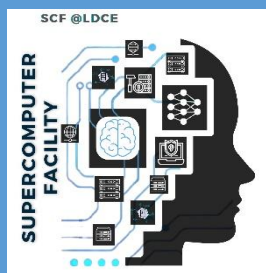


COMPUTER ENGINEERING DEPARTMENT

L. D. College of Engineering - Ahmedabad

Academic
Year Book
(2022-23)



CONTACT DETAIL

Address of LDCE	L.D. College of Engineering Opp Gujarat University, Navrangpura, Ahmedabad – 380015, GUJARAT INDIA Google Map: https://goo.gl/maps/CZ1G41FXuMEHStrd7
Address of Computer Engineering Department	Computer Engineering Department, L.D. College of Engineering Opp Gujarat University, Navrangpura, Ahmedabad – 380015, GUJARAT INDIA Google Map: https://goo.gl/maps/ZvypHxHQ7kzecUzQ6
Principal, LDCE	Dr R.K.Gajjar Address: L.D. College of Engineering Opp Gujarat University, Navrangpura, Ahmedabad - 380015. GUJARAT INDIA Email: ldce-abad-dte@gujarat.gov.in Website: https://ldce.ac.in
Head of Department, Computer Engineering	Dr. Chirag S. Thaker Address: Computer Engineering Department, L.D. College of Engineering Opp Gujarat University, Navrangpura, Ahmedabad - 380015. GUJARAT INDIA Email: chiragthaker@ldce.ac.in Website: https://ldce.ac.in/departments/computer-engineering
Hostel, LDCE	Website: https://ldce.ac.in/hostels
Student Store	Block-5, Near Mechanical Drawing Hall, LDCE-Ahmedabad

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Staff Details

Name	Designation	Email	Area of Interest	Office (Room No)
Prof. (Dr.) C.S. THAKER	Professor	chiragthaker@ldce.ac.in	Artificial Intelligence, Machine Learning, Cloud Computing, Cloud Security, Data Analytics and Cognitive Behavioural System	223
Prof. T. J.RAVAL	Associate Professor	tushar.raval@ldce.ac.in	Information Security, Network Security, Cloud computing, Data Mining, IoT	F-06
Prof. R.JAISHWAL	Assistant Professor	rajlakshmijaiswal@yahoo.in	Information Security, Cloud Computing, Machine Learning	228
Prof. H. A.JOSHIYARA	Assistant Professor	hetaljoshiyara@gmail.com	Big Data Processing, Data Mining, Cloud Computing, Machine Learning	221-C
Prof. H. B.PANDYA	Assistant Professor	hetalbpanya@yahoo.com	Internet of Things	227
Prof. (Dr.) D. H.BUCH	Assistant Professor	dharabuch.ce@ldce.ac.in	Information Security, Cloud Security	228
Prof. A. V.SHAH	Assistant Professor	ami1382@gmail.com	Information Security, Internet of Things	221-C
Prof. H. K.GEVARIYA	Assistant Professor	hetalnakrani@ldce.ac.in	Security in Routing in MANET, Algorithms, Security in IOT	227
Prof. B. A.OZA	Assistant Professor	bhaves.h.oza.123@gmail.com	Computer Vision & ML DL	227
Prof.(Dr.) S. A.PATEL	Assistant Professor	sunilpatel.ce@ldce.ac.in	Information Security, Distributed Computing, Secure Software Development	221
Prof. K. M.PATEL	Assistant Professor	patelkalpeshm@gmail.com	Image Processing, Deep Learning	F-07
Prof. T. A.CHAMPANERIA	Assistant Professor	tushar.1985@gmail.com	IoT, Security, ML, DL	F-01
Prof. (Dr.) V. B. VAGHELA	Assistant Professor	vimalvaghela@gmail.com	Data Mining, Machine Learning, Deep Learning, Computer Network, Soft Computing	F-08
Prof. R. A.DAYMA	Assistant Professor	ceradayma@gmail.com	Computer networks, Internet of Things	221-C
Prof. M. K.SHAH	Assistant Professor	maitrikshah.ce@gmail.com	Satellite image processing, Natural language Processing, Deep learning	F-02

