

Summary of the projects done during last 5.5 years

Year	Semester	No. of Projects
2009-10	First	09
2008-09	First	12
	Second	04
2007-08	First	12
	Second	04
2006-07	First	08
	Second	01
2005-06	First	11
	Second	02
2004-05	First	12
	Second	04

ACADEMIC YEAR 2009-10**FIRST SEMESTER**

SN.	ID No.	Project Title	Guide	Remarks*
1	06MC514	Touch Screen controlled vehicle	Mr G J Patel Mr B R Hindocha	
	06MC530			
	06MC534			
2	06MC516	Estimating the relation between flow control and other parameters of a Francis turbine using artificial neural Networks	Prof B A Doshi Mr R C Sanghavi	
	06MC524			
3	06MC522	Machine Vision based part inspection	Mr V D Chauhan Prof C K Modi	
	06MC558			
4	06MC523	Air Muscle Actuated Humanoid Hand	Mr V D Chauhan Mr M M Bhesania	
	06MC525			
	06MC529			
5	06MC547	Image Processing Base Over Head Crane	Prof B A Doshi Mr Mr G J Patel	
	06MC550			
6	06MC503	Design and Implementation of Water Jet Cutting Machine	Mr S M Sheth Prof D M Fulwani	
	06MC504			
	06MC512			
7	06MC507	Home Automation System	Mr S M Sheth Mr G J Patel	
	06MC549			
	06MC556			
8	06MC528	Automatic sorting system using machine vision	Mr S M Sheth Prof R K Kher	
	06MC557			
	07MC593			
9	06MC543	Improved Ergonomic Design for Passenger Cars	Mr S M Sheth Prof K M Tamboli	
	06MC546			

ACADEMIC YEAR 2008-09**FIRST SEMESTER**

Sr. No.	Project Title	Students	Guide
1	Determination of optimal machining parameters for minimizing the cost	05 MC 502 05 MC 520 05 MC 557	Mr. Saurin M Sheth Mr. R C Sanghvi
2	Development of CNC Radial Drilling machine	05 MC 506 05 MC 507 05 MC 555	Mr. Saurin M Sheth Mr. G.J.Patel
3	Wireless Autonomous ground vehicle	05 MC 525 05 MC 539 05 MC 552	Mr. Saurin M Sheth Mr. G.J.Patel
4	Working of multiple mobile robots by mutual coordination	05 MC 553 05 MC 556 05 MC 560	Mr. Saurin M Sheth Mr. G.J.Patel
5	Automatic Material Handling system	05 MC 503 05 MC 513 05 MC 515	Mr. Vedang D Chauhan Mr. B.R.Hindocha
6	PLC based Automatic Stacking and Retrieval system	05 MC 508 05 MC 510 05 MC 511	Mr. Vedang D Chauhan Mr. B.R.Hindocha
7	Motion control of Gantry Robot in 2-axis	05 MC 516 05 MC 518 05 MC 522	Mr. Vedang D Chauhan Mr. B.R.Hindocha
8	Microcontroller based robot arm for sorting of objects	05 MC 551 05 MC 554 04 MC 574	Mr. Vedang D Chauhan Mr. Rahul K Kher
9	Design of robotic arm for welding operation	05 MC 504 05 MC 505 05 MC 558	Mr. Anand Y Joshi Mr. B.R.Hindocha
10	Design and development of Electro Chemical Machining process	05 MC 523 05 MC 528 06 MC 594	Mr. Anand Y Joshi Mr. B.R.Hindocha Mr. G.J.Patel
11	Bottle level inspection using camera system	05 MC 538 05 MC 540 05 MC 542	Prof. B.A.Doshi Mr. C.K.Modi
12	Active blade angle device for wind mill	06 MC 591 06 MC 592 06 MC 596	Prof. B.A.Doshi Mr. G.J.Patel

