Multi-Criterion decision making approach for Hybrid	Dr. Dipankar Deb
Thursday		Operation of Wind Farms	
	15-30 to 15-45	Tea Break	
	15-45 to 17-15	Identification of MOO Application to solve	Dr. A R Patel
	10-00 to 11-30	Genetic Algorithm for MOO	Dr. Rina Trivedi
15-02-2019	11-30 to 13-00	PSO: Application demonstration for MOO solutions	Dr. Rina Trivedi
13-02-2019	13-00 to 14-00	Lunch	
Friday	14-00 to 15-30	MOO applications in Chemical Engineering	Dr. D D Mandaliya
	15-30 to 15-45	Tea Break	
	15-45 to 17-15	Goal Programming for MOO	Dr. Kunal Shukla
	10-00 to 11-00	Art of Living	Dr. Nitin Padhiyar
16-02-2019	11-00 to 12-30	MOO solution using ANN model	Dr. N M Patel
10 02 2013	12-30 to 13-30	Lunch	
Saturday	13-30 to 15-00	Applications of DOE model for MOO	Dr. D M Patel
	15-00 to 16-00	Evaluation of Participants	Dr. A R Patel
	16-00 to 17-30	Valedictory and Feedback session	

4. Contribution of resource persons in FDP:

Sr.	Name of Resource Person	No. of Sessions taken	Whether from Outside/from the Institute.	Total Sessions	%
1	Dr. N M Patel	5	From the Institute.		
2	Dr. A R Patel	1	From the Institute.	9	40
3	Dr. Krunal Shukla	2	From the Institute.		40
4	Dr. D M Patel	1	From the Institute.		
5	Dr. Anil Markana	2	Outside the Institute.		
6	Dr. P J Gundaliya	2	Outside the Institute.		
7	Dr. Dipesh Makwana	2	Outside the Institute.		
8	Dr. Vivek Patel	1	Outside the Institute.		
9	Dr. Rajesh Sanghvi	1	Outside the Institute.	13	60
10	Dr. Dipankar Deb	1	Outside the Institute.		
11	Dr. Rina Trivedi	2	Outside the Institute.		
12	Dr. D D Mandaliya	1	Outside the Institute.		
13	Dr. Nitin Padhiyar	1	Outside the Institute.		
		22		22	100

5. About Resource persons:

Dr. N. M. Patel, Course Coordinator

Narendra Patel received his Ph.D. from Indian Institute of Technology, Gandhinagar in 2017 on "Strategies for Enhanced Performance of Single and Multi-Objective Optimization using Evolutionary Algorithms: Applications to Optimal Control Problems". Currently working as Associate Professor of Chemical Engineering at Vishwakarma Government Engineering College, Chandkheda. Research interests are Multi-Objective Optimization, Evolutionary Optimization, and Modelling and Simulation.



Dr. A R Patel, Course Coordinator

Ashok Patel received his Ph.D. from Sardar Patel University, V. V. Nagar in 2003 on "Some New Exact Solutions of Gravitational Field Equations in General Theory of Relativity". Currently working as Associate Professor of Mathematics at Vishwakarma Government Engineering College, Chandkheda. His research area is Mathematical modelling in Tribology. He has co-authored five books on Engineering Mathematics.



Dr. Dipankar Deb, Professor Electrical Engineering, IITRAM

He has experience of teaching 10 years. His area of interest for research includes Adaptive control system, active flow control, Renewable energy, Engine control, IPR. He has 06 US patents, 05 India Patents and published many papers in international journals. He has delivered expert talks in various STTP/FDP/Seminars.



Dr. Reena Trivedi, Associate Professor, Mechanical Engineering, Nirma University

Ms. Reena Trivedi has an experience of more than 20 years in the field of Teaching, Research & Industry. She has published number of papers in the area of CAD, FEA, Optimization, MEMS etc. in International referred journals and presented/published more than 15 papers in International Conferences/Proceedings. Her research interest includes MEMS, FEA, Optimization, CAD etc. She has guided more than 35 PG students.



Dr. Nitin Padhiyar, Assistant Professor, Chemical Engineering, IIT Gandhinagar

He has teaching experience of 10 years. His area of interest includes Process optimization and control, Multi-objective optimization, GA, Dynamic optimization, Model predictive control. He has published more than 25 papers in international journals. He has also delivered expert talks in various STTP/FDP/Seminars.