Prof. Z. Y.NOORANI	Assistant Professor	zishannoorani@ldce.ac.in	Network Security, Security in Routing MANET, IoT and it's Security challenges	F-03
Prof. P. G.PATEL	Assistant Professor	pragneshce@gmail.com	Deep Learning, Data Security, Image processing, Satellite Image Processing	F-04
Prof. S.R.MODI	Assistant Professor	shraddhamodi@ldce.ac.in	Algorithms, Computer network, cloud computing	227
Prof. P.V.PANCHOLI	Assistant Professor	prachipancholi@ldce.ac.in	Algorithms, Machine Learning, deep learning	221
Prof. (Dr.) N. H. DOMADIYA	Assistant Professor	nikunjdomadiya.ce@ldce.ac.in	Privacy and security in Data Mining	233-A
Prof. H. D. RAJPUT	Assistant Professor	hitesh.rajput@ldce.ac.in	Digital Image Processing	F-05
Prof. P. R. DAVE	Assistant Professor	prd7889@gmail.com	Data Mining, Machine learning, Image Processing, Deep Learning	227
Prof. Y. B. PATEL	Assistant Professor	yogeshpatel.ce@gmail.com	Operating Systems, Algorithms, Cloud Computing	221
Prof. P. D. SALOT	Assistant Professor	pinal.salot@gmail.com	Big Data Analytics, Machine learning, Image processing	228

Under Graduate/Post Graduate Courses

Computer engineering is the fastest developing discipline in the world. It integrates several fields of electrical engineering and computer science required to develop computer hardware and software. Computer engineers embed computers in other machines and systems, build networks to transfer data and develop ways to make computers, faster, smaller and more capable. The major technical areas of Computer Engineering are: Cyber security, Networking, Database Handling, Artificial Intelligence, Design Automation, Computer software, Embedded Systems.

Computer Engineers venture into various fields such as web-development, Computer Support Specialist, Computer Systems Analyst, Computer Systems Designer, Database Administrator, Network Administrator and much more. Future opportunities in this field are beyond boundaries. Computer Engineering Department in L.D.C.E covers a wide spectrum of topics in data communication, computer networking, operating systems, microprocessor programming and applications, parallel processing, compiler design, system programming, software engineering, simulation and modeling, distributed systems, graphics and image processing, various packages and software like ORACLE, JAVA, VC++ etc.

Name of Course	Type	Period (Years)	Intake	Year of Starting
Computer Engineering	UG	4	120	1983
Computer Science & Engineering (Artificial Intelligence and Machine Learning)	UG	4	60	2022
Computer Engineering	PG	2	18	2009

Class Coordinators

UG Courses

First Year (Computer Engineering)	<ul style="list-style-type: none">• Prof. Z. Y. NOORANI zishannoorani@ldce.ac.in Office: F-03• Prof. P. D. Salot pinal.salot@gmail.com Office: 228
First Year (Computer Science & Engineering (Artificial Intelligence and Machine Learning))	<ul style="list-style-type: none">• Prof. P.V.PANCHOLI prachipancholi@ldce.ac.in Office: 221
Second Year (Computer Engineering)	<ul style="list-style-type: none">• Prof. S. A. PATEL sunilpatel.ce@ldce.ac.in Office: 221• Prof. S. R. MODI shraddhamodi@ldce.ac.in Office: 227• Prof. Y. B. PATEL yogeshpatel.ce@gmail.com Office: 221
Third Year (Computer Engineering)	<ul style="list-style-type: none">• Prof. (Dr.) D. H. BUCH धारabuch.ce@ldce.ac.in Office: 228• Prof. H. K. GEVARIYA hetalnakrani@ldce.ac.in Office: 227• Prof. N. H. DOMADIYA nikunjdomadiya.ce@ldce.ac.in Office: 237-A
Fourth Year (Computer Engineering)	<ul style="list-style-type: none">• Prof. B. A. OZA bhavesh.oza.123@gmail.com Office: 227• Prof. M. K. SHAH maitrikshah.ce@gmail.com Office: F-02

Class Coordinators

PG Course

First and Second year (Computer Engineering)

