

ADDITIONAL DOCUMENT

Criteria 2.3.1

AJAY KUMAR GARG ENGINEERING COLLEGE

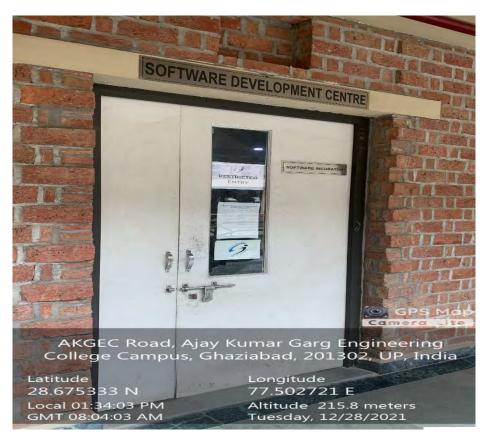


(Affiliated to Dr. APJ Abdul Kalam Technical University, Lucknow, UP, College Code - 027)

2.3.1 Student centric methods, such as experiential learning, participative learning and problem-solving methodologies are used for enhancing learning experiences

- Various Laboratories for enhancing learning experiences
- Pictures of technical events

Software Development/ Excellence Cell



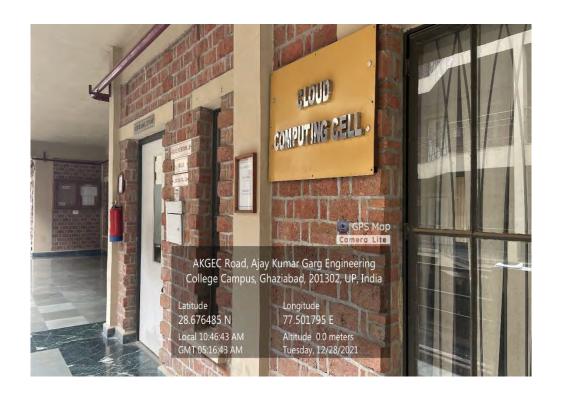


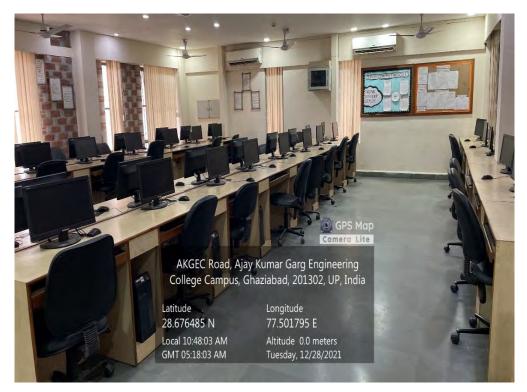
CSIT BLOCK, THIRD FLOOR, SOFTWARE DEVELOPMENT CENTER





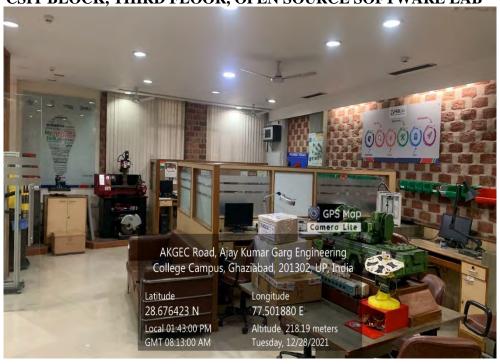
CSIT BLOCK, THIRD FLOOR, BIG DATA CENTER OF EXCELLENCE LAB







CSIT BLOCK, THIRD FLOOR, OPEN SOURCE SOFTWARE LAB



MECHANICAL BLOCK, GROUND FLOOR, CENTER OF EXCELLENCE (FAB LAB)



LINKS FOR EXTRA CURRICULAR SOCIETIES

https://www.akgec.ac.in/life-akgec/societies/extra-curricular-societies/euphony/

https://www.akgec.ac.in/life-akgec/societies/extra-curricular-societies/footprints/

https://www.akgec.ac.in/life-akgec/societies/extra-curricular-societies/horizon/

https://www.akgec.ac.in/life-akgec/societies/extra-curricular-societies/goonj/

https://www.akgec.ac.in/life-akgec/societies/extra-curricular-societies/renaissance-2/

https://www.akgec.ac.in/life-akgec/societies/extra-curricular-societies/taal/

https://www.akgec.ac.in/life-akgec/societies/extra-curricular-societies/verve/

AJAY KUMAR GARG ENGINEERING COLLEGE, GHAZIABAD DEPARTMENT OF CIVIL ENGINEERING

s.no	YR	Semester	LAB CODE	LAB NAME	Faculty Name	NUMBER OF PRACTICAL AS PER CURRICULUM	NUMBER OF PRACTICAL BEYOND CURRICULU	TITAL OF EXPERIMENT (S) BEYOND SYLLABUS
			WOE CEA	T T.1	No. Developed Assessed AD	13	2	Marshal mix design
1	3rd	VI	KCE-651	Transportation Engineering Lab	Mr. Prashant Agarwal, AP	15		Specific gravity of course aggregate
2	2	VI	VCE CE3	Environmental Environment I ob	Mr. Animesh Rai, AP	8	2	Determination of BOD.
2	3rd	VI	KCE-652	Environmental Engineering Lab	Mr. Animesii Kai , Ar	•		Determination of fluoride.
3	3rd	VI	KCE-653	Structural detailing lab	Mr. Priyank Srivastava, AP	8	2	instead of study of full set of structural drawing should be told to make good for constructon stage drawing of residential bulding, commercial bulding educational bulding. Detailing of structuaral elements as per new earthquake Resistant design code and detailing codes for seismic zones.
4 Director	2nd	IV	KCE-452	Solid Mechanics Lab	Mr. Atri Tyagi, AP	10	2	To find deflections in Beam having unsymmetrical bending. To find horizontal thrust in a three-hinged arch and to draw influence line diagrams for horizontal Thrust end Bending moment.
63	1							impact test for coarse aggregate
	2nd	IV	KCE-451	Material Testing Lab	Mr. Prashant Agarwal, AP	17	2	crushing strength test for coarse aggregate
6	3rd	v	KCE-552	Geotechnical Engineering Lab	Mr. Priyank Srivastava, AP	8	2	Retrieving soil samples and conducting SPT tests by advancing boreholes through handheld auger. Determination of shear strength of soil by Direct shear test.
7	2nd	Ш	KCE-352	Surveying & Geomatics Lab	Ms. Anubha Gupta, AP	11	2	To prepare conventional symbol chart based on the study of different types of topographical maps To perform fly leveling with Auto/tilting level.
8	2nd	Ш	KCE-353	FM LAB	Ms. Nikita Jaiswal, AP	14	2	determination of boundary layer thickness find velocity profile over a plate
9	2nd	III	KCE-553	QEM Lab.	Ms. Kshama Shukla, AP	5	V	uantities for footing