Dr. Anil Markana, Assistant Professor, Electrical Engineering, School of Technology, PDPU, Gandhinagar.

He has published more than 11 National and International Papers. He has delivered large number of technical talks at various conferences and workshops.



Dr. Vivek Patel, Assistant Professor, Mechanical Engineering, PDPU

He is working in the field of Friction stir processing for grain refinement and consequently super plasticity enhancement for high strength aluminium alloy. The recent area includes hard machining using a hybrid approach. Future work involves for fabrication of surface composites using friction stir processing and friction stir surfacing for improving tribological properties. He has published more than 30 papers in international and national journals.



Dr. Rajesh Sanghvi , Assistant Professor in Mathematics, GHCET, VVNagar

He obtained Ph.D. in the area of Signal Processing at CHARUSAT, Changa. He has more than twenty years of academic experience of teaching at under graduate and post graduate levels. His research interest includes optimization techniques, MCDM, Signal Processing, Evolutionary algorithms. He has published number of papers at National & International conferences and journals. He has been working as a reviewer of International Journals like Journal of Basic and Applied Research international, British Journal of Mathematics & Computer Science, British Journal of Applied Science & Technology etc.



Dr. P J Gundaliya, Professor, Civil Engineering, L D College of Engineering.

He did Ph.D. from IIT Bombay. He has published more than 50 papers in international and national journals. He has delivered expert talks in various STTP/FDP/Seminars.



Dr. Dipesh Makwana, Associate Professor of IC, GEC, Rajkot

He has 19 years of teaching experience. His interest area of research is control system design and automation. He has published many papers in international / national journals.



Dr. D. M. Patel, Professor, Mechanical Engineering, VGEC, Chandkheda

He did Ph.D. from GANPAT University, Mehsana. He has teaching experience of more than 15 years. His research includes advance manufacturing, CAD-CAM, integrated manufacturing. He has published more than 50 research papers in international / national journals.



Dr. D. D. Mandaliya, Associate Professor, Chemical Engineering, VGEC, Chandkheda

He did his Ph.D. from IIT Bombay on Model based analysis approaches for chemical reactors. He has 18 years of teaching experience. His area of research is Chemical reaction engineering. He has published many papers in international / national journals.



Dr. Kunal T Shukla, Assistant Professor in Mathematics, VGEC, Chandkheda

He did his Ph. D. from Gujarat University. He has teaching experience of 13 years and research experience of 6 years. His area of interest includes Supply Chain Management, Fuzzy Sets and Computational Mathematics. He has published more than 25 papers in international journals. He delivered expert sessions in seminars, FDP, refresher course and in BISAG series.