ACADEMIC YEAR 2008-09**SECOND SEMESTER**

Sr. No.	Project Title	Students	Guide
1	Development of CNC Radial Drilling machine	05 MC 506	Mr. Saurin M Sheth Mr. G.J.Patel
2	Design and development of Electro Chemical Machining process	05 MC 523 05 MC 528 06 MC 594	Mr. Anand Y Joshi Mr. B.R.Hindochoa
3	Bottle level inspection using camera system	05 MC 538 05 MC 540 05 MC 542	Mr. Vedang Chauhan Mr. C.K.Modi
4	Active blade angle device for wind mill	06 MC 591 06 MC 592 06 MC 596	Prof. B.A.Doshi Mr. G.J.Patel

ACADEMIC YEAR 2007-08**FIRST SEMESTER**

Sr. No.	Project Title	Students	Guide	For more details refer*
1	Three components strain gauge based Milling Dynamometer	04 MC 514	Mr V D Chauhan Prof C V Sheth	
		04 MC 518		
		04 MC 520		
2	Automated Guided Vehicle	04 MC 531	Prof. A Y Joshi Prof R M Patel	
		04 MC 534		
		04 MC 542		
3	Automation of Lathe	04 MC 505	Mr G J Patel Mr S P Shah	
		04 MC 528		
		04 MC 529		
4	Controller Design for SCORBOT ER –V plus	04 MC 535	Mr F R Malek Mr G J Patel	
		04 MC 554		
		04 MC 572		
5	Automated Car Controlling System	04 MC 516	Mr G J Patel Mr S M Sheth	
		04 MC 525		
		04 MC 545		
6	Micro Mouse	04 MC 538	Mr S M Sheth Mr I R Anadkat	
		04 MC 546		
		04 MC 551		

7	Design and Analysis of a Robotic Leg mechanism	04 ME 361	Prof V N Patel Mr G J Patel	
8	Design of Gas cutting machine	04 MC 536	Mr V D Chauhan Mr B R Hindocha	
		05 MC 597		
9	Automated Storage and Retrieval Systems	05 MC 591	Dr A Verma Mr B R Hindocha	
		05 MC 594		
		05 MC 596		
10	Parameter control of hydrogen powered fuel cell vehicle	04 MC 501	Prof M C Desai Mr G J Patel	
		04 MC 507		
11	Automated pipe cutting machine	04 MC 509	Mr G J Patel Prof A Y Joshi	
		04 MC 523		
12	Coloring Automation	04 MC 510	Mr G J Patel	
		04 MC 540		
		04 MC 553		

ACADEMIC YEAR 2007-08

SECOND SEMESTER

Sr. No.	Project Title	Students	Guide	For more details refer
1	Coloring Automation	04 MC 510	Mr G J Patel	
		04 MC 540		
		04 MC 553		
2	Automated Car Controlling System	04 MC 525	Mr G J Patel Mr S M Sheth	
		04 MC 545		
3	Micro Mouse	04 MC 538	Mr S M Sheth Mr I R Anadkat	
		04 MC 546		
		04 MC 551		
4	Manufacturing & Testing of Innovative Walking Mechanisms	04ME361	Mr V D Chauhan Mr G J Patel	

ACADEMIC YEAR 2006-07**FIRST SEMESTER**

Sr. No.	Project Title	Students	Guide	For more details refer
1	Automatic stamping machine	03MC502 03MC506 03MC516	Mr G Patel	
2	Automated Bottle filling, capping and labeling system	03MC503 03MC556 04MC597	Mr G Sharma Mr G J Patel	
3	Task handling by Multiple mobile robots	03MC505 03MC513 03MC527	Mr G J Patel Dr A Verma	
4	Design of FFT based vibration analyzer	03MC509 03MC549	Mr M A Bulsara Mr G Patel	
5	Advanced Diamond cutting technique	03MC514 03MC521	Mr M M Bhesania Prof B A Doshi	
6	Controlled Area network in Automobiles	03MC523 03MC524 03MC529	Mr B V Thakkar Mr A Y Joshi	
7	Automatic Gear Transmission of bicycle	03MC552 03MC555 04MC592	Mr A Y Joshi Mr M M Bhesania	
8	Mini Transporting robot	03MC557 04MC575	Dr A Verma Mr G J Patel	

ACADEMIC YEAR 2006-07**SECOND SEMESTER**

Sr. No.	Project Title	Students	Guide	For more details refer
1	Task handling by Multiple mobile robots	03MC505 03MC513 03MC527	Mr G J Patel Dr A Verma	