AJAY KUMAR G. G ENGINEERING COLLEGE ZIABAD CSE DEPARTMENT

LIST OF EXPERIMENTS OFFERED TO STUDENTS BEYOND SYLLABUS

. No.	Year	Semester	Lab Name	Lab Code	Faculty Name	List of Experiments offered beyond syllabus (Minimum two experiments)			
1						1. Write a program in C to implement Tower of Hanoi.			
2	, 1		DATA STRUCTURE USING C	KCS - 351	Dr. Sachin Kumar	2. Write a program in C to implement Insertion and Deletion in Linked list.			
3			PAIN OTHER SOME O	100-001	Dr. Gacilli Numai	B. To implement sorting using arrays.			
4						4. To implement Graph Traversal.			
5			Computer Organization Lab	KCS - 352	Mr. Akhilesh verma	Design of N-bit Carry Look ahead Adder			
6		lli .	Somparer Organization Lab	NCS - 352	IVII. AKIIIESII VEITIIA	2. Design N-bit Counter			
7	2nd Year				Ms. Hamit saini	Baseball best-of-5 series: Experimental probabilities			
8				KCS - 353		2. Baseball: Binomial Probability			
9			Discrete Structure & Logic Lab			3. Expected Value Problems			
10						4. Basketball: One and One			
11						5. Binary Relations: Influence			
12			Python Programming Lab	KCS - 452	Ms. Hamit saini	To Write a Python program for Designing a calcutor.			
13			Tythori Programming Lab	100 - 402	VIS. Marrin Sairii	Design and understand the working of pycharm IDE plateform.			
14 15			DATABASE MANAGEMENT SYSTEM LAB	KCS - 551	Mr. sandeep Yadav	PL/SQL programming Write a PL/SQL block code to print the squares of numbers upto 99. Write a PL/SQL block code to insert data into table CUSTOMER			
16		l v	COMPILER DESIGN LAB	KCS - 552	Mr. Pradeep Gupta	Write program for string manipulation.			
17				100 - 302	Wii. Fradeep Gupta	2. Write program to impliment SLR parser.			
18	3rd Year		DESIGN AND ANALYSIS OF ALGORITHM	/OC 553	Dr. Reiseh Breehed	1. Write a program to implement N Queen Problem using Backtracking			
19			LAB	NCS - 553	Dr. Rajesh Prashad	2. Write a program to perform Travelling Salesman Problem			
20			Software Engineering Lan	KCS - 651	Dr. Sonam Gupta	Draw the Object Diagram of the problem.			
21						Prepare test cases for testing the system using White box/Black Box Approach.			
22		VI	Web Technology Lab	KCS - 652	Dr. Shahank Sahu	Write program in java to allot rooms in the hostel using inheritance. Incorporate method overloading and method overriding concept in the program.			
24	4th Year	VII	Artificial Intelligence Lab	KCS - 751	Dr. Pratima Singh	Statiscal Analysis using Numpy in Python Programming Language.			
25	יווו ו פמו	VII	Stroid Intelligence Lab			2. Implimentation of linear regression using Python Programming Language.			

Dr. Sunita Yadav Prof. CSE

AJAY KUMAR ORG ENGINEERING COLLEGE VAZIABAD CSE DEPARTMENT

LIST OF EXPERIMENTS OFFERED TO STUDENTS BEYOND SYLLABUS

. No.	Year	Semester	Lab Name	Lab Code	Faculty Name	List of Experiments offered beyond syllabus (Minimum two experiments)		
1						Write a program in C to implement Tower of Hanoi.		
2			DATA STRUCTURE USING C	KCS - 351	Dr. Sachin Kumar	2. Write a program in C to implement Insertion and Deletion in Linked list.		
3			DATA CITICOTORE COMO C	100-331	Dr. Sacriii Kumai	3. To implement sorting using arrays.		
4						4. To implement Graph Traversal.		
5			Computer Organization Lab	KCS - 352	Mr. Akhilesh verma	1. Design of N-bit Carry Look ahead Adder		
6		111	Computer Organization Lab	100-002	IVII. AKIIIIESII VEITIIA	2. Design N-bit Counter		
7	2nd Year				Ms. Hamit saini	Baseball best-of-5 series: Experimental probabilities		
8				KCS - 353		2. Baseball: Binomial Probability		
9			Discrete Structure & Logic Lab			3. Expected Value Problems		
10						4. Basketball: One and One		
11						5. Binary Relations: Influence		
12			Python Programming Lab	KCS - 452	Ms. Hamit saini	1. To Write a Python program for Designing a calcutor.		
13			y y tion r rogramming Lab	NC3 - 432	IVIS. FIAITIIL SAIIII	Design and understand the working of pycharm IDE plateform.		
14 15			DATABASE MANAGEMENT SYSTEM LAB	KCS - 551	Mr. sandeep Yadav	PL/SQL programming Write a PL/SQL block code to print the squares of numbers upto 99. Write a PL/SQL block code to insert data into table CUSTOMER		
16		V	COMPILER DESIGN LAB	KCS - 552	Mr. Pradeep Gupta	Write program for string manipulation.		
17			COMM REEN BEGION BAB	1.00 002	тин. т тассор Сарка	2. Write program to impliment SLR parser.		
18	3rd Year		DESIGN AND ANALYSIS OF ALGORITHM	VCC EE3	Dr. Rajesh Prashad	Write a program to implement N Queen Problem using Backtracking		
19			LAB	100-333	Di. Rajesti Flastiau	2. Write a program to perform Travelling Salesman Problem		
20			Software Engineering Lan	KCS - 651	Dr. Sonam Gupta	Draw the Object Diagram of the problem.		
21			Contware Engineering Earl		J. Conam Copta	Prepare test cases for testing the system using White box/Black Box Approach.		
22 23		VI	Web Technology Lab	KCS - 652	Dr. Shahank Sahu	Write program in java to allot rooms in the hostel using inheritance. Incorporate method overloading and method overriding concept in the program.		
24	4th Year	VII	Artificial Intelligence Lab	KCS - 751	Dr. Pratima Singh	Statiscal Analysis using Numpy in Python Programming Language.		
25	401 Tear	VII	Arundar intelligence Lab			Implimentation of linear regression using Python Programming Language.		