6. Details of participants:

Sr.	Name of Participant	Institute	ISTE membership
No.	Name of Participant	Histitute	no
1	C K Makwana	Government Engineering College, Bharuch	Applied for
2	Yamini Mansukhlal Parmar	GEC, GANDHINAGAR	LM66630
3	Rupal Paresh Vyasa	Government Engineering college, Modasa	LM02536
4	N.R.Vaghela	Government Engineering College,Bharuch	LM123062
5	Zalak Ashvinkumar Patel	L. D. College of Engineering	Applied for
6	Dipak J Varia	Government Engineering College,Patan	LM105884
7	Chirag B Mehta	Government Polytechnic Gandhinagar	LM053035
8	Kintu R Patel	Vishwakarma Govt. Engg. College, Chandkheda	Applied for
9	Kunal Tarunkumar Shukla	Vishwakarma Govt. Engg. College, Chandkheda	LM103780
10	Prajapati Ashishkumar Amrutlal	Shantilal Shah Engineering College	Applied for
11	Rajesh Kumar Jain	Shantilal Shah Engineering College, Bhavnagar	LM023371
12	Kamlesh R Gurjar	Vishwakarma Govt. Engg. College, Chandkheda	LM126927
13	Shah Jalpa Ashokkumar	Vishwakarma Govt. Engg. College, Chandkheda	Applied for
14	Mita Chauhan	Vishwakarma Govt. Engg. College, Chandkheda	LM046284
15	Nirav D. Mehta	Vishwakarma Govt. Engg. College, Chandkheda	LM048157
16	Matinahmed Shakurbhai Baqui	GP, Ahmedabad	LM104990
17	Ravikumar Dasharathlal Patel	K D Polytechnic,Patan	LM110892
18	Ashita Santoshkumar Pareek	Lec (Poly), Morbi	Applied for
19	Chirag Danabhai Zala	RCTI, Ahmedabad	LM100570
20	Rozina Rajesh Surani	Vishwakarma Govt. Engg. College, Chandkheda	Applied for
21	Darshna Manojkumar Joshi	GP, Ahmedabad	Applied for
22	Sunil Sevakram Changlani	Government Engineering College, Godhra	LM109640
23	Yogesh Jerambhai Morabiya	Vishwakarma Govt. Engg. College, Chandkheda	LM104468
24	Harshal Sharadbhai Wani	Vishwakarma Govt. Engg. College, Chandkheda	LM125838
25	Yashvant B Bhavsar	Vishwakarma Govt. Engg. College, Chandkheda	LM045150
26	Jigar J Chaudhari	Vishwakarma Govt. Engg. College, Chandkheda	Applied for
27	Dhruv Anand B.	Vishwakarma Govt. Engg. College, Chandkheda	Applied for
28	Joshi Kartikkumar Jayeshbhai	Vishwakarma Govt. Engg. College, Chandkheda-PG Scholar	Applied for
29	Jhaveri Sneha Bharatbhai	Vishwakarma Govt. Engg. College, Chandkheda-PG Scholar	Applied for
30	Krishan Patel	Vishwakarma Govt. Engg. College, Chandkheda-PG Scholar	Applied for
31	Dr. N M Patel	Vishwakarma Govt. Engg. College, Chandkheda	Coordinator
32	Dr. A R Patel	Vishwakarma Govt. Engg. College, Chandkheda	Coordinator

7. Attendance Reports:

All 30 participants are present for all 6 days. Their attendance report is as follow.

ISTE-GTU Sponsored One Week FDP on Multi-Objective Optimization: Theory and Applications [February, 11–16, 2019]

Institution Government Engineering College, Bharuch
GEC, GANDHINAGAR Government Engineering college, Modasa
Government Engineering College, Bharuch
L. D. College of Engineering
Government Engineering College, Patan
Government Polytechnic
Vishwakarma Govt. Engg. College,
Vishwakarma Govt. Engg. College,
Shantilal Shah Engineering College
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Vishwakarma Govt. Engg. College,

ISTE-GTU Sponsored One Week FDP on Multi-Objective Optimization: Theory and Applications [February, 11–16, 2019]