- Prof. H. B. PANDYA
hetalbpanya@yahoo.com
Office: 227
- Prof. H. D. RAJPUT
hitesh.rajput@ldce.ac.in
Office: F-05

CURRICULUM

Computer Engineering (UG)

First Year

Induction Program :	9-Sep-2022 to 22-Sep-2022
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<u>Subcode</u>	<u>Subject Name</u>	<u>Sem /Year</u>	<u>Hours</u>			<u>Credit</u>
			<u>Lecture</u>	<u>Tutorial</u>	<u>Practical</u>	<u>Total</u>
3110001	Chemistry	1	3	0	2	4
3110002	English	1	2	0	2	3
3110003	Programming for Problem Solving	1	3	0	2	4
3110005	Basic Electrical Engineering	1	3	0	2	4
3110006	Basic Mechanical Engineering	1	3	0	2	4
3110007	Environmental Sciences	1	2	2	0	0
3110012	Workshop/ Manufacturing Practices	1	0	0	4	2
3110013	Engineering Graphics & Design	1	2	0	4	4
3110014	Mathematics - 1	1	3	2	0	5
3110015	Mathematics - 2	1	3	2	0	5
3110016	Basic Electronics	1	3	0	2	4
3110017	Induction Program	1	0	0	0	0
3110018	Physics	1	3	0	2	4

Semester 3

<u>Subcode</u>	<u>Subject Name</u>	<u>Sem /Year</u>	<u>Hours</u>			<u>Credit</u>		<u>Faculty</u>
			<u>Lecture</u>	<u>Tutorial</u>	<u>Practical</u>	<u>Total</u>		
3130004	Effective Technical Communication	3	2	0	2	3	Prof. Dharitri Gohel Prof. D. S. Patel	
3130006	Probability and Statistics	3	3	2	0	5	Prof. J. S. Patel Prof. B. K. Tripathi Prof. Y. R. Sharma	
3130007	Indian Constitution	3	2	0	0	0	Prof. Y. B. Patel Prof. P. R. Dave	
3130008	Design Engineering - I A	3	0	0	2	1	Prof. P. V. Pancholi	
3130702	Data Structures	3	3	0	4	5	Prof. D. H. Butch Prof. H. K. Gevariya Prof. S. R. Modi	
3130703	Database Management Systems	3	4	0	2	5	Prof. H. A. Joshiyara Prof. R. A. Dayma Prof. A. V. Shah	
3130704	Digital Fundamentals	3	3	0	2	4	Prof. Z. Y. Noorani Prof. H. B. Pandya Prof. Y. B. Patel	

Semester 4

<u>Subcode</u>	<u>Subject Name</u>	<u>Sem /Year</u>	<u>Hours</u>			<u>Credit</u>		<u>Faculty</u>
			<u>Lecture</u>	<u>Tutorial</u>	<u>Practical</u>	<u>Total</u>		
3140005	Design Engineering 1 B	4	0	0	2	1		
3140702	Operating System	4	4	0	2	5		
3140705	Object Oriented Programming -I	4	4	0	2	5		
3140707	Computer Organization & Architecture	4	3	0	2	4		
3140708	Discrete Mathematics	4	3	2	0	5		
3140709	Principles of Economics and Management	4	3	0	0	3		

Semester 5

<u>Subcode</u>	<u>SubjectName</u>	<u>Sem /Year</u>	<u>Hours</u>			<u>Credit</u>	<u>Faculty</u>
			<u>Lecture</u>	<u>Tutorial</u>	<u>Practical</u>	<u>Total</u>	
3150001	Design Engineering - II A	5	0	0	2	1	Prof. M. K. Shah
3150005	Integrated Personality Development Course	5	2	0	0	2	Prof. H. D. Rajput
3150703	Analysis and Design of Algorithms	5	4	0	2	5	Prof. H. K. Gevariya Prof. S. A. Patel Prof. D. H. Butch
3150709	Professional ethics	5	3	0	0	3	Prof. P. V. Pancholi, Prof. P. D. Salot Prof. T. A. Champaneria
3150710	Computer Networks	5	4	0	2	5	Prof. R. A. Dayma Prof. N. H. Domadiya Prof. M. K. Shah
3150711	Software Engineering (Professional Elective- I)	5	3	0	2	4	Prof. K. M. Patel Prof. V. B. Vaghela
3150712	Computer Graphics (Professional Elective- I)	5	3	0	2	4	Prof. H. B. Pandya
3150713	Python for Data Science (Open Elective - I)	5	2	0	2	3	Prof. P. G. Patel
3150714	Cyber Security (Open Elective - I)	5	2	0	2	3	Prof. R. Jaiswal