Dr. Sunita Yadav Prof. CSE

AJAY KUMAR GARG ENGINEERING COLLEGE GHAZIABAD ECE DEPARTMENT

LIST OF EXPERIMENTS OFFERED TO STUDENTS BEYOND SYLLABUS

No.	Year	Semester	Lab Name	Lab Code	Faculty Name	List of Experiments offered beyond syllabus (Minimum two experiments)
1	1st Year	1/11	Electronics Engineering Lab	KEC151P / KEC251P	Dr. Seema Garg	Study of series and parallel clipper circuit. Study Opamp as an inverting and non-inverting amplifier.
3 4			Electronics Devices Lab	KEC351	Mr. Alok Kumar	Application of transistor as a switch. To study the characteristics of regulated DC power supply.
6		III	Digital System Design Lab	KEC352 Dr. Jitender Chhabra		Design and Implement Half Adder and Full Adder using Logic gates. Design and Implement Half Subtractor and Full Subtractor using Logic gates. Implement a given boolean expression using Decoder/Multiplexer. Design a decade counter.
7 8			Communication Engineering KEC451 Ms. Anu Go		Ms. Anu Goel	Simulation of different Line Coding Schemes using MATLAB. To generate Pre-Emphasis & De-Emphasis waves using MATLAB.
9		IV	Analog Circuits Lab	KEC452	Dr. Aruna Tyagi	To study Opamp as an Inverting and non-inverting amplifier To determine gain and bandwidth of CE amplifier from its frequency response
10 11 12			Signal System Lab	KEC453	Mr. Dushyant Singh Chauhan	Verification of sampling theorem using MATLAB Implementation of decimation and interpolation processes using MATLAB
13 14			Integrated Circuits Lab	KEC-551	Mr. Om Krishna Gupta	To study and design adder/subtractor circuit using op-amp. To study and design integrator and differentiator using op-amp.
15 16		V	Microprocessor & Microcontroller Lab	KEC-552	Ms. Sakshl Mittal	To study 8085 processor and various commands for its operation. To Interface 8255 programmable peripheral interface and verify its operation.
- 1	3rd Yea	r	Digital Signal Processing Lab	KEC-553	Dr. Amit Garg	With the help of Fourier series make a square wave from sine wave and cosine wave. Generate an Amplitude Modulation having side lobe frequencies 1200 Hz and 800 Hz.
17 18 19	-		Digital Communication Lab	KEC651	Dr. Abhishek Joshi	Observe and verify the theoretical FFT characteristics with the observed ones. 1. To generate the constellation diagram and plot symbol error probability for the 4-PAM
20		VI	Control System Lab	KEC-652	Mr. Neeraj Sharma	2. To study the PCM and plot Message signal, sampled signal, quantized signal, and digital sign 1. Determine the block diagram reduction of a transfer function using simulink 2. Plot the polar plot of a given transfer function.
22			CAD for Electronics Lab	KEC-653 B	Mr. Anup Kumar	AC analysis of CMOS inverter with variable capacitive load. Design the Layout of CMOS inverter.
24 25	4th Year	r VII	Microwave & Radar Engineering Lab	KEC751D	Ms. Richa Sharma	VSWR measurement with open and short circuit Study of MIC components