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Name		Matinahmed Shakurbhai Baqui	Ravikumar Dasharathlal Patel	Ashita Santoshkumar Pareek	Chirag Danabhai Zala	na Rajesh Surani	Darshna Manojkumar Joshi	Sunil Sevakram Changlani	Yogesh Jerambhai Morabiya	al Sharadbhai	Yashvant B Bhavsar	Jigar J Chaudhari	Dhruv Anand B.	kkumar	Jhaveri Sneha Bharatbhai	
Institution		GP, Ahmedabad	K D Polytechnic, Patan	Lec (Poly), Morbi	RCTI, Ahmedabad	Rozina Rajesh Surani Chandkheda Covt. Engg. College,	GP, Ahmedabad	Government Engineering College, Godhra	Vishwakarma Govt. Engg. College, Chandkheda	Vishwakarma Govt. Engg. College, Chandkheda-PG Scholar	Vishwakarma Govt. Engg. College, Chandkheda-PG Scholar	Vishwakarma Govt. Engg. College.				
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Sr.	Name	Institution		14/2	14/2/2019			15/2/	15/2/2019			16/2/2019	6
			S-I	S-III	S-III	S-IV	S-I	S-II	S-III	S-IV	S-I	S-II-S	S-III-S
-	C K Makwana	Government Engineering College, Bharuch	3	3	3	3	3	3	3	3	3	3	3
2	Yamini Mansukhlal Parmar	GEC, GANDHINAGAR	8	8	80	80	8	8	R	(Re	8	8	8
3	Rupal Paresh Vyasa	Government Engineering college, Modasa	35	3	2	200	24	28	39	Ze	3	2	3
4	N.R.Vaghela	Government Engineering College, Bharuch	5	3	a	5	5	5	5	2	3	5	5
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7	Chirag B Mehta	Government Polytechnic Gandhinagar	18	A	N	Jan	N	N	4	4	B	1	M
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No.	- 1	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
Name		Matinahmed Shakurbhai Baqui	Ravikumar Dasharathlal Patel	Ashita Santoshkumar Pareek	Chirag Danabhai Zala	Rozina Rajesh Surani Chandk	Darshna Manojkumar Joshi	Sunil Sevakram Changlani	Yogesh Jerambhai Morabiya	Harshal Sharadbhai Wani	Yashvant B Bhavsar	Jigar J Chaudhari	Dhruv Anand B.	Joshi Kartikkumar Jayeshbhai	Jhaveri Sneha Bharatbhai	Krishan Patel
Institution		GP, Ahmedabad	K D Polytechnic, Patan	Lec (Poly), Morbi	RCTI, Ahmedabad	Vishwakarma Govt. Engg. College,	GP, Ahmedabad	Government Engineering College, Godhra	Vishwakarma Govt. Engg. College, Chandkheda	Vishwakarma Govt. Engg. College, Chandkheda	Vishwakarma Govt. Engg. College, Chandkheda	Vishwakarma Govt. Engg. College, Chandkheda	Vishwakarma Govt. Engg. College, Chandkheda	Vishwakarma Govt. Engg. College, Chandkheda-PG Scholar	Vishwakarma Govt. Engg. College, Chandkheda-PG Scholar	Vishwakarma Govt. Engg. College, Chandkheda-PG Scholar
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8. Fee receipt for participants



GOVERNMENT OF GUJARAT

VISHWAKARMA GOVERNMENT ENGINEERING COLLEGE CHANDKHEDA, AHMEDABAD

(Affiliated with Gujarat Technologicla University)

Visat-Koba Road, Chandkheda, Ahmedabad - 382424 Gujarat, India www.vgecg.ac.in Email : principal@vgecg.ac.in, sts@vgecg.ac.in Ph. 079 (F) 23293866, (O) 29099903

NO. VGEC | FDP_MOO | 206

DT - 16/02/2019

Registration Fees Reciept

Following participants have paid registration fees of Rs. 500/- in cash to attend FDP on "Multi-Objective Optimization: Theory and Applications" at Vishwakarma Government Engineering College, Chandkheda-Ahmedabad from 11/02/2019 to 16/02/2019. The total Rs. 15000/-received in cash for all participants.

Sr. No.	Name of Participant	Institute name
1	C K Makwana	Government Engineering College, Bharuch
2	Yamini Mansukhlal Parmar	GEC, GANDHINAGAR
3	Rupal Paresh Vyasa	Government Engineering college, Modasa
4	N.R.Vaghela	Government Engineering College, Bharuch
5	Zalak Ashvinkumar Patel	L. D. College of Engineering
6	Dipak J Varia	Government Engineering College, Patan
7	Chirag B Mehta	Government Polytechnic Gandhinagar
8	Kintu R Patel	Vishwakarma Govt. Engg. College, Chandkheda
9	Kunal Tarunkumar Shukla	Vishwakarma Govt. Engg. College, Chandkheda
10	Prajapati Ashishkumar Amrutlal	Shantilal Shah Engineering College
11	Rajesh Kumar Jain	Shantilal Shah Engineering College, Bhavnagar
12	Kamlesh R Gurjar	Vishwakarma Govt. Engg. College, Chandkheda
13	Shah Jalpa Ashokkumar	Vishwakarma Govt. Engg. College, Chandkheda
14	Mita Chauhan	Vishwakarma Govt. Engg. College, Chandkheda
15	Nirav D. Mehta	Vishwakarma Govt. Engg. College, Chandkheda
16	Matinahmed Shakurbhai Baqui	GP, Ahmedabad
17	Ravikumar Dasharathlal Patel	K D Polytechnic, Patan
18	Ashita Santoshkumar Pareek	Lec (Poly), Morbi
19	Chirag Danabhai Zala	RCTI, Ahmedabad
20	Rozina Rajesh Surani	Vishwakarma Govt. Engg. College, Chandkheda
21	Darshna Manojkumar Joshi	GP, Ahmedabad
22	Sunil Sevakram Changlani	Government Engineering College, Godhra
23	Yogesh Jerambhai Morabiya	Vishwakarma Govt. Engg. College, Chandkheda
24	Harshal Sharadbhai Wani	Vishwakarma Govt. Engg. College, Chandkheda
25	Yashvant B Bhavsar	Vishwakarma Govt. Engg. College, Chandkheda
26	Jigar J Chaudhari	Vishwakarma Govt. Engg. College, Chandkheda
27	Dhruv Anand B.	Vishwakarma Govt. Engg. College, Chandkheda
28	Joshi Kartikkumar Jayeshbhai	Vishwakarma Govt. Engg. College, Chandkheda-PG Scholar
29	Jhaveri Sneha Bharatbhai	Vishwakarma Govt. Engg. College, Chandkheda-PG Scholar
30	Krishan Patel	Vishwakarma Govt. Engg. College, Chandkheda-PG Scholar



