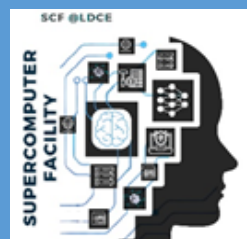


Academic
Year Book
(2022-23)



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

Contents

CONTACT DETAIL	0
Staff Details	3
Class Coordinators	6
UG Courses	6
PG Course	7
CURRICULUM	8
Computer Engineering (UG)	8
First Year	8
Semester 3	9
Semester 4	9
Semester 5	10
Semester 6	11
Semester 7	12
Semester 8	13
Computer Engineering (PG)	14
Semester 1	14
Semester 2	15
Semester 3	15
Semester 4	16

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	237A
Prof. K. M. PATEL	Assistant Professor	patelkalpeshm@gmail.com	Image Processing, Deep Learning	F-07
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	itesh.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. P. D. SALOT	Assistant Professor	pinal.salot@gmail.com	Big Data Analytics, Machine learning, Image processing	228
Prof. A. B. Gondalia	Assistant Professor	archana.gondalia@ldce.ac.in	Machine learning, Image Processing,	221-C
Prof. P. J. Prajapati	Assistant Professor	payal.prajapati@ldce.ac.in	Machine Learning, Deep Learning	237

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 Engineering	PG	2	18	2009

Class Coordinators

UG Courses

First Year (Computer Engineering)

- Prof. Z. Y. NOORANI
zishannoorani@ldce.ac.in
Office: F-03
- Prof. P. D. Salot
pinal.salot@gmail.com
Office: 228

Second Year (Computer Engineering)

- 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)

- Prof. (Dr.) D. H. BUCH
dharaBuch.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)

- 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
hetalbpannya@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
----------------------------	----------------------------------

<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>
<u>3110001</u>	Chemistry	1	3	0	2	4
<u>3110002</u>	English	1	2	0	2	3
<u>3110003</u>	Programming for Problem Solving	1	3	0	2	4
<u>3110005</u>	Basic Electrical Engineering	1	3	0	2	4
<u>3110006</u>	Basic Mechanical Engineering	1	3	0	2	4
<u>3110007</u>	Environmental Sciences	1	2	2	0	0
<u>3110012</u>	Workshop/ Manufacturing Practices	1	0	0	4	2
<u>3110013</u>	Engineering Graphics & Design	1	2	0	4	4
<u>3110014</u>	Mathematics - 1	1	3	2	0	5
<u>3110015</u>	Mathematics - 2	1	3	2	0	5
<u>3110016</u>	Basic Electronics	1	3	0	2	4
<u>3110017</u>	Induction Program	1	0	0	0	0
<u>3110018</u>	Physics	1	3	0	2	4

Semester 3

Subcode	Subject Name	Sem /Year	Hours			Credit	Faculty
			Lecture	Tutorial	Practical	Total	
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

Subcode	Subject Name	Sem /Year	Hours			Credit	Faculty
			Lecture	Tutorial	Practical	Total	
3140005	Design Engineering 1 B	4	0	0	2	1	Prof. P. V. Pancholi
3140702	Operating System	4	4	0	2	5	Prof. H. A. Joshiyara Prof. R. A. Dayma Prof. N. H. Domadiya
3140705	Object Oriented Programming - I	4	4	0	2	5	Prof. R. Jaiswal Prof. K. M. Patel Prof. A. B. Gondalia
3140707	Computer Organization & Architecture	4	3	0	2	4	Prof. Z. Y. Noorani Prof. D. H. Butch
3140708	Discrete Mathematics	4	3	2	0	5	Prof. J. A. Patel
3140709	Principles of Economics and Management	4	3	0	0	3	Prof. H. A. Joshiyara Prof. H. K. Gevariya Prof. B. A. Oza

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	Prof. M. K. Shah
3160003	Integrated Personality Development Course	6	2	0	0	2	Prof. H. D. Rajput
3160704	Theory of Computation	6	4	1	0	5	Prof. A. V. Shah Prof. S. A. Patel Prof. M. K. Shah
3160707	Advanced Java Programming (Professional Elective - III)	6	3	0	2	4	Prof. K. M. Patel Prof. S. A. Patel
3160712	Microprocessor and Interfacing	6	3	0	2	4	Prof. P. R. Dave Prof. H. B. Pandya Prof. R. A. Dayma
3160713	Web Programming (Professional Elective - II)	6	3	0	2	4	Prof. H. K. Gevariya Prof. S. R. Modi Prof. P. D. Salot
3160714	Data Mining (Professional Elective - II)	6	3	0	2	4	Prof. V. B. Vaghela
3160715	System Software (Professional Elective - III)	6	3	0	2	4	Prof. D. H. Butch
3160716	IOT and applications (Open elective - II)	6	2	0	2	3	Prof. A. V. Shah Prof. C. S. Thaker
3160717	Data Visualization (Open elective - II)	6	2	0	2	3	Prof. H. D. Rajput

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 Engineering (PG)

Semester 1

<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>	
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	Prof. T. J. Raval
3720001	Mini Project with Seminar	2	0	0	4	2	
3720216	Advance Algorithms	2	3	0	2	4	Prof. B. A. Oza
3720217	Soft Computing	2	3	0	2	4	Prof. C. S. Thaker
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	Prof. H. D. Rajput
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	Prof. P. G. Patel Prof. M. K. Shah

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