ACADEMIC YEAR 2005-06**FIRST SEMESTER**

Sr. No.	Project Title	Students	Guide	For more details refer
1	Electronic stability program for car stability	02MC508 02MC512 02MC542	Mr A Y Joshi Mr N H Desai	
2	Soap Noodle Bagging Plant & Palletizing Robot	02MC528 02MC531 02MC532	Mr S N Bhavsar Mr N H Desai	
3	Automatic Cradle	02MC513 02MC538 02MC556	Mr A Y Joshi Mr N H Desai	
4	Co-ordinate Measuring Machines	02MC534 02MC558	Mr S C Shah Mr D C Patel	
5	Industrial Salvage Claw	02MC535 02MC543	Mr S N Bhavsar Mr D C Patel	
6	Automatic Wiper with Rain Seissors	02MC554 02MC560	Mr G Sharma Mr D C Patel	
7	Laser Based Diamond Cutting M/c	02MC503 02MC510	Ms V V Nair Mr M B Shah	
8	Automated Pouring Technique	02MC553 02MC547 02MC548	Mr S C Shah Mr M B Shah	
9	A Closed Loop Control System for an Axis control in CNC application	02MC509 02MC519 00MC517	Mr S P Shah Mr D M Fulwani	
10	Position & Proportional Control System	02MC516 02MC518	Prof B A Doshi Mr B V Thakkar	
11	Automatic loading & unloading of the job on Grinding machine	02MC501 02MC536 02MC557	Mr S C Shah	

ACADEMIC YEAR 2005-06**SECOND SEMESTER**

Sr. No.	Project Title	Students	Guide	For more details refer
1	A Closed loop Control System for an Axis control in CNC application	02MC509 02MC519 00MC517	Mr S P Shah Mr D M Fulwani	
2	Position & Proportional Control System	02MC516 02MC518	Prof B A Doshi Mr B V Thakkar	

ACADEMIC YEAR 2004-05**FIRST SEMESTER**

Sr. No.	Project Title	Students	Guide	For more details refer
1	Data Acquisition System In An Industry	00MC519 00MC527 00MC530	Mr N.H.Desai	
2	Mechanical support For Breathing	01MC555 01MC562 01MC563	Mr N.H.Desai	
3	Automatic Ball Throwing Machine	01MC527 01MC539 01MC568	Mr A.Y.Joshi	
4	SCADA System	01MC511 01MC526 01MC553	Mr B.V.Thakkar	
5	CNC Technology Inside Out	01MC515 01MC536 01MC540	Mr S.N.Bhavsar	
6	Wire Cut Electric Discharge Machine	01MC510 01MC532 01MC554	Mr H.B.Shah Mr A.Y.Joshi	
7	Vibration Free (Car) Suspension	01MC517 01MC535 01MC569	Mr J.H.Dani Mr M.S.Vegad	
8	Vending Machine	01MC564 01MC565	Mr M.M.Bhesania	
9	Micro-Controller Based Hydraulic Power Steering	00MC518 00MC521	Mr A.Y.Joshi Mr N.H.Desai	
10	Design of Pick & Place Robot and Use it to sort Bottles from One Conveyor to Another	01MC516 01MC533 01MC538	Mr D.M.Fulwani Mr M.S.Mehta	
11	Machine Motion Control device	01MC518 01MC519 01MC529	Mr M.M.Bhesania	
12	Measurement and Control of Circumferential stress in a Pressure Vessel	01MC503 01MC525 01MC567	Mr G.Sharma	

ACADEMIC YEAR 2004-05**SECOND SEMESTER**

Sr. No.	Project Title	Students	Guide	For more details refer
1	Two Axes Job Profile Detector	01MC521 01MC524 01MC531	Mr D.M.Fulwani	
2	Pick and Place Robot Arm	01MC516 01MC533 01MC538	Mr M.S.Mehta Mr D.M.Fulwani	
3	Mechanical Support for Breathing	01MC555 01MC562 01MC563	Mr N.H. Desai	
4	Automatic Buffing Machine	01MC556	Mr J.H.Dani Mr D.M.Fulwani	

* Full Project reports are available in the Departmental Library as well as main library.