Coordinators

Prof. N. M. Patel Norpati

Prof. A. R. Patel

VGEC, Chandkheda.

9. Feedback of participants (Samples):



VISHWAKARMA GOVERNMENT ENGINEERING COLLEGE

Chemical Engineering and General Department

FDP on "Multi-Objective Optimization: Theory and Applications"

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Please rate your response in the box provided between 1 to 5. Where 5 being the highest and 1 being $^{\circ}$	ng
the lowest.	

		Duration: 11 to 16 February, 2019
		FEEDBACK FORM
	Please	rate your response in the box provided between 1 to 5. Where 5 being the highest and 1 being
	the lov	
	1.	How do you rate the theory sessions delivered by different experts?
	2.	How do you rate the theory sessions delivered by different experts? How do you rate the demonstration sessions delivered by experts? How do you rate the overall experience of the FDP?
	3.	How do you rate the overall experience of the FDP?
	4.	Please provide three key aspects that you liked about the FDP.
		a. Theory Separan with practical Demonstration 8 case objected.
		b. Hands on session Explaining working of Tools.
		c. Art of Living Solvions.
	5.	How did this program help you in gaining the knowledge?
		This training gives ange the new direction of knowledge of optimization. Use can be used in Field of power electronist.
	6.	How do you think this program will help you in your studies/work assignment and deliverables?
7		The outcome of this program will help us to teach the subject in affiliating institute as well as in research.
	7.	Please suggest areas we should improve upon for this FDP.
		Two more sepoten should be there as 'Hands on soon in' it possible. Given more time to 'ART OF LIVING SESSION".
	Pleas	e provide following details: (OPTIONAL)
		Designation: ASSISTANT PROFESSOR

Name: N. D. MEHTA Des Institute/Organization: VGEC, CHANDKHEDA Highest Qualification: M. TECH. Email ID: namenta (g) vgoca.ac.in Mobile No.: 98245 23813.



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Chemical Engineering and General Department

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Duration: 11 to 16 February, 2019	
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2. How do you rate the demonstration sessions delivered by experts?	3
3. How do you rate the overall experience of the FDP?	5
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b. With range of topics covered	
c. Art & living session	
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Please provide following details: (OPTIONAL)	
Name: Rall Kumar Tan' Designation: Professor	<u> </u>
Institute/Organization: SSEC, Bharkaga Highest Qualification: Ph. D	
Email ID: Mobile No.: 942846577	8

10. Examinations and Results

For evaluation the groups were formed of participants and they have been allotted a Multi-objective optimization problem of their domain. Evaluation was carried out on the base of presentation and the solution of the problem allotted. Their individual marks in percentage are as follows:

1 C K Makwana Government Engineering College, Bharuch 78% 2 Yamini Mansukhlal Parmar GEC, GANDHINAGAR 72% 3 Rupal Paresh Vyasa Government Engineering college, Modasa 82% 4 N.R.Vaghela Government Engineering College, Bharuch 83% 5 Zalak Ashvinkumar Patel L. D. College of Engineering 80% 6 Dipak J Varia Government Engineering College, Patan 75% 7 Chirag B Mehta Government Polytechnic Gandhinagar 83% 8 Kintu R Patel Vishwakarma Govt. Engg. College, Chandkheda 72% 9 Kunal Tarunkumar Shukla Vishwakarma Govt. Engg. College, Chandkheda 85% 10 Prajapati Ashishkumar Amrutlal Shantilal Shah Engineering College 82% 11 Rajesh Kumar Jain Shantilal Shah Engineering College, Bhavnagar 80% 12 Kamlesh R Gurjar Vishwakarma Govt. Engg. College, Chandkheda 78% 13 Shah Jalpa Ashokkumar Vishwakarma Govt. Engg. College, Chandkheda 72% 14 Mita Chauhan Vishwakarma Govt. Engg. College, Chandkheda 78% 15 Nir	Sr. No.	Name of Participant	Institute	Marks obtained
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16 Matinahmed Shakurbhai Baqui GP, Ahmedabad 78% 17 Ravikumar Dasharathlal Patel K D Polytechnic,Patan 73% 18 Ashita Santoshkumar Pareek Lec (Poly), Morbi 78% 19 Chirag Danabhai Zala RCTI, Ahmedabad 75% 20 Rozina Rajesh Surani Vishwakarma Govt. Engg. College, Chandkheda 80% 21 Darshna Manojkumar Joshi GP, Ahmedabad 78% 22 Sunil Sevakram Changlani Government Engineering College, Godhra 75% 23 Yogesh Jerambhai Morabiya Vishwakarma Govt. Engg. College, Chandkheda 75% 24 Harshal Sharadbhai Wani Vishwakarma Govt. Engg. College, Chandkheda 78% 25 Yashvant B Bhavsar Vishwakarma Govt. Engg. College, Chandkheda 80% 26 Jigar J Chaudhari Vishwakarma Govt. Engg. College, Chandkheda 82% 27 Dhruv Anand B. Vishwakarma Govt. Engg. College, Chandkheda 78% 28 Joshi Kartikkumar Jayeshbhai Vishwakarma Govt. Engg. College, Chandkheda 78% 29 Jhaveri Sneha Bharatbhai Vishwakarma Govt. Engg. College, Chandkheda-PG Scholar 82%	14	Mita Chauhan	Vishwakarma Govt. Engg. College, Chandkheda	72%
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19 Chirag Danabhai Zala RCTI, Ahmedabad 75% 20 Rozina Rajesh Surani Vishwakarma Govt. Engg. College, Chandkheda 80% 21 Darshna Manojkumar Joshi GP, Ahmedabad 78% 22 Sunil Sevakram Changlani Government Engineering College, Godhra 75% 23 Yogesh Jerambhai Morabiya Vishwakarma Govt. Engg. College, Chandkheda 75% 24 Harshal Sharadbhai Wani Vishwakarma Govt. Engg. College, Chandkheda 78% 25 Yashvant B Bhavsar Vishwakarma Govt. Engg. College, Chandkheda 80% 26 Jigar J Chaudhari Vishwakarma Govt. Engg. College, Chandkheda 82% 27 Dhruv Anand B. Vishwakarma Govt. Engg. College, Chandkheda 78% 28 Joshi Kartikkumar Jayeshbhai Vishwakarma Govt. Engg. College, Chandkheda 78% 29 Jhaveri Sneha Bharatbhai Vishwakarma Govt. Engg. College, Chandkheda-PG Scholar 82%	17	Ravikumar Dasharathlal Patel	K D Polytechnic,Patan	73%
20Rozina Rajesh SuraniVishwakarma Govt. Engg. College, Chandkheda80%21Darshna Manojkumar JoshiGP, Ahmedabad78%22Sunil Sevakram ChanglaniGovernment Engineering College, Godhra75%23Yogesh Jerambhai MorabiyaVishwakarma Govt. Engg. College, Chandkheda75%24Harshal Sharadbhai WaniVishwakarma Govt. Engg. College, Chandkheda78%25Yashvant B BhavsarVishwakarma Govt. Engg. College, Chandkheda80%26Jigar J ChaudhariVishwakarma Govt. Engg. College, Chandkheda82%27Dhruv Anand B.Vishwakarma Govt. Engg. College, Chandkheda78%28Joshi Kartikkumar JayeshbhaiVishwakarma Govt. Engg. College, Chandkheda-PG Scholar82%29Jhaveri Sneha BharatbhaiVishwakarma Govt. Engg. College, Chandkheda-PG Scholar80%	18	Ashita Santoshkumar Pareek	Lec (Poly), Morbi	78%