Semester 6

<u>Subcode</u>	<u>SubjectName</u>	<u>Sem /Year</u>	<u>Hours</u>			<u>Credit</u>	<u>Faculty</u>
			<u>Lecture</u>	<u>Tutorial</u>	<u>Practical</u>	<u>Total</u>	
3160001	Design Engineering II B	6	0	0	2	1	
3160003	Integrated Personality Development Course	6	2	0	0	2	
3160704	Theory of Computation	6	4	1	0	5	
3160707	Advanced Java Programming (Professional Elective - III)	6	3	0	2	4	
3160712	Microprocessor and Interfacing	6	3	0	2	4	
3160713	Web Programming (Professional Elective - II)	6	3	0	2	4	
3160714	Data Mining (Professional Elective - II)	6	3	0	2	4	
3160715	System Software (Professional Elective - III)	6	3	0	2	4	
3160716	IOT and applications (Open elective - II)	6	2	0	2	3	
3160717	Data Visualization (Open elective - II)	6	2	0	2	3	

Semester 7

<u>Subcode</u>	<u>SubjectName</u>	<u>Sem /Year</u>	<u>Hours</u>			<u>Credit</u>	<u>Faculty</u>
			<u>Lecture</u>	<u>Tutorial</u>	<u>Practical</u>	<u>Total</u>	
3170001	Summer Internship	7	0	0	0	2	Prof. N. H. Domadiya
3170701	Compiler Design	7	3	0	2	4	Prof. P. D. Salot Prof. P. V. Pancholi
3170710	Mobile Computing and Wireless communication (Professional Elective - IV)	7	3	0	0	3	Prof. S. R. Modi
3170716	Artificial Intelligence	7	3	0	2	4	Prof. B. A. Oza Prof. C. S. Thaker Prof. H. D. Rajput
3170717	Cloud Computing (Professional Elective - IV)	7	3	0	0	3	Prof. T. A. Champaneria Prof. C. S. Thaker
3170718	Information Retrieval (Professional Elective - IV)	7	3	0	0	3	-
3170719	Distributed System (Professional Elective - V)	7	3	0	2	4	-
3170720	Information security (Professional Elective - V)	7	3	0	2	4	Prof. A. V. Shah Prof. K. M. Patel Prof. R. Jaiswal
3170721	Parallel and Distributed Computing (Professional Elective - V)	7	3	0	2	4	-
3170722	Big Data Analytics (Professional Elective - VI)	7	3	0	2	4	Prof. H. A. Joshiyara
3170723	Natural Language Processing (Professional Elective - VI)	7	3	0	2	4	-
3170724	Machine Learning (Professional Elective - VI)	7	3	0	2	4	Prof. S. A. Patel Prof. V. B. Vaghela Prof. B. A. Oza
3170725	Digital forensics (Open Elective - III)	7	2	0	2	3	Prof. J. K. Dave
3170726	Mobile Application Development (Open Elective - III)	7	2	0	2	3	Prof. T. A. Champaneria

Semester 8

			<u>Hours</u>			<u>Credit</u>
<u>Subcode</u>	<u>SubjectName</u>	<u>Sem /Year</u>	<u>Lecture</u>	<u>Tutorial</u>	<u>Practical</u>	<u>Total</u>
<u>3180701</u>	Internship/Project	8	0	0	24	12

Computer Science & Engineering (Artificial Intelligence and Machine Learning) (UG)