Dr. P. K. Chopra Prof. ECE

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MAR GARG ENGINEERING COLLEGE GHAZIABAD IT DEPARTMENT

LIST EXPERIMENTS OFFERED TO STUDENTS BEYOND SYLLABUS

20	Inplementation and Verify logic gates AND, OR, NOT, OR. Inplementation and Verify Universal gates NAND and NOR oply Kruskal and Prim's algorithm in a graph life a program to solve recourence relation life a program to apply Pigeonhole principle parse Matrix: Perform operations such as add, multiply or transpose of the matrices in their sparse form Indicates in their sparse form Indicates Implementation of Create, Insert, Rotate, Traverse operations. Write a program to implement Optimal Page replacemt algorithms In Write a program to Semaphore synchronization problems In Write a program to implement Second Chance algorithms In Write a program to oreate radio button (male, female and transgender) and a label. Default selection should be on female the label must display the current selection made by user In Write a program to create a window that disappear automatically after 5 second
Discrete Structures & Theory of NCS 353 Ms. Nandita Goyal Data Structures using a lab KCS 351 Mr. Puneel Kumar Goyal Operating System Lab KCS 451 Mr. Pancham Python Lab KNC 453 Mr. Lucknesh Web Designing lab KIT 451 Mr. Sanlosh Micro Processor Lab KCS452 Ms. Sulekha Database management lab kcs 551 Mr. Lucknesh Design And Analysis of algorithm lab Web Technology lab KIT 551 Mr. Anmol Jain Computer Network Lab KCS 653 Ms. Tahira Mazumda	poly Kruskal and Prim's algorithm in a graph Irite a program to solve reccurence relation Irite a program to apply Pigeonhole principle parse Matrix: Perform operations such as add, multiply or transpose of the matrices in their sparse form VL. Tree: Implementation of Create, Insert,Rotate,Traverse operations. Write a program to implement Optimal Page replacemt algorithms Write a program to Semaphore synchronization problems Write a program to implement Second Chance algorithms Write a program to create radio button (male, female and transgender) and a label. Default selection should be on female the label must display the current selection made by user
Data Structures using a lab KCS 351 Mr. Puneet Kumar Goyal 2nu Year Python Lab KCS 451 Mr. Pancham Python Lab KNC 453 Mr. Lucknesh Web Designing lab KIT 451 Mr. Santosh Micro Processor Lab KCS452 Ms. Sulekha Database management lab kcs 551 Mr. Lucknesh Design And Analysis of algorithm lab kcs 553 Mr. Birendra Web Technology lab KIT 551 Mr. Anmol Jain Computer Network Lab KCS 653 Ms. Tahira Mazumda Data Analytics Lab KIT 651 ansha ShukiaGauray in	Irite a program to solve recourence relation Irite a program to apply Pigeonhole principle parse Matrix: Perform operations such as add, multiply or transpose of the matrices in their sparse form IVI. Tree: Implementation of Create, Insert,Rotate,Traverse operations. Write a program to implement Optimal Page replacemt algorithms I. Write a program to Semaphore synchronization problems I. Write a program to implement Second Chance algorithms I. Write a program to create radio button (male, female and transgender) and a label. Default selection should be on female the label must display the current selection made by user I. Write a program to create a window that disappear automatically after 5
Data Structures using a lab KCS 351 Mr. Puneet Kumar Goyal 2nu Year Python Lab KNC 453 Mr. Pancham Python Lab KNC 453 Mr. Lucknesh Web Designing lab KIT 451 Mr. Santosh Micro Processor Lab KCS452 Ms. Sulekha Database management lab kcs 551 Mr. Lucknesh Design And Analysis of algorithm lab Web Technology lab KIT 551 Mr. Anmol Jain Computer Network Lab KCS 653 Ms. Tahira Mazumda Data Analytics Lab KIT 651 ansha ShukiaGauraya	Inite a program to apply Pigeonhole principle parse Matrix: Perform operations such as add, multiply or transpose of the matrices in their sparse form IVI. Tree: Implementation of Create, Insert,Rotate,Traverse operations. Write a program to implement Optimal Page replacemt algorithms I. Write a program to Semaphore synchronization problems I. Write a program to implement Second Chance algorithms I. Write a program to create radio button (male, female and transgender) and a label. Default selection should be on female the label must display the current selection made by user I. Write a program to create a window that disappear automatically after 5
Python Lab KCS 451 Mr. Pancham Python Lab KNC 453 Mr. Lucknesh Web Designing lab KIT 451 Mr. Santosh Micro Processor Lab KCS452 Ms. Sulekha Database management lab kcs 551 Mr. Lucknesh Design And Analysis of algorithm lab kcs 553 Mr. Birendra Web Technology lab KIT 551 Mr. Anmol Jain Computer Network Lab KCS 653 Ms. Tahira Mazumda Data Analytics Lab KIT 651 ansha ShuklaGaurav (20)	parse Matrix: Perform operations such as add, multiply or transpose of the matrices in their sparse form VL Tree: Implementation of Create, Insert,Rotate,Traverse operations. Write a program to implement Optimal Page replacemt algorithms Write a program to Semaphore synchronization problems Write a program to implement Second Chance algorithms Write a program to oreate radio button (male, female and transgender) and a label. Default selection should be on female the label must display the current selection made by user Write a program to create a window that disappear automatically after 5
Operating System Lab KCS 451 Mr. Pancham Python Lab KNC 453 Mr. Lucknesh Web Designing lab KIT 451 Mr. Santosh Micro Processor Lab KCS452 Ms. Sulekha Database management lab kcs 551 Mr. Lucknesh Design And Analysis of algorithm lab Web Technology lab KIT 551 Mr. Anmol Jain Computer Network Lab KCS 653 Ms. Tahira Mazumda Data Analytics Lab KIT 651 ansha ShuklaGaurav (20)	the matrices in their sparse form VL Tree: Implementation of Create, Insert,Rotate,Traverse operations. Write a program to implement Optimal Page replacemt algorithms. Write a program to Semaphore synchronization problems. Write a program to implement Second Chance algorithms. Write a program to oreate radio button (male, female and transgender) and a label. Default selection should be on female the label must display the current selection made by user. Write a program to create a window that disappear automatically after 5.
Python Lab KNC 453 Mr. Lucknesh Web Designing lab KIT 451 Mr. Santosh Micro Processor Lab KCS452 Ms. Sulekha Database management lab kcs 551 Mr. Lucknesh Design And Analysis of algorithm lab Kcs 553 Mr. Birendra Web Technology lab KIT 551 Mr. Anmol Jain Computer Network Lab KCS 653 Ms. Tahira Mazumda	Write a program to implement Optimal Page replacemt algorithms Write a program to Semaphore synchronization problems Write a program to implement Second Chance algorithms Write a program to create radio button (male, female and transgender) and a label. Default selection should be on female the label must display the current selection made by user Write a program to create a window that disappear automatically after 5.
Python Lab KNC 453 Mr. Lucknesh Web Designing lab KIT 451 Mr. Santosh Micro Processor Lab KCS452 Ms. Sulekha Database management lab kcs 551 Mr. Lucknesh Design And Analysis of algorithm lab Kr. S63 Mr. Birendra Web Technology lab KIT 551 Mr. Anmol Jain Computer Network Lab KCS 653 Ms. Tahira Mazumda Data Analytics Lab KIT 651 ansha ShuklaGaurav 6	Write a program to Semaphore synchronization problems Write a program to implement Second Chance algorithms Write a program to create radio button (male, female and transgender) and a label. Default selection should be on female the label must display the current selection made by user Write a program to create a window that disappear automatically after 5