21Darshna Manojkumar JoshiGP, Ahmedabad78%22Sunil Sevakram ChanglaniGovernment Engineering College, Godhra75%23Yogesh Jerambhai MorabiyaVishwakarma Govt. Engg. College, Chandkheda75%24Harshal Sharadbhai WaniVishwakarma Govt. Engg. College, Chandkheda78%25Yashvant B BhavsarVishwakarma Govt. Engg. College, Chandkheda80%26Jigar J ChaudhariVishwakarma Govt. Engg. College, Chandkheda82%27Dhruv Anand B.Vishwakarma Govt. Engg. College, Chandkheda78%28Joshi Kartikkumar JayeshbhaiVishwakarma Govt. Engg. College, Chandkheda-PG Scholar82%29Jhaveri Sneha BharatbhaiVishwakarma Govt. Engg. College, Chandkheda-PG Scholar80%	19	Chirag Danabhai Zala	RCTI, Ahmedabad	75%
22Sunil Sevakram ChanglaniGovernment Engineering College, Godhra75%23Yogesh Jerambhai MorabiyaVishwakarma Govt. Engg. College, Chandkheda75%24Harshal Sharadbhai WaniVishwakarma Govt. Engg. College, Chandkheda78%25Yashvant B BhavsarVishwakarma Govt. Engg. College, Chandkheda80%26Jigar J ChaudhariVishwakarma Govt. Engg. College, Chandkheda82%27Dhruv Anand B.Vishwakarma Govt. Engg. College, Chandkheda78%28Joshi Kartikkumar JayeshbhaiVishwakarma Govt. Engg. College, Chandkheda-PG Scholar82%29Jhaveri Sneha BharatbhaiVishwakarma Govt. Engg. College, Chandkheda-PG Scholar80%	20	Rozina Rajesh Surani	Vishwakarma Govt. Engg. College, Chandkheda	80%
Yogesh Jerambhai Morabiya Vishwakarma Govt. Engg. College, Chandkheda 75% Harshal Sharadbhai Wani Vishwakarma Govt. Engg. College, Chandkheda 78% Yashvant B Bhavsar Vishwakarma Govt. Engg. College, Chandkheda 80% Jigar J Chaudhari Vishwakarma Govt. Engg. College, Chandkheda 82% Dhruv Anand B. Vishwakarma Govt. Engg. College, Chandkheda 78% Joshi Kartikkumar Jayeshbhai Vishwakarma Govt. Engg. College, Chandkheda 78% Vishwakarma Govt. Engg. College, Chandkheda 82% Vishwakarma Govt. Engg. College, Chandkheda-PG Scholar 82% Vishwakarma Govt. Engg. College, Chandkheda-PG Scholar	21	Darshna Manojkumar Joshi	GP, Ahmedabad	78%
24Harshal Sharadbhai WaniVishwakarma Govt. Engg. College, Chandkheda78%25Yashvant B BhavsarVishwakarma Govt. Engg. College, Chandkheda80%26Jigar J ChaudhariVishwakarma Govt. Engg. College, Chandkheda82%27Dhruv Anand B.Vishwakarma Govt. Engg. College, Chandkheda78%28Joshi Kartikkumar JayeshbhaiVishwakarma Govt. Engg. College, Chandkheda-PG Scholar82%29Jhaveri Sneha BharatbhaiVishwakarma Govt. Engg. College, Chandkheda-PG Scholar80%	22	Sunil Sevakram Changlani	Government Engineering College, Godhra	75%
25 Yashvant B Bhavsar Vishwakarma Govt. Engg. College, Chandkheda 80% 26 Jigar J Chaudhari Vishwakarma Govt. Engg. College, Chandkheda 82% 27 Dhruv Anand B. Vishwakarma Govt. Engg. College, Chandkheda 78% 28 Joshi Kartikkumar Jayeshbhai Vishwakarma Govt. Engg. College, Chandkheda-PG Scholar 82% 29 Jhaveri Sneha Bharatbhai Vishwakarma Govt. Engg. College, Chandkheda-PG Scholar 80%	23	Yogesh Jerambhai Morabiya	Vishwakarma Govt. Engg. College, Chandkheda	75%
26Jigar J ChaudhariVishwakarma Govt. Engg. College, Chandkheda82%27Dhruv Anand B.Vishwakarma Govt. Engg. College, Chandkheda78%28Joshi Kartikkumar JayeshbhaiVishwakarma Govt. Engg. College, Chandkheda-PG Scholar82%29Jhaveri Sneha BharatbhaiVishwakarma Govt. Engg. College, Chandkheda-PG Scholar80%	24	Harshal Sharadbhai Wani	Vishwakarma Govt. Engg. College, Chandkheda	78%
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29 Jhaveri Sneha Bharatbhai Vishwakarma Govt. Engg. College, Chandkheda-PG Scholar 80%	27	Dhruv Anand B.	Vishwakarma Govt. Engg. College, Chandkheda	78%
	28	Joshi Kartikkumar Jayeshbhai	Vishwakarma Govt. Engg. College, Chandkheda-PG Scholar	82%
30 Krishan Patel Vishwakarma Govt. Engg. College, Chandkheda-PG Scholar 83%	29	Jhaveri Sneha Bharatbhai	Vishwakarma Govt. Engg. College, Chandkheda-PG Scholar	80%
	30	Krishan Patel	Vishwakarma Govt. Engg. College, Chandkheda-PG Scholar	83%