First Year

Induction Program :	9-Sep-2022 to 22-Sep-2022
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<u>Subcode</u>	<u>Subject Name</u>	<u>Sem /Year</u>	<u>Hours</u>			<u>Credit</u>
			<u>Lecture</u>	<u>Tutorial</u>	<u>Practical</u>	<u>Total</u>
3110001	Chemistry	1	3	0	2	4
3110002	English	1	2	0	2	3
3110003	Programming for Problem Solving	1	3	0	2	4
3110005	Basic Electrical Engineering	1	3	0	2	4
3110006	Basic Mechanical Engineering	1	3	0	2	4
3110007	Environmental Sciences	1	2	2	0	0
3110012	Workshop/ Manufacturing Practices	1	0	0	4	2
3110013	Engineering Graphics & Design	1	2	0	4	4
3110014	Mathematics - 1	1	3	2	0	5
3110015	Mathematics - 2	1	3	2	0	5
3110016	Basic Electronics	1	3	0	2	4
3110017	Induction Program	1	0	0	0	0
3110018	Physics	1	3	0	2	4

Computer Engineering (PG)

Semester 1

Subcode	Subject Name	Sem /Year	Hours			Credit	Faculty
			Lecture	Tutorial	Practical	Total	
3700005	Constitution of India	1	2	0	0	0	Prof. Y. B. Patel Prof. P. R. Dave
3710001	Research Methodology and IPR	1	1	0	2	2	Prof. R. Jaiswal
3710213	Distributed Systems (Program Elective II)	1	3	0	2	4	-
3710214	Mathematical foundations of Computer Science	1	3	0	2	4	Prof. M. K. Shah
3710215	Advanced Data Structures	1	3	2	2	4	Prof. B. A. Oza Prof. T. J. Raval
3710216	Machine Learning (Program Elective I)	1	3	0	2	4	Prof. V. B. Vaghela Prof. S. A. Patel
3710217	Wireless Sensor Networks (Program Elective I)	1	3	0	2	4	-
3710218	Operating System Design (Program Elective I)	1	3	0	2	4	-
3710219	Data Science (Program Elective II)	1	3	0	2	4	Prof. P. G. Patel Prof. H. D. Rajput
3710220	Parallel Programming Tools and Model (Program Elective II)	1	3	0	2	4	-

Semester 2

<u>Subcode</u>	<u>SubjectName</u>	<u>Sem /Year</u>	<u>Hours</u>			<u>Credit</u>	<u>Faculty</u>
			<u>Lecture</u>	<u>Tutorial</u>	<u>Practical</u>	<u>Total</u>	
3700001	English for Research Paper Writing	2	2	0	0	0	
3720001	Mini Project with Seminar	2	0	0	4	2	
3720216	Advance Algorithms	2	3	0	2	4	
3720217	Soft Computing	2	3	0	2	4	
3720218	Secure Software Design and Enterprise Computing (Program Elective III)	2	3	0	2	4	
3720219	Computer Vision (Program Elective III)	2	3	0	2	4	
3720220	HPC Architecture and ECO system (Program Elective III)	2	3	0	2	4	
3720221	GPU Computing (Program Elective IV)	2	3	0	2	4	
3720222	Parallel Algorithms (Program Elective IV)	2	3	0	2	4	
3720223	Advanced Machine Learning (Program Elective IV)	2	3	0	2	4	

Semester 3

<u>Subcode</u>	<u>SubjectName</u>	<u>Sem /Year</u>	<u>Hours</u>			<u>Credit</u>	<u>Faculty</u>
			<u>Lecture</u>	<u>Tutorial</u>	<u>Practical</u>	<u>Total</u>	
3730002	Internal Review 1	3	0	0	4	2	-
3730003	Dissertation Phase I	3	0	0	16	8	-
3730005	Business Analytics	3	3	0	0	3	Prof. N. H. Domadiya
3730208	Cloud Computing	3	3	0	0	3	Prof. T. A. Champaneria

Semester 4

<u>Subcode</u>	<u>SubjectName</u>	<u>Sem /Year</u>	<u>Hours</u>			<u>Credit</u>
			<u>Lecture</u>	<u>Tutorial</u>	<u>Practical</u>	<u>Total</u>
3740001	Internal Review 2	4	0	0	4	2
3740002	Dissertation Phase II	4	0	0	28	14