Python Lab KNC 453 Mr. Lucknesh Web Designing lab KIT 451 Mr. Santosh Micro Processor Lab KCS452 Ms. Sulekha Database management lab kcs 551 Mr. Lucknesh Design And Analysis of algorithm lab KiT 551 Mr. Anmol Jain Web Technology lab KIT 551 Mr. Anmol Jain Computer Network Lab KCS 653 Ms. Tahira Mazumda	Write a program to implement Second Chance algorithms Write a program to create radio button (male, female and transgender) and a label. Default selection should be on female the label must display he current selection made by user Write a program to create a window that disappear automatically after 5
Python Lab KNC 453 Mr. Lucknesh Web Designing lab KIT 451 Mr. Santosh Micro Processor Lab KCS452 Ms. Sulekha Database management lab kcs 551 Mr. Lucknesh Design And Analysis of algorithm lab KiT 551 Mr. Anmol Jain Web Technology lab KIT 551 Mr. Anmol Jain Computer Network Lab KCS 653 Ms. Tahira Mazumda	Write a program to create radio button (male, female and transgender) and a label. Default selection should be on female the label must display he current selection made by user Write a program to create a window that disappear automatically after 5
Python Lab KNC 453 Mr. Lucknesh Web Designing lab KIT 451 Mr. Sanlosh Micro Processor Lab KCS452 Ms. Sulekha Database management lab kcs 551 Mr. Lucknesh Design And Analysis of algorithm lab Krs 563 Mr. Birendra Web Technology lab KIT 551 Mr. Anmol Jain Computer Network Lab KCS 653 Ms. Tahira Mazumdi	Write a program to create radio button (male, female and transgender) and a label. Default selection should be on female the label must display he current selection made by user Write a program to create a window that disappear automatically after 5
Web Designing lab KIT 451 Mr. Santosh Micro Processor Lab KCS452 Ms. Sulekha Database management lab kcs 551 Mr. Lucknesh Design And Analysis of algorithm lab kcs 553 Mr. Birendra Web Technology lab KIT 551 Mr. Anmol Jain Computer Network Lab KCS 653 Ms. Tahira Mazumda Data Analytics Lab KIT 651 ansha Shukla Gaura visited in the second s	and a label. Default selection should be on female the label must display the current selection made by user 2. Write a program to create a window that disappear automatically after 5
Micro Processor Lab KCS452 Ms. Sulekha Database management lab kcs 551 Mr. Lucknesh Design And Analysis of algorithm lab KCS 553 Mr. Birendra Web Technology lab KIT 551 Mr. Anmol Jain Computer Network Lab KCS 653 Ms. Tahira Mazumda Data Analytics Lab KIT 651 ansha Shukla Geurav 6	
Micro Processor Lab KCS452 Ms. Sulekha Database management lab kcs 551 Mr. Lucknesh Design And Analysis of algorithm lab Kcs 553 Mr. Birendra Web Technology lab KIT 551 Mr. Anmol Jain Computer Network Lab KCS 653 Ms. Tahira Mazumda Data Analytics Lab KIT 651 ansha ShuklaGeurav 6	
Micro Processor Lab KCS452 Ms. Sulekha Database management lab kcs 551 Mr. Lucknesh Design And Analysis of algorithm lab KCS 553 Mr. Birendra Web Technology lab KIT 551 Mr. Anmol Jain Computer Network Lab KCS 653 Ms. Tahira Mazumda Data Analytics Lab KIT 651 ansha Shukla Geurav 6	3. Write a program to create an arithmetic calculator using tkinter
Micro Processor Lab KCS452 Ms. Sulekha Database management lab kcs 551 Mr. Lucknesh Design And Analysis of algorithm lab KCS 553 Mr. Birendra Web Technology lab KIT 551 Mr. Anmol Jain Computer Network Lab KCS 653 Ms. Tahira Mazumda Data Analytics Lab KIT 651 ansha Shukla Geurav 6	To design a registration form of IRCTC railway ticket booking.
Database management lab kcs 551 Mr. Lucknesh Design And Analysis of algorithm lab kcs 553 Mr. Birendra Web Technology lab KIT 551 Mr. Anmol Jain Computer Network Lab KCS 653 Me. Tahira Mazumdi Data Analytics Lab KIT 651 ansha ShuklaGaurav 6	To design a calculator using java script.
Database management lab kcs 551 Mr. Lucknesh Design And Analysis of algorithm lab kcs 553 Mr. Birendra Web Technology lab KIT 551 Mr. Anmol Jain Computer Network Lab KCS 653 Me. Tahira Mazumda Data Analytics Lab KIT 651 ansha ShuklaGaurav 6	To perform Addition and Subtraction using 8086.
Database management lab kcs 551 Mr. Lucknesh Design And Analysis of algorithm lab kcs 553 Mr. Birendra Web Technology lab KIT 551 Mr. Anmol Jain Computer Network Lab KCS 653 Me. Tahira Mazumda Data Analytics Lab KIT 651 ansha ShuklaGaurav 6	To sort an array using 8086.
Database management lab kcs 551 Mr. Lucknesh Design And Analysis of algorithm lab kcs 553 Mr. Birendra Web Technology lab KIT 551 Mr. Anmol Jain Computer Network Lab KCS 653 Ms. Tahira Mazumdi Data Analytics Lab KIT 651 ansha ShuklaGaurav 6	To perform Multiplication using 8086.
Design And Analysis of algorithm lab kcs 553 Mr. Birendra Web Technology lab KIT 551 Mr. Anmol Jain Computer Network Lab KCS 653 Ms. Tahira Mazumda Data Analytics Lab KIT 651 ansha Shukla Geurav 6	To calculate square root of 8 bit number using 8085.
Design And Analysis of algorithm lab kcs 553 Mr. Birendra Web Technology lab KIT 551 Mr. Anmol Jain Computer Network Lab KCS 653 Ms. Tahira Mazumda Data Analytics Lab KIT 651 ansha Shukla Geurav 6	Creating Entity-Relationship Diagram using case tools.
Design And Analysis of algorithm lab kcs 553 Mr. Birendra Web Technology lab KIT 551 Mr. Anmol Jain Computer Network Lab KCS 653 Ms. Tahira Mazumda Data Analytics Lab KIT 651 ansha Shukla Geurav 6	Write a PL/SQL block code to print the squares of numbers
Design And Analysis of algorithm lab	unto 99 Write a PUSQL block code to insert data into table
algorithm lab Web Technology lab KIT 551 Mr. Anmol Jain Computer Network Lab KCS 653 Ms. Tahira Mazumdi Data Analytics Lab KIT 651 ansha ShuklaGaurav 6	CUSTOMER
Web Technology lab KIT 551 Mr. Anmol Jain Computer Network Lab KCS 653 Ms. Tahira Mazumdi Data Analytics Lab KIT 651 ansha ShuklaGaurav 6	Program for Linear Search, Binary Search
Computer Network Lab KCS 653 Ms. Tahira Mazumdi Data Analytics Lab KIT 651 ansha ShuklaGaurav 6	Program for BFS and DFS on a graph represented using Adjacency list Write an XML program providing the book details and display the document in Internal Explorer.
Data Analytics Lab KIT 651 ansha ShuklaGaurav	Write an XML program for creation of DTD, which specifies set of rules.
Data Analytics Lab KIT 651 ansha ShuklaGaurav	Wireless configuration using packet tracer along with serve configuration for DHCP, HTTP, DNS, FTP
20	Router configuration to communicate between different
20	Implementation of Cryptographic algorithms (RSA, DES)
20	PYTORCH_Neural_Network_MNIST_HandWrittenDigits_with_validation- GauravChaudhary
D. Oktoral Assessed	a KERAS_CNN_MNIST_HandWrittenDigits_with_validation-Gaurav Chaudhary
D. Oktoral Assessed	To perform dimensionality reduction operation using PCA for Houses Data Set.
Software Engineering Lab KCS 651 Dr. Shivani Aggrw	Write a program of Halstead Analysis of Software \$ Write a program for function point analysis of cost of Direct Cost of Cost
	Ajay Kumar Garg
24 Cryptography and network secur KIT 751 Ms. Shilpi Gupta	Write a program to implement Message L
	development of AI based Projects
	development of Blockchain based Projests
Project Lab KIT 753 Dr. Ruchi Gupt	***************************************
	development of IoT Based Pprojests