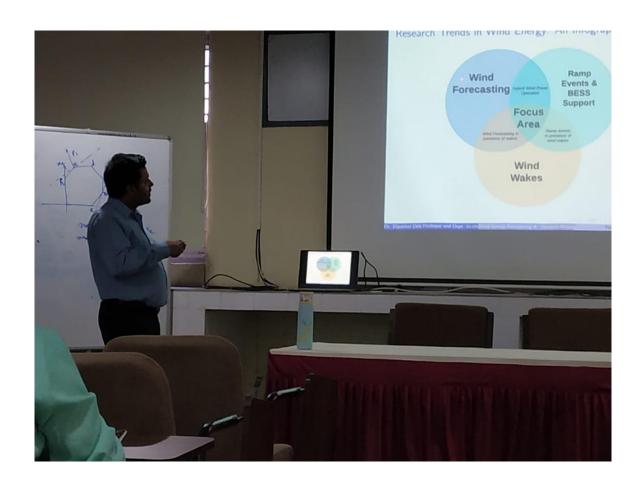
11. Some Glimpse of FDP:









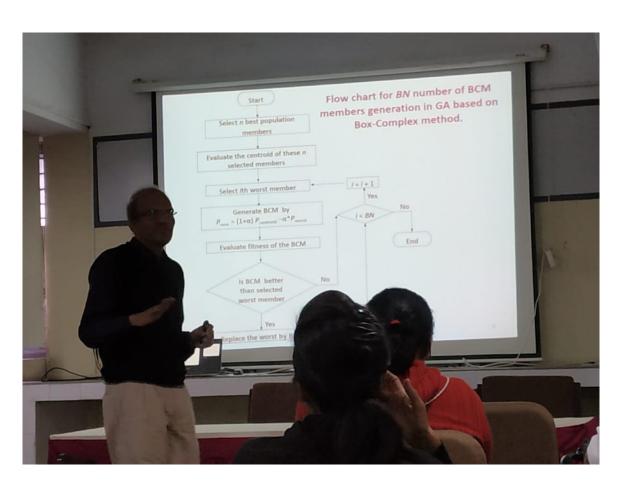
















12. Valedictory

The FDP was concluded with the valedictory function in which the participants were issued participation certificates in presence of Dr. K. M. Bhavsar (Chairman, ISTE Gujarat Section), Dr. S. D. Panchal (I/C Registrar GTU), Dr. R. K. Gajjar (Principal, VGEC, Chandkheda), Dr. R. A. Thakker, Dr. N. M. Patel and Dr. A. R. Patel (Coordinators of FDP), HoD's of all departments and faculty members of college.

Dr. K. M. Bhavsar gave brief summary of activities done by ISTE. He also mentioned about important role of ISTE in providing quality training programmes to teachers and administrators of technical institutions to update their knowledge and skills in their fields of activity. Session ended with vote of thanks to all contributors who had made this FDP successful.