AJAY KUMAR GARG ENGINEERING COLLEGE GHAZIABAD EN DEPARTMENT

LIST OF EXPERIMENTS OFFERED TO STUDENTS BEYOND SYLLABUS

S. No.	Year	Semester	Lab Name	Lab Code	Faculty Name	List of Experiments offered beyond syllabus (Minimum two experiments)
1	1st Year	1/11	Basic Electrical Engineering Lab	KEE151P/	Ms. Navjyoti Sharma	Determine the time current characteristics of given MCB (6 Amp).
2	ist i cai	1711	Basic Electrical Engineering Lab	KEE251P	IVIS. Navjyoti Silailila	2. Calibration of Single Phase Energy meter.
3			Electrical Measurement &	KEE-352	Ms. Nidhi Singh	Signal conditioning of analog signal using Lab VIEW/ MATLAB.
4		III	Measurement Lab	KEE-332	IVIS. INIUIII SIIIgii	2. Measurement of power using CT and PT.
5		111	Electrical Workshop Lab	KEE-353	Dr. J. G. Yadav	1. Measurement of form factor of a rectified sine wave.
6			Electrical Workshop Lau	KEE-333	Dr. J. G. Yadav	2. To study of different kinds of power Insulators.
7						1. To perform the transient response of RL circuit.
8	2nd Year		Network Ananlysis and Synthesis Lab	KEC-353	c	2. Verification of parameters properties in interconnection of 2, two port networks in cascade interconnection
9		IV				Determination of frequency response of a Twin - T-notch filter.
10		Circuit Simulation Lab KEE-451 Mr. Arun Ki	Mr. Arun Kumar Maurya	2. To determine attenuation characteristics of a low pass / high pass active filters.		
11			Electrical Machines - I Lab	KEE-452	Mr. Ritesh Sharma	To study the construction and working of four-point DC machine starter.
12			Dr. Se		Dr. Sarika Kalra	2. To study the torque-speed characteristic of Brushless DC motor.
13			Power System - 11 ah	KEE-551	Mr. Arun Kumar Maurya	Calculation of ground clearance of transmission line.
14		Power System - 1 Lab KEE	KLL-331	Wil. Arun Kumai Waurya	2. Calculate the parameters for underground cable	
15		V	Control System Lab	KEE-552	Ms. Nupur Mittal	To Study PC Based Flow Control using variable speed pump.
16			Control System Eac	REE 332	1415, 14upui 141ttui	2. To Study PC Based level Control using variable speed pump.
16			Electrical Machines - II Lab	KEE-553	Mr. Ritesh Sharma	1. To Study the speed Control of BLDC motor using PWM method.
17			District Machines in Bab		Dr. Sarika Kalra	2. To study IGBT controlled AC motor VVVF Drive.
18						1. Determine the time current characteristics of the given MCB (6 Amp).
19	3rd Year		Power System - II Lab	KEE-651	Dr. Dibya Bharti	2. Perform load flow analysis on a 3- Bus System using G-S (Gauss Seidel) method using MATLAB
20						1. To generate a square wave of a given frequency using 8253/54 IC.
21	VI		Microprocessor & Microcontroller Lab	KEE-652	Mr. Neeraj Gupta	2. To perform microprocessor based stepper motor operation through 8085 / 8086 kit.
		0				3. To obtain interfacing of DMA controller with 8085 / 8086 microprocessor.

22			Power Electronics Lab	KEE-653	Dr. Vani Bhargava	Four quadrant operation of DC motor using single phase dual converter trainer. Speed control of three phase induction motor using three phase AC voltage controller.
24	4th Year	VII	Industrial Automation & PLC Lab	KEN-751	Mr. Arun Kumar Maurya	Logic implementation for traffic control Application.
25	Tan Tell	*11	industrial Flatomation at 7 EC Edo	KEIV-751	Wil. Alun Kumai Waurya	2. Logic implementation for Bottle filling Application.

Dr. Hemant Ahuja HoD (EN)

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CE- List of Experiments beyond syllabus

NO	YR	Sem	LAB CODE	LAB NAME	Faculty Name	PRACTICAL	NUMBER OF PRACTICAL BEYOND CURRICULUM	TITAL OF EXPERIMENT (S) BEYOND SYLLABUS Marshal mix design
								Marshal mix design
1	3rd	VI	KCE-651	Transportation Engineering Lab	Mr. Prashant Agarwal, AP	13	2	Specific gravity of course aggregate
								Determination of BOD.
		-						
2	3rd	VI	KCE-652	Environmental Engineering Lab	Mr. Animesh Rai , AP	8	2	Determination of fluoride.
	1							instead of study of full set of structural
				Structural detailing lab	Mr. Priyank	8	2	drawing should be told to make good for constructon stage drawing of residential bulding, commercial bulding educational bulding.
3	3rd	VI	KCE-653	Su detinal detailing lab	Srivastava, AP			Detailing of structuaral elements as per new earthquake Resistant design code and detailing codes for seismic zones.
	1					3		To find deflections in Beam having unsymmetrical bending.
4	2nd	lV	KCE-452	Solid Mechanics Lab	Mr. Atri Tyagi, AP	10	2	To find horizontal thrust in a three-hinged arch and to draw influence line diagrams for horizontal Thrust end Bending moment.
	+							impact test for coarse aggregate
5	2nd	IV			Mr. Prashant			crushing strength test for coarse aggregate
		0	KCE-451	Material Testing Lab	Agarwal, AP	17		Nie

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		3rd	V	KCE-552	Geotechnical Engineering Lab	Mr. Priyank Srivastava , AP	8	2	te h I	Letrieving soil samples and conducting SPT ests by advancing boreholes through hand-leld auger. Determination of shear strength of soil by Direct shear test.
7		2nd	uı	KCE-352	Surveying & Geomatics Lab	Ms. Anubha Gupta, AP	11	2	!	To prepare conventional symbol chart based on the study of different types of topographical maps To perform fly leveling with Auto/tilting level.
	8	2nd	l m	KCE-353	FM LAB	Ms. Nikita Jaiswal,	14		2	determination of boundary layer thickness
\	9	2nd	"	KCE-55	QEM Lab.	Ms. Kshama Shukla, AP	5		2	Estimation of Quantities for footing Estimation of Quantities for Stairecase

Dr. Rakesh Srivastava HOD, CE

X43

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Department of ECE 1 Year (2022-23) Summary Report of the course

1. Advanced Analog and Digital Circuits Implementation

Course Objectives: This program was based on advanced topics in analog and digital electronic circuits implementation. These circuits were implemented and simulated on the tool provided by National Instruments (Multisim). Based on the this course, students will be able to make their own circuits.

Course Outcomes:

Total 87 students have enrolled training program.

2. Embedded System

Course Objectives: This program was based on embedded systems which is a combination of software and hardware. The overall educational objective of this internship program was to allow students to discover how the computer interacts with its environment. After completing this course student will be able to understand 8085, 8086 Microprocessors, 8051 Microcontroller, small projects based on Arduino Uno development board and IoT.

Course Outcomes:

Total 85 students have enrolled training program.

Department of ECE II Year (2022-23) Summary Report of the course

1. Signal Processing using MATLAB Tool

Course Objective: This program was based on advanced topics in Signal Processing using MATLAB Tool. MATLAB Tool is useful in signal processing field. After completing this course student will be able to signal processing tool box for images, signal generation and transformations etc. and simulink also.

Course Outcomes:

Total 76 students have enrolled training program.

2. Semiconductor device modeling using TCAD Simulation Tool

Course Objective: This program was focused on the usage of TCAD the purpose of Semiconductor Device Operation and Modelling. To giving theoretical knowledge of physics of modern devices, a basis training on TCAD software followed by execution of short project.

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Course Outcomes:

Total 113 students have enrolled training program.

Dr. Neelesh Kumar Gupta

Prof. & HoD, ECE

Ajay Kumar Garg Engineering College, Ghaziabad Department of Electronics & Communication Engineering

Date: \August 2022

Summer Internship Training Programs

All students of I & II Year are hereby informed that as per AKTU syllabus, that after first and second year B. Tech students have to mandatorily undergo Internship programs. As per AKTU scheme, this internship has following weightages:

(a) After First Year: 50 Marks, Credit-1(b) After Second Year: 50 Marks, Credit-1

ECE Department is planning to offer summer internship programs for ECE students (02 Hrs/week).

The program details are as follows:

S. No	FM In-charge	Sem/Course Title	Summer Internship Program	Faculty Coordinators/ Co-coordinators		
1	Dr. Seema Garg	II/ Mini Project or Internship Assessment	Advanced Analog and Digital Circuits Implementation	Dr. Jitender Chhabra Mr. Dushyant S. Chauhan Mr. Om Krishna Gupta		
2	Dr. Seema Garg II/ Mini Project Embedded System or Internship Assessment			Ms. Amita Asthana Ms. Sulekha Saxena Ms. Tukur Gupta		
3			Signal Processing using MATLAB Tool	Dr. Amit Garg Ms. Renu Sharma Mr. Naveen Saini		
4	Dr. Neelesh Kumar Gupta	IV/Mini Project or Internship Assessment	Semiconductor device modeling using TCAD Simulation Tool	Dr. Koushik Midya Ms. Uma Sharma Ms. Priyanka Sharma		

Important Information:

- Training will be of free of cost.
- Registration Link: https://forms.gle/jcLase9BNZ6Qgqis7
- All students of after I & II Year are required to register in above-mentioned training program on or before 22August 2022 compulsorily. The assessment of all students will be done during the upcoming semester along with training classes.
- This Training will be conducted from commencement of next so offline Mode along with academic classes of III & V semesters.

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Dr. Neelesh Kumar Gupta

Prof. & HoD, ECE

Note: After successful completion of 160 credits, a student shall be eligible to get Under Graduate degree in Engineering. A student will be eligible to get Under Graduate degree with Honours only, if he/she completes additional university recommended courses only (Equivalent to 20 credits; NPTEL Courses of 4 Weeks, 8 Weeks and 12 Weeks shall be of 2, 3 and 4 Credits respectively) through MOOCs. For registration to MOOCs Courses, the students shall follow NPTEL Site http://nptel.ac.in/ as per the NPTEL policy and norms. The students can register for these courses through NPTEL directly as per the course offering in Odd/Even Semesters at NPTEL. These NPTEL courses (recommended by the University) may be cleared during the B. Tech degree program (not necessary one course in each semester). After successful completion of these Moocs courses the students, shall, provide their successful completion NPTEL status/certificates to the University (COE) through their college of study only. The student shall be awarded Hons. Degree (on successful completion of MOOCS based 20 credit) only if he/she secures 7.50 or above CGPA and passed each subject of that Degree Programme in single attempt without any grace marks.

The proposed MOOC courses are common to all B.Tech. Branches as follows:

NPTEL Course (MOOCS Courses Hons. Degree)

- 1. Algorithms for Big Data
- 2. C Programming and Assembly Language
- 3. Concepts of Thermodynamics
- 4. Data Analytics with Python
- 5. Data Science for Engineers
- 6. Design Analysis and Algorithm
 - 7. Design of Reinforced Concrete Structures
- 8. Developing Soft Skills and Personality
- 9. Emotional Intelligence
- 10. Enhancing Soft Skills and Personality
- 11. Fundamental of Welding Science and Technology
- 12. Fundamentals of Conduction And Radiation
- 13. Google Cloud Computing Foundation Course
- 14. Introduction To Block chain Technology And Applications
- 15. Introduction To Industry 4.0 And Industrial Internet Of Things
- 16. Introduction To Internet Of Things
- 17. Introduction To Robotics
- 18. Introduction To Embedded System Design
- 19. Manufacturing Process Technology I & II
- 20. Matlab Programming For Numerical Computation
- 21. Mechanics of Materials
- 22. Patent Law for Engineers and Scientist
- 23. Speaking Effectively
- 24. Structural Analysis I

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2

AICTE Model Curriculum Session 2018-19 onwards Honours Degree MOOC'S (NPTEL) Courses

The proposed MOOC courses are common to all B.Tech. Branches as follows for 2020-21

Updated NPTEL Course (MOOCS Courses Hons. Degree) 2020-21

- 1. Algorithms for Big Data
- 2. C Programming and Assembly Language
- 3. Concepts of Thermodynamics
- 4. Data Analytics with Python
- 5. Data Science for Engineers
- 6. Design Analysis and Algorithm
- 7. Design of Reinforced Concrete Structures
- 8. Developing Soft Skills and Personality
- 9. Emotional Intelligence
- 10. Enhancing Soft Skills and Personality
- 11. Fundamental of Welding Science and Technology
- 12. Fundamentals of Conduction And Radiation
- 13. Google Cloud Computing Foundation Course
- 14. Introduction To Block chain Technology And Applications
- 15. Introduction To Industry 4.0 And Industrial Internet Of Things
- 16. Introduction To Internet Of Things
- 17.Introduction To Robotics
- 18.Introduction To Embedded System Design
- 19. Manufacturing Process Technology I & II
- 20. Matlab Programming For Numerical Computation
- 21. Mechanics of Materials
- 22. Patent Law for Engineers and Scientist
- 23. Speaking Effectively
- 24.Structural Analysis

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SAMPLE: MOOC COURSE (ECE)

Criteria 2.3.1

2022-23



						Name of MOOCs course
						registered and completed in 2022-
S.No.	Name	Roll Number	Year	Section	till date	23 (Even)
						Developing Soft Skills and
1	Akanksh Chaudhary	2100270310020	2ND	EC1	64%	Personality
						C Programming and Assembly
2	Abhinav singh	2100270310007	2ND	EC1	71.20%	Language
3	Saurav Pandey	2100270310129	2ND	EC3	72.722 %	Speaking Effectively
4	Shivansh Raj Srivastava	1900270310169	4TH	EC3	74.51	Speaking Effectively
						Patent Law for Engineers and
5	Satwik Dutta	1900270310154	4TH	EC3	81.3	Scientist
6	Shivanshu Singhal	1900270310170	4TH	EC3	75.98	Emotional Intelligence
						Data Analytics with Python,
						Patent Law for Engineers and
7	Shamit Mittal	1900270310158	4TH	EC3	82.3	Scientist
						Emotional Intelligence, Speaking
8	Aniruddh Vaish	2000270310022	3RD	EC1	83	Effectively
						Emotional Intelligence, Speaking
9	Kamakshi Vashista	2000270310081	3RD	EC2	71.58%	Effectively
10	Yashaswi Sharma	2000270310192	3RD	EC3	77.85%	Emotional Intelligence
11	Taarush Agarwal	2100270310151	2ND	EC3	7.35	Speaking Effectively
						Emotional Intelligence,
						Introduction To Industry 4.0 And
						Industrial Internet Of Things,
						Patent Law for Engineers and
12	Prakhar Maurya	2100270310101	2ND	EC2	67.67%	Scientist
	-					Introduction To Embedded
13	Monoo	2000270310099	3RD	EC2	60	System Design



					1	T
						Developing Soft Skills and
						Personality, Enhancing Soft Skills
						and Personality, Introduction To
						Industry 4.0 And Industrial
14	Vandit Mishra	2100270310162	2ND	EC3	82.05	Internet Of Things
						Enhancing Soft Skills and
15	Samarth Goel	2100270310117	2ND	EC3	64.4	Personality
						Enhancing Soft Skills and
						Personality, Introduction To
						Internet Of Things, Speaking
16	Nitesh chaubey	1900270310110	4TH	EC2	68	Effectively
						Developing Soft Skills and
17	Yash Rajput	2000270310189	3RD	EC3	69.69	Personality, None
						Introduction To Industry 4.0 And
18	Mohasin Masood	1900270310095	4TH	EC2	81.48	Industrial Internet Of Things
						Developing Soft Skills and
19	Pratham Yadav	2100270310104	2ND	EC2	62%	Personality
20	Pranav	1900270310121	4TH	EC2	76.52	Emotional Intelligence
21	Aman Kumar Yadav	2100270310030	2ND	EC1	72.28%	Introduction To Internet Of Things
						Enhancing Soft Skills and
22	Taru Pathak	2100270310153	2ND	EC3	71.25	Personality
						Enhancing Soft Skills and
23	Priya Kumari Srivastava	2000270310119	3RD	EC2	75	Personality
						Enhancing Soft Skills and
24	Adarsh Kumar Rai	2000270310007	3RD	EC1	76.3	Personality
						Introduction To Industry 4.0 And
25	Pragya Agarwal	1900270310116	4TH	EC2	78.60%	Industrial Internet Of Things



						_
						Data Science for Engineers,
						Developing Soft Skills and
						Personality, Enhancing Soft Skills
						and Personality, Introduction To
						Robotics, Introduction To
26	Sarthak Gupta	2100270310124	2ND	EC3	60	Embedded System Design
						Enhancing Soft Skills and
27	Akshita Verma	2100270310029	2ND	EC1	7.8	Personality
28	Nandani Pandey	21002770310089	2ND	EC2	89.3	Design Analysis and Algorithm
						Developing Soft Skills and
29	Tarun Bansal	1900270320020	4TH	EC3	73.35	Personality
						Design Analysis and Algorithm,
						Developing Soft Skills and
30	Aditi Shukla	1900270310009	4TH	EC1	81.26	Personality, Speaking Effectively
						Patent Law for Engineers and
31	Saumya Mishra	1900270320014	4TH	El	80.42	Scientist
32	Jaidev Sharma	1900270310073	4TH	EC2	83.14	Speaking Effectively
						Design Analysis and Algorithm,
						Developing Soft Skills and
						Personality, Enhancing Soft Skills
						and Personality, Introduction To
						Industry 4.0 And Industrial
						Internet Of Things, Speaking
33	Aditi Rastogi	1900270310011	4TH	EC1	87.01	Effectively
			_			C Programming and Assembly
34	Yuvraj Singh Bhadauria	2000270310196	3RD	EC3	71.3	Language



						Data Analytics with Python,
						Developing Soft Skills and
						Personality, Enhancing Soft Skills
						and Personality, Introduction To
						Industry 4.0 And Industrial
						Internet Of Things, Introduction
						To Internet Of Things, Patent Law
35	Aman	1900270310023	4TH	EC1	74.9	for Engineers and Scientist
						Enhancing Soft Skills and
36	Aditya Gupta	2100270310012	2ND	EC1	65.5	Personality
	, .					Developing Soft Skills and
						Personality, Enhancing Soft Skills
37	Girijesh Kumar	1900270310063	4TH	EC1	66.14	and Personality
						Developing Soft Skills and
						Personality, Enhancing Soft Skills
38	Arindom Mukherjee	1900270310036	4TH	EC1	67%	and Personality
						Data Analytics with Python,
						Developing Soft Skills and
						Personality, Introduction To
						Industry 4.0 And Industrial
						Internet Of Things, Speaking
39	David Saini	1900270310052	4TH	EC1	78.3	Effectively
						Introduction To Industry 4.0 And
40	Harshit Soni	1900270310065	4TH	EC1	69	Industrial Internet Of Things
						Emotional Intelligence, Speaking
41	Shreya Agrahari	2000270310154	3RD	EC3	75.2	Effectively
						Developing Soft Skills and
						Personality, Enhancing Soft Skills
42	Manya rastogi	1900270310092	4TH	EC2	76.8	and Personality



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						Enhancing Soft Skills and
						Personality, Introduction To
						Industry 4.0 And Industrial
						Internet Of Things, Introduction
43	Nilesh Pal	1900270310107	4TH	EC2	81.4	To Internet Of Things
						Developing Soft Skills and
						Personality, Enhancing Soft Skills
44	Shiwani Gupta	1900270320016	4TH	El	76	and Personality
						Emotional Intelligence, Enhancing
						Soft Skills and Personality,
						Introduction To Industry 4.0 And
						Industrial Internet Of Things,
						Patent Law for Engineers and
45	Yatindra Kumar Dwivedi	2000270310194	3RD	EC3	74%	Scientist
						Enhancing Soft Skills and
46	Swati Saxena	2000270310169	3RD	EC3	75%	Personality
						Developing Soft Skills and
47	Shrey sharma	2000270310153	3RD	EC3	65	Personality
						Enhancing Soft Skills and
48	Shagun Kumar	2000270310144	3RD	EC3	7.2	Personality
						Enhancing Soft Skills and
49	Priti Kumari	2100270310106	2ND	EC2	73%	Personality
						Data Analytics with Python,
						Enhancing Soft Skills and
50	Roopak Baranwal	1900270310141	4TH	EC3	63.4	Personality
						Developing Soft Skills and
51	Rashi Jaiswal	2100270310110	2ND	EC2	62	Personality
						Developing Soft Skills and
						Personality, Enhancing Soft Skills
						and Personality, Introduction To
52	Shivendra Pratap Singh	1900270310172	4TH	EC3	77.44	- 11: