CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY(A), HYDERABAD-500075

1.3.2 Number of value-added courses for imparting transferable and life skills offered during last five years

1.3.3 Average Percentage of students enrolled in the courses under 1.3.2

AY:2019-2020-Index

S.no	Name of the value added courses (with 30 or more contact hours)offered	Page No.
1	Vidyuth Prasikshana (VIPRA)	3
2	BOT Aspirant" Robotic Process Automation	124
3	Hacktoberfest Hackathon	131
4	T-Tribe Launch Pad	148
5	Orientation Program on Cyber Security	80
6	Indian Constitutional Values	187
7	Indian Traditional Knowledge	233
8	Environmental Impact and Monitoring	239
9	Biomedical Nanotechnology	260
10	Dairy and Food process and products technology	
11	Introduction to Mechanobiology	
12	Organic farming for sustainable Agricultural production	
13	Thermal processing of foods	
14	Programming with python	285
15	Artificial Intelligence	286
16	Big data	288
17	Ethical Hacking and cyber security	289
18	Design and Analysis of Algorithms	291
19	Machine learning	293
20	Web development	294
21	Programming for Everybody (Getting Started with Python)	295
22	Technical Support Fundamentals	296
23	AWS Fundamentals: Addressing Security Risks	298
24	AWS: Building Serverless Applications	300
25	AWS Fundamentals: Migrating to the cloud	302
26	AWS: Going Cloud Native	303
27	Block Chain	1
28	SQL Fundamentals course	305
29	Java tutorial course	
30	Ptthon 3 tutorial course	306
31	Cloud computing basics	307
32	Core java	308
33	Google Analytics for beginners	309

34	AI for everyone	310
35	Introduction to HTML5	
36	Interactivity with javascript	311
37	Python Data Structures	312
38	Capstone: Retrieving, Processing, and Visualizing Data with Python	314
39	C for everyone:Programming Fundamentals	315
40	Build Your First Android App	318
41	Using python access the web data	320
42	Using databases with python	321
43	Carrer Edge-knockdown the lockdown	322
44	Artificial Intelligence, Machine learning & Internet of Things	323
45	Introduction to Data Science in Python	
46	Machine learning for all	324
47	Operating systems and you	326
48	Fundamentals of Visualization with Tableau	327
49	Introduction to Search Engine Optimization	328
50	Crash course on python	330
51	Use wordpress to create a blog for business	331
52	Python basics	
53	Introduction to CSS3	
54	Python 3 programming	323
55	Introduction to Software Product Management	333
56	Excel skills for business:essentials	333
57	Finance for Non Financial Professionals	334
58	Introduction to Cybersecurity Tools & Cyber Attacks	335
59	COSC	336
60	Full Stack Development	336
61	Java and python	337
62	TensorFlow In Practice	337
63	Advanced Styling with Responsive Design	339
64	Robotic Process Automation (RPA)-(Work shop)	341



CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY (A)

Kokapet(Village), Gandipet, Hyderabad, Telangana-500075. www.cbit.ac.in









ISO 9001:2015



DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

is Offering a Two Week Online Training/Internship Course

VIDYUT PRASIKSHANA (VIPRA)

on

SIMULATION TOOLS FOR ELECTRICAL & ELECTRONICS ENGINEERING

08th June - 20th June, 2020

For II Semester Electrical & Electronics Engineering Students

- No Registration Fee
- Use the following Link for Registration
 https://docs.google.com/forms/d/e/1FAlpQLSduqLEE1X6MSx_HDlejTtmxlccCSgb6viMVjYP0Czt25tBLHA/viewform?
 usp=sf_link

spy

Objectives of the Course

- > To introduce various simulation softwares used in Electrical & Electronics Engineering.
- . To provide a platform to know about modeling of Electrical & Electronic circuits.
- > To improve the preparation and presentation skills of doing their mini-project/project.
- To make the student to visualize the concepts of Electrical & Electronics Engineering using simulation.

Expected Course Outcomes

After successful completion of the Program, the Student should be able to

- Model Electrical & Electronic circuits using different softwares.
- Generate the graphs for the analysis of data.
- Identify the bug in the program and also knows the procedure to debug the same.
- Infer various logical operations.
- ➤ Identify and use suitable software appropriately for validation the concepts.

312

Department of EEE :: CBIT(A)

Two week inhouse-ONLINE training/Internship Program

Vldyut PRAsikshana

VIPRA

Day:1 08.06.2020

Minute-to-Minute Schedule

[Repertoire]

Time	Part of Program
10.00 AM	Dr NVPB welcomes the participants and Dignitaries
Over to HoD-EEE	
10.05AW	Salient features of VIPRA
Over to Principal CBIT	
10.10AM	Address by Prof.P.Ravinder Reddy
Over to Director -I&I	-
10.15AM	Greetings by Prof.U.K.Choudhury
Over to Director -Academics	ademics
10.20AM	Address by Prof.K.Krishna veni
Over to Controller of Examinations	f Examinations
10.25 AM	Address by Prof.P V Prasad
Over to Co-Convener	1.5
10.30 AM	Vote of thanks : Dr T.Murali Krishna



Training/Internship Course Schedule

Day	Date	Timings	& Activity
		Fore Noon	After Noon
1	08/6/2020	10:00 AM to 11:30 AM - Lecture 11:30 AM to 12:00 PM - Question & Answers	02:00 PM to 03:30 AM - Lecture 03:30 PM to 04:00 PM - Question & Answers
12	09/6/2020	10:00 AM to 11:30 AM - Lecture 11:30 AM to 12:00 PM - Question & Answers	02:00 PM to 03:30 AM - Lecture 03:30 PM to 04:00 PM - Question & Answers
3	10/6/2020	10:00 AM to 11:30 AM - Lecture 11:30 AM to 12:00 PM - Question & Answers	02:00 PM to 03:30 AM - Lecture 03:30 PM to 04:00 PM - Question & Answers
4	11/6/2020	10:00 AM to 11:30 AM - Lecture 11:30 AM to 12:00 PM - Question & Answers	02:00 PM to 03:30 AM - Lecture 03:30 PM to 04:00 PM - Question & Answers
5	12/6/2020	10:00 AM to 11:30 AM - Lecture 11:30 AM to 12:00 PM - Question & Answers	02:00 PM to 03:30 AM - Lecture 03:30 PM to 04:00 PM - Question & Answers
6	13/6/2020	10:00 AM to 11:30 AM - Lecture 11:30 AM to 12:00 PM - Question & Answers	02:00 PM to 03:30 AM - Lecture 03:30 PM to 04:00 PM - Question & Answers
7	15/6/2020	10:00 AM to 11:30 AM - Lecture 11:30 AM to 12:00 PM - Question & Answers	02:00 PM to 03:30 AM - Lecture 03:30 PM to 04:00 PM - Question & Answers
8	16/6/2020	10:00 AM to 11:30 AM - Lecture 11:30 AM to 12:00 PM - Question & Answers	02:00 PM to 03:30 AM - Lecture 03:30 PM to 04:00 PM - Question & Answers
9	17/6/2020	10:00 AM to 11:30 AM - Lecture 11:30 AM to 12:00 PM - Question & Answers	02:00 PM to 03:30 AM - Lecture 03:30 PM to 04:00 PM - Question & Answers
10	18/6/2020	10:00 AM to 11:30 AM - Lecture 11:30 AM to 12:00 PM - Question & Answers	02:00 PM to 03:30 AM - Lecture 03:30 PM to 04:00 PM - Question & Answers
11	19/6/2020	10:00 AM to 11:30 AM - Lecture 11:30 AM to 12:00 PM - Question & Answers	02:00 PM to 03:30 AM - Lecture 03:30 PM to 04:00 PM - Question & Answers
12	20/6/2020	10:00 AM to 11:30 AM - Lecture 11:30 AM to 12:00 PM - Question & Answers	02:00 PM to 03:30 AM - Lecture 03:30 PM to 04:00 PM - Question & Answers

sol

Topics to be Covered

- ✓ Basic MATLAB Programming
- ✓ Plots
- ✓ Matrices
- ✓ Logical operators
- ✓ Circuit Analysis
- \checkmark Simple Power system
- ✓ Control Systems

- ✓ PSpice
- ✓ Inverters Design
- ✓ PWM Analysis
- ✓ Converter design using MATLAB
- ✓ Evaluation of Performance parameters
- ✓ Multi Level Inverter Topologies



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Department of EEE :: CBIT(A)

Two week in-house-ONLINE training/Internship Program

Vldyut PRAsikshana

VIPRA

Valedictory: 20.06.2020

Minute-to-Minute Schedule

[Repertoire]

Time	Part of Program
03.00 PM	Inviting Dignitaries on to the online
Over to HoD	
03.05PM	Brief Report of VIPRA by Sri. C. Harish
Over to HoD)
03.10PM	Feedback from the Participants
Over to HoD	- articipants
03.15PM	Response to the Feedback by HoD Prof. G. Suresh Babu
Over to HoD	The second by Hob Flot. G. Suresh Babu
03.20PM	Address by Prof. U.K. Choudhury, Director I & I
Over to HoD	The circ endularly, Director 1 & 1
03.25 PM	Presidential Remarks by Prof. P. Ravinder Reddy Principal, CBIT(A)
Over to HoD	CBIT(A)
03.30 PM	Vote of thanks by Sri. D. Harsha
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UNIT-2

STEE

Structures

- collection of dissimilar data into a single variable. □Structures are cell arrays in that they allow you to group
- elements are addressed by names called fields. ☐However, instead of addressing elements by number, structure
- use dot notation to access data in fields. Whereas cell arrays use curly braces to access data, structures
- They can be used to store information of different kinds together □Structures are arrays whose names have dot-separated parts.
- in a hierarchical structure.



Structures

- Structures are like cell arrays in the sense they also allow grouping of different data types in a single variable called structure variable.
- Creation of a structure
- There are two common ways to create a structure. The first way is using the keyword struct, which takes a pair of field names and corresponding field values.
- Another way is to assign values to the fields of a structure variables.

Structures

>> staff.name ='John Smith'

>> staff.age = 43 name: 'John Smith'

staff =

name: 'John Smith'

>> staff.favourites = [1 42 37] age: 43

staff =

name: 'John Smith'

age: 43

favourites: [1 42 37]

Structures

>> whos

Name Size

Bytes Class Attributes

staff

1x1

580 struct

>> staff

staff =

name: 'John Smith'

age: 43

favourites: [1 42 37]

Structures

>> staff(2).name = 'Jane Smythe';

staff(2).age = 30;

staff(2).favourites = [pi eps realmax realmin NaN Inf];

>> staff(2)

ans =

name: 'Jane Smythe'

age: 30

favourites: [3.1416 2.2204e-16 1.7977e+308 2.2251e-308 NaN

Inf]





Structures

- Using struct Keyword
- A structure variable is created using struct function as follows
- 'Field3',data3....., 'FieldN',dataN); struct ('Field1',data1, 'Field2',data2,
- friend the following information, Name, age and address. For example, suppose we want to store the information of a
- Friends = >> Friends = struct('Name', 'Dilip', 'Age', 35, 'Address', 'Roorkee')

Name: 'Dilip'

Age: 35

Address: 'Roorkee'

The values of a structure can be retrieved using field names in association with the structure variable name

Structures

- Using struct Keyword
- in association with the structure variable name The values of a structure can be retrieved using field names

Friend.Name will give the name of the Friend, 'Karambi' here. Friend.Age will give 35, the value of the field Age. Friend.Address will give 'Salton', the value of the field Address.

Suppose, Karambi has another name called Ibema and we want to store it in the Name field, we can do so as

'Address', >>Friend=struct Friend = 1X2 'Saiton'); Address struct array with fields: Names ('Names', ['Karambi', 'Ibema'), 'Age',

two dimensions. Examples are dimensional matrices for cases where the data represent more than Multidimensional matrices are natural extensions of the normal two

- built up from a series of two-dimensional images; Medical tomography, where three-dimensional volumetric data are
- Temperature measurements taken at a three-dimensional grid in a
- room and at a sequence of times, leading to a four-dimensional data Temperature measurements taken at a three-dimensional grid in a
- \times N \times 3 matrix; and Red, green and blue components of a two-dimensional image, an M
- frequency, direction of arrival, and time (sonar). Acoustic measurements of sound spectra as a function of

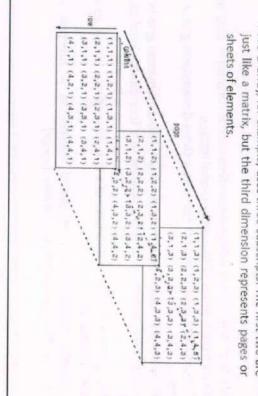
Multidimensional Arrays

- A multidimensional array in MATLAB[®] is an array with more than two dimensions.
- In a matrix, the two dimensions are represented by rows and columns.



- Each element is defined by two subscripts, the row index and the column index.
- Multidimensional arrays are an extension of 2-D matrices and use additional subscripts for indexing.

A 3-D array, for example, uses three subscripts. The first two are just like a matrix, but the third dimension represents pages or



Multidimensional Arrays

	14	00	1	d(:,:,4		7	4	-	d(:,.,	le cc	1	1 4	۰ ۲	7	B > B
	16	10	4	1	- (x	5	1)	(7'.'.)p	0	o U	1 1	٥	1
1	18	12	σ	d(:,:,2)=		9	6	u)	7.P=	y	οσ	1 4	د	>> a = [1 2 3 ;4 5 6;7 8 9]
															5;/89]
	a	0	0		a(:,:,3		1	~	N 1	a(:,				a(:,	· *
	(0	-	0	,3)=	-	4 16	8 10	4	(:,:,2) =	8	5	2	:,1)=	a(:,:,3
	1	1	0	0				12	6		9	6	ω		(:,:,3) = eye(3)

same number of rows and columns, etc. must have the same number of columns, all "pages" must have the have the same number of elements in parallel dimensions: all rows Multidimensional arrays must be full N-rectangles; that is, they must

as you would expect: If you assign a single value to a matrix, matlab expands the definition

Multidimensional Arrays

>> a(;;;3) = 3
a(;;,1) = 333
123
456
333
789
a(;;,2) = 333
333

246

14 16 18

8 10 12

Data can be removed from multidimensional arrays by using the empty matrix: >> a(:,;,1) = [] a(:,;,1) = 1 2 3 4 5 6 7 8 9 a(:,;,2) = [] 3 3 3 3 3 3 3 3 3

Multidimensional Arrays

same way as they are from two-dimensional arrays: Elements can be columnarly extracted from multidimensional arrays in the

>> a(:)'

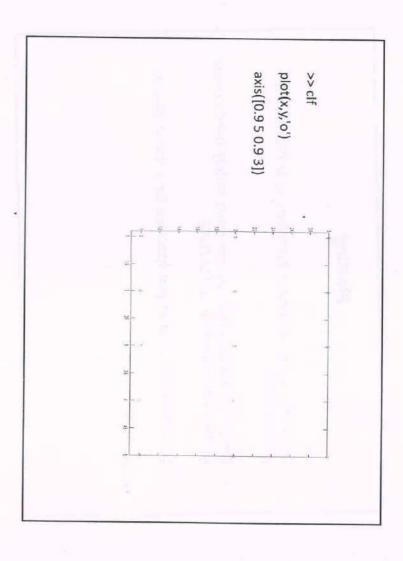
ans =

Columns 1 through 12

147258369333

Columns 13through 18

333333



Plotting

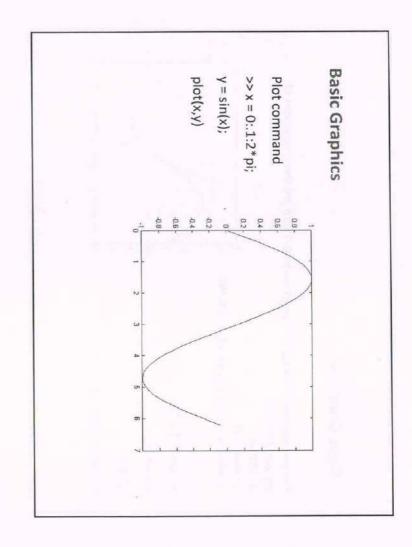
- Why should we learn graphics and visualization in Matlab? Why not use Excel?
- Visualization is one of the most important and powerful features of MATLAB.
- It facilitates ease of plotting the data at any time.
- MATLAB for creating different types of plots. A number of built-in functions for both to dimensional (2-D) and 3-D plots are available two-
- plotting commands to suit a wide range of applications. MATLAB has a rich collection of graphics and



Plotting

- One of the most important functions in MATLAB is the plot function.
- The plot command is basic, yet most widely used among all the plot commands in MATLAB.
- The simplest format of plot function for a linear plot is:
- Plot(x,y)

z = x2 .* exp(-x1.^2 - x2.^2 - x3.^2); >> slice(x2,x1,x3,z,[-1.2 .8],[], -.2) view(-24,28) >> [x1,x2,x3] = ndgrid(-2:.2:2, -2:.25:2, -2:.16:2);



xlabel	title	text	stairs	shg	semilogy.	semilogx	polar	plot	pause	meshdom	mesh	loglog	hold	histogram	gtext	grid	ginput	contour	bar	axis	FUNCTION
labels x-axis	used to put title on graph	positions text at a specified location on graph	performs stair-step graph	shows graph screen	does semilog x-y plot (y-axis logarithmic)	does sentilog x-y plot (x-axis logarithmic)	performs polar plot	performs linear x-y plot	wait between plots	domain for 3-D mesh plot	performs 3-D mesh plot	does log versus log plot	holds plot (for overlaying other plots)	gives histogram bar graph	does mouse positioned text	adds grid to a plot	puts cross-hair input from mouse	performs contour plots	plots bar chart	freezes the axis limits	DESCRIPTION

Basic Graphics

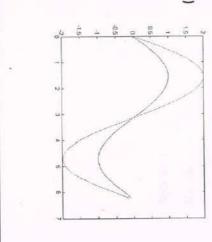
The plot command generates a linear x-y plot. There are three variations of the plot command.

(a) plot(x)
(b) plot(x, y)
(c) plot(x1, y1, x2, y2, x3, y3, ..., xn, yn)

- >> x = 0:.1:2*pi;
- y = sin(x);

plot(x,y)

- >> plot(x,y,x,2*y)

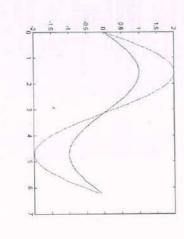


Basic Graphics

- >> x = 0:.1:2*pi;
- y = sin(x);

plot(x,y)

- >> plot(x,y,x,2*y)
- >> plot(x,y,x,2*y,'--')



Basic Graphics

>> clear all

>> t = 0:0.5:4;

y = 6*exp(-2*t);

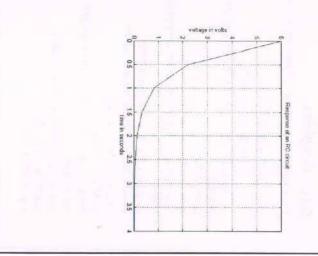
plot(t, y)

title('Response of an RC circuit')

xlabel('time in seconds')

ylabel('voltage in volts')

gric



Basic Graphics

solid - point dash - plus dotted : ' star dashdot - circle x-mark
point . plus + plus + star * sincle o

invisible	white	blue	green	red	COLOR
1	W	ь	190	T	SYMBOL

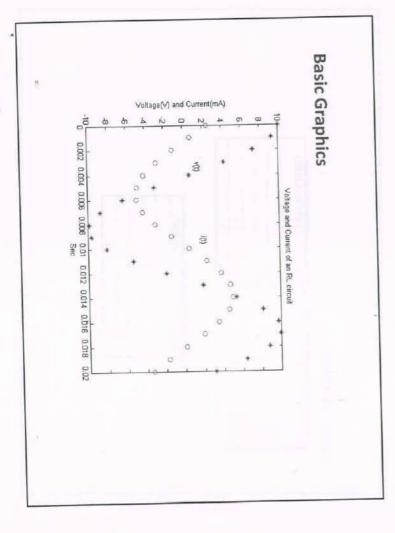
Basic Graphics

For an R-L circuit, the voltage v(t) and current f(t) are given as

```
v(t) = 10\cos(377t)
i(t) = 5\cos(377t + 60^{\circ})
Sketch v(t) and i(t) for t = 0 to 20 milliseconds.

Solution

MATLAB Script
% RL circuit
% current i(t) and voltage v(t) are generated; t is time
t = 0.1E-3.20E-3; v = 10*\cos(377*t);
a_rad = (60*pi/180); % angle in radians
i = 5*\cos(377*t + a_rad);
plot(t,v,'*',t,i,'o')
title('Voltage and Current of an RL circuit')
vlabel('Sec')
vlabel('Sec')
vlabel('Voltage(V)) and Current(mA)')
text(0.003, 1.5, 'v(t)');
text(0.009, 2, 'i(t)')
```



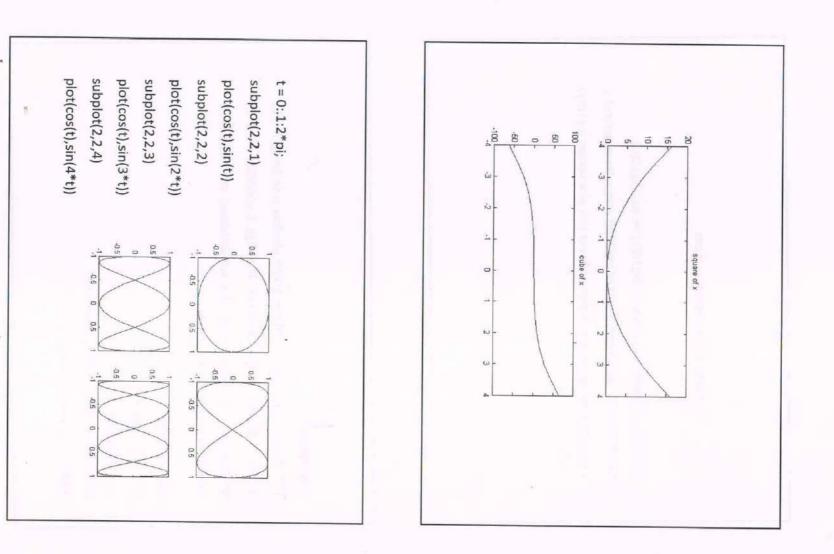
LOGARITHMIC AND POLAR PLOTS

loglog(x, y) - generates a plot of log10(x) versus log10(y) semilogx(x, y) - generates a plot of log10(x) versus linear axis of y semilogy(x, y) - generates a plot of linear axis of x versus log10(y)

subplot(ijk)

The digits i and j specify that the graph window is to be split into an i-by- j grid of smaller windows. The digit k specifies the k th window for the current plot. The sub-windows are numbered from left to right, top to bottom.

>> x = -4:0.5:4; y = x.^2; % square of x z = x.^3; % cube of x subplot(211), plot(x, y), title('square of x') subplot(212), plot(x, z), title('cube of x')



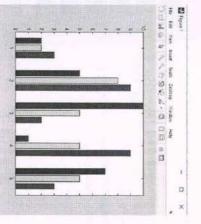
2-D plots: Bar Chart

- bar(X,Y) draws the columns of the M-by-N matrix Y as M groups of N vertical bars.
- bar(Y) uses the default value of X=1:M
- For vector inputs, bar(X,Y) or bar(Y) draws LENGTH(Y) bars. The colors are set by the colormap.
- bar(X, Y, WIDTH) or bar(Y, WIDTH) specifies the width of the bars.
- Values of WIDTH > 1, produce overlapped bars. The default value is WIDTH=0.8

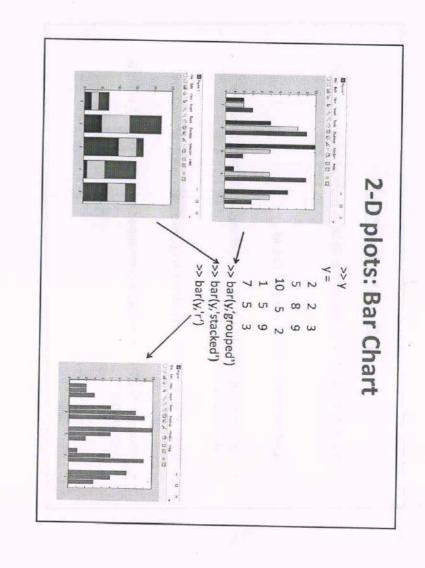
2-D plots: Bar Chart

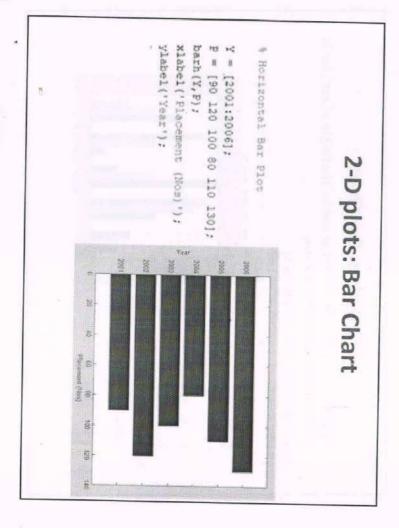
the sum of the elements in the row. Display one bar for each row of the matrix. The height of each bar is

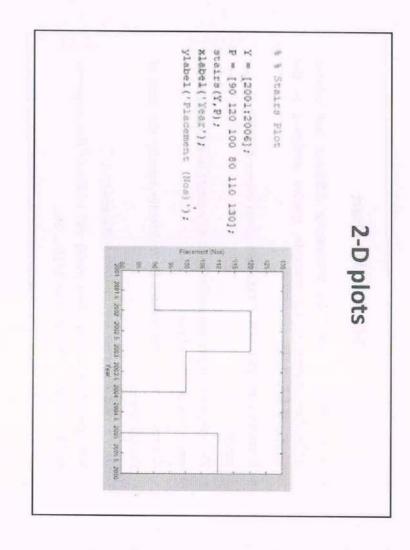
>> y=[2 2 3;5 8 9; 10 5 2;1 5 9;7 5 3]

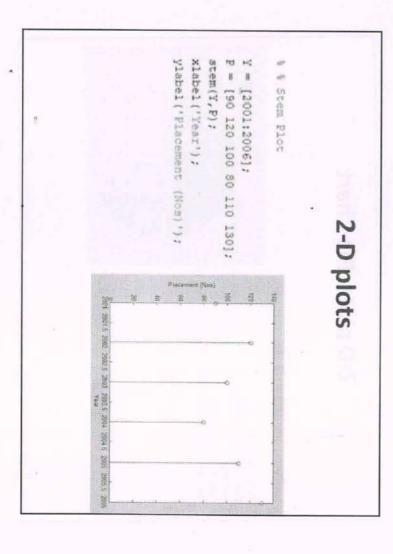












2-D plots: Pie Chart

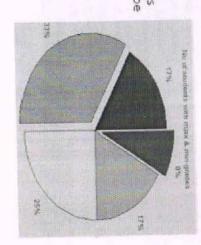
- A pie chart is used for visualizing different but related students of a class. quantities relatively, for example, grades assigned to the
- pie(A). It draws a pie plot of the data in a given vector A using syntax
- The values in A are normalized via A/sum(A) to determine the area of each slice of pie.
- the pie slices. If sum(A) <=1.0, the values in A directly specify the area of
- Only a particular pie will be drawn if sum(A)<1.
- Example: A=[1 2 3 4], then pie(A) will evaluate the elements A(1) as 1/10 or 10%, A(2) as 2/10 .. etc.

A = [10 20 15 10 5]; pie(A); 2-D plots: Pie Chart

2-D plots: Pie Chart

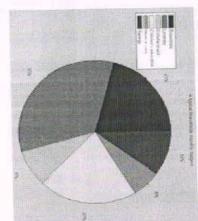
PIE Plot with explode
A = [10 20 15 10 5];
explode = [0 1 0 0 1];
pie(A, explode);
title('No of students with max 5

• The pie(A, explode) command is Used to specify slices that should be Pulled out from the pie.



2-D plots: Pie Chart

pre(x, explode is set pre(x, explode, labels) withe(' A sypton) House t to 1, Now the sline that



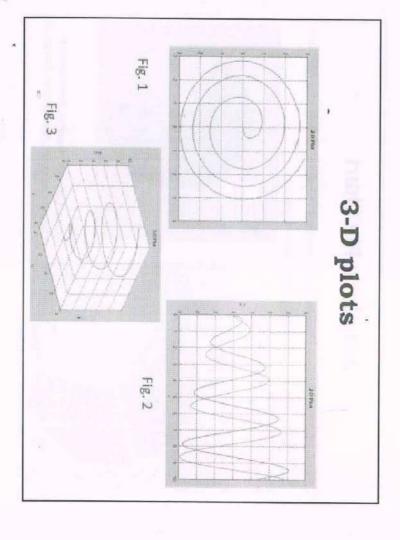
legend("Essentials", 'Luxuries', 'Entertainment', 'Children's education', 'Medical care', 'Savings', 2)



3-D plots

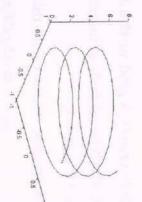
٠ Plot the decaying oscillations of a mechanical system which can $y(t) = \sqrt{t} \sin 2t$ $t = 0 \le t \le 10$ using both 2-D and 3-D plots $x(t) = \sqrt{t} \cos 2t$; be represented as a function of independent variable time

```
plot(x,y):grid:
xlabel('x'):glabel('y');
citle('\bf 3-D Flot');
                                                                 figure(1);
                                                                                          $ 2-D Plons
                                                                                                                                                                                                                    & File name Example 4 9.m
                                                                                                                                 = sqrt(t).* cos(2*t);
= sqrt(t).* sin(2*t);
                                                                                                                                                                                                                                           plot
                                                                                                                                                                          0:0.1 : 10;
                                                                                                                                                       figure(2);
plot(t,x,t,y);grid;
xlabel('t');ylabel('x,y');
title('\bf 2-D Plot');
       xiabel('x');yiabel('y');ziabel('time');
title('\bf 3-D Plot');
                                                 plot3(x, y, t);grid;
                                                                       figure(3);
                                                                                          * mechanical system using plots command
                                                                                                                 $ 3-D Plot of decaying escillations of a
```



Three-Dimensional Plots The plot3 command is the 3-c

t = 0:.1:2*pi; plot3(cos(3*t),sin(3*t),t)



rotate3d

If you click the mouse button down on the plot and drag, you can move the axes and view the plot from any angle. Release the mouse button to redraw the data. Type rotate3d again to turn off this behaviour.

3-D plots: Mesh and surface plot

- Mesh and surface plots are 3-D plots, generally used to plot the functions with two independent variables.
- For example z=f(x, y).
- Mesh and surface plots are created in three steps:
- domain of the function. Step I: create a grid in the x-y plane converting the
- Step II: Calculate the value of z at every point of the
- Step III: Create the plot

Step I: create a grid in the x-y plane

- and Ymatrices. MATLAB has a built-in function meshgrid to create X
- The general syntax to use this function is

[X, Y]=meshgrid(x, y)

[X, Y]=meshgrid (xstart: xinc: xend, ystart: yinc: yend)

3-D plots: Mesh and surface plot

Step I: create a grid in the x-y plane

>> x=-1:2; >> y=-1:3; >> [X, Y] =meshqrid(x, y) x = -1 0 1 2 -1 0 1 2 2 2 2 2 2 2 3 3 3 3

Step II: Calculate the value of Z

- The mesh grid so obtained can be further used to calculate the dependent variable Z.
- For Example, if Z is given by $Z = \frac{X^2Y}{X^2+Y^2} + X$ then the value of Z at each point of the grid can be calculated as below

19

2.923	1.3000	0	-0.7000
3.0000	1.4000	0	-0.6000
2.8000	1.5000	0	-0.5000
2.000	1.0000	New	-1.0000
1.200	0.5000	0	-1.5000

3-D plots: Mesh and surface plot

- Step III: Creating Mesh and Surface Plot
- to plot mesh and surface plots as follows: Once the three matrices are available, they can be used
- mesh (X, Y, Z)
- surf(X, Y, Z)

0 Example: Plot the function $Z = \frac{X^2Y}{X^2 + Y^2} + X$, over the domain $1 \le x \le 2$ and $-1 \le y \le 3$ using mesh and surface plot.

```
figure(2);
surf(X,Y,2);
xlabel('x'); ylabel('Y'); zlabel('z');
                                                                             mesh(X,Y,2);
xlabel('x'); ylabel('y'); zlabel('z');
                                                                                                                                                                                                    Actean; clos close All;
                                                                                                                                                                                                                                                   % Pile name Example 4 10.m
                                                                                                                figure(1);
                                                                                                                                               [X,Y] = meshgrid(x,y):

Z = \{(X,^2,*Y),/(X,^2+Y,^2)\} + X_2
                                                                                                                                                                                     F8:11-mg
```

3-D plots: Mesh and surface plot

Mesh Plot

```
The third variant produces an N-by-N matrix where N=length(V). The fourth variant evaluates the function at the given X and Y, which must be the same size. The resulting Z is also that size.
                                                                                    The second variant produces an N-by-N matrix.
                                                                                                             The first variant produces a 49-by-49 matrix.
                                                                                                                                                                    [X,Y,Z] = peaks;
[X,Y,Z] = peaks(N);
[X,Y,Z] = peaks(V);
                                                                                                                                                                                                                                                                                                                                                                                                                   2 = peaks;

2 = peaks(N);

2 = peaks(V);

2 = peaks(X,Y);
                                                                                                                                                                                                                                                                                                         peaks (N);
                                                                                                                                                                                                                                                                                peaks (X, Y);
                                                                                                                                                                                                                                                                                                                                                                  peaks;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        peaks: A sample function of two variables
```

Mesh Plot

- The mesh function creates a wireframe mesh.
- By default, the color of the mesh is proportional to the surface height.
- peaks: A sample function of two variables

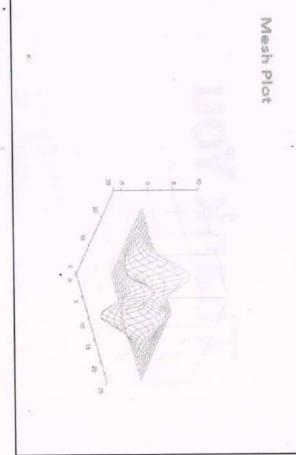
>>z = peaks(25);

% Now z=25x25 matrix data will generate

>>figure

>>mesh(z)

3-D plots: Mesh and surface plot



3-D plots: Mesh and surface plot

Surface Plot

The surf function is used to create a 3-D surface plot.

>>surf(z)

>>colormap(jet) % change color map

Thank You

Unit-2

MATRICES

Contents:

- Creating and Manipulating matricesMatrix mathematics
- Matrix functions
- Colon operator
- Line space, Cross product
- Dot product
- Logical functions
- 3 dimensional arrays Logical indexing

- Cell arrays, StructuresPlotting: 2-D and 3-D plots Basic plots, subplots, Histograms, Bar graphs, Pie charts

Introduction to Matrices in MATLAB

given here. >A basic introduction to defining and manipulating matrices is

> Defining a matrix is similar to defining a vector

vectors (note that the spaces are required) >To define a matrix, you can treat it like a column of row

Initialising Matrices Within MATLAB

The simplest

method involves simply typing the elements: >> A = [2 3 4; 5 4 3]

A=

234

☐Here the elements in the first row are separated by a space and the end of the first row is denoted by a semicolon.

successive elements.

The whole matrix is contained within square brackets. ☐The second row is then typed, again with a space between

```
The variable A is now initialised to be a two-by-three matrix; we can see this by using the command size (A).
```

>> size(A)

ans =

23

To enter a column vector we could use any of:

>> column_vector = [4

G

6];

>> column_vector = [4;5;6];

>> column_vector = [4 5 6]';

MATRIX Functions

					diag(v)								11. T. 1.	reshape(A,					6		size(A)	Function
			ter a me man month corner.	square manny with the elements	When V is a vector, creates a						annually that sold passed and the modeling 200	much be estud to me times a	rows and is columns to have in	Rearrange a matrix A that has z					m × n of the array A.	where m and n are the size	Returns a row vector [m,n].	Description
0 0 2	0 4 6	7 0 0	>1	>> A = diag(v)	>> v = [7 4 2];	1 2	80 60	18 0	W 11	>> B - resimpe(A,3,2)	8 0 2	5 1 6	>=	>> A = [5 1 6; 8 0 2]	No sk	active	>> size(A)	5 19 6 8 2	6 1 4 0 12	> "	>>A-[6 1 4 9 12; 5 19 6 8 2]	Example

MATRIX Functions

				diag(A)	
			ments of A.	When A is a matrix, creates a >	
9	 >> vec = dag(A)	7 4 5 6	1 2 3	>> A={1 2 3; 4 5 6; 7 8 1	

Sample Problem : Create a matrix

Create a 6×6 matrix in which the middle two rows, and the middle two columns are 1's, and the rest are 0's.

Built in array functions

matrix, C is a row vector containing the largest ele-
ment of each column of A.

Built in array functions

median(A)	sort(A)	sum(A)	[d,n]=min(A)	min(A)
If A is a vector, returns the median value of the elements of the vector.	If A is a vector, arranges the elements of the vector in ascending order.	If A is a vector, returns the sum of the elements of the vector.	The same as $\{d,n\} = \max(A)$, but for the smallest element.	The same as max(A), but for the smallest element,
>> A = [5 9 2 4]; >> Inedian(A) ata = 4.5000	\$ 2	>> A * [5 9 2 4]; >> sum(A)	2	>> A = [5 9 2 4]; >> max(A)

We now turn our attention to how we access elements (or parts of a matrix).

Let us start with the matrix

>> A = [11 12 13 14; 21 22 23 24; 31 32 33 34];

so that

$$\mathbf{A} = \left(\begin{array}{cccc} 11 & 12 & 13 & 14 \\ 21 & 22 & 23 & 24 \\ 31 & 32 & 33 & 34 \end{array}\right)$$

It is also possible to refer to a whole row (or column) of a matrix.

For example

>> A(2,:)

ans =

Alternatively to refer to a particular column we could use to return the fourth column of matrix A.

Note that in both cases the answers are the same "shape" as they would appear in the matrix, that is the second row has been returned as a row vector and the fourth column has been returned as a column

used as arguments in other commands. For instance With the colon operator we can create row vectors which can then be

$$\mathbf{A} = \begin{pmatrix} 11 & 12 & 13 & 14 \\ 21 & 22 & 23 & 24 \\ 31 & 32 & 33 & 34 \end{pmatrix}$$

11

This yields the same result as A(1:3,1) or A(:,1).

We could also use r=1:2 to get the first two elements of the first column.

top left hand two-by-two corner of A, we could employ the following: The possibilities are extensive; for example if we want to obtain the

$$>> B = A(r,r)$$

32 22 23

23 13

Enter the matrix in MATLAB

$$\begin{pmatrix} 1 & 2 & 3 & 4 \\ 2 & 0 & 0 & 0 \\ 3 & 0 & 0 & 0 \\ 4 & 0 & 0 & 0 \end{pmatrix}$$

In order to achieve this we use the commands



In order to achieve this we use the commands

$$\begin{pmatrix} 1 & 2 & 3 & 4 \\ 2 & 0 & 0 & 0 \\ 3 & 0 & 0 & 0 \\ 4 & 0 & 0 & 0 \end{pmatrix}$$

0 10

Another variant which can be used to set up the matrix is

>> A = [1 2 3 4; 2 zeros(1,3); 3 zeros(1,3); 4 zeros(1,3)];

of zeros. Here the command zeros(1,3) sets up a row vector (one-by-three) full

setting up a particular matrix; This example serves to emphasise there is no unique way to go about

some ways are more elegant (and sometimes less readable) than

Matrix Operations

Consider the addition (C = A + B) and subtraction (D = A - B) of the matrices

$$\mathbf{A} = \begin{pmatrix} 1 & 2 \\ 3 & 4 \end{pmatrix} \text{ and } \mathbf{B} = \begin{pmatrix} 4 & 3 \\ 2 & 1 \end{pmatrix}.$$

$$C = \begin{pmatrix} 1 & 2 \\ 3 & 4 \end{pmatrix} + \begin{pmatrix} 4 & 3 \\ 2 & 1 \end{pmatrix}, \qquad D = \begin{pmatrix} 1 & 2 \\ 3 & 4 \end{pmatrix} - \begin{pmatrix} 4 & 3 \\ 2 & 1 \end{pmatrix},$$
$$= \begin{pmatrix} 1+4 & 2+3 \\ 3+2 & 4+1 \end{pmatrix} = \begin{pmatrix} 5 & 5 \\ 5 & 5 \end{pmatrix}; \qquad = \begin{pmatrix} 1-4 & 2-3 \\ 3-2 & 4-1 \end{pmatrix} = \begin{pmatrix} -3 & -1 \\ 1 & 3 \end{pmatrix}.$$

The MATLAB code to achieve these operations is

C=

Consider the expression $3\mathbf{B}^T$

$$\mathbf{A} = \begin{pmatrix} 3 & 8 & -1 \\ 5 & 2 & 0 \end{pmatrix} \text{ and } \mathbf{B} = \begin{pmatrix} -3 & 2 \\ 2 & 2 \\ -1 & 3 \end{pmatrix}$$

The MATLAB code is:

$$A = [3 8 - 1; 5 2 0];$$

??? Error using ==> +
Matrix dimensions must agree. >>C = A+B >>A = ones(3); B = ones(2);

In this case the command is interpreted by MATLAB as

 $c_{i,j} = \lambda + b_{i,j},$

 $i=1,\cdots,m$

and $j = 1, \dots, n$;

>>A = ones(1); B = ones(2);

>>C = A+B

scalar. In this case although the variable A is a one-by-one matrix it is treated as a

```
>> A = [pi/4 pi/2; pi pi/3]
A =
0.7854 1.5708
3.1416 1.0472
>> B = sin(A)
                                                                              Here we have set up the matrix3
                                   and it returns the matrix B as
                                                                                     B = 0.7071 1.0000 0.0000 0.8660
  \sin \frac{\pi}{4}
\sin \pi
Sin 23
                                                       ㅋ 씨ㅋ
                                                     ळा मध्यम
```

B =

Dot arithmetic can be readily extended to work with matrices. With matrices A and B the matrix C = A.*B is given by

$$c_{i,j} = u_{i,j}b_{i,j},$$
 $i = 1, \cdots, m$
and $j = 1, \cdots, n$

and similarly those of D = A./B by
$$d_{i,j}=\frac{a_{i,j}}{b_{i,j}}, \qquad i=1,\cdots,m$$
 and $j=1,\cdots,n$

In addition to multiplication .* and division ./ we can also use dot arithmetic for exponentiation using .^as in

the same size for the operation to be defined. We note either of the arguments can be scalars: By using dot arithmetic in MATLAB we must ensure the matrices are of

```
1.5000 -0.5000
>> C = A./B
C =
                                                                                >> C = A/B
C =
                                                                                                                                                 >> C = A.*B
                                                                                                                                                                                                      >>A = eye(2); B = [1 2; 3 4];
>>C = A*B
1.0000 0
0 0.2500
                                                                                                           04
                                                                                                                                                                34
                                                                                                                                                                             C=
12
                                                                                                                        10
                                                                    -2.0000 1.0000
                                                                                                                                                                compare the results of the MATLAB calculations A*B, A.*B, A/B and A./B.
For the multiplications we have the code:
                                                                                                                                                                                                                          Given the matrices
                                                                                                                                                                                                                          A = I and B =
```

The zeros, ones and eye commands

- •The eye(n) command creates a square matrix with n rows and n columns in which the diagonal elements are equal to 1, and rest of the elements are 0.
- •This matrix is called the identity matrix.

>> x=eye(3)

1

100

010

001





The zeros, ones and eye commands

- *The zeros(m,n), the ones(m,n) and eye(n) commands can be used to create matrices that have elements with special values.
- The zeros(m,n) and ones(m,n) commands create a matrix with m rows and n columns, in which all the elements are the numbers 0 and 1 respectively.

For a matrix

- •A(:,n) refers to the elements in all the rows of column n of the matrix A
- A(n,:) refers to the elements in all columns of row n of the matrix A
- n of the matrix A A(:,m:n) refers to the elements in all the rows between columns m and
- •A(m:n,:) refers to the elements in all the columns between rows m and n of the matrix A
- through q of the matrix A A(m:n, p:q) refers to the elements in rows m through n and columns p

Using indexing to edit 2D arrays

•What happens when sizes of matrices don't match?

y = zeros(3,3);

x = ones(3,3);

y(1, 2:3) = x(1:2, 2:3)

000

??? Subscripted assignment dimension mismatch.

Sub-array searching

Find the indexes of values in x that are larger than 3

x = [2870623];

>> find(x > 3)

235

Find the actual values in x that are larger than 3

>> x = [2 8 7 0 6 2 3];

>> x(find(x > 3))

876

We can also get the same result by breaking this into 2 steps:

>> inds = find(x > 3);

>> x(inds)

876

Finding the size of a matrix

x = [246]

369];

size(x)

2

Rows columns

vector X. It is equivalent to MAX(SIZE(X)) • Finding the length of a matrix: LENGTH(X) returns the length of

length(x)

>>ans=

Finding the maximal numbers in each matrix column

>> x = [1 8 3; 7 2 6; 4 5 9]

>> max(x)

183

×

789 ans=

726

459

How do we get the maximal element in the entire matrix?

>> max(max(x))

Ans=9

Operators (arithmetic)

- + addition
- subtraction
- * multiplication
- / division
- ^ power
- 'complex conjugate
- transpose

- .* element-by-element mult
- ./ element-by-element div
- .^ element-by-element power
- .' transpose

Operators (relational, logical)

== equal

~= not equal

< less than

<= less than or equal

pi 3.14159265... j imaginary unit, i same as j

> greater than

>= greater than or equal

& AND

OR

~ NOT

Question: write a command that subtracts 1 from all the values in y that are larger than 4 and stores it back into y. y = [135; 258];

7 4

Matrix Built in functions:

A=[1 4 6; 2 5 7;3 0 6]

inv(a)

det(A)

sort(A,'descend')

sort(A, 'ascend')

rank(A)

max(A): returns the row vector containing the largest element

of each column of A

Eigenvalue: returns the eigenvectors and eigenvalues given on the main diagonal of matrix A

[v,x]=eig(A)

	rand		rand (n)	rand (1,n)	rand	0
	rand (n, m)		(n)	(1,n)		Command
	Generates an n x m matrix with random numbers between 0 and 1		Generates an $n \times n$ matrix with random numbers between 0 and 1	Generates a row vector with n random numbers between 0 and 1	Generates a random number between 0 and 1	Description
0.7922 0.6557 0.8491	ons = 0.9157 0 0800	0.9575 0.9706 0.8003 0.9549 0.9572 0.1419 0.1576 0.4854 0.4218	>> rand(3)	>> rand(1.5) ans = 0.9134 0.6324 0.0975 0.2785 0.5469	>> rand ans = 0.1270	Example

0000	0	0	0	0	0	ans =	>> diag(x,1)	0	0	0	1	ans =	>> diag(x,0)	L	Н	ב	1	×
000 0000	0	0	0	0	-		g(x,	0	0	1	0		g(x,					
0 + 0 0 0	0	0	0	Н	0		1)	0	\vdash	0	0		9					
	0	0	H	0	0			-	0	0	0							
ans = 0 1 0 0 0 0 0 0 0 0 0 0 0 0 1 0 1 0 0 1 0 0	0	Н	0	0	0													
0100 🔆 0001				0					= sue		leip <<						11	>> diag(x(1:3),1)
				0) 1	C	0				8(x)		0	0	0	1		(X)
0 0 0 1:3)				H	0	C	0 0)			1:3))	0	0)	0	į.	T:3)
0 0 0 1				C	0	0	0 0)			,-1)		C	· -		0	į.	(Τ,

```
We can use this command to produce combinations such as diag(x,0)+diag(x(1:3)*2,1)+diag(x(1:3)*(-2),-1)
```

ans =

0 -2 1 :

0 0 -2

Solving Equations with MATLAB:

- In this we discuss how to solve algebraic equations using MATLAB
- We will discuss both linear and non-linear algebraic equations.
- 2x-3=0; First let us solve the following for the variable x:simple linear equation

p(x)=2x-3=0

>>p=[2 -3]

>> roots(p)

>>ans=1.5000

$$5x^5 - 3x^4 - 5x^3 + x^2 - 1 = 0$$

ans =

 Consider the following simple system of two linear algebraic equations in the variables x and y:

$$x-3y=5$$

$$4x+6y=3$$

The resulting equivalent matrix equation is written as follows:

$$\begin{bmatrix} 1 & -3 \\ 4 & 6 \end{bmatrix} \begin{bmatrix} x \\ y \end{bmatrix} = \begin{bmatrix} 5 \\ 3 \end{bmatrix}$$

$$[A][x] = \{b\}$$

$$\{x\} = [A]^{-1}\{b\}$$

```
>> x=inv(a)*b
                                             b =
                                                        >> b=[5;3]
                                                                                          >> a=[1-3;46]
2.1667
                                   8 5
                                                                    o 6
```

Solving equations with MATLAB:

- In this case, it was quick to find this inverse because the coefficient matrix was small.
- But for larger matrices, finding the inverse using MATLAB may take more time.
- Therefore, it is advised to use another method to solve the above system.
- One such method that is rather fast in execution is called Gaussian elimination.
- ■This method is already implemented in MAT- LAB as matrix division using the backslash operator "\".

Here is the solution of the above system again using Gaussian

elimination and the backslash operator:

$$x = 2.1667$$

0.9444

It is clear that we obtain exactly the same solution as before but with more speed on the part of MATLAB.

Solving equations with MATLAB

 let us solve the following sys- tem of five algebraic linear simultaneous equations

$$2x_1 - 4x_2 - x_3 + 3x_4 - x_5 = 3$$

$$x_1 + x_2 - 2x_3 + x_5 = 6$$

$$-x_1 - 3x_2 + x_4 + 3x_5 = -4$$

$$3x_1 - x_2 - x_3 + 4x_4 - x_5 = 1$$

$$x_1 + x_2 - x_3 + 2x_4 = 5$$





Solving equations with MATLAB

$$>>A=[2.4-13.1;11.201;-1.3013;3.1.1.4.1;11.1$$

 >0]
 $>>b=[3;6;-4;1;5]$
 $>>x=A\setminus b$
 $x=$
 -4.3571
 0.3571
 0.3571
 -6.4286
 1.2857
 $2x_1-4x_2-x_3+3x_4-x_5=6$
 $x_1+x_2-2x_3+x_5=6$
 $-x_1-3x_2+x_4+3x_5=-4$
 $3x_1-x_2-x_3+4x_4-x_5=1$
 $3x_1-x_2-x_3+2x_4=5$

Example:

which f(x) is maximum. For x in the range x=[0:0.1:1], calculate $f(x)=xe^{-2x}$. Report the value of x at

1. DEMO PROBLEM

Code of demoProblem.m (Method-I: using loops):

```
x = 0:0.1:1;
y = 1:length(x);
f(y) = x.*exp(-2*x);
index = 1;
while (f(index) cmax(f))
index = index + 1;
display(['result = 'num2str(x(index)) ]);
                                                                                                                                                                                Program to obtain the maximum value and the corresponding index
```

Final Result: 0.5

```
which f(x) is maximum.
x = 0:0.1:1;
t = x.*exp(-2*x);
[maxVal.index] = max(t);
display(['result = ' num2str(x(index)) ]);
                                                                                                                                                                     Code of demoProblem.m (Method-2: without using loops):
                                                                                                                    Program to obtain the maximum value and the corresponding
                                                                                                                                                                                                                                                        For x in the range x=[0:0.1:1], calculate f(x)=xe^{-2x}. Report the value of x at
                                                                                                                                         index
```

Final Result: 0.5

SALARY PROBLEM

end of each year, they get a raise of 6% and 2% respectively. Write a MATLAB code that uses salary exceeds that of B's. Report the value of the earliest year n when A's salary exceeds B's. either a for or while loop to calculate annual salaries of the two until the year when A's Two friends A and B start with initial salaries of I unit and 1.25 unit, respectively. At the

salaries in the respective years. When the program ends, A and B should be a n-dimensional vectors, containing their

3. SALARY PROBLEM

```
Code of salary.m (Method 1: Using while loop)
```

```
% Program using while loop
selA(1) = 1;
salB(1) = 1.25;
n = 1;
while(salA<salB)
selA(n+1) = (1.06) * selA(n);
selB(n+1) = (1.02) * selB(n);</pre>
```

Final Result: Number of years = 7 (6 years later, i.e., in the 7^{th} year)

```
Code of salary.m (Method 2: Using for loop)
```

salA(1) = 1;
saTB(1) = 1.25;
maxYears = 20;
for n=2:maxYears
salA(n) = (1.06) * salA(n-1);
salB(n) = (1.02) * salB(n-1);
if (salA(n+1)>salB(n+1))
end

Final Result: Number of years = 7 (6 years later, i.e., in the 7th year)

end

A NON-CONVERGENT INFINITE SERIES

you will code a series that does not converge: All the examples in the course videos have been about convergent series. In this example

$$S = 1 + \frac{1}{\sqrt{2}} + \frac{1}{\sqrt{3}} + \dots + \frac{1}{\sqrt{n}}$$

Please report the value S for various cases, n = 500, 1000, 5000 and 10000. Write a MATLAB code that takes in the value n and computes the above series sum S.

1. A NON-CONVERGENT ENFINITE SERIES

n=500;

vec=1./sqrt(1:n);

S=sum(vec);

disp(S)

The above code may be repeated for each value of n. The results for the four values are:

500 43.28

10000 198.54

Dot product

dot Vector dot product.

C = dot(A,B) returns the scalar product of the vectors A and B.

A and B must be vectors of the same length. When A and B are both column vectors, dot(A,B) is the same as A'*B.

•dot(A,B), for N-D arrays A and B, returns the scalar product along the first non-singleton dimension of A and B. A and B must have the same size.

•dot(A,B,DIM) returns the scalar product of A and B in the dimension DIM.

Cross product

cross Vector cross product. C = cross(A,B)

 \blacksquare returns the cross product of the vectors A and B. That is, C = A x B. A and B must be 3 element vectors.

C = cross(A,B)

■returns the cross product of A and B along the first dimension of length 3.

C = cross(A,B,DIM),

where A and B are N-D arrays, returns the cross product of vectors in the dimension DIM of A and B.

A and B must have the same size, and both SIZE(A,DIM) and SIZE(B,DIM) must be 3.

Calculating the Cross Product

Cell Arrays

- V types. can store an array of a different dimensions and data Cell arrays are arrays of indexed cells where each cell
- Syntax for the cell function is The cell function is used for creating a cell array.

C = cell(dim); C = cell(dim1,...,dimN); D = cell(obj)

Where, C is the cell array,

- dim is a scalar integer or vector of integers that specifies the dimensions of cell array C;
- dim1, ..., dimN are scalar integers that specify the dimensions of C;
- obj is One of the following: (1) Java array or object, (2) .NET array of type System.String or System.Object

Example:

- c = cell(2, 5)
- c = {'Red', 'Blue', 'Green', 'Yellow', 'White'; 1 2 3 4 5}
- · OUTPUT:

0 =

CI

'Red' 'Blue' 'Green' 'Yellow' 'White'

[1] [2] [3] [4] [5]

Cell Arrays

- Accessing Data in Cell Arrays
- There are two ways to refer to the elements of a cell array
- Enclosing the indices in first bracket (), to refer to sets of cells
- individual cells Enclosing the indices in braces {}, to refer to the data within
- of cells. When you enclose the indices in first bracket, it refers to the set

```
ans =
                                                                                                                                                          >> c = {'Red', 'Blue', 'Green', 'Yellow', 'White'; 1 2 3 4 5}
                                                                                                         >> c(1:2,1:2)
                                                                 [1]
                                                                               'Red'
                                                                                                                     [1]
                                                                                                                                   'Red'
                                                                  [ 2]
                                                                                                                     [ 2]
                                                                               'Blue'
                                                                                                                                   'Blue'
                                                                                                                                 'Green'
                                                                                                                      3] [
                                                                                                                   4] [5]
                                                                                                                                 'Yellow' 'White'
Yellow
         ans =
                                Green
                                           = 500
                                                                 Blue
                                                                           ans =
                                                                                                                              Arrays
                                                                                      >> c(1, 2:4)
                                                                                                          >>c{1, 2:4}
                                                                                                                                       Accessing Data in Cell
```

Cell Arrays

- Using Element wise Assignment.
- We can also create a cell array by assigning element wise through context indexing or through cell indexing.
- contents of the cell array on the right side of the assignment statement. In former case, we enclose the cell subscripts in curly braces as well as the

```
A(1,1) = { [1 2 3;4 5 6;7 8 9]}
A(1,2) = {1+2i}
A(2,1) = {'A Character String'}
A(2,2) = { 12:-2:0 }
                                                                                                                                                                                                                                        Example:
                                                                                                                                                                                                                                       OUT PUT:
                                                                                                                     A =
                                                                                                                                                                                      [3x3 double]
                                                                     [3x3 double] [1.0000e+00 + 2.0000e+00i]
'A Character String' []
                                                                                                                                      [3x3 double] [1.0000e+00 + 2.0000e+00i]
'A Character String'
                      [3x3 double] [1.0000e+00 + 2.0000e+00i]
 [1x7 double]
```

- Example:
- B{1,1}=[10 11 12;13 14 15;16 17 18];
- $B\{1,2\} = 5+2i$;
- B{2,1} = 'We are happy to learn MATLAB';
- B{2,2} = 0:0.1:1

OUTPUT:

8 =

[3x3 double] [5.0000e+00+2.0000e+00i] [1x28 char] [1x11 double]

Cell Arrays

- ,'BE','Delhi';} Friens_data = {'Name','Age','Phone Number','Qualification','Address'; 'Hari', '30', '9876543210', 'M.Com', 'Hyderabad'; 'Ramu', '32', '9876321054'
- · OUTPUT:

Friens_data =

Columns 1 through 3
'Name' 'Age' 'Phone Number'
'Hari' '30' '9876543210'
'Ramu' '32' '9876321054'

Columns 4 through 5
'Qualification' 'Address'
'M.Com' 'Hyderabad'
'BE' 'Delhi'

```
    Then, we can assign the individual elements of the cell array

                                                                                                                                                                                                                                                                                    Filling of Pre allocated cell arrays
                                                                                                                                     >> A(1,2)=[[3, 4]]
                                                             [] [1 x 2 double]
[] [] []
double
```

Cell Arrays

- Filling of Pre allocated cell arrays
- If we want to create empty cell arrays using cell function, we have to specify the size as inputs of the cell function and then assign the output to a variable.

```
w %
                                                                                                                                                                                                                        an empty cell array of size 4-by-3
                                                                                                                                                                                        >> A=cell(3,3)
                                                         >> A(1,1)=('Sun flower'):
>> A(2,1)=('Cauli flower'):
>> A(1,1)=('Asiatic dayflower'):
>>A
'Asiaticdayflower'
```

- Accessing the contents of cell arrays
- Using context Indexing

>>Friends(1) % gives the content of the first cell.

Ans -

>>Friends(4) % gives the content of the fourth cell.

"Sangeeta" [35]

Thus, Friends (4) (1) denotes the first element of the fourth cell of the cell array Friends. And Friends (4) (2) denotes the second element of the fourth cell of the cell array Friends. >> Eriends(4)(1)

'Sangeeta'
'Sergeeta'
'>>Friends(4)(2)
ans =
35

Cell Arrays

- Accessing the contents of cell arrays
- Using Cell Indexing

```
>> Bio_data(:,1)
                                   Suresh
                                                                                                                                                                                                        Bio_data =
                                                                                                                                                                                                                      >> 810 deta=( 'Mame', 'Age', 'Phone number', 'Qualification', 'Address'; 'Ram', 32, 9876543210, 'Ph.D', 'Bydetahad'; 'Hari', 35, 9123456780, 'M.Tech', 'Deihi'; 'Suresh', 30, 9976543210, 'S.E', 'Sengalore'; 'Samesh', 21, 7896543210, 'S.Tech', 'Chemnat
                                                                                   > B10 data(4, 1)
                                                                                                                        'Name'
'Eam'
'Bari'
'Suremh'
'Eamesh'
                                                                                                                  'Age'
[ 33]
[ 35]
[ 30]
[ 21]
                                                                                        hone number
9.3765e+09]
9.1235e+09]
9.9765e+09]
7.3965e+09]
7.3965e+09]
           'Qualification'
'Ph.D'
'M.Tech'
'B.E'
                                                                                                               'Address'
'Hyderabad'
'Delhi'
'Bengalore'
'Chennal'
```

		-	-2020	-	/2020	10-06		11-06-	-			-	-	15-06-2	2020	16-06	-2020	17-06	5-2020	18-0	6-2020	19-0	6-2020	20-0	6-2020
Full Name In CAPITALS	Roll Number	FN	AN	FN	AN	FN	AN	FN	AN	FN	AN	FN	AN	FN	AN	FN	AN	FN	AN	FN	AN	FN	AN	FN	AN
1 RAGHAVESHWAR GUGGILLA	160118734039	A	Α	A	A	A	A	A	A	Α	A	A	A.	A	A	A	Α	Α	Α	A	A	A	Α	A	Α
2 SINGAJOGI BHARGAVI	160118734061	А	A	A	Α	A	A	A	Α	А	A	A	A	A	Α	Α	A	Α	A	A	A	A	A	A	A
3 NISHITHA SURUKANTI	160118734066	Α	A	Α.	A	Α	A	A	A	Α	A	A	A.	A	A	Α	A	A	A	A	A	A	A	A	Α
4 ARIKOTLA RISHITHA	160118734069	Α	A	Α	Α	A	A	Α	A	Α	A	A	Α	A	A	A	A	A	A	A	A	A	Α	Α	A
5 SNEHA BHANDHAVI THUMU	160118734072	A	A	A	A	Α	A	A	Α	A	A	A	A	A	Α	A	A	A	A	A	A	Α	A	A	A
6 SADINENI SRAVANTHI	160118734075	Α	Α	Α	A	A	A	A	Α	A	Α	A	A	A	Α	Α	A	A	Α	Α	A	Α	Α	A	Α
7 SANKARNENI SRAVYA	160118734076	Α	A	Α	Α	A	A	A	Α	A	A	A	A	A	Α	Α	A	Α	A	Α	Α	A	A	A	A
8 UMMAY SALMA	160118734079	A	Α	A	Α	P	Α	A	Α	Α	A	A	A	A	A	A	A	Α	A	A	A	Α	Α	A	A
9 M ABHISHEK	160118734080	Α	Α	A	Α	A	A	Α	Α	Α	Α	Α	Α	A	Α	Α	Α	Α	A	Α	A	A	A	Α	A
10 AJAY GUNNALA	160118734082	Α	A	Α	Α	A	Α	Α	Α	A	A	Α	Α	Α	Α	A	Α	Α	A	A	A	A	,A _i	Α	A
11 GANAMONI JEEVAN KUMAR	160118734090	A	A	A	A	A	Α	Α	A	Α	A	Α	A	A	Α	A	A	Α	A	A	A	A	Α	A	A
12 PANDULA MANIDEEP	160118734092	Α	Α	Р	Α	A	A	A	A	A	Α	Α	Α	A	Α	Α	A	A	Α	Α	A	Α	Α	A	А
13 ANNAM RAKESH	160118734097	Α	Α	A	A	P	A	Α	Α	Α	A	A	A	Р	A	Α	A	A	A	P	A	A	Α	Α	A
14 SAITEJA KOTHAKONDA	160118734100	Α	A	A.	A	Р	Α	A	Α	A	A	A	A	A	Α	A	Α	Α	A	A	A	A	A	Α	Α.
15 SAIKIRAN KOLLOJU	160118734101	Α	Α	A	A	A	Α	Α	Α	Α	Α	A	A.	Α	A	Α	A	A	Α	Α	A	A	Α	А	A
16 GANASALA HEPSIBA RANI	160118734312	A	A	A	A	A	Α	А	Α	Α	A	A	Α	Α	A	Α	A	A	Α	Α	A	A	Α	Α	A
17 ANGEL SHEEBA KAPARTHI	160119734001	Р	Р	Р	Р	Р	Р	Р	Р	Р	Р	Р	Р	Р	Р	Р	Р	P	Р	Р	P	Р	Р	Р	Р
18 DEVIKARANI SANABOYINA	160119734002	A	Р	Р	Р	Р	A	A	Р	Α	Р	Α	A	A	A	Α	A	Α	A	A	A	A	Α	Р	Р
19 SEGGAM GNANA PRASANNA	160119734003	Р	Р	Р	Р	Α	A	Р	Р	Р	Р	Р	Р	Р	Р	Р	A	Р	Р	Р	A	Р	Р	P	Р
20 JAYASREE MOCHI	160119734004	Р	Р	Р	Р	Р	Р	Р	Р	Р	Р	Р	Р	Р	Р	Р	Р	Р	Р	Р	Р	P	P	P	р
21 S KARUNYA RAM	160119734005	P	P	A	P	P	P	P	P	Р	Р	Α	Δ	Р	P	P	P	P	P	P	P	P	P	P	P
22 P.Lakshmi Sahitya	160119734006	P	P	P	P	P	P	P	Р	P	P	A	A	P	P	P	P	P	P	P	P	P	P	P	P
23 LIKHITHA GADE	160119734007	Р	P	P	P	P	P	P	P	P	P	P	Р	P	P	P	P	P	P	P	P	P	P	P	P
24 YENUGULA MANASA	160119734008	A	P	P	P	Р	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	A	P	P
25 VUGGAM MANEESHA	160119734009	P	p	P	P	P	P	P	P	P	P	P	Р	P	P	P	P	P	P	P	P	P	P	Р	P
26 GUNDU NIHARIKA	160119734010	Р	P	P	A	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	A	P	P	P	P
27 PATIL SAI VAISHNAVI	160119734011	P	Р	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
28 MANNE, SHINY ROSELEEN	160119734012	A	P	A	P	P	P	P	P	P	P	P	P	P	P	P	A	P	A	P		P	P	P	P
29 SMRIDHI UPPALA	160119734013	A	p	A	P	A	P	P	P	A		A	A	A						_	A			P	P
30 SNEHA NALLURI	160119734014	A	A	A	A	A	A	A	A	A	P	A	A		A	A	A	A	A	A	A	Α.	A	P	P
31 M.SNEHA SUNDARI	160119734015	A	p	P	P	P	P		P		P	P		A	A	A	Α.	A	A	A	A	A	A	P	P
32 VELPULA SNEHA	160119734016	P	р		P	P	P	A P	P	A	P	-	A P	A P	A	P	A P	A	A	A	A	A	A	P	
33 MEDAM SOUMYA	160119734017	P		A	P	P	P	P	P	-	Р	A P	P		A	-	_	P	P	P	P	P	A	-	P
		P	A			P	-	-	-	Р	-	-	-	P	P	P	P	Р	P	P	P	P	P	Р	P
	160119734018		Р	Р	Р	-	Р	P	Р	Р	P	P	P	P	P	P	P	P	P	P	A	P	P	Р	Р
35 V.VIJAYA CHANDANA	160119734019	Р	-	Р	Р	Р	Р	Р	Р	Р	P	A	P	A	P	A	P	P	P	P	Р	P	P	Р	P
36 YAMINI KUSA	160119734020	A	A	A	A	A	A	A	A	A	Р	Α	A	A	A	A	A	A	A	A	A	A	A	Р	P
37 ANANTHULA ADARSH	160119734022	Р	Р	A	Р	Р	Р	A	Р	Р	Р	P	P	Р	Р	P	Р	Р	Р	P	Р	Р	P	Р	Р
38 RAMAVATH ARAVIND	160119734025	Р	Р	P	Р	Р	Р	Р	Р	Р	Р	Р	Р	Р	Р	Р	Р	P	Р	P	Р	Р	P	Р	Р
39 ADUVALA ARUN	160119734026	Р	Р	Р	Р	Р	Р	A	Р	Р	Р	Р	Р	Р	Р	P	Р	Р	Р	P	P	P	P	Р	Р
40 DOSAPATI CHRISTOPHER STE	160119734027	Р	Р	Р	Р	Р	Р	Р	Р	Р	Р	Р	Р	Р	P	Р	Р	Р	Р	P	Р	P	P	P	Р
41 DHANUSH CHANDRA	160119734028	A	Α	A	Α	Р	Α	Α	Α	Α	A	A	Α	A	A	P	A	A	A	Α	A	A	Α	Р	Р
42 GUNDEBOINA GANESH	160119734029	Α	A	Р	Α	A	Α	Α	A	Α	A	P	Р	A	A	P	A	Α	A	A	A	A	A	Р	Р
43 ERABELLY GYAN VIKAS	160119734030	A	Α	Р	Α	Α	Α	A	Α	A	Α	A	A	A	A	Α	Α	Α	A	Α	A	A	Α	Р	Р
44 MUCHERLA HARI PRAVEEN	160119734031	Р	Р	Р	Р	Р	Р	Р	Р	Р	Α	Р	A	A	A	Α	Α	A	A	Α	A	P	P	Р	Р
45 NALLA JAYANTH	160119734032	Α	Α	A:	Р	A	Α	Α	Α	A	Α	A	Α	A	A	Α	Α	A	A	A	Α	A	A	Р	P
46 NAGA VENKATASAI VISHWANA	160119734033	Р	Р	Α	Р	Р	Р	A	Р	Р	Р	A	A	Р	Р	Р	A	Р	Α	A	A	A	Α	P	Р
47 NISHANTH AYYALASOMAYAJU	160119734034	Р	Р	Р	Р	Α	Α	Α	Р	Р	A	A	Α	Α	A	A	A	Α	A	A	A	A	A	Р	P
48 A.NITHIN	160119734035	А	Р	Α	A	Α	Α	Α	Р	A	Α	A	Α	A	Р	Α	Α	Α	Р	A	Р	Α	Р	Р	Р
49 KANIKARAPU PAVAN KUMAR	160119734037	Р	Р	Р	Р	Р	Р	Р	Р	Р	Р	Р	Р	Р	P	P	Р	Р	Р	Р	P	P	P	Р	Р
50 RAJESH CHINTA	160119734039	Α	A	Р	Р	Р	Α	Α	Α	Р	Α	Р	Α.	Р	A	Р	A	Α	Α	Α	Α	A	A	Р	Р
A CHEVULA SAIANIVESH	160119734043	Α	Α	Р	A	A	Α	A	Α	Α	Α	A	A	А	A	А	Α	А	A	А	A	A	А	Р	Р
52 GANDU SAI LIKHITH	160119734045	Р	Α	Α	Р	A	Α	А	Α	A	A	A	A	A	A	А	A	Α	А	Α	Α	A	A	Р	Р

53 SANJAY KUMAR POGULA	1601197340	47 A	- A	1	A	1 ^	1			-		_													
54 FARDEEN AHMED SHAIK	16011973404	_	-	-		-	_		_	_		-	. 1	A	A	P	A	P	A		A	A	A		
55 POLYSETTY SHIVA SAI	16011973405		-	-	-	-	P	-	-	-	P	P	F	P	P	A	P	A							P
56 USHAKOYLA SHIVA SAI	16011973405			-		- //	A		_	A	A	A	F	A	Р	A	A	A	_	-	-	-			P 1
57 KALKURI SHIVA SHANTH	16011973405					A			_	A	A	A	A	A	A	A		A		_				A F	
58 GODAVARI SRI SAI AKHIL	16011973405	-	-	-	-	P	A			-	P	P	A	P	Р	P	_	A				_		A P	-
59 LANKALA SRISANTH	16011973405		-		-	P	P	-	P	P	P	P	P	Р	P	P	P	P		_				РР	
60 SUHASH GAMPA	16011973405					A	A		A	A	A	A	A	A	A	A	-	A	A	-				A P	
61 KETHANAPALLY SUSENARED	16011973405				-	A	A	-	A	A	A	A	A	A	A	A		A	_	-				4 P	
62 DAREDDY THULASI HUSEN R	16011973406	-	-	-	-	P	P	-	P	P	A	P	A	A	A	A		A	A					P	- '
63 KURRI ANITHA	16011973406			_	- 1	P	A	-	P	A	A	A	A	P	A	A	A	A						P	P
64 Firdous Anjum	16011973406		-	-	-	P	P	P	P	P	P	P	P	P	Р	P	P	P	A P			_	_	P	P
65 BURRI GOWTHAMI	16011973406		P	-	-	Р	Р	P	P	P	P	P	P	A	A	A	A	P		P	-			P	F
66 V. KRISHNA SREE	16011973406	-	P	-	-	P	P	P	Р	P	P	P	P	P	P	P	P		A	A			-	P	P
67 CHAKKA LAHARI			P	P	P	P	P	Р	P	P	P	P	P	P	P	P	P	P	P	P	-	-	F	P	P
68 ESLAVATH.MANASA	16011973406		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	-	-	F	P	P
69 POOJA MUNNOLA	160119734066		A	A	A	A	A	P	P	Р	A	P	P	P	P	P	_	P	Р	P	-	-	F	Р	P
70 NAGAVELLI PRATHYUSHA	16011973406		A	P	A	Α	A	A	A	P	A	A	A	A	A	-	Р	P	P	P	F	F	F	P	P
71 CHELLE SABHYATA	160119734068		A	A	P	P	P	P	P	P	P	A	P	P	_	A	A	A	A	A	A	A	A	P	P
72 SINGIREDDY SAI NAGA KEERT	160119734069	_	P	Р	P	P	P	A	Р	P	P	P	P	P	P	P	A	P	A	A	P	A	P	P	
73 BHEEMANADHUNI SAIMEGHAN	160119734070	P	P	P	P	Р	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	
74 B. SANDHYA		A.	A	Р	P	Р	P	P	Р	P	P	P	P		P	P	Р	P	Р	P	P	P	P	P	P
75 CHERUKU SANDHYA	160119734072		A	A	A	A	A	A	A	P	A			Р	Р	P	A	P	P	P	P	P	P	Р	P
	160119734073						P	P	P	A	- A	A	A	A	A	A	A	A	A	A	A	A	A	Р	P
76 PASHAM SHARATHDEEPIKA	160119734074	Р	P	P	P	P	P	P	P	P	P	P	P	A	P	P	. P	A	A	P	A	A	P	P	P
77 REGU SHRUTHI	160119734075	P	A	P	Р	Р	P	P	P	P	-	Р	P	Р	P	P	Р	Р	P	P	P	P	P	P	P
78 VINUKULA SUSHMA	160119734076	P	P	P	P	P	P	P	P	P	P	Р	P	Р	A	Р	A	P	P	P	A	A	P	P	P
79 DINTAKURTHI ABHINAY	160119734079	P	P	P	P	Р	P	P	P		-	Р	Р	Р	Р	Р	P	P	P	P	P	P	P	P	P
POLU ABISHEK REDDY	160119734080	Α	A	A	A	A	A			P	P	Р	Р	Р	Р	P	Ρ.	P	P	P	P	P	P	P	P
31 AKHIL	160119734082	A	A	A	A	A	A	A	A	A	A	A	Α	A	Α	Α	A	A	A	Α	A	A	A	P	P
32 G BHARGAV	160119734087					- /,	-	A	A	A	A	A	A	A	A	Α	A	A	A	A	A	A	A	P	P
3 DUSHYANTH YADAV	160119734088	Α	A	A	A	A	Α.		P	Р	Р	Р	Р	Р	A	P	Р	Р	Р	P	A	A	P	P	-
4 HADEEL SHAIK	160119734089	Р	P	P	P	P	A	A	A	Α	Α	A.	A	A	Α	Α	A	Α	A	A	A	A		P	P
5 THALARI HAREESH	160119734090	Α	A	A	A	A	P	Р	Р	Р	Р	P	Р	Р	P	Р	P	Р	Р	P	A	P	A	P	P
6 HARISH PAIDI	160119734091	A	A	P	P		A	A	A	Α	A	A	A	A	A	Α	A	A	A	A	A	A	A	-	P
7 JASHWANTH SAMBARAJU	160119734092	Р	P	P	P	Р	Р	A	P	Р	A	P	A	Α	A	Р	A	Р	A	A	P	A	A	Р	P
8 KOUSTHUBH VANGAPALLY	160119734094	P	P	P		Р	Р	P	A	Р	A	Р	A	Α	A	Р	Α	A	A	A	A	-	A	Р	P
9 N.LALU PRASAD	160119734095	A	A	-	P	Р	Α	Р	Α	Р	A	Р	A	Р	A	Α	Α	A	A	P		A	A	P	Р
CHAPALAMADUGU MAHENDER	160119734097	A	A	A	A	A	Α	A	A	A	A	Α	A	A	A	A	A	A	A	A	A	A	A	P	Р
1 MOHAMMAD AMAAN	160119734099	A		P	Р	Р	Α	A	P	P	Α	Р	P	Р	P	Р	A	P	P	P	A	A	A	Р	P
2 GEDDAM NEENA NIKHIL	160119734100		A	A	A	Α	A	Α	A	A	A	A	A	A	A	A	A	A			A	P	P	P	P
NIKHIL	160119734100	P	A	A	A	P	Α	Α	A	Α	A	A	A	A	A	A	A		A	A	A	A	A	P	P
Y PRANEETH	160119734101	A	A	A	Α	A	A	Α	P	A	A	A	A	A	A	A	A	A	A	Α.	A	A	A	P	Р
MANNEM RAVITEJA		Р	Р	A	P	P	P	P	P	Р	Р	P	Р	P	P	P	P	A	A	Α	A	A	Α	Р	Р
TROHITH	160119734106	A	Α	A	Α	A	Α	Α	A	A	A	A	A	A	A	A	P .	P	Р	Р	Р	P	Р	P	Р
PATLOLLA SANDEEP KUMAR	160119734107	Α	A	A	A	A	A	A	A	P	A		A	A			A	A	A	Α	A	A	A	P	Р
CHETKURI SHIVA	160119734109	Р	Α	A	Р	P	A	A	P	A	A	- 1	A	A	A	A	A	A	A	Α	Α	A	A	Р	P
Pogula Shivamani	160119734110	A	A	A	Α	Р	A	Р	P	P	A		P	P	P.	P	A	Р	A	A	Α	Р	Α	Р	Р
SHIVATEJA PUNNA	160119734111	A	A	Α	A	Α	A	A	A	A	A				P	A	A	A	A	A	Α	Α	Α	Р	Р
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CH.THARUN TEJA	160119734113	P	Р	Р	P	P	P			P			M P	A	A	A	A	A	A	A	Α	A	Р	P	P
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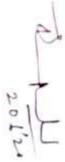
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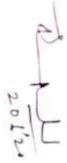


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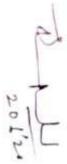
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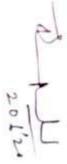
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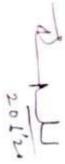


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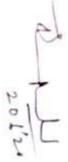
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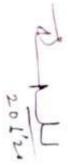
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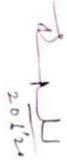
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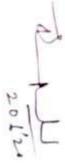
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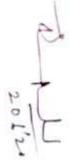
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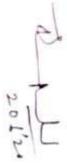
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Associate Professor, EEE

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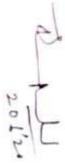
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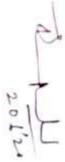


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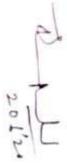
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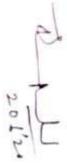
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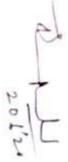
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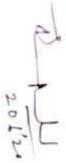


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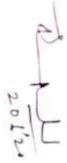
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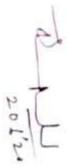
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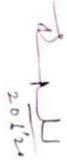
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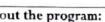
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- Understand the nuances of Robotic Process Automation
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Learning outcomes

- Understand the concepts of Digital Workforce Development & Robotic Process Automation
- Describe how Automation Anywhere's RPA tool can be used for creating software robots (Bots)
- Describe the new features of the Automation Anywhere client to build the Bots

Content of Learning program - 12 Hours

- 1. Hello Bot: Introduction to RPA and Use Cases v11 (3 hours)
- 2. Build the digital work force (5 hours)
- Storing and Manipulating Data: How to Automate Database-related Processes (30 Mins)
- 4. Automating Excel Operations: Methods to Work with Excel Workbooks (30 Mins)
- Working with PDF Documents: Methods to Automate PDF-Related Processes (30 Mins)
- Automating Structured Data: How to Work with XML Streams (30 mins)
- 7. Automating String Operations: Methods to Manipulate and Extract Strings (30 mins)
- 8. Communicating with Email Servers: Methods to Automate Email Messages (30 mins)
- Communicating with Emulators: How to Automate Terminal Applications (30 mins)
- 10. Unleash Your Intelligent Bots: Developing Cognitive Bots, driven by Al & Developing (IQ Bot) (30 Mins)
- 11. Bot Story: Where Automation Meets Analytics Using Bot Insight V11.0 (2 hours)

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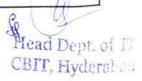
Register at: https://forms.gle/Fkoha3GPKbK3pZYP7

For further information, contact

CSE: Mrs G. Shanmukhi Rama -9949438284

IT: Mrs.K.Swathi-9491388749

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. NO.	5. No. Name of the Faculty	Designation	Department	1 11 11 11	
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	IMI. U. Sal Kam	Asst. Professor	٢	leairam it@chit oc ic	0440004400
				Coall all I (Cooll ac. II)	0143304133
0	Mr. G. Mallikharjuna Rao	Asst. Professor	ECE	mallikhanimao@omail com	NOCT NO 2300
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COMMITTED TO RESEARCH, INNOVATION AND EDUCATION VOOR

A Memorandum of Understanding is executed on the day 22nd of February 2019 between CBIT and Automation Anywhere for Robotic Process Automation (RPA) initiatives.

AAU Established RPA CoE in Lab 4 of CDC Providing 40 Licenses.

The following Faculty are being trained.

Ms. G. Shanmukhi, Mr. U. Sai Ram Mr. G. Mallikharjuna Rao are being trained on RPA Software Version 11.3 at Bangalore from 20th Jan-24th Jan 2020.

RPA - Working Group

S. No.	Name of the Faculty	Designation	Dept	Email id	Contact No.
1	Mr. R. Srikanth	Asst. Professor	CSE	rsrikanth_cse@cbit.ac.in	8978259394
2	Ms. G. Shanmukhi	Asst. Professor	CSE	shanmukhi.rama@cbit.ac.in	9949438284
3	Ms. K. Swathi	Asst. Professor	IT	kswathi_it@cbit.ac.in	9491388749
4	Mr. U. Sai Ram	Asst. Professor	IT	usairam_it@cbit.ac.in	8143364133
5	Mr. GNR Prasad	Assoc. Professor	MCA	gnrp@cbit.ac.in	9885 191 683
6	Mr. G. Mallikharjuna Rao	Asst. Professor	ECE	mallikarjunarao_ece@cbit.ac.in	9866047394
7	Mr. C. SriSailam	Asst. Professor	EEE	srisailamc_eee@cbit.ac.in	9032838993

AAU Will Provide

- E-learning access to those Students enrolled in the Course.
- · Licenses as per terms in Section 3 of this Agreement.
- Work with the CBIT(A) to set up the CoE, including installing the Software and providing Documentation.
- Certification test materials needed to test Students for AAI certification Issue the AAI
 certification to those students who have successfully completed the certification course.
- Faculty members attend AAI train-the-trainer courses, and have those who have successfully completed such course be tested for AAI train-the-trainer certification.
- Train Students using only Faculty Who are already AAI certified trainers.
- Opportunity to enroll in the Course, and conduct and oversee Student's participation in the Course



Exchanging of MOU between CBIT & Automation Anywhere University (RPA) on 31.01.2019

Head Dept. of 22 CBIT, Hyderabad





RPA Training Programmes For Faculty & Students by Mr. Kunal Banerjee, from 19-21.03.2019 at Placement Online Exam Centre







STATE OF LE

CBIT Hacktoberfest Hackathon 2019

Organized By CBIT Open Source Community

Sponsored By

Monster

Mr. R. Srikanth **CBIT Open Source Community Incharge**

Sairakshitha Yalamanchili

President, COSC

CBIT HACKTOBERFEST HACKATHON 2019

WHAT IS HACKTOBERFEST?

Hacktoberfest is a month long virtual festival event to celebrate open source

contributions presented by DigitalOcean and DEV. It's a celebration of Open Source

ethos and also an opportunity to contribute to new-to-you projects. It is that tiny extra

push people might need to make their first Open Source contribution. It is the easiest way

to get into open source.

Through this event, students are introduced Open Source and are encouraged to make

contributions to open source projects.

WHY 24 HOUR HACKATHON?

A hackathon aids students to apply the concepts they have learned to build practical

applications, while also allowing them to explore various facets of the frameworks or

programming languages they use for the same. A 24 hour hackathon enables incremental

development of an application with novel modifications and optimization. It also allows

the students to learn new open source concepts and use them effectively in the product

being developed.

We set out to therefore, continue the 24 hour hackathon under Hacktoberfest for the

second time to encourage students to develop innovative applications based on open

source technologies and explore other new technologies.

Event Dates: 25th and 26th October 2019

Event Website: www.hacktoberfest.cbit.org.in

SPONSORS

Monster Energy

Monster Beverage Corporation is an American beverage company that manufactures energy drinks including Monster Energy, Relentless and Burn. The company was originally founded as Hansen's in 1935 in Southern California, originally selling juice products. The company renamed itself as Monster Beverage in 2012, and then sold their Hansen's juices and sodas and their other non-energy drink brands to The Coca-Cola Company in 2015.

As of May 2012, Monster held nearly 35% of the \$31.9 billion US energy drink market.

Monster Energy is an energy drink introduced by Hansen Natural Company (now Monster Beverage Corporation) in April 2002.[1] There are 34 different drinks under the Monster brand in North America, including its core Monster Energy line, Java Monster, Extra Strength, Import, Rehab and Muscle Monster.



MENTORS



Sekhar Karedla

Revanth Rallabandi

OSS Contributor

Laxman Damera

OSS Contributor

Ram Damera

OSS Contributor

Pranav Devarakonda

OSS Contributor

VSVS Varma

OSS Contributor

Chandrakanth Reddy

OSS Contributor

SCHEDULE

Date	Event	Time		
Day-01 25 th Oct	Registrations & Team Formation	03:00 - 4:00 PM		
Day-01 25 th Oct	Inaugural	4:00 - 4:30 PM		
Day-01 25 th Oct	Introduction about Hacktoberfest and COSC	4:30 - 5:00 PM		
Day-01 25 th Oct	Awareness about Open Source, contributions, Free Software	5:00 – 5:30 PM		
Day-01 25 th Oct	Tea Break	5:30 - 6:00 PM		
Day-01 25 th Oct	Workshop on Git & GitHub	6:00 - 7:00 PM		
Day-01 25 th Oct	Helping students start with git, GitHub and OSS contributions	7:00 - 8:00 PM		
Day-01 25 th Oct	Hacking starts	8:00 - 9:30 PM		
Day-01 25 th Oct	Social Dinner	9:30 - 10:30 PM		
Day-01 25 th Oct	Overnight hacking begins	10:30 PM - 11:59 PM		
Day-02 26 th Oct	Overnight hacking continues	12:00 AM - 8:30 AM		
Day-02 26 th Oct	Breakfast	8:30 AM - 9:30 AM		
Day-02 26 th Oct	Morning Hack	9:30 AM - 12:00 PM		
Day-02 26 th Oct	Teams conclude their contributions and make presentation.	12:00 PM - 1:00 PM		
Day-02 26 th Oct	Lunch.	1:00 PM - 1:30 PM		
Day-02 26 th Oct	Pull requests on GITHUB	1:30 PM - 2:30 PM		
Day-02 26 th Oct	Announcement of Winners and Valedictory Session	2:00 PM - 3:30 PM		

ORGANIZERS

Organized By CBIT Open Source Community

Faculty Coordinators

Mr. R. Srikanth

Mrs. T. Suvarna Kumari

Mrs. T. Prathima

Core Committee

President – Sairakshitha Yalamanchili Joint Secretary – Pavan Kalyan I

Vice President – Preethivardhan Joint Secretary – Hruday Tej Akkaladevi

Secretary – Meenan Sai Vooturi Joint Secretary – Neha Dinesh Prabhu

Secretary – Shreeyesh Reddy Public Relations – Syed Hyder Hussain

Joint Secretary – Mirza Akber Namazi

Volunteers

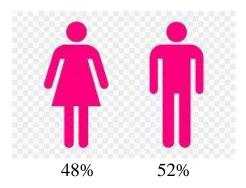
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Gongidi Gouthami

Sai Sanjeev Kumar Reddy Boppidi

DEMOGRAPHICS

We saw active participation from students of various colleges which include KMIT, St. Mary's Group of Institutions, Aurora Degree college, and VNR VJIET. Over 100 students actively participated in building prototypes for their projects. We were thrilled to see such active participation from girls as well as boys in the 24-hour hackathon.



BUDGETING

Purpose	Dr	Cr
Transport, Petrol and Mentors Expenses	2922	
Food and Beverages	26839	
T-shirts, ID-Cards, Stationery, Certificates, Banners and Posters	8984	
Participant registration		30300
Total	38745	30300
Net Expenses: 8445		

PROJECTS & WINNERS

The participants were actively involved in the discussion held, followed by a session on GITHUB. The mentors were elated to see the dedicated participants work on their project. A few of the project ideas include:

- **1. Events/Club Information**: An application which provides information about all clubs of the university and events that are happening in the institution, where each club has their own login (handle).
- **2. Experience Expo:** An application which lets 4/4 or passed out students who are placed to post their interview experience as in which company expected what skills, concentrated on which subject, how many rounds were conducted etc., and how did the he ace the same and got selected. Whenever there is a new post, all the subscribed students of that conversation should receive emails about the update.
- **3. Startup Finder:** An application which pools the info of all the startups in a particular area which can be viewed based on their core Technology such as IT, blockchain etc.
- **4. Power Failure Complaint System (or sewage treatment):** An application which allows its users to file complaints regarding power failures in their region. Application needs to maintain a count of the complaints regions wise and after the count crosses the threshold, the respective authorities need to be notified about the same. This data should be displayed to the authorities in the form of list of complaints or the region can be highlighted on the map.

- **5. Accident Info System:** An application which maintains a centralized database of the location, time and causalities when an accident has occurred. From this database, nearby hospitals, police Stations and ambulances are notified about the same.
- **6. Marks Record Tracker:** An application to maintain slip test/mid marks/lab internal marks of a student entered by faculty so a student has access to his marks and progress always.
- **7. Placement Management:** An application which automates the process of filtering students based on various factors such as branch and CGPA, so that the filtered list is sent to the company and the company details are sent to the filtered student only.
- **8. Project Base:** An application which provides an interface to every previous year project done by students.
- **9. Resource Repository:** An application which has all the best resources related to a particular course.

The session ended on a formal note as the top three project ideas were awarded prizes by the mentors. The prize-winning ideas were:

- Experience Expo
- Electrical and Sewage Complaint Registration
- Start-up Finder

PICTURES









EVENT PLANNING

We registered our event in the first week of October, at Digital Ocean Hacktoberfest global events website. The planning began in the first week of October. We divided ourselves into groups to find sponsors, community partners and mentors from the industry.

The publicity team set out to publicize the event in campus as well as off campus. Volunteers were picked as an extra help to organize the event. The mentors and sponsors were finalized and the dates for the hackathon were fixed. Care was taken to provide the attendees with uninterrupted power and high speed internet connectivity. It was made sure that the event took place in the way we had planned it.

NEXT STEPS

The Hacktoberfest Hackathon was the second 24-hour hackathon in CBIT. The result of this hackathon was sheer creativity and high productivity. A follow up was made to help every participant to complete their 4 pull requests of their hacktoberfest and complete their product to perfection. The winning projects of this hackathon were guided further for real time implementation.

Through this hackathon, students learned to collaborate, cooperate and contribute to open source and rapid prototyping that are very essential for JPMC Code For Good and Smart India Hackathon.

Based on the enthusiasm of the participants, we plan to continue the hacknight approach in future to solve some of the real world problems. We also plan to host an internal college level version control using GitLab to allow projects to be developed collaboratively and managed internally. We will also continue to work closely with the developer communities that have provided their support for this hackathon for future events of this club.

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1	Imestamp	Name (On Certificate)	College	Branch	Year	Roll number(if CBIT)
63	10/26/2019 8 19:48	B Arun Kumar	CBIT	MCA		
64	10/26/2019 8:27:05	P Deepthi Reddy	CBIT	MCA		
65	10/26/2019 8:35:50	Karthik Sai Kumar Reddy	CBIT	MCA		
66	10/26/2019 8:20:11	KADAMBALA MANISH K	CBIT	MCA		
67	10/26/2019 8:44:31	Tulala Rushikeswara Rad	CBIT	MCA		
68	10/26/2019 11:05:20	S.shiva kumar	CBIT	MCA		
69	10/26/2019 10:24:54	BOYALAKUNTLA SIDDA	CBIT	MCA	2	160118862034
70	10/26/2019 8:20:36	Mahesh Sharma	CBIT	MCA		160119862016
71	10/26/2019 8:21:43	GONUGUNTLA SAI HAR	CBIT	MCA		
72	10/26/2019 8:21:34	N.Saikiran yadav	CBIT	MCA		160119862032
73	10/26/2019 8:21:19	Bhima, Maanvitha	CBIT	CSE	2	
74		MUZZAMMIL AHMED	CBIT	CSE		160118733025
75	10/26/2019 8:23:44		CBIT	MCA	2	
76	10/26/2019 8:37:15		CBIT	CSE	3	
77	10/26/2019 8:37:09	PROPERTY OF THE PROPERTY OF TH	CBIT	CSE	3	
78		Kousthubha Krishna CH	CBIT	CSE	3	
79	10/26/2019 8:42:29	Pratap Rahul Sai	CBIT	CSE	3	
80	10/26/2019 8:35:37	Sal Rohith Kommineni	CBIT	CSE	3	
81	10/26/2019 8:23:38	G Lavanya	CBIT	CSE	2	100111100100
82	10/26/2019 8:35:00	Khush	CBIT	CSE	2	100110100000
83	10/26/2019 8:22:32	SIVA SANKAR MADALA	CBIT	MCA	1	160119862038
84	10/26/2019 8:22:22	Koushik patnam	CBIT	CSE	3	160117733094
85	10/26/2019 8:40:10	Satya Shodhaka R Prabh	CBIT	IT	3	CONTROL OF THE PARTY OF THE PAR
86	10/26/2019 8:20:57	Chaitanya Changala	CBIT	CSE	2	160118733001
87	10/26/2019 8:21:45	Deepthi Begari	CBIT	CSE	2	160118733002
88	10/26/2019 8:20:47	Yaswanth Mallapureddy	CBIT	MCA	2	160118862046
89	10/26/2019 8:34:58		CBIT	CSE	3	160117733144
90	10/26/2019 8:35:29	Amogha Bhandari	Keshav Memorial institute	CSE	3	
91	10/26/2019 8:23:10	Tejaswini Viswanath	Keshav Memorial Institute	CSE	3	
92	10/26/2019 8:20:43	Yetcherla Sai Viswatej	KMIT	CSE	3	
93	10/26/2019 8:37:42	Annanya Bhandari	KMIT	CSE	3	
94	10/26/2019 8:21:12	Anmol Sharma	St. Mary's Group of Institu	CSE	3	
95	10/26/2019 8:19:59	Sourabh Diwanji	St. Mary's group of institu	CSE	3	
96	10/26/2019 8:20:23	Syed Haany Ali	St. Mary's Group of Institu	CSE	3	
97	10/26/2019 8:23:13	Tushar Jain	St. Marys Group Of Institu	CSE	3	
98	10/26/2019 8:22:43	Aditya Shetty	St.mary engineering colle	CSE	3	
99	10/26/2019 8:20:52	MD WASIM QUADRI	St.mary's group of institut	CSE	3	
100	10/26/2019 8:22:47		VNR vignana jyothi institu	IT	3	
101	10/26/2019 8:20:21	SAI SARIKA DEVISETTY	VNR VJIET	IT	3	

Professor and Head Department
Department of Computer Science & Engineering
Chaitanya Bharathi Institute of Technology (A)
Gandipet, Hyderabad-500 075.(T.S.)

Srinivas Bangaru <srinivas.bangaru@t-hub.co>

To: Director Incubation & Innovation < director ii@cbit.ac.in>

Cc: "Smt.M.Sangeetha Assistant Professor (C)" <msangeetha sms@cbit.ac.in>

Dear Sir,

As discussed over the phone, Kindly confirm the details given in the trailing mail.

Please do the needful.

Thanks & Regards, B. Srinivas.
[Quoted text hidden]

Director Incubation & Innovation < director ii@cbit.ac.in>

Thu, Jul 29, 2021 at 7:32 PM

Wed, Jul 28, 2021 at 11:05 AM

To: Srinivas Bangaru <srinivas.bangaru@t-hub.co>

Cc: Principal CBIT <principal@cbit.ac.in>

Dear Mr. Srinivas

We are confirming GST and PAN No. They are fine. The Phone No to be changed to . 8466997204. Dr P. Ravinder Reddy is the Principal, CBIT. Regards.

Dr U.K. Choudhury Prof. (I&I) CBIT

[Quoted text hidden]

admin office <accounts@cbit.ac.in>

Fri, Jul 30, 2021 at 10:05 AM

To: Director Incubation & Innovation < director ii@cbit.ac.in>

Dear Sir,

The GST number provided in the above table is correct.

Thanks & Regards, Krutika Atre [Quoted text hidden]

Team Onboarding <onboarding@t-hub.co>

Fri, Jul 30, 2021 at 4:00 PM

To: principal@cbit.ac.in

Cc: Ganesh Rayala <ganesh.rayala@t-hub.co>, Sheshendra Sharma <sharma.as@t-hub.co>, Madhu Sudhan Reddy <madhusudhan.k@t-hub.co>, Srinivas Bangaru <srinivas.bangaru@t-hub.co>, Phani Raju <phani.r@t-hub.co>, director_ii@cbit.ac.in, Placements HEAD <placements@cbit.ac.in>

Hi Dr. P. Ravinder Reddy (Principal CBIT)

Please find attached the Letter of Membership Allotment (LMA) duly signed.

Please ensure payment upon receipt of invoice.

Regards,

Team T-Hub On-boarding

On Fri, Jul 30, 2021 at 9:16 AM Srinivas Bangaru <srinivas.bangaru@t-hub.co> wrote: Dear Phani,

Please find the below details and the attached documents from CBIT. Kindly arrange the LMA & invoice (LaunchPad Membership) at the earliest.

i) Name of Company	Chaitanya Bharathi Institute of Technology
ii) Constitution (Pvt, Ltd, Individual)	Private Education
iii, Company CIN Number (If Individual not applicable)	-NA-
ii) Billing address	Dr. Ravinder Reddy, Principal
	Chaitanya Bharathi Institute of Technology
	Gandipet, Hyderabad, T.S.
	Pin code: 500 075
ii) Member GST Regn No., if applicable	36AABTC1906A1ZG
ii) Billing email id	principal@cbit.ac.in
iii) Paying member name	Chaitanya Bharathi Institute of Technology
iv) Paying member contact no. & email id	8466997204 & principal@cbit.ac.in
v) Bank account cancelled cheque	
vi) PAN	AABTC1906A

Please	do	the	nee	dful.
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Thanks,

Srinivas.

[Quoted text hidden]

__

Sr. Analyst - Admin and Procurement

Corporate Support



DISCLAIMER: This communication is confidential and privileged and is directed to and for the use of the addressee only. The recipient, if not the addressee should not use this message if erroneously received, and access and use of this e-mail in any manner by anyone other than the addressee is unauthorized. The recipient acknowledges that T-Hub may be unable to exercise control or ensure or guarantee the integrity of the text of the email message and the text is not warranted as to completeness and accuracy. Before opening and accessing the attachment, if any, please check and scan for virus. Furthermore, this email is for Information Purposes Only. It does not constitute any kind of commitment, contractual or legal binding, either formal or informal, on behalf of T-Hub. Also, the content of the mail does not necessarily express the views of T-Hub, and may represent an individual's view only in a given context.



LMA TTLP - Chaitanya Bharathi Institute of Technology...pdf 567K

Director Incubation & Innovation <director_ii@cbit.ac.in>

To: admin office <accounts@cbit.ac.in>

Fri, Jul 30, 2021 at 4:10 PM

Fri, Jul 30, 2021 at 5:43 PM

For information. Hope We have paid the membership fee for this year.

Best Wishes. Dr u.K. Choudhury [Quoted text hidden]



LMA TTLP - Chaitanya Bharathi Institute of Technology...pdf 567K

Madhu Sudhan Reddy <madhusudhan.k@t-hub.co>

To: principal@cbit.ac.in

Cc: Ganesh Rayala <ganesh.rayala@t-hub.co>, Srinivas Bangaru <srinivas.bangaru@t-hub.co>, Phani Raju <phani.r@t-hub.co>, director ii@cbit.ac.in, Placements HEAD <placements@cbit.ac.in>

Hi Dr. P. Ravinder Reddy,

Please find the attached invoice for membership renewal. We already sent the payment in a separate mail.

Let me know if you have any requirements.

Thanks

[Quoted text hidden]

--

Madhu Sudhan Reddy

Asst. Manager-Finance & Accounts

Corporate Support, T-Hub

Contact: +91 8341090787











[Quoted text hidden]

Invoice_TH202122061_from_THub_Foundation.pdf

Srinivas Bangaru <srinivas.bangaru@t-hub.co>

Fri, Jul 30, 2021 at 8:20 PM

To: Harshitha Koganti harshitha.koganti@t-hub.co

Cc: Ganesh Rayala <ganesh.rayala@t-hub.co>, Director Incubation & Innovation <director ii@cbit.ac.in>, principal@cbit.ac.in, Placements HEAD <placements@cbit.ac.in>, "Smt.M.Sangeetha Assistant Professor (C)" <msangeetha sms@cbit.ac.in>

Dear Harshitha,

I am glad to inform you that CBIT has renewed T-Tribe LaunchPad Program Membership for the academic year of 2021-22. I request you to connect with Mrs. Sangeetha, Assistant Professor to discuss the program execution plan.

With best regards, B. Srinivas.

[Quoted text hidden]

Harshitha Koganti <harshitha.koganti@t-hub.co>

Tue, Aug 3, 2021 at 6:06 PM

To: Director Incubation & Innovation <director ii@cbit.ac.in>, principal@cbit.ac.in Cc: Ganesh Rayala <ganesh.rayala@t-hub.co>, Srinivas Bangaru <srinivas.bangaru@t-hub.co>, Placements HEAD <placements@cbit.ac.in>, "Smt.M.Sangeetha Assistant Professor (C)" <msangeetha sms@cbit.ac.in>

Dear Sir/Ma'am,

Greetings from T-Tribe!!!

We are glad to know that CBIT College is being a part of the T-Tribe LaunchPad program with the second batch. As we experienced a great participation from the students in our first batch, now we are looking forward to more graduates in this batch. We once again welcome CBIT college to be a part of the T-Tribe LaunchPad program.

As you are aware, **T-Tribe** - Academic Membership Program - is the latest and proud initiative of T-Hub launched with a vision to empower students across the country with entrepreneurship.

How do we plan to achieve this?

We have various expertly curated programs to help aspiring entrepreneurs in every stage of their entrepreneurial journey. One of them is our one-year **Launchpad Program!** By associating with the leading colleges in the country, T-Tribe aims to deliver entrepreneurial content to the students and help them consider entrepreneurship as a career. The Launchpad Program is a perfect amalgamation of theoretical and practical learning that not only enlightens students on the scope of entrepreneurship but also gives them a direction to achieve success in the field.

Why should you choose the Launchpad Program for your students?

The future is looking at more job creators than job seekers. We want the next generation of the country to be able to become successful entrepreneurs by implementing their revolutionary ideas. And their success journey starts with the Launchpad Program.

The following are the key outcomes of the program:

- Certification from T-hub
- Provide a structured approach to entrepreneurship

- Provide an opportunity for student entrepreneurs to assess their ideas and consider entrepreneurship as a career option
- Help colleges to have access to founders, start-ups, corporates, and mentors for students that would help them
 to move towards business viability
- Hone entrepreneurial skill sets

T-Tribe has immense respect for those who encourage the next generation to be independent thinkers, leaders, and competent entrepreneurs. We would like to do everything for you to keep up the good work. T-Tribe is currently associated with **22 colleges**.

We request you to kindly connect a faculty SPOC from your end who will be incharge of this LaunchPad program and further communication can be rolled through them.

For any other queries please write to us.

--Best Harshitha.

[Quoted text hidden]

T-TRIBE

Harshitha Chowdary

Senior Associate | T-Tribe,T-Hub

Contact: <u>+91 9010839295</u> Website: https://t-hub.co

[Quoted text hidden]

3 attachments





LaunchPad Live Project.pdf

Srinivas Bangaru <srinivas.bangaru@t-hub.co>

To: Director Incubation & Innovation < director ii@cbit.ac.in>

Dear Sir,

Greetings from T-Hub!

Hope you are doing well. I request you to update the payment status. If the payment is done, kindly ignore.

Best regards, Srinivas.

[Quoted text hidden]

Wed, Oct 6, 2021 at 10:46 AM

----- Forwarded message ------

From: Srinivas Bangaru <srinivas.bangaru@t-hub.co>

Date: Thu, Jun 10, 2021 at 11:40 AM

Subject: T-Tribe Membeship renewal request

To: Director Incubation & Innovation <director_ii@cbit.ac.in>

Cc: Smt.M.Sangeetha Assistant Professor (C) <msangeetha_sms@cbit.ac.in>

[Quoted text hidden]

3 attachments



T-TRIBE_LAUNCHPAD_PROGRAM.pdf



TRIBE Z PROJECT.pdf 1800K



LaunchPad Module.pdf 99K

Madhu Sudhan Reddy <madhusudhan.k@t-hub.co>

Fri, Nov 12, 2021 at 2:47 PM

To: principal@cbit.ac.in

Cc: director_ii@cbit.ac.in, Placements HEAD <placements@cbit.ac.in>, Srinivas Bangaru <srinivas.bangaru@t-hub.co>

Hi Dr. P. Ravinder Reddy,

We received the payment.

Thank You

[Quoted text hidden]

Director Incubation & Innovation < director ii@cbit.ac.in>

Fri, Nov 12, 2021 at 2:50 PM

To: admin office <accounts@cbit.ac.in>, "Smt.M.Sangeetha Assistant Professor (C)" <msangeetha_sms@cbit.ac.in>, iic@cbit.ac.in

For information.

Dr U.K. Choudhury

[Quoted text hidden]

admin office <accounts@cbit.ac.in>

Fri, Nov 12, 2021 at 3:22 PM

To: Director Incubation & Innovation <director_ii@cbit.ac.in>

Dear Sir,

Thanks for the information

Thanks & Regards, Krutika Atre [Quoted text hidden]

Smt.M.Sangeetha Assistant Professor (C) <msangeetha_sms@cbit.ac.in>

Fri, Nov 12, 2021 at 3:58 PM

To: Director Incubation & Innovation <director_ii@cbit.ac.in>

Okay sir, noted.

Thanks & Regards M Sangeetha



T-Tribe Membeship renewal request

Madhu Sudhan Reddy <madhusudhan.k@t-hub.co>

Fri, Jul 30, 2021 at 5:43 PM

To: principal@cbit.ac.in

Cc: Ganesh Rayala <ganesh.rayala@t-hub.co>, Srinivas Bangaru <srinivas.bangaru@t-hub.co>, Phani Raju <phani.r@thub.co>, director_ii@cbit.ac.in, Placements HEAD <placements@cbit.ac.in>

Hi Dr. P. Ravinder Reddy,

Please find the attached invoice for membership renewal. We already sent the payment in a separate mail.

Let me know if you have any requirements.

Thanks

[Quoted text hidden]



Asst. Manager-Finance & Accounts Corporate Support, T-Hub













[Quoted text hidden]

Invoice_TH202122061_from_THub_Foundation.pdf 55K



T-Tribe Membeship renewal request

Srinivas Bangaru <srinivas.bangaru@t-hub.co>

Mon, Jul 26, 2021 at 2:21 PM

To: Director Incubation & Innovation <director_ii@cbit.ac.in>

Cc: "Smt.M.Sangeetha Assistant Professor (C)" <msangeetha_sms@cbit.ac.in>

Dear Sir,

Greetings from T-Hub!

We are grateful to you for another opportunity to work with you. I request you to check the following details to initiate the LaunchPad program onboarding process:

The details below were provided last year for LMA. If they are okay with you, will initiate the onboarding process.

i) Name of Company	Chaitanya Bharathi Institute of Technology
ii) Constitution (Pvt, Ltd, Individual)	Private Education
iii, Company CIN Number (If Individual not applicable)	-NA-
ii) Billing address	Principal
	Chaitanya Bharathi Institute of Technology
	Gandipet, Hyderabad, T.S.
	Pin code: 500 075
ii) Member GST Regn No., if applicable	36AABTC1906A1ZG
ii) Billing email id	principal@cbit.ac.in
iii) Paying member name	Chaitanya Bharathi Institute of Technology
iv) Paying member contact no. & email id	8466997201 & principal@cbit.ac.in
v) Bank account cancelled cheque	
vi) PAN	AABTC1906A

Please call me for any clarifications.

Best Regards,

B.Srinivas

Team T-Tribe

90004 30055



[Quoted text hidden]



T-Tribe Membeship renewal request

Srinivas Bangaru <srinivas.bangaru@t-hub.co>

Fri, Jul 30, 2021 at 8:20 PM

To: Harshitha Koganti hub.co
Co: Ganesh Rayala <ganesh.rayala@t-hub.co>, Director Incubation & Innovation director_ii@cbit.ac.in>,
principal@cbit.ac.in, Placements HEAD <placements@cbit.ac.in>, "Smt.M.Sangeetha Assistant Professor (C)" <msangeetha_sms@cbit.ac.in>

Dear Harshitha,

I am glad to inform you that CBIT has renewed T-Tribe LaunchPad Program Membership for the academic year of 2021-22. I request you to connect with Mrs. Sangeetha, Assistant Professor to discuss the program execution plan.

With best regards, B. Srinivas. [Quoted text hidden]



Launchpad Program

Nurturing student entrepreneurs across India





Our Partner Colleges













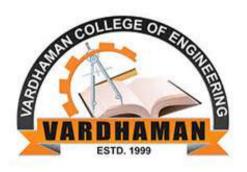






























Program Title	Launchpad	
Execution		
Partner	T-Hub	
S.no.	Module Title	
0	Program Orientation	
0.1	T-Tribe - Objective, Goals, Opportunities	
0.2	Launchpad - Introduction, Phases, Expected Outcome	
1	Entrepreneurship as a Career	
1.1	What is Entrepreneurship?	
1.2	Why Entrepreneurship?	
1.3	Opportunities	
1.4	Breaking Psychology Barriers	
1.5	Skills to be an Entrepreneur	
1.6	Basic Entrepreneurship Terminologies	
2	Design Thinking	
2.1	Understanding Design Thinking	
2.2	Process of Design Thinking	
2.3	Design Solutions	
3	Idea Genration & Innovation	
3.1	Identifying the Problem	
3.2	Understanding Problem	
3.3	Framing problem Statement	
3.4	Framing a solution (Product/ Process)	
3.5	Feasibility of creating the solution	
3.6	Deriving Business Idea	
4	Passion to Compassion (Finding Your Customer)	
4.1	Emotional Intelligence	
4.2	Importance of Failure	
4.3	Motivation and Empathy	
4.4	4.4 Social Skills	
5	Business Model Canvas	
5.1	Understanding BMC	
5.2	Revenue Modeling	
6	Tech Standpoints & Prototyping	
6.1	Current Technological Trends	
6.2	Cost-free Technological Utilities like AWS, Google Analytics etc	
6.3	Selecting appropriate programming language/ frameworks/ databases	
7	Market Research & Marketing Strategies	





7.1	Market analysis, Pricing strategy, Target Determination	
7.2	Competitor Analysis	
7.3	Marketing Strategy Building	
7.4	Sales & Market Plannning	
7.5	S.W.O.T.: Individual, idea & Organisational	
8	Business Communications	
8.1	Verbal	
8.2	Non-verbal	
8.3	Business Writing	
8.4	Art of Pitching	
9	Team Building Essentials	
9.1	Founding Team Development	
9.2	How to choose the right team-mate	
9.3	Personality Types	
10	Leadership & Management	
10.1	Styles of Leadership (Personality Test)	
10.2	Leader DNA & Role	
11	Intellectual Property Rights	
11.1	Trademarks, Patents, Copyrights & Licenses	
12	Money Matters	
12.1	Raising Funds & Understanding Capital	
	Start-up Financing (Income/Expenditure Road map, Mobilising of funds and	
12.2	utilisation)	
12.3	Financial Management & Book-keeping	
	Final Assessment	





This certifies that

Nakka Naga Geetha Krishna

of CBIT has successfully completed the **T-Tribe LaunchPad Program** 2019-20.

The student has performed exceptionally well throughout the program.

Nakka Naga Geetha Krishna has everything that takes to be a successful entrepreneur.

DIRECTOR, ACADEMIC PROGRAMS, T-HUB





This certifies that

Pranavi Nagubandi

of CBIT has successfully completed the **T-Tribe LaunchPad Program** 2019-20.

The student has performed exceptionally well throughout the program.

Pranavi Nagubandi has everything that takes to be a successful entrepreneur.

DIRECTOR, ACADEMIC PROGRAMS, T-HUB





This certifies that

P. Sri Ram

of CBIT has successfully completed the **T-Tribe LaunchPad Program** 2019-20.

The student has performed exceptionally well throughout the program.

P. Sri Ram has everything that takes to be a successful entrepreneur.

DIRECTOR, ACADEMIC PROGRAMS, T-HUB





This certifies that

Byreddy Gnanadatha Reddy

of CBIT has successfully completed the **T-Tribe LaunchPad Program** 2019-20.

The student has performed exceptionally well throughout the program.

Byreddy Gnanadatha Reddy has everything that takes to be a successful entrepreneur.

DIRECTOR, ACADEMIC PROGRAMS, T-HUB





This certifies that

Saikumar Ramavath

of CBIT has successfully completed the **T-Tribe LaunchPad Program** 2019-20.

The student has performed exceptionally well throughout the program.

Saikumar Ramavath has everything that takes to be a successful entrepreneur.

DIRECTOR, ACADEMIC PROGRAMS, T-HUB





This certifies that

Rashmith Reddy Arra

of CBIT has successfully completed the **T-Tribe LaunchPad Program** 2019-20.

The student has performed exceptionally well throughout the program.

Rashmith Reddy Arra has everything that takes to be a successful entrepreneur.

DIRECTOR, ACADEMIC PROGRAMS, T-HUB





This certifies that

Y. Praneeth

of CBIT has successfully completed the **T-Tribe LaunchPad Program** 2019-20.

The student has performed exceptionally well throughout the program.

Y. Praneeth has everything that takes to be a successful entrepreneur.

DIRECTOR, ACADEMIC PROGRAMS, T-HUB





This certifies that

Vallakatti Chetan Mani Chandra

of CBIT has successfully completed the **T-Tribe LaunchPad Program** 2019-20.

The student has performed exceptionally well throughout the program.

Vallakatti Chetan Mani Chandra has everything that takes to be a successful entrepreneur.

DIRECTOR, ACADEMIC PROGRAMS, T-HUB





This certifies that

Vignan Babu Dyavanapelly

of CBIT has successfully completed the **T-Tribe LaunchPad Program** 2019-20.

The student has performed exceptionally well throughout the program.

Vignan Babu Dyavanapelly has everything that takes to be a successful entrepreneur.

DIRECTOR, ACADEMIC PROGRAMS, T-HUB





This certifies that

AdityaVardhan S

of CBIT has successfully completed the **T-Tribe LaunchPad Program** 2019-20.

The student has performed exceptionally well throughout the program.

AdityaVardhan S has everything that takes to be a successful entrepreneur.

DIRECTOR, ACADEMIC PROGRAMS, T-HUB





This certifies that

Vijayendra Vemula

of CBIT has successfully completed the **T-Tribe LaunchPad Program** 2019-20.

The student has performed exceptionally well throughout the program.

Vijayendra Vemula has everything that takes to be a successful entrepreneur.

DIRECTOR, ACADEMIC PROGRAMS, T-HUB





This certifies that

M. Ananda Prasad Rao

of CBIT has successfully completed the **T-Tribe LaunchPad Program** 2019-20.

The student has performed exceptionally well throughout the program.

M. Ananda Prasad Rao has everything that takes to be a successful entrepreneur.

DIRECTOR, ACADEMIC PROGRAMS, T-HUB





This certifies that

G Samhita Reddy

of _____ has successfully completed the **T-Tribe LaunchPad Program** 2019-20.

The student has performed exceptionally well throughout the program.

G Samhita Reddy has everything that takes to be a successful entrepreneur.

DIRECTOR, ACADEMIC PROGRAMS, T-HUB





This certifies that

Patlolla Sandeep Kumar

of CBIT has successfully completed the **T-Tribe LaunchPad Program** 2019-20.

The student has performed exceptionally well throughout the program.

Patlolla Sandeep Kumar has everything that takes to be a successful entrepreneur.

DIRECTOR, ACADEMIC PROGRAMS, T-HUB





This certifies that

Piyush Agarwal

of	CBIT	has successfully completed the T-Tribe LaunchPad Program 2019-20.			
	The student has performed exceptionally well throughout the program.				

Piyush Agarwal has everything that takes to be a successful entrepreneur.

DIRECTOR, ACADEMIC PROGRAMS, T-HUB





This certifies that

P. Himavarshini

of CBIT has successfully completed the **T-Tribe LaunchPad Program** 2019-20.

The student has performed exceptionally well throughout the program.

P. Himavarshini has everything that takes to be a successful entrepreneur.

DIRECTOR, ACADEMIC PROGRAMS, T-HUB





This certifies that

Hrithik Thakur

of CBIT has successfully completed the **T-Tribe LaunchPad Program** 2019-20.

The student has performed exceptionally well throughout the program.

Hrithik Thakur has everything that takes to be a successful entrepreneur.

DIRECTOR, ACADEMIC PROGRAMS, T-HUB





This certifies that

Sathish Malothu

of CBIT has successfully completed the **T-Tribe LaunchPad Program** 2019-20.

The student has performed exceptionally well throughout the program.

Sathish Malothu has everything that takes to be a successful entrepreneur.

DIRECTOR, ACADEMIC PROGRAMS, T-HUB





This certifies that

Charvi Panyala

of CBIT has successfully completed the **T-Tribe LaunchPad Program** 2019-20.

The student has performed exceptionally well throughout the program.

Charvi Panyala has everything that takes to be a successful entrepreneur.

DIRECTOR, ACADEMIC PROGRAMS, T-HUB





This certifies that

S V Muthesham

of _____ has successfully completed the **T-Tribe LaunchPad Program** 2019-20.

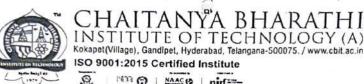
The student has performed exceptionally well throughout the program.

S V Muthesham has everything that takes to be a successful entrepreneur.

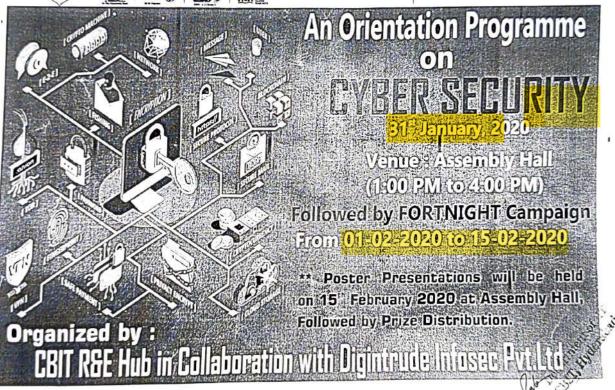
DIRECTOR, ACADEMIC PROGRAMS, T-HUB

Orientation Program on Cyber Security

Head Dept. of IT CBIT, Hyderabad



COMMITTED TO RESEARCH, INNOVATION AND EDUCATION YEARS



Head Dept. of IT CBIT, Hyderabad

CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY (A) rientation Programme on Cyber Se. rity

Attendance Sheet

Venue: Assembly Hall

Date: 31-01-2020

Time: 1:00PM - 4:00 PM

Sl.No	Roll Number	Name	Branch/Section	Mail	Contact	Sign
1	160117737310	D. Manichardana	17-H1	Ugs17310-9t. danduecbity8gi	9642715361	Marchen
2	160117731019	M. Sanjana	IT-HI	usg 17019_it, sanjana@chitorg.in	7995670249	Saujana
3	160117737024	GI-SRAVANI	II-HI	gopaistavani 57 agráil um	97019576	q-braran
4	16011737037	Hasira	IT-HI	hasuna basamagmail.com	9177916237	Hanka
5	160117137015	Salithya Reddy	IT -HI	ugs17015_it.salitya@ebitorgin	7032376751	Dalithy
6	160117737007	,	IT- HI	ugs 17007-it. Jahari @Chit.ogin	6302786011	to
7	160117737308	Haritha Reddy	IT-Hi	ugs 17308_it.govi@cbit.ogn		Harl
8	160117737004		14-72	ugslyoou_it. divisha@cbit.ofgre	9618482200	Tool .
9	160117737010	Multhe	IT-HI	ugs17010_it.mulcha@chit orgin		aulital.
10	160117737003	Deepshika	I7-11	ugs17003 it deepshika@chitogia	8712886896	24
11	160117737023	Spoorthy Reddy	17-H1	ugs 17023 - it spoorthy och!	1866757439	The.
12	1601177137002	Adritha	19-191	ugs 17002-it-ashritha @chilong		S.A
13	160117737026	M. Stulke Keedhi	IT-H)	ugs 17026_it · Stuttakeelling-	7035545644	Gry.
14	160117737018	M. Samvidha reddy	IT- H1	ugs 17016_it. canvidha DEbt		<u> </u>
15	160117737016	K Sai Chandana Amilya	1T-H1	ugs17016_it.sai@cbit.org.in	Control of the Contro	pulled
16	160117737012	S. Prasanna Kumari	IT-H1	ugs17012 it prasanna echilogin		2
17	16017737008	Manogan	IT-HI	ugs 17008_it . magnachit.	1110101111	Review
18	160117737013	Prerana Rajob	IT-H1	ugs 17013 _ it prema Cobit orgin	100	Roshni-
19	160117737014	V. Roshni	1T - H1	ugs 17014 - it rashni @chit orgin	The state of the s	Navolufi
20	160117137030	M. Yogitha Nandini	1T-H1	ugs17030_it.yegitha@cbil orgin	005000000000000000000000000000000000000	Milha

Head Dept. of IT CBIT, Hyderabad

CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY (A)

Attendance Sheet

Venue: Assembly Hall

Date: 31-01-2020

Time: 1:00PM - 4:00 PM

17

SI.No	Roll Number	Name	Branch/Section	Mail	Contact	Sign
1	16017773059	Chitys Shodhaka	ırlı .	ugs17054-it. satap @chit	20E103738	Causely
2	160117737049	Racharla Rahul	25/1	ugs Proya - it Takel Qchit.org.in	91822-0929	Ol-
3	160117737059	Vinil Igumar	IT/I	49517059-iL-Vinil@obil.og		Pelle
4	160117737040	Madan Vrias K	17/1			Mode
5	160117137025	G. SRINIDHI	17/	ugs 17040-11. maden Ochil orgin		gende
6	160117737001	V. APOUR VA	17/1	ugs17001_it.apopqvdachtagin		4 ports
7	160116737012	V. Loncali	27/1	49518012-it. Komali Quiti nie	9515097235	Yang:
8	16016 737059	Ventata Sentosh	I7/1	rgs 16 org it . vontde Debit	\$3 28537013	Cane
9	160112737042	Nishlaath	IT 11 -	ugs 17 0 49_ Michtherth@chill ario	1989607689	Eline
10	160117737038.	Hemanth	177	Ugs 17038_it-hemouth@chit-orgi	9542824168	©
11	160117737048	5-Raginseriora	IT-1	181 170 48 - it . symile cottos;	62206130	Rober
12	160117737034	Arun Ry	エーブ	0917034-it. onun@chit org. D	9000 27 411 5	Down Raj
13	160117737039	Kranth	21-1	US) HO 39-it . Kranti@ dit cogio	2013701137	Det
14	1601177 3 7047	Prafik Lahoti	IT-1	09517047-it-proft@coit cog-19	72888311	Partik
15	160117237037	Hersha Vardhan	II-1	09517037-it. Krshodit onin	9177916237	Xanon
16	16011 7737052	Socra Sui Pakash	77-1	1951 1705 2-it Japan @C6+109.D	978054502°	- 5
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18	16011 77 37205	Phanendra	I7-1	ugs 17305-it. Monnit Cobitosin	9381160648	Primiadre
19	160117737049	Rahul	27-1	095 17049-it shu@cstorin	703217234	Rahuli
20	16,1177 37031	Dahm	25-1	1917031-it noten@Chit cosin	9033622219	Achie
21	160117737041	Mantdeep	jt-1	Ugs 17041 - It anniday a chitos	1 in 7416262855	ا طبخته
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Head Dept. of II CBIT, Hyderabad

CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY (A) crientation Programme on Cyber Sec. rity

Attendance Sheet

Venuc: Assembly Hall

Date: 31-01-2020

Time: 1:00PM - 4:00 PM

SLNo	Roll Number	Name	Branch/Section	Mail	Contact	Sign
1	160117737072	NIKHITA	IT 2	mikt, cgs17072-if milita Pekilgi	1860392345	B
2	160117737071	Neha	IT 2	09817071_it. nela @chitagia	709574976	SER
3	160117737075	Pocetta	IT 2	ugs1705 - it. putte @det	9490117902	ProtheGal
4	160117727066	Apoolua	7.7 2	Ugs17066 -it aporma edit	7674867566	Aren
5	160 11 7737072	Nissi	IT 2	ogs17073 - it nissiculit	9000110430	Nie
6	16011 7737082	Navya	TT 2	ugs 17092_ it. ranga@dit	1 8 66 4 85 33 7	Mada
7	160117737069	Heghana	IT 2	Ugs17069_it.reglarectil	100004555	FUR
8	16011737065	Vaishnaui	TT-2	ugs 17020-ch and a Daity	7013291429	P. A. Wish
9	160117737321	R. Popitha	1+2	19517021-71. pool Karchit	95/3921648	Poojik
10	16017737063	Alankaudha	T.S - 2	une 17063-11 aboloutheedita	4 9182968225	Atal.
11	160117737 078	Saadhana	IT-2	ugs17063_it.saadham@chita	\$309316119	In.
12	160117737083	C. Swetha	17-2	ugs17083_it-swetta@sbitos	in 7673992380	Swether.
13	160117737062	R. Adiff	15-2	ugs13062 Stradition the og		
14	160117737016	ch Jyoth?	IT-2	ugs 17086_it. vertateachitag.	in 7702746836	th
15	160117737313	tt-shivani	IT-2	ugs 17813-it hamilpun och tion	9908587610	Given.
16	160117737068	K BLESSY	172	ugs 17068 _it.blessy@cbiling	9642564375	Blerry
17	160 1177 37002	Ashirth	ITI	ug 17002 - it shitte iht og.	9555622291	A
18	1601177 37120	Zdnaib	17-2	ugi 17120-it. Zoharb.	95536220	2 m
19	16017737372	Banu Teja	TT_2	Ugs 17322-it teja Ochit.	9133556286	1000
20	160117737320	M. Svidhall good	27-2	Ugs17320-11.57idha	703649000	Buch

Head Dept. of IT CBIT, Hyderabad

CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY (A)

Wrientation Programme on Cyber Sectity

IT

Attendance Sheet

Venue: Assembly Hall

Date: 31-01-2020

Time: 1:00PM - 4:00 PM

Sl.No	Roll Number	Name	Branch/Section	Mail	Contact	Sign
1	087	Abdullah	1			
2	160113133712	K V Srinivas	IT-2 .	Ligs 17115_it.venkuta@	9666692402	Ding
3	160117737084	G. Vaishravi Devi	17-2	vaishnaviquijari@gmail.com	8074224601	William .
4	160117737110	S. Sathvik	IT-2	sathri185@ grail com	8809378219	oll.
5	160117737112	P. Suman Th	IT-1	9 ugs 17112-it. SumanThe	मे १८०४ ५ १५१६	30
6	16011737315	R. Witeech Bhorgan	TT-2	niteshbhonow 60 gmil.com	7673912012	atests
7	160117737314	Arhil Bondery	17-2	Ugs 17314_it.axhil@chitery	766018 0098	shipt.
8	160117137070	B. Meghanaa	M-2	ugs 19030-it metaralectitos	9121173647	B. Mefron
9	160117737109	K. Sanjay kumar	\T-2	ugs17109_it-sanjay@cbit-og-in	8 309643209	k. Swy 4
10	6011131114	P. Vinay	IT-2	49 SITIIT_it.yinay@chit.orgiin	9182419035	one
11	1601773788	Adreb	17-2-	49117089-it. adub@cbitogi	9.121501113	Adem
12	16011472992	Gagan	19-2	uga 7092-it gayan Ochitrogic	9712693162	¥~_
13	160117737113	Hyder	17-2	ugs 17113 - 16 hydu Ochtorin		Au
14	1601177 37323	Kingus Mushfig	2	Ug117323-16-mushfalditor	9492083534	HUHE
15	160117737075	Hemanth	2	ugs 17095_it. Lement @dog.		Henry
16	160117737098	Moksh	2	y s 17098 it mobile littory in		America
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19	16017737077	M. Rajini	IT-2	referangs17077 it rajin Octitory	8639670133	M. Rajin
20	160119737079	ch bruja	17-112	ugs17079_it. sreeja@cbit.org.le	8340902720	sruja
21 22 23		I Pavan Kalyan Proeethivasdhan KAnudeep	IT-2 IT-2 IT-1	ugs17100-it.pavan@cblteon :	The allottations	\$0.

Head Dept. of IT CBIT, Hyderabad

CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY (A) Prientation Programme on Cyber Scarity

IT

Attendance Sheet

Venue: Assembly Hall

Date: 31-01-2020

Time: 1:00PM - 4:00 PM

** ***				Time: 1:00PM - 4:0	o I m
Roll Number	Name	Branch/Section	Mail	Contact	Sign
160117737108	K. Salcharas	TT LH2	KERRALARY (at charas Dans)	93092/200	100
16017737116	G. Vikas				
160112232099	V. Niling Reddy				MA
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160117737094	N. Harshit. Run				
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ad Dept. of IT CBIT, Hyderabad

TITLE OF THE VALUE ADDED COURSE:

Indian Constitutional Values

COURSE CODE:

CBIT/19EGV06

ACADEMIC YEAR:

2019 - 20

TARGET PARTICIPANTS:

Final Year Students - VII

DURATION OF THE COURSE:

40 hours/ 10 weeks

CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY-(A) HYDERABAD -75 DEPARTMENT OF ENGLISH

INDIAN CONSTITUTIONAL VALUES

Course Code: CBIT/19EGV06

Instruction Hours

3 Hours Per Week

CIE

50 Marks

Course Objectives

The course will introduce the students to:

- History of making Indian Constitution and how it reflected the social, political and economic aspirations of Indian society.
- 2. Fundamental Rights, Duties and Directive Principles of State Policy.
- 3. Composition and functions organs of Government and Local Administration.

Course Outcomes

After successful completion of the course the students will be able to:

- 1. Understand the making of the Indian Constitution and its features.
- 2. Evaluate the realisation of fundamental rights and directive principles of state policy.
- 3. Analyse the emerging challenges to federal system in the country and position of President in Union Government.
- 4. Underline the relation between the Legislature and Judiciary.
- 5. Differentiate between the functions underlying Municipalities and Panchayats.
- 6. Apply the knowledge of Indian Constitution to real-life or professional situation for better civic society.

Unit-I

Constitutional History and Framing of Indian Constitution

East India Company Rule (1757-1857): Regulating Acts and Charter Acts, Social, Economic and Political impact of Company rule. Constitutional History (1858-1947): Indian Council Acts, Indian National movement and Government of Indian Acts 1909, 1919, 1935 and 1947.

Framing of Indian Constitution: Constituent Assembly, Preamble and Salient Features.

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Unit-II

Fundamental Rights, Duties and Directive Principles of State Policy

The Fundamental Rights – Importance of Rights and restrictions on Rights. Fundamental Duties—the legal status. Directive Principles of State Policy – Features and importance.

Unit-III

Union Government and its Administration

Structure of the Indian Union: Federalism-Legislative and Financial Relations, Union Executive-Role and Position of President. Emergency Provisions: National Emergency, Constitutional Emergency and Financial Emergency.

Unit-IV

Union Legislature and Judiciary

Union Legislature: Parliament of India-Composition and functions, Parliamentary Committees. Union Judiciary: Supreme Court of India-Composition and Functions, Judicial Review and Judicial Activism.

Unit-V

Local Self Governments

Rural Local Governments: 73rd Constitution Amendment Act, ZillaPanchayat-Chairperson, CEO, and functions of ZillaPanchayat, MandalParishad- Role of Elected and Officials, Gram Panchayat- Sarpanch, Secretary and Gram Sabha.Urban Local Governments: 74th Constitutional Amendment Act-Municipalities and Municipal Corporations, Chairperson/Mayor, Commissioner and Standing Committees. District Collector: Role in District Administration.

Text Books:

- 1.Indian Government & Politics, Ed Prof V Ravindra Sastry, Telugu Akademy, 2nd edition, 2018.
- 2. Indian Constitution at Work, NCERT, First edition 2006, Reprinted in 2022.

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Suggested Reading:

- 1. D.D. Basu, Introduction to the Constitution of India, Lexis Nexis, 2015.
- 2. Dr. S. N. Busi, Dr. B. R. Ambedkar, Framing of Indian Constitution, 1st Edition, 2015.
- 3. Granville Austin, The Indian Constitution: the Cornerstone of a Nation, OUP, 2nd Edition 1999
- 4. M.V. Pylee, India's Constitution, S. Chand Publishing, 16th Edition, 2017
- 5. Rajeev Bhargava (ed), Politics and Ethics of the Indian Constitution, OIP, 2009

Online Resources:

1. http://www.nptel.ac.in/courses/103107084/Script.pdf

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CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY (A)

Department of English

CIRCULAR *****

Date: 29.06.2019

This is to inform all the VII Semester students that the department of English is offering the Value -Added course Indian Constitutional Values – CBIT/19EG V06 from 01.07.2019. The interested students can register in the Department of English.

Expected Outcomes of the Course:

To sensitize the students towards the significance of our Constitution.

To make the students aware of various relevant constitutional codes.

To make the students understand the value and importance of constitution in our life.

Duration: 40 hours

Head

Department of English

CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY- HYDERABAD -75 DEPARTMENT OF ENGLISH

Time Table, Academic Year: 2019-20

SEM-VII Indian Constitutional Values CBIT/19EGV06

Room No :K 303

Name Of The Faculty: Mr. Vare Lakshman

Time Day	9.10 -10.10	10.10- 11.10	11.15-12.15		1.00-2.00	2.00-3.00	3.05-4.05
MON				L U			
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WED				Н		i i	
THU	B2 CSE2	В	B1 CSE1		B3 CSE	CHEM	3B4 , BIOTECH
FRI	B1 CSE1	B2 CSE2			3B4 CHEM, BIOTECH	ir	B5 1 ,IT 2
SAT	B5 IT 1 ,IT 2	В	3 CSE 3				

Time Table In-charge

HoD Dept of English

TITLE OF THE VALUE ADDED COURSE:

Indian Constitutional Values

COURSE CODE:

CBIT/19EGV06

ACADEMIC YEAR:

2019 - 20

TARGET PARTICIPANTS

Final Year Students - VIII

DURATION OF THE COURSE:

40 hours/ 10 weeks

CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY (A)

Department of English

CIRCULAR

Date: 14.12.2019

This is to inform all the VII Semester—students that the department of English is offering the Value -Added course Indian Constitutional Values — CBIT/19EG V06 from 16.12.2019. The interested students can register in the Department of English.

Expected Outcomes of the Course:

To sensitize the students towards the significance of our Constitution.

To make the students aware of various relevant constitutional codes.

To make the students understand the value and importance of constitution in our life.

Duration: 40 hours

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Head

Department of English

CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY- HYDERABAD -75 DEPARTMENT OF ENGLISH

Time Table, Academic Year: 2019-20

SEM: VIII Sem Indian Constitutional ValuesCBIT/19EGV06

NAME OF THE FACULTY: Mr. V.Lakshman

Time Day	9.10 -10.10	10.10-11.10	11.15- 12.15		1.00- 2.00	2.00-3.00	3.05-4.05
MON							
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Time Table In-charge

HoD Dept of English

CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY- HYDERABAD -75 DEPARTMENT OF ENGLISH

Time Table, Academic Year: 2019-20

SEM-VIII, Indian Constitutional ValuesCBIT/19EGV06

Name Of The Faculty: Dr. N.Madhunmadhu_english@cbit.ac.innmadhu_english@cbit.ac.in

Time Day	9.10 - 10.10	10.10-11.10	11.15-12.15		1.00-2.00	2.00-3.00	3.05-4.05
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Time Table In-charge

HoD

Dept of English

(9)	Subject: Indian Constitutional	
	Values	
	Code: CBIT/19EGV06 2019 -	
	20	ODD SEM TOTAL=431
S.No	NAME	ROLL NUMBER
	VII SEM C	CSE -1
1	BEULAH K	1601-16-733-001
2	HEPHZIBAH S	1601-16-733-002
3	JEEVANA D	1601-16-733-003
4	KRISHNAVENI R	1601-16-733-004
5	LAVANYA K	1601-16-733-005
6	MADHURI G	1601-16-733-006
7	MANEESHA REDDY G	1601-16-733-007
8	MEGHANA REDDY CH	1601-16-733-008
9	NAVYA G	1601-16-733-009
10	PRASHANTI K	1601-16-733-010
11	PREETHI K	1601-16-733-011
12	SATYA PARIMALA R	1601-16-733-012
13	SHALINI K	1601-16-733-013
14	SHIVANI C	1601-16-733-014
15	SHIVANI D	1601-16-733-015
	SIREESHA J	1601-16-733-016
,	SPANDANA K	1601-16-733-017
	SRIPRIYA S	1601-16-733-018
	SUMANJALI	1601-16-733-019
-	USHA RANI B	1601-16-733-020
	MAHITHA R	1601-16-733-021
	AKASH S	1601-16-733-022
	ANIRUDH REDDY G	1601-16-733-023
	CHANDRAMOULI P	1601-16-733-025
	DEVARAJ N	1601-16-733-026
	GAURAV CHOWDARY P	1601-16-733-027
	GOUTHAM A	1601-16-733-028
	GOWTHAM REDDY A	1601-16-733-029
	HARSHAVARDHAN CH	1601-16-733-030
	HARSHITH M	1601-16-733-031
F	KARTHIK GOUD B	1601-16-733-032
	MALDANNA K	1601-16-733-034
	MOHAMMAD MAHABOOB	1601-16-733-036
	NALIN RAJ G	1601-16-733-037
	NIKITH R	1601-16-733-038
	PAVAN KUMAR REDDY K	1601-16-733-039
37	PRADEEP KUMAR T	1601-16-733-040
38	PRADEEP P	1601-16-733-041
39	PRANAV D	1601-16-733-042
10	PRASAD SAKHAMURU K	1601-16-733-043
1	PRASHANTH S	1601-16-733-044
12	RAHUL M	1601-16-733-045
13	SAHAS REDDY M	1601-16-733-046
14	SAI AJAY KUMAR V	1601-16-733-047

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45	SAI GNANA GUNA SAGAR J	1601-16-733-048
46	SAI KRISHNA ANUDEEP A	1601-16-733-050
47	SAI KRISHNA CH	1601-16-733-051
48	SAICHARAN V	1601-16-733-052
49	SHAIK JUNAID MOHAMMAD	<u> </u>
50	SIDDHARTHA A	1601-16-733-054
51	SRI NARASIMHA NIHANTH	1601-16-733-055
52	SUBHASH V V S S	1601-16-733-057
53	SUCHANDRANATH B	1601-16-733-058
54	SYED NAYAZ MOINUDDIN	1601-16-733-059
55	YOGESH L	1601-16-733-060
56	JAAHNAVI GOLI	1601-16-733-181
57	U VEDA PRIYA	1601-16-733-184
58	KUDALA SUMEERAJA	1601-16-733-301
59	SUKKA PRASHANTH	1601-16-733-302
50	KOLIPAKA SAGAR	1601-16-733-303
51	CHANDANALA NISHANTH	1601-16-733-304
52	NALLABOTHULA SWETHA	1601-16-733-306
53	KADARI ROHITH	1601-16-733-307
54	ANTHARVEDI	1601-16-733-308
55	POTTALA BHARATHI	1601-16-733-310
56	ESLAVATH NAGALAXMI	1601-16-733-311
57	MAMIDALA SRIKANTH	1601-16-733-312
58	HEMANTH SURYA THEJA CH	
	VII SEM (CSE -2
	ANEES FATIMA KHAN	1601-16-733-061
2	BAVYA SRI J	1601-16-733-062
3	BHAVYA P	1601-16-733-063
<u> </u>	JAGATH DEEPTHI B	1601-16-733-067
	LIKHITHA CH	1601-16-733-068
5	MONIKA P	1601-16-733-069
7	NIDHI VRAJ S	1601-16-733-070
}	ROSHINI REDDY M	1601-16-733-071
)	SAAKSHI GUPTA	1601-16-733-072
0	SAI SAHITI CH	1601-16-733-072
1	SATYASRILAKSHMI V	1601-16-733-074
	SWATHI M	1601-16-733-074
.2	VENKATA SAIMEGHANA S	1601-16-733-075
4	VINUTHNA REDDY M	1601-16-733-077
5	LALITHA T	1601-16-733-078
.6	SAI CHANDANA G	1601-16-733-079
.7	ADITYA K	1601-16-733-080
8	AKHIL KRISHNA CH	1601-16-733-081
9	AMMAR MOHAMMED	1601-16-733-082
20	ANIL KUMAR K	1601-16-733-083
1	AYYAPPA REDDY K	1601-16-733-084
22	CHANAKYA PHANINDRA G	1601-16-733-085
23	DATTA SAI TANUJ V	1601-16-733-086
24	DEEKSHITH RAO V	1601-16-733-087 Head
		Head Dept. of English CBIT (A), Hyderabad-7

26 HAMSA RAJ T 1601-16-733-090 27 HARSHA N 1601-16-733-092 28 JACOB ABHISHEK T 1601-16-733-093 29 ABHISHEK JAISWAL C 1601-16-733-094 30 MANIKANTH REDDY M 1601-16-733-095 31 MOHAMMED SYED AKBAR 1601-16-733-096 32 NAGA OMKAR P 1601-16-733-097 33 NEHITH YADAV B 1601-16-733-101 35 RAVI THEJA M 1601-16-733-102 36 ADITHYA K N G 1601-16-733-103 37 SAI MANIDEEP S 1601-16-733-105 38 SAITEJA R 1601-16-733-105 39 SATVIK KALYAN G 1601-16-733-106	
28 JACOB ABHISHEK T 1601-16-733-093 29 ABHISHEK JAISWAL C 1601-16-733-094 30 MANIKANTH REDDY M 1601-16-733-095 31 MOHAMMED SYED AKBAR 1601-16-733-096 32 NAGA OMKAR P 1601-16-733-097 33 NEHITH YADAV B 1601-16-733-099 34 RAMESH M 1601-16-733-101 35 RAVI THEJA M 1601-16-733-102 36 ADITHYA K N G 1601-16-733-104 37 SAI MANIDEEP S 1601-16-733-104 38 SAITEJA R 1601-16-733-105 39 SATVIK KALYAN G 1601-16-733-106	
29 ABHISHEK JAISWAL C 1601-16-733-094 30 MANIKANTH REDDY M 1601-16-733-095 31 MOHAMMED SYED AKBAR 1601-16-733-096 32 NAGA OMKAR P 1601-16-733-097 33 NEHITH YADAV B 1601-16-733-101 34 RAMESH M 1601-16-733-102 35 RAVI THEJA M 1601-16-733-102 36 ADITHYA K N G 1601-16-733-103 37 SAI MANIDEEP S 1601-16-733-104 38 SAITEJA R 1601-16-733-105 39 SATVIK KALYAN G 1601-16-733-106	
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31 MOHAMMED SYED AKBAR 1601-16-733-096 32 NAGA OMKAR P 1601-16-733-097 33 NEHITH YADAV B 1601-16-733-099 34 RAMESH M 1601-16-733-101 35 RAVI THEJA M 1601-16-733-102 36 ADITHYA K N G 1601-16-733-103 37 SAI MANIDEEP S 1601-16-733-104 38 SAITEJA R 1601-16-733-105 39 SATVIK KALYAN G 1601-16-733-106	
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36 ADITHYA K N G 1601-16-733-103 37 SAI MANIDEEP S 1601-16-733-104 38 SAITEJA R 1601-16-733-105 39 SATVIK KALYAN G 1601-16-733-106	
37 SAI MANIDEEP S 1601-16-733-104 38 SAITEJA R 1601-16-733-105 39 SATVIK KALYAN G 1601-16-733-106	
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39 SATVIK KALYAN G 1601-16-733-106	
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40 OTTAN LOUIS OTTAN DE LE	
40 SHARATH CHANDRA B 1601-16-733-107	
41 SHIVA RITHIK REDDY Y 1601-16-733-108	
42 SHIVAM GUPTA 1601-16-733-109	
43 SRUJITH RAO A 1601-16-733-110	
44 SURYAS 1601-16-733-111	
45 SUSHANTH KUMAR P 1601-16-733-112	
46 VENKATA ASHOK REDDY K 1601-16-733-113	
47 VENKATSAI K 1601-16-733-114	
48 VINEEL CH 1601-16-733-115	
49 VINEETH KUMAR A 1601-16-733-116	
50 VINEETH REDDY S 1601-16-733-117	
51 VISHAL V 1601-16-733-118	
52 YASHWANTH G 1601-16-733-119	
53 YASHWANTH REDDY K 1601-16-733-120	
54 PALREDDY DHARANISH 1601-16-733-182	
55 SURAM SAIHITH REDDY 1601-16-733-185	
56 P UDAY KUMAR 1601-16-733-313	
57 A SAI CHANDER 1601-16-733-314	
58 C JAYA CHANDRA KANTH 1601-16-733-315	
59 DAROOR SHARATH KUMAR 1601-16-733-316	
60 MOHAMMED 1601-16-733-317	
61 GUNNALA SRINATH 1601-16-733-318	
62 A.SAI SREE LASYA 1601-16-733-319	
63 MEDAM ANIL KUMAR 1601-16-733-320	
64 AMGOTH RAJU 1601-16-733-321	
65 MORAMPUDI MANISH 1601-16-733-322	
66 ESAMPALLY SWETHA 1601-16-733-323	
67 MOHAMMED ANAS ASHFAQ 1601-15-733-095	
68 MOHAMMED ABDUL 1601-14-733-102	}
69 G ANITHA 1601-13-733-064	
VII SEM CSE -3	
1 ABHIJNA D 1601-16-733-121	
2 ALEKHYA RAO V 1601-16-733-122	
3 DEVIKA M 1601-16-733-125	
4 HARIKA SANTHOSHI P 1601-16-733-126	

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6	HARIPRIYA R	1601-16-733-128
7	HARSHITHA PATEL V	1601-16-733-129
8	HARSHITHA REDDY T	1601-16-733-130
9	LAVANYA K	1601-16-733-131
10	MINI DEVAYANI D	1601-16-733-132
11	MRUDULA U	1601-16-733-133
12	NEHA AFROSE	1601-16-733-134
13	PRATHYUSHA K	1601-16-733-135
14	PRIYANKA GANDHI P	1601-16-733-136
15	SAI HARIKA B	1601-16-733-137
16	SANDHYA K	1601-16-733-137
17	SHARVANI M	1601-16-733-138
18	SHIVANIN	1601-16-733-140
19	SHIVANIV	1601-16-733-141
20	SHREYA RAJ K	1601-16-733-141
$\frac{20}{21}$	SNIGDHA PRIYA T	1601-16-733-142
22	SRAVANTHI A	1601-16-733-144
23	SREEVANI D	
23 24	SRISAIBHAVYA REDDY G	1601-16-733-145 1601-16-733-146
23 25	SUBHASRI R	1601-16-733-147
$\frac{25}{26}$	TAMEEMA FARHEEN	1601-16-733-147
27	TEJASVI A	
28	VAISHNAVI P	1601-16-733-149
29 29	ANURAG D	1601-16-733-150
30	ANURAG M	1601-16-733-151 1601-16-733-152
31	AVINASH L	
32	BHANU TEJA K	1601-16-733-153
33	DILEEP B	1601-16-733-154
34	GANESH A	1601-16-733-155
35	HEMANTH REDDY S	1601-16-733-156
36	MANISH BHUSHAN P	1601-16-733-157
37	MOHAMEMD HASIBUDDIN	1601-16-733-158
38		
39 39	MOHAMMED AQIB NITHISH REDDY A	1601-16-733-160
40	OMAR AHMED	1601-16-733-161
1 0	PRANAY M	1601-16-733-162
+1 42	PRANEETH N	1601-16-733-163
+2 43		1601-16-733-164
+3 44	PRASHANTH KUMAR K SAI KIRAN CH	1601-16-733-165
14 15	SAI KOUSHIK G	1601-16-733-166
		1601-16-733-167
16	SAI VEERA VENKATA	1601-16-733-168
17	SANGEETH R	1601-16-733-170
18	SHANTAN T	1601-16-733-171
1 9	SOHAIL QURESHI	1601-16-733-172
50	SRIKRISHNA PRADEEP J	1601-16-733-173
1	SRINIVAS M	1601-16-733-174
52	SURAJ KUMAR J	1601-16-733-175
3	SYED SHAKEEB ASSIL	1601-16-733-176
4	TAMIZ B	1601-16-733-177
55	VENKATA RAHUL G	1601-16-733-178 Head
		Quuy Head Dept. of English CBIT (A), Hyderabad-7

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	56	YASHWANTHE	

1601-16-733-179



YESHWANTH RAO B	1601-16-733-180
RAYUDU ROHIT SRIKAR	1601-16-733-187
DAMERA LAXMAN RAJ	
SINGIRIKONDA ROHITH	1601-16-733-325
	1601-16-733-326
	1601-16-733-327
	1601-16-733-328
BANDI NEWVEELA	1601-16-733-329
PENTHALA SRAVAN	1601-16-733-330
NITTURI SWASTHIK	1601-16-733-332
SHASHI KUMAR GUNDAL	100110,000
MANKALI PRABHANDHA	
SURIGI SADHANA	1601-16-733-335
PENDYALA NAVYA SREE	
SACHETH REDDY M	1601-15-733-163
N SHANTHAN RAO	1601-15-733-171
	EM IT -1
ANUSHA SAI K	1601-16-737-001
ARUNA P	1601-16-737-002
DÏXITHA K	1601-16-737-003
FAHMIDA MAHMOOD	1601-16-737-004
GOUTHAMI V	1601-16-737-005
GOWTHAMI RADHA A	1601-16-737-006
HARITHA CHOWDARY D	1601-16-737-007
HARSHYATHI REDDY Y	1601-16-737-008
HASWIKA B	1601-16-737-009
KHUSHBHU JINDAL	1601-16-737-010
KHYATI P	1601-16-737-011
LAKSHMI HARIKA G	1601-16-737-013
MAHIMA DEVI A	1601-16-737-014
MEGHANA S	1601-16-737-015
MITHULA REDDY S	1601-16-737-016
NIKITHA K	1601-16-737-017
NIKITHA K	1601-16-737-018
PALLAVI REDDY B	1601-16-737-019
PRANAVI M	1601-16-737-020
ROSHNI G	1601-16-737-021
SHREYA RAO N	1601-16-737-022
SONA G	1601-16-737-022
SONI G	1601-16-737-024
ANANTHA ROHAN P	
SONIKAA SAII LAKSHMI P SPANDANA C SRAVANTHI M SREE LEKHA D SRINIKITHA N SUSHMA K VARSHITHA CH YASHASWI K AASHRITH S ANANTHA ROHAN P	1601-16-737-025 1601-16-737-026 1601-16-737-027 1601-16-737-028 1601-16-737-030 1601-16-737-031 1601-16-737-032 1601-16-737-033 1601-16-737-034

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36 DATTUREDDY M 1601-16-737-037 37 HARI HARAN R 1601-16-737-038 38 JAGADEESHWAR REDDY K 1601-16-737-039 38 JAGADEESHWAR REDDY K 1601-16-737-040 40 KUSHAL REDDY P 1601-16-737-041 41 MANIDEEP CH 1601-16-737-042 42 MOHAMMED ZIAUDDIN 1601-16-737-043 43 NEELKANTH P 1601-16-737-044 44 NIKHIL KUMAR V 1601-16-737-045 45 NITHINREDDY L 1601-16-737-046 46 PRABHAS CHAKRAVARTHY 1601-16-737-046 47 PRANAV SAI M 1601-16-737-048 48 RAHIUL REDDY B 1601-16-737-049 49 ROHAN B 1601-16-737-050 50 SAI KUMAR GOUD V 1601-16-737-051 51 SAI SANDEEP VARMA M 1601-16-737-052 52 SAIJANARDHAN REDDY R 1601-16-737-054 54 SANTOSH REDDY T 1601-16-737-055 55 SATISH T 1601-16-737-056 56 SESHA SAI HEMANTH K 1601-16-737-058 58 VENKATA VAMSI M 1601-16-737-058 58 VENKATA VAMSI M 1601-16-737-058 59 ANUSHA M 1601-16-737-058 50 ANUSHA M 1601-16-737-058 50 ANUSHA M 1601-16-737-059 50 ANUSHA M 1601-16-737-059 50 ANUSHA M 1601-16-737-050 50 ANUSHA M 1601-16-737-050 50 ANUSHA M 1601-16-737-050 50 ANUSHA M 1601-16-737-058 50 ANUSHA M 1601-16-737-058 50 ANUSHA M 1601-16-737-058 50 ANUSHA M 1601-16-737-060 60 ANUSHA M 1601-16-737-305 60 ANUSHA M 1601-16-737-305 60 ANUSHA M 1601-16-737-305 60 ANUSHA M 1601-16-737-306 60 ANUSHA M 1601-16-737-307 60 60 ANUSHA M 1601-16-737-307 60 60 ANUSHA M 1601-16-737-307 60 60 ANUSHA M 1601-16-737-306 60 ANUSHA M 1601-16-737-062 60 ANUSHA M 1601-16-737-064 60 ANUSHA M 1601-16-737-067 70 70 70 70 70 70 70	35	BHARGAV RAMANUJA	1601 16 727 006
37 HARI HARAN R 1601-16-737-038		·	1601-16-737-036
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SIRAN B 1601-16-737-040			!
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49 ROHAN B 1601-16-737-050 50 SAI KUMAR GOUD V 1601-16-737-051 51 SAI SANDEEP VARMA M 1601-16-737-052 52 SAIJANARDHAN REDDY R 1601-16-737-053 53 SAIKIRAN D 1601-16-737-054 54 SANTOSH REDDY T 1601-16-737-055 55 SATISH T 1601-16-737-056 56 SESHA SAI HEMANTH K 1601-16-737-057 57 SRINIVAS G 1601-16-737-058 58 VENKATA VAMSI M 1601-16-737-068 59 ANUSHA M 1601-16-737-123 60 YANANYA 1601-16-737-124 61 KESARI YESHWANT REDDY 1601-16-737-301 62 SAKINALA AJAY 1601-16-737-302 63 M KEERTHANA REDDY 1601-16-737-305 64 G LINGAM 1601-16-737-305 65 GUJJA MACHENDAR 1601-16-737-306 66 KORE SUMAN 1601-16-737-308			
SAI KUMAR GOUD V			
SAI SANDEEP VARMA M			
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61 KESARI YESHWANT REDDY 1601-16-737-301 62 SAKINALA AJAY 1601-16-737-302 63 M KEERTHANA REDDY 1601-16-737-303 64 G LINGAM 1601-16-737-305 65 GUJJA MACHENDAR 1601-16-737-306 66 KORE SUMAN 1601-16-737-307 67 M VENU KUMAR 1601-16-737-062 2 BHAVANA J 1601-16-737-063 3 CHARITHA T 1601-16-737-064 4 HARIKA S 1601-16-737-065 5 HYNDAVI V 1601-16-737-066 6 KEERTHI A 1601-16-737-067 7 LAKSHMI AISWARYA J 1601-16-737-068 8 LIKHITHA T 1601-16-737-069 9 MADHURI E 1601-16-737-070 10 NAAZNEËN KAUSER 1601-16-737-071 11 NIKITHA CH 1601-16-737-072 12 NISHITHA G 1601-16-737-073 13 SAI DIVYA M 1601-16-737-075 15 SAI NIKHITA N 1601-16-737-076			
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66 KORE SUMAN 1601-16-737-307 67 M VENU KUMAR 1601-16-737-308 VII SEM IT -2 1 AKAANKSHA M 1601-16-737-062 2 BHAVANA J 1601-16-737-063 3 CHARITHA T 1601-16-737-064 4 HARIKA S 1601-16-737-065 5 HYNDAVI V 1601-16-737-067 6 KEERTHI A 1601-16-737-067 7 LAKSHMI AISWARYA J 1601-16-737-068 8 LIKHITHA T 1601-16-737-079 9 MADHURI E 1601-16-737-070 10 NAAZNEEN KAUSER 1601-16-737-071 11 NIKITHA CH 1601-16-737-072 12 NISHITHA G 1601-16-737-074 14 SAI MONA D 1601-16-737-075 15 SAI NIKHITA N 1601-16-737-076		1	
67 M VENU KUMAR 1601-16-737-308 VII SEM IT -2 1 AKAANKSHA M 1601-16-737-062 2 BHAVANA J 1601-16-737-063 3 CHARITHA T 1601-16-737-064 4 HARIKA S 1601-16-737-065 5 HYNDAVI V 1601-16-737-066 6 KEERTHI A 1601-16-737-067 7 LAKSHMI AISWARYA J 1601-16-737-068 8 LIKHITHA T 1601-16-737-070 10 NAAZNEEN KAUSER 1601-16-737-071 11 NIKITHA CH 1601-16-737-072 12 NISHITHA G 1601-16-737-074 14 SAI MONA D 1601-16-737-075 15 SAI NIKHITA N 1601-16-737-076	-		
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1 AKAANKSHA M 1601-16-737-062 2 BHAVANA J 1601-16-737-063 3 CHARITHA T 1601-16-737-064 4 HARIKA S 1601-16-737-065 5 HYNDAVI V 1601-16-737-066 6 KEERTHI A 1601-16-737-067 7 LAKSHMI AISWARYA J 1601-16-737-068 8 LIKHITHA T 1601-16-737-069 9 MADHURI E 1601-16-737-070 10 NAAZNEEN KAUSER 1601-16-737-071 11 NIKITHA CH 1601-16-737-072 12 NISHITHA G 1601-16-737-073 13 SAI DIVYA M 1601-16-737-074 14 SAI MONA D 1601-16-737-075 15 SAI NIKHITA N 1601-16-737-076	<u> </u>		
2 BHAVANA J 1601-16-737-063 3 CHARITHA T 1601-16-737-064 4 HARIKA S 1601-16-737-065 5 HYNDAVI V 1601-16-737-066 6 KEERTHI A 1601-16-737-067 7 LAKSHMI AISWARYA J 1601-16-737-068 8 LIKHITHA T 1601-16-737-069 9 MADHURI E 1601-16-737-070 10 NAAZNEEN KAUSER 1601-16-737-071 11 NIKITHA CH 1601-16-737-072 12 NISHITHA G 1601-16-737-073 13 SAI DIVYA M 1601-16-737-074 14 SAI MONA D 1601-16-737-075 15 SAI NIKHITA N 1601-16-737-076	1		
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4 HARIKA S 1601-16-737-065 5 HYNDAVI V 1601-16-737-066 6 KEERTHI A 1601-16-737-067 7 LAKSHMI AISWARYA J 1601-16-737-068 8 LIKHITHA T 1601-16-737-069 9 MADHURI E 1601-16-737-070 10 NAAZNEEN KAUSER 1601-16-737-071 11 NIKITHA CH 1601-16-737-072 12 NISHITHA G 1601-16-737-073 13 SAI DIVYA M 1601-16-737-074 14 SAI MONA D 1601-16-737-075 15 SAI NIKHITA N 1601-16-737-076	2		
5 HYNDAVI V 1601-16-737-066 6 KEERTHI A 1601-16-737-067 7 LAKSHMI AISWARYA J 1601-16-737-068 8 LIKHITHA T 1601-16-737-069 9 MADHURI E 1601-16-737-070 10 NAAZNEEN KAUSER 1601-16-737-071 11 NIKITHA CH 1601-16-737-072 12 NISHITHA G 1601-16-737-073 13 SAI DIVYA M 1601-16-737-074 14 SAI MONA D 1601-16-737-075 15 SAI NIKHITA N 1601-16-737-076			
6 KEERTHI A 1601-16-737-067 7 LAKSHMI AISWARYA J 1601-16-737-068 8 LIKHITHA T 1601-16-737-069 9 MADHURI E 1601-16-737-070 10 NAAZNEEN KAUSER 1601-16-737-071 11 NIKITHA CH 1601-16-737-072 12 NISHITHA G 1601-16-737-073 13 SAI DIVYA M 1601-16-737-074 14 SAI MONA D 1601-16-737-075 15 SAI NIKHITA N 1601-16-737-076			
7 LAKSHMI AISWARYA J 1601-16-737-068 8 LIKHITHA T 1601-16-737-069 9 MADHURI E 1601-16-737-070 10 NAAZNEEN KAUSER 1601-16-737-071 11 NIKITHA CH 1601-16-737-072 12 NISHITHA G 1601-16-737-073 13 SAI DIVYA M 1601-16-737-074 14 SAI MONA D 1601-16-737-075 15 SAI NIKHITA N 1601-16-737-076			
8 LIKHITHA T 1601-16-737-069 9 MADHURI E 1601-16-737-070 10 NAAZNEEN KAUSER 1601-16-737-071 11 NIKITHA CH 1601-16-737-072 12 NISHITHA G 1601-16-737-073 13 SAI DIVYA M 1601-16-737-074 14 SAI MONA D 1601-16-737-075 15 SAI NIKHITA N 1601-16-737-076			
9 MADHURI E 1601-16-737-070 10 NAAZNEEN KAUSER 1601-16-737-071 11 NIKITHA CH 1601-16-737-072 12 NISHITHA G 1601-16-737-073 13 SAI DIVYA M 1601-16-737-074 14 SAI MONA D 1601-16-737-075 15 SAI NIKHITA N 1601-16-737-076			
10 NAAZNEEN KAUSER 1601-16-737-071 11 NIKITHA CH 1601-16-737-072 12 NISHITHA G 1601-16-737-073 13 SAI DIVYA M 1601-16-737-074 14 SAI MONA D 1601-16-737-075 15 SAI NIKHITA N 1601-16-737-076			
11 NIKITHA CH 1601-16-737-072 12 NISHITHA G 1601-16-737-073 13 SAI DIVYA M 1601-16-737-074 14 SAI MONA D 1601-16-737-075 15 SAI NIKHITA N 1601-16-737-076			
12 NISHITHA G 1601-16-737-073 13 SAI DIVYA M 1601-16-737-074 14 SAI MONA D 1601-16-737-075 15 SAI NIKHITA N 1601-16-737-076			
13 SAI DIVYA M 1601-16-737-074 14 SAI MONA D 1601-16-737-075 15 SAI NIKHITA N 1601-16-737-076			
14 SAI MONA D 1601-16-737-075 15 SAI NIKHITA N 1601-16-737-076			
15 SAI NIKHITA N 1601-16-737-076			
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	15	SAI NIKHITA N	1601-16-737-076

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17	CANCEPTIA	1.601
	SANGEETHA R	1601-16-737-078
18	SHRUTHI A	1601-16-737-079
19	SNEHA P	1601-16-737-080
20	TEJASWIN	1601-16-737-081
21	VANITHA K	1601-16-737-082
22	VENKATA SAI SOUDAMINI	1601-16-737-083
23	AASHISH PORWAL	1601-16-737-084
24	ADITYA K	1601-16-737-085
25	AVINASSH BHARADHWAJ	1601-16-737-086
26	BALAJI PHANI PRANAV P	1601-16-737-087
27	CHANDRA SHEKHAR B	1601-16-737-088
28	DURGA PRASAD P	1601-16-737-089
29	MAHESH VARMA G	1601-16-737-091
30	MANOJ KUMAR REDDY J	1601-16-737-092
31	MUTHYAM REDDY M	1601-16-737-095
32	NITHESH B	1601-16-737-096
33	PAUL SAMPSON L	1601-16-737-097
34	PAVANKALYAN G	1601-16-737-098
35	PRANAY DATTA K	1601-16-737-099
36	PRANEETH PRASAD V	1601-16-737-100
37	PRATHYUSH K	1601-16-737-101
38	PRAVEEN KUMAR V	1601-16-737-102
39	REVANTH KUMAR R M	1601-16-737-104
40	SAI BHARGAVA R	1601-16-737-106
41	SAI PRAVEEN R	1601-16-737-107
42	SAI RUTHWIK K	1601-16-737-108
43	SHARATH SEN REDDY V	1601-16-737-109
44	SREE HARSHA E	1601-16-737-110
45	SUSHANTH KUMAR REDDY	1601-16-737-112
46	SUSHANTH REDDY L	1601-16-737-113
47	THARUN V	1601-16-737-114
48	UMA MAHESHWAR A	1601-16-737-115
49	VARMA V S V S	1601-16-737-117
50	VENKAT TEJA V	1601-16-737-118
51	VISHWANATH R B	1601-16-737-119
52	YADAVENDRA REDDY S	1601-16-737-120
53	YASHWANTH A	1601-16-737-121
54	DIVYANSHU (ANC)	1601-16-737-122
55	GUNNA BHASKARREDDY	1601-16-737-313
56	REDDABOINA CHANDU	1601-16-737-314
57	KALLEPU MEENAKUMARI	1601-16-737-315
58	CHILUVERU VAMSHI	1601-16-737-317
59	THUMALAPALLY LAVANYA	1601-16-737-318
60	KODAKANDLA PRIYANKA	1601-16-737-320
61	BILLA SANJAY	1601-16-737-321
62	A SUPRIYA	1601-16-737-322
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1	ANJANI M	1601-16-802-001
2	CHANDANA K	1601-16-802-002

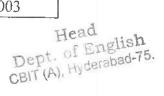


3 CHINMAYI P	1601-16-802-003
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4	KEERTHANA REDDY CH	1601-16-802-006
5	MEENA P	1601-16-802-007
6	NIKHILA L	1601-16-802-008
7	POOJITHA REDDY G	1601-16-802-010
8	SAI PRAFULLA T	1601-16-802-011
9	SAJITHA B	1601-16-802-012
10	SAMHITHA REDDY K	1601-16-802-013
11	SATHWIKA A	1601-16-802-014
12	SRI NAVYA REDDY P	1601-16-802-015
13	SRILEKHA M	1601-16-802-016
14	SUJITHA J	1601-16-802-017
15	SWARNA LATHA B	1601-16-802-018
16	AKASH REDDY M	1601-16-802-020
17	BHARATH REDDY K	1601-16-802-021
18	CHAITANYA PRUDVI B	1601-16-802-022
19	CHAITANYA V	1601-16-802-023
20	GOPI T	1601-16-802-024
21	GOWTHAM B	1601-16-802-025
22	HARSHITH M	1601-16-802-026
23	HARSH BHARAT YADAV	1601-16-802-030
24	MOHAMMED IBRAHIM ALI	1601-16-802-032
25	PRATHIK KUMAR K	1601-16-802-038
26	SAI SAMPATH K	1601-16-802-042
27	SAI TEJA T	1601-16-802-043
28	SAILENDRA REDDY A	1601-16-802-044
29	SANDEEP KUMAR K	1601-16-802-045
30	SANDEEP P	1601-16-802-046
31	VADITHYA ROHITH NAIK	1601-16-802-049
32	VAMSHI KRISHNA B	1601-16-802-050
33	VARSHIT C V	1601-16-802-051
34	VARUN TEJA M	1601-16-802-052
35	VINEETH SAI A	1601-16-802-053
36	KARANAM SRI HARI	1601-16-802-301
37	MALKAPUR NAGARAJU	1601-16-802-302
38	VANKUDOTH SAI KUMAR	1601-16-802-303
39	BADDA SOLMON RAJU	1601-16-802-304
40	THOTA SHIVA	1601-16-802-305
41	AKKALADEVI VINEETH	1601-16-802-307
42	ADULAPURAM BHARATH	1601-16-802-309
43	YENUBARI SUGUNA	1601-16-802-312
44	V SHREYA REDDY	1601-15-802-012
<u>4</u> 5	ANKINTH MAGANTI	1601-15-802-017
46	MOHD MUJTABA HUSSAIN	1601-15-802-030
47	MOTHE RAKESH	1601-15-802-311
48	MOHAMMAD AHMAD	1601-14-802-028
	VII SEM BIO	TECH -1
1	AARYA SREE K	1601-16-805-001
	AKSHITA K	1601-16-805-002
2	ANANYA S	1601-16-805-003
		1001-10-003-003





APOORVA SARAH P

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5	BRINDA D	1601-16-805-005
6	CHANDANA K	1601-16-805-006
7	GAYATHRI G	1601-16-805-008
8	KAVYA Y	1601-16-805-009
9	LAKSHMI NEHA U	1601-16-805-010
10	LAVANYA M	1601-16-805-011
11	MAHEE V	1601-16-805-012
12	MEENAKSHI B	1601-16-805-013
13	MEGHANA REDDY S	1601-16-805-014
14	NAGA HARSHITHA B	1601-16-805-016
15	NARMADA I	1601-16-805-017
16	NIHARIKA B	1601-16-805-018
17	PREETHI N	1601-16-805-019
18	RAGA PRIYA K	1601-16-805-020
19	RESHMITA G	1601-16-805-021
20	SAI CHARITHA B	1601-16-805-023
21	SANA THABASSUM	1601-16-805-024
22	SANJANA G	1601-16-805-026
23	SANJANA V	1601-16-805-027
24	SHRADDHA M	1601-16-805-028
25	SOUMYA R	1601-16-805-029
26	SRAVYA B	1601-16-805-030
27	SREYA V	1601-16-805-031
28	SRI KEERTHI BHAVANI G	1601-16-805-032
29	SRI VIDYA P	1601-16-805-033
30	SUMERA FAIZ	1601-16-805-034
31	ZAINAB	1601-16-805-036
32	ARVIND B	1601-16-805-037
33	EPHIN MONICHAN	1601-16-805-038
34	HARSHAVARDHAN V	1601-16-805-039
35	NAGA SAI Y	1601-16-805-042
36	SAI SRIJEETH REDDY K	1601-16-805-044
37	SAIVENU P	1601-16-805-045
38	SUMANTH S	1601-16-805-048
39	VIVEKREDDY R	1601-16-805-049
40	MUTTAQI AHMAD ALLADIN	1601-16-805-050
41	BYAGARI SREEKANTH	1601-15-805-052



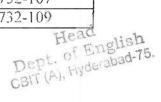


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	Values	
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S.No	NAME	ROLL NUMBER
1	AKANKSHA REDDY L	
	ALEKHYA P	1601-16-732-001
	LAASYA M	1601-16-732-002
	MANISHA D	1601-16-732-003 1601-16-732-004
-	NIKHILA K	
	RADHIKA BRINDAVANI G	1601-16-732-005
	RAMYA VARSHINI A	1601-16-732-006
	RITHIKA K	1601-16-732-007
	SAMPOORNA P	1601-16-732-008
	SHIVANI B	1601-16-732-009
	SHIVANI S	1601-16-732-011
	SRI RAGHA SAI PRIYA N	1601-16-732-012
	SUPRIYA N C	1601-16-732-013
	VISHNU PRIYA P	1601-16-732-014
		1601-16-732-016
	YAMINI GUPTA	1601-16-732-017
	ANIL KUMAR B ANIRUDH REDDY A	1601-16-732-018
		1601-16-732-019
	ANJANI KUMAR NAIK B	1601-16-732-020
	AVINASH V	1601-16-732-022
	BHANU KIRAN G	1601-16-732-024
	BHARADWAJB	1601-16-732-025
	DINESHWAR D	1601-16-732-026
	GANESH B	1601-16-732-027
	HRUTHIK REDDY N	1601-16-732-030
	ITHIHAS K	1601-16-732-031
	JAGADISH REDDY T	1601-16-732-032
	KARAN BHARAT M	1601-16-732-033
	MOHAMMED MUSTAFA	1601-16-732-035
	NIKHIL B	1601-16-732-036
	PAVAN KUMAR J	1601-16-732-038
	PHANI KRISHNA REDDY P	1601-16-732-039
	PRAVEEN CH	1601-16-732-040
	PRAVEEN M	1601-16-732-041
	RAHUL N	1601-16-732-042
	RAMESH S	1601-16-732-044
	RISHIK REDDY R	1601-16-732-045
	SAI CHARAN K	1601-16-732-046
	SAI RUGVEDH K	1601-16-732-047
	SREE RITISH SUNDAR M	1601-16-732-049
	SUBASH REDDY B	1601-16-732-050
	TIRUMAL KUMAR A	1601-16-732-051
	UTTAM NAIK J	1601-16-732-052
	VEERESH K	1601-16-732-054
44	VINAY YADAV J	1601-16-732-055

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45 VINITH KUMAR	D	1601-16-732-056
46 VISHWAKSENA		1601-16-732-058
47 ZACHARIAH BE		1601-16-732-060
48 SURAKANTI DIN		
49 NAGAMALLA D		1601-16-732-301 1601-16-732-302
50 DEVARUPPALA		
51 EJJIGIRI PRASHA		1601-16-732-303
52 CHIMMANI HAR		1601-16-732-304
53 NAYENI MANIK		1601-16-732-305
		1601-16-732-306
54 MOHD MAJID Q	ATTUM	1601-16-732-307
	VIIII OPM OF	VIII 3
1 MOHAMMED TA	VIII SEM CI	
2 RAMATENKI SR		1601-15-732-038
3 CH VIVEK REDD		1601-15-732-053
4 ASHWITHA V	Υ	1601-13-732-060
	IOD I D	1601-16-732-061
5 BHAVANIBINDU	SKIP	1601-16-732-062
6 GEETHAM K		1601-16-732-063
7 MAMATHA M		1601-16-732-064
8 NIROSHA N		1601-16-732-065
9 RISHITA K	<u> - </u>	1601-16-732-066
10 SATWIKA V	,	1601-16-732-068
11 SINDHU L		1601-16-732-069
12 SONIYA SREE S		1601-16-732-070
13 SRAVANI M		1601-16-732-071
14 SUKRUTHI M		1601-16-732-072
15 YAMINI N		1601-16-732-073
16 ABHINAV Y		1601-16-732-074
17 AJAY A		1601-16-732-076
18 AJAY R		1601-16-732-077
19 ANJANEYULU K		1601-16-732-078
20 ARAVIND P		1601-16-732-079
21 HARISH VARMA		1601-16-732-082
22 KRISHNA VIKAS		1601-16-732-085
23 MAHESHWAR RI		1601-16-732-086
24 MOHAMMED IBI		1601-16-732-088
25 MOHAMMED RIZ		1601-16-732-089
26 MOHAMMED TA	`	1601-16-732-090
27 NIHAL REDDY N		1601-16-732-091
28 PAVAN KALYAN		1601-16-732-092
29 PHANEENDHRA		1601-16-732-094
30 PRASHANTH KU		1601-16-732-096
31 RAGHU VANDIT		1601-16-732-098
32 RAHUL KUMAR	G	1601-16-732-099
33 RAJENDHAR B		1601-16-732-100
34 RINEESH REDDY		1601-16-732-101
35 SAI BHARADWA		1601-16-732-104
36 SAI BHUVANA C	HANDRA	1601-16-732-105
37 SAI VARUN K		1601-16-732-107
38 SHAHAZAD KHA	N AYUBI	1601-16-732-109
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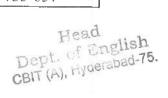
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37	MAIK	IRFAN

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40 OXX 4 GIXYO X 1 CO	
40 SHASHIDHAR N	1601-16-732-111
41 SHASHIDHAR REDDY S	1601-16-732-112
42 SHIVA KUMAR N	1601-16-732-113
43 SRIMAN P	1601-16-732-117
44 VEDA VYAS N	1601-16-732-119
45 NARABOYINA RAJKUMAR	1601-16-732-313
46 REESU SAI SUPRIYA	1601-16-732-315
47 M A KAREEM QUADRI	1601-16-732-316
48 JANGALA NAVEEN YADAV	1601-16-732-317
49 DEGAVATH KALYAN KUMAR	1601-16-732-318
50 DUNNAPOTHULA VENKATESH	1601-16-732-319
VIII SEM E	
1 AISHWARYA K	1601-16-735-001
2 ANITHA Y	1601-16-735-002
3 ASHWINI R	1601-16-735-003
4 BHARGAVI G	1601-16-735-004
5 BHAVANA L	1601-16-735-005
6 CHINMAYEE P	1601-16-735-006
7 GEETHIKA C H	1601-16-735-007
8 HARSHINI SRI LALITHA P	1601-16-735-008
9 LAKSHMI SARVANI K	1601-16-735-009
10 LOHITHA M	1601-16-735-010
11 MAHENAZ AMREEN	1601-16-735-011
12 PREETHI V	1601-16-735-012
13 SAHITHI B	1601-16-735-013
14 SAI PRANATHI V	1601-16-735-014
15 SHAGUFTA ANJUM S	1601-16-735-015
16 SHIVANI SHRADDHA B	1601-16-735-016
17 SOHILA KRISHNA P	1601-16-735-017
18 SREEJA P	1601-16-735-018
19 SRI DIVYA B	1601-16-735-019
20 SUSMITHA G	1601-16-735-020
21 VAISHNAVI N	1601-16-735-021
22 VIJAYA LAKSHMI K	1601-16-735-022
23 YOSHITHA G	1601-16-735-023
24 ASHISH K	1601-16-735-024
25 BHARGHAV R	1601-16-735-025
26 BHAVIK PERSHAD P	1601-16-735-026
27 CHAITAN N	1601-16-735-027
28 DEEPAK SAMEER S	1601-16-735-028
29 DILEEPKUMAR V	1601-16-735-029
30 DILIP E	1601-16-735-030
31 GNANA SAMPATH J	1601-16-735-031
32 HARUN RASHEED MOHAMMAD	1601-16-735-032
33 KARTHIK P	1601-16-735-033
34 KIRAN KUMAR B	1601-16-735-034
35 MAHESH N	1601-16-735-035
36 MD KHALID MUDASSIR	1601-16-735-036
37 MOHAMMAD SAAD	1601-16-735-037





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S5 VAMSI KRISHNA M		1601-16-735-054
S6 VARUN KUMAR REDDY K		1601-16-735-055
S7 VARUN P		1601-16-735-056
S8 VEERA TEJA B		1601-16-735-057
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1 AMTUL MOHIMIN TAHA 1601-16-735-061 2 AYESHA SAMREEN 1601-16-735-062 3 BHAVANA S 1601-16-735-063 4 BLESSY N 1601-16-735-064 5 SAI NEEHARIKA P 1601-16-735-065 6 HARINI A 1601-16-735-066 7 KEERTHI P 1601-16-735-067 8 LIKHITA Y 1601-16-735-068 9 MAMATHA K 1601-16-735-069 10 MANMITHA J 1601-16-735-070 11 NAGA SANTOSHI N 1601-16-735-071 12 PALLAVI REDDY P 1601-16-735-072 13 PRIYANKA B 1601-16-735-073		
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3 BHAVANA S 4 BLESSY N 1601-16-735-063 4 BLESSY N 1601-16-735-064 5 SAI NEEHARIKA P 1601-16-735-065 6 HARINI A 1601-16-735-066 7 KEERTHI P 1601-16-735-067 8 LIKHITA Y 1601-16-735-068 9 MAMATHA K 1601-16-735-069 10 MANMITHA J 1601-16-735-070 11 NAGA SANTOSHI N 1601-16-735-071 12 PALLAVI REDDY P 1601-16-735-072 13 PRIYANKA B 1601-16-735-073		
4 BLESSY N 1601-16-735-064 5 SAI NEEHARIKA P 1601-16-735-065 6 HARINI A 1601-16-735-066 7 KEERTHI P 1601-16-735-067 8 LIKHITA Y 1601-16-735-068 9 MAMATHA K 1601-16-735-069 10 MANMITHA J 1601-16-735-070 11 NAGA SANTOSHI N 1601-16-735-071 12 PALLAVI REDDY P 1601-16-735-072 13 PRIYANKA B 1601-16-735-073		
5 SAI NEEHARIKA P 1601-16-735-065 6 HARINI A 1601-16-735-066 7 KEERTHI P 1601-16-735-067 8 LIKHITA Y 1601-16-735-068 9 MAMATHA K 1601-16-735-069 10 MANMITHA J 1601-16-735-070 11 NAGA SANTOSHI N 1601-16-735-071 12 PALLAVI REDDY P 1601-16-735-072 13 PRIYANKA B 1601-16-735-073		
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11 NAGA SANTOSHI N 1601-16-735-071 12 PALLAVI REDDY P 1601-16-735-072 13 PRIYANKA B 1601-16-735-073		
12 PALLAVI REDDY P 1601-16-735-072 13 PRIYANKA B 1601-16-735-073		
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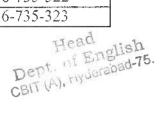


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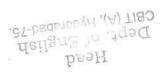
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17 SNEHITHA MADHURIMA M	1601-16-735-077
18 SPANDANA R 19 SREYA K	1601-16-735-078
20 SRINIDHI G	1601-16-735-079
20 SKINIDHI G 21 SUSHMA N	1601-16-735-080 1601-16-735-081
22 VANAJA S	1601-16-735-082
23 VARTIKA	1601-16-735-082
24 VENKATA LAVANYA Y	1601-16-735-084
25 VIDYA L	1601-16-735-085
26 ABHILASH K	1601-16-735-086
27 AJITH V	1601-16-735-087
28 AKHIL A	1601-16-735-088
29 AKHIL KUMAR V	1601-16-735-089
30 AKHIL N	1601-16-735-090
31 ANJANEYAPRASAD K	1601-16-735-091
32 ARUN KUMAR M	1601-16-735-093
33 BHANU PRASAD M	1601-16-735-094
34 BHAVANI SAI SUNEEL P	1601-16-735-095
35 KAUSHIK B	1601-16-735-096
36 KRISHNA ABHISHITH P	1601-16-735-097
37 MOHAMMED RASHED	1601-16-735-098
38 NIKHIL RAJ K	1601-16-735-100
39 PRAKASH REDDY A	1601-16-735-101
40 PRANAV TEJASVI A	1601-16-735-102
41 RAVI TEJA S	1601-16-735-103
42 ROHITH REDDY M	1601-16-735-104
43 SAI CHARAN P	1601-16-735-105
44 SAI TEJA K	1601-16-735-107
45 SAI VIKAS R	1601-16-735-108
46 SAI VISHWA TEJA T	1601-16-735-109
47 SAIKIRAN K	1601-16-735-110
48 SHASHANK KUMAR M	1601-16-735-111
49 SRINIVAS TEJA B	1601-16-735-112
50 TARUNENDRA M	1601-16-735-114
51 UDAY KIRAN M	1601-16-735-115
52 VAMSHI KRISHNA CH	1601-16-735-116
53 VISHWANATH REDDY Y	1601-16-735-118
54 YATINDRA ROHIT CH	1601-16-735-119
55 KORUMILLI RAGA SAI	1601-16-735-313
56 GOLLAGADDA ROOPALI	1601-16-735-314
57 POLISHETTY SREYA	1601-16-735-315
58 KOLE VENKATESH	1601-16-735-316
59 RANGU MEGHANA	1601-16-735-317
60 GAJABEEMKAR SUPRIYA	1601-16-735-318
61 SANGEM MANASA	1601-16-735-319
62 ALUGOJU ANIL KUMAR	1601-16-735-320
63 RAAGULA VENKATESH	1601-16-735-321
64 G AKHIL KUMAR	1601-16-735-322
65 MYSA SHEEBA RANI	1601-16-735-323
	4





1601-16-735-172	SIAY KEISHAY B	
171-257-31-1031	SHIVAKUMAR P	
1601-16-735-170	SATHISH K	
691-582-91-1091	SYI AIKYS M	
891-567-31-1081	SAI TEJA B	57
991-567-31-1091	KAJASHEKAR REDDY M	ヤヤ
1901-19-132-194	KAJ KUMAR G	43
1901-191-1991	KAHUL REDDY K	77
191-191-1091	PRUDHVI M	
191-582-91-1091	PRASAD K	
1601-16-735-160	PRANAY K	
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LSI-SEL-91-1091	NIKHIT K	
	NIKHIT D	
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#\$1-\$£1-91-1091	MOHAMMED ABDUL IRFAN	
ESI-SEL-91-1091	AHSA¶ INAL QM	
181-882-91-1091	KONSHIKNYTH BEDDY M	
051-357-091	KAMESWARA PAVAN ADITYA N	
671-587-31-1031	M USMAMIH	
1901-19-132-148	DEEKSHILH W	
1901-192-147	CHYNDKY 2YI KIKYN K	
971-257-91-1091	CHAITANYA KRISHNA P	97
1901-19-132-142	V DARUA	52
1901-19-132-144	YKHIL G	77
£41-257-11091	ADITYA K	. 53
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171-557-31-1031	ALIAR	17
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851-255-1091	SKEAY SKEE S	
LE1-SEL-91-1091	SHKEYA LOKRAY	
9£1-5£ <i>L</i> -91-1091	REVATHIS	
SEI-SEL-91-1091	PURNIMA B	
	BYANTIKY A	
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1601-16-735-126	JAHNAVI R	_
1601-16-735-125	HEMA BHARAT JANI	
1601-16-735-124	GEELHY AVIZHAVAI B	
1601-16-735-123	DEEPTHI SRI LAASYA G	
1601-16-735-122	YAMESHY KYK	7
121-257-121	AKHILA CH	I
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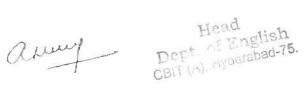
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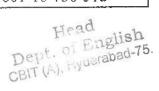
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53	SYED JAWAD MOHIUDDIN	1601-16-735-176
54	THANOJKUMAR G	1601-16-735-177
55	VEDAVYAS K	1601-16-735-178
56	VISHNU VARDHAN O	1601-16-735-179
57	VISWA SOURAB K	1601-16-735-180
	APPAM SHIVA KUMAR	1601-16-735-326
59	CHIPPA AVINASH TEJA	1601-16-735-327
60	DURGAM LALITH	1601-16-735-329
61	BODDU SAI HARISH	1601-16-735-330
62	BOGAM KIRAN KUMAR	1601-16-735-331
63	DARUGULA SRIKANTH	1601-16-735-332
64	GANDRAKOTA PRADEEP	1601-16-735-333
65	SHAGANTI NAVYA	1601-16-735-334
66	ERGADINDLA SUSHMITHA	1601-16-735-335





	Subject: Indian Constitutional Values Code: CBIT/19EGV062019 - 20	EVEN SEM TOTAL=198
S.No	NAME	ROLL NUMBER
	VIII SEM PRO	D -1
i	AMULYA U	1601-16-738-001
2	BALA LAKSHMI PRASANNA K	1601-16-738-002
3	GIRIJA Y SL	1601-16-738-004
4	NANDANA CH	1601-16-738-008
5	PURNIMA E	1601-16-738-009
6	RICHASREE A	1601-16-738-011
7	SHRIYA REDDY B	1601-16-738-012
8	SINDHUJA SAI B	1601-16-738-013
9	SOWMMYA J	1601-16-738-014
10	VIDYA SREE V	1601-16-738-015
11	ANURAG B	1601-16-738-022
12	BALA KRISHNA REDDY H	1601-16-738-023
13	CHANDRA KIRAN REDDY K	1601-16-738-025
14	KIRAN KUMAR G	1601-16-738-030
15	KISHORE KUMAR M	1601-16-738-031
16	KOUSHIK S	1601-16-738-032
17	KRUPAKAR REDDY M	1601-16-738-033
18	NITESH KUMAR REDDY V	1601-16-738-036
19	PRABHAKAR J	1601-16-738-037
20	PRANEETH DATH B	1601-16-738-038
21	PRASHANTH T	1601-16-738-039
22	SAI KARTHIK K	1601-16-738-043
23	SAI KRISHNA PRANEETH A	1601-16-738-044
24	SAI PRAKASH J	1601-16-738-045
25	SAINATH B	1601-16-738-046
26	SHAIK MUBASHEERUDDIN	1601-16-738-049
	SHIVA KUMAR GOUD S	1601-16-738-050
	UTTAM VIJAYWARGIYA	1601-16-738-052
	VENKATA SAI SRIKAR P	1601-16-738-054
	VIKRAM NAYAK M	1601-16-738-058
	VISHUNUVARDHAN REDDY B	1601-16-738-059
	RUKMANGADHA REDDY B	1601-16-738-060
	ANIL REDDY	1601-16-738-301
	KADUDURI UDAYKIRAN	1601-16-738-302
	KOTA HEMANTH	1601-16-738-303
	HEMANTH REDDY KOMPALLY	1601-16-738-304
	MOHAMMED SUFIYAN AHMED	1601-16-738-305
	GURRAM SAI GANESH	1601-16-738-306
	GUNDETI NAVEEN KUMAR	1601-16-738-308
	ABDUL SALMAN	1601-16-738-309
	S CHANDRA SHEKER	1601-16-738-310
	MORRY SUMANTH KUMAR	1601-16-738-311
	DUBBAGULLA SAMPATH KUMAR	1601-16-738-312





44 P	HEMA	CHANI	DER

1601-15-738-019



45 A DEEPAK NAIK	1601-15-738-309
VIII ISEM Mech	1 -1
1 ANULEKHA RAVI N	1601-16-736-001
2 BHARANI B	1601-16-736-002
3 DIVYA JYOTHI M	1601-16-736-003
4 JHANSI REDDY D	1601-16-736-004
5 NANDHINI S	1601-16-736-005
6 PAVANI M	1601-16-736-006
7 PRIYANKA A	1601-16-736-007
8 RACHANA V	1601-16-736-008
9 SHARANYA N	1601-16-736-009
10 SOWMYA V	1601-16-736-010
11 SUSMITHA Y	1601-16-736-011
12 TEJASWI L	1601-16-736-013
13 AKHILESH K	1601-16-736-015
14 ANIRUDH KISHAN K	1601-16-736-016
15 ANISH REDDY M	1601-16-736-017
16 ANKITH G	1601-16-736-018
17 BALA VINEETH REDDY T	1601-16-736-019
18 CHAITANYA KUMAR P	1601-16-736-020
19 DANIEL PETER	1601-16-736-021
20 DAYAKAR K	1601-16-736-022
21 DILIP G	1601-16-736-023
22 GHULAM SAMDANI	1601-16-736-024
23 JAGADISH CH	1601-16-736-025
24 KALYAN G	1601-16-736-026
25 KALYAN P	1601-16-736-027
26 KARTHIKEYA REDDY V	1601-16-736-028
27 MANIDEEP G	1601-16-736-029
28 MOHAMMED SAMEER HUSSAIN	1601-16-736-030
29 MOHAMMED SIDDIQ HUSSAIN	1601-16-736-031 1601-16-736-033
30 PRABHAKAR RAO CH	1601-16-736-034
31 PRAJWAL T	1601-16-736-035
32 PRANAY L	1601-16-736-036
33 RAHMAN MA 34 RAHUL REDDY B	1601-16-736-037
35 RAKSHITH REDDY S	1601-16-736-038
36 RAMBABU NAIK T	1601-16-736-040
37 RAVICHANDRA D	1601-16-736-041
38 SACHIN M R	1601-16-736-042
39 SAI CHANDAN B	1601-16-736-043
40 SAI HARSHA P	1601-16-736-044
41 SAI KRISHNA P	1601-16-736-046
42 SAI PREETHAM REDDY A	1601-16-736-047
43 SAI VARUN S	1601-16-736-049
44 SAIMANIDEEP B	1601-16-736-050



45 SANDEEP B	1601-16-736-051

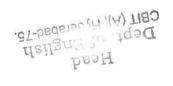
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	SHIVAKARAN P	1601-16-736-053
<u> </u>	SRIRAAG G	1601-16-736-054
	VENKATA SUDHEER KUMAR REDDY V	1601-16-736-057
	VIJAYA BHANU DEEPAK S	1601-16-736-058
	VINEEL KUMAR V	1601-16-736-059
	VINEETH SAI RAM VARMA K	1601-16-736-060
	KUMMARI KRISHNA VAMSHI	1601-16-736-301
	AKKENAPALLY RANJEETH REDDY	1601-16-736-302
	ANANTHULA ANVESH	1601-16-736-303
	KALLEM PAVANKALYAN	1601-16-736-304
	EDIDHINENI KARTHIK	1601-16-736-305
	CHIRRA PRUDHVI RAJ	1601-16-736-306
	GUNDU MOUNISHA	1601-16-736-307
1	LAKAVATH VENNELA	1601-16-736-308
	CHOUDARY SAITEJA	1601-16-736-309
	SAPAVAT BANGHA	1601-16-736-310
	P SHANMUKHI VANDANA	1601-16-736-311
	RAVULA BIINDU SHANKAR	1601-16-736-312
	J AVANINDRA RAO	1601-15-736-018
	MD JUNAID	1601-15-736-028
$\overline{}$	SAHIL SHAHZAD KHAN	1601-15-736-037
	SREETEJ REDDY B	1601-15-736-043
	VIII SEM Mech -2	
1	AHLADA CH	1601-16-736-061
2	ANUSHA B	1601-16-736-062
3	HIMALAYA K	1601-16-736-063
4	KAVYA SREE CH	1601-16-736-064
	KAVYA SREE CH PRANAVATHMIKA Y	1601-16-736-064 1601-16-736-066
5		
5	PRANAVATHMIKA Y	1601-16-736-066 1601-16-736-067 1601-16-736-068
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5 6 7 8 9 10 11 12 13 14 15	PRANAVATHMIKA Y PRATYUSHA J RASHMI G SAHARTHI T SAIPRIYA U SANIYA FARHEEN P SHRAVANI J SHRAVYA N SPOORTHY SHREE A SUREKHA K ABHIJEET SHREEP PURKAR	1601-16-736-066 1601-16-736-067 1601-16-736-068 1601-16-736-069 1601-16-736-070 1601-16-736-071 1601-16-736-072 1601-16-736-073 1601-16-736-074 1601-16-736-075 1601-16-736-076 1601-16-736-077 1601-16-736-078
5 6 7 8 9 10 11 12 13 14 15 16 17	PRANAVATHMIKA Y PRATYUSHA J RASHMI G SAHARTHI T SAIPRIYA U SANIYA FARHEEN P SHRAVANI J SHRAVYA N SPOORTHY SHREE A SUREKHA K ABHIJEET SHREEP PURKAR ABHISHEK REDDY M AKHIL KUMAR REDDY T AKHIL SAI P	1601-16-736-066 1601-16-736-067 1601-16-736-068 1601-16-736-069 1601-16-736-070 1601-16-736-071 1601-16-736-072 1601-16-736-073 1601-16-736-074 1601-16-736-075 1601-16-736-076 1601-16-736-077 1601-16-736-078 1601-16-736-079
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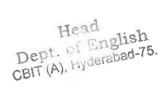
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36 NAGA BRAHMA C	1601-16-734-040
37 PAVAN KUMAR M	1601-16-734-042
38 PAVAN P	1601-16-734-043
39 RAVIVARMA A	1601-16-734-044
40 RUTHVIK P	1601-16-734-045
41 SAI BHARATH N	1601-16-734-046
42 SAI NIKHIL RAO G	1601-16-734-047
43 SAI SASANK REDDY A	1601-16-734-048
44 SAI SUNAYAN G	1601-16-734-049
45 SAIDEBAJI SK	1601-16-734-050
46 SAITEJA E	1601-16-734-051
47 SHIVA CHARAN PRASAD J	1601-16-734-053





TITLE OF THE VALUE-ADDED COURSE: ANCIENT INDIAN KNOWLEDGE

COURSE CODE: - 18EEV01

PROFESSOR & HEAD
Department of Civil Engineering
Challarya Bharsith Institute of Technology
GANDIPET, HYDERABAD-5000 076

18EEV01

Ancient Indian knowledge

Syllabus:

Module-I:

Introduction to Culture: Culture, civilization, culture and heritage, general characteristics of culture, Indian Culture, Ancient India, Medieval India, Modern India

Module-II

Indian Languages, Culture and Literature: Indian Languages and Literature-I: the role of Sanskrit, significance of scriptures to current society, Indian philosophies, other Sanskrit literature,

Module-III

Religion and Philosophy: Religion and Philosophy in ancient India, Religion and Philosophy in Medieval India, Religious Reform Movements in Modern India (selected movements only)

Module-IV

Fine arts in India (Art, Technology & Engineering): Indian Painting, Indian handicrafts, Indian Architecture (ancient, medieval and modern), Science and Technology in India, development of science in ancient, medieval and modern India

Module V

Education system in India: Education in ancient, medieval and modern India, aims of education, subjects, languages, Science and Scientists of Ancient India, Science and Scientists of Medieval India, Scientists of Modern India.

Essential Readings:

- 1. Kapil Kapoor, Text and Interpretation: The Indian Tradition, ISBN: 81246033375, 2005
- 2. Samskrita Bharati, Science in Samskrit, ISBN-13: 978-8187276333, 2007
- 3. Satya Prakash, Founders of sciences in Ancient India, Govindram Hasanand, ISBN-10: 8170770009, 1989
- 4. Brajendranath Seal, The Positive Sciences of the Ancient Hindus, Motilal Banarasidass, ISBN-10: 8120809254, 1915
- 5. Kancha Ilaiah, Turning the Pot, Tilling the Land: Dignity of Labour in Our Times

Suggested Readings:

- Swami Vivekananda, Caste, Culture and Socialism, Advaita Ashrama, Kolkata ISBN-9788175050280
- 2. Swami Lokeswarananda, Religion and Culture, Advaita Ashrama, Kolkata ISBN-9788185843384
- 3. Kapil Kapoor, Language, Linguistics and Literature: The Indian Perspective, ISBN-10: 8171880649, 1994.
- 4. Karan Singh, A Treasury of Indian Wisdom: An Anthology of Spiritual Learn, ISBN: 978-0143426158, 2016
- 5. Swami Vivekananda, The East and the West, Advaita Ashrama, Kolk

PROFESSOR & HEAD
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Chaitanya Bharathi Institute of Technolog
GANDIPET HYDERSRAD-5000 075

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160118732001	AKHILA UMMANAVENA
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160118732003	VUNNAVA HARIPRIYA
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160118732017	VAISHNAVI REDDY TEEGALA
160118732019	CHEKONDA VIJAYA
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160118732102	VELPUMADUGU SANJEEV KUMAR
160118732103	KALLETI SHASHITEJA
160118732104	PARAKALA SHIVAKUMAR
160118732106	BANDI SIDDHARTHA
160118732108	EDUPUGANTI SPANDAN KUMAR
160118732109	VAMSHI KRISHNA YALIJALA
160118732110	B VAMSHI VIKYATH
160118732112	THRIPPICHETTI VASANTH KUMAR
160118732113	GANUGAPENTA VENKATA ARAVIND
160118732114	BANOTH VENU
160118732115	VISHAL KANDIKATLA
160118732116	VANIPENTA VIVEK VARDHAN
160118732117	MOHAMMED ZAIDAN AHMED
160118732309	SIDDAGONI SOWJANYA
160118732310	ALA TEJA SREE
160118732311	RATNA JYOSTHNA
160118732312	KAVATI SASI KALA
160118732313	SHAIK SHANAWAZ
160118732314	GUNTURU AYYAPPA MALA GOPALA
160118732315	CHINNARAPU HARISHANKAR
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160118732061	GOVATHOTI ANUSHA
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160118732063	SIMRA JABEEN
160118732064	SUREDDY MADHUMITHA
160118732065	P REBECCA FLORENCE
160118732066	MADUGULA SANKEERTHANA
160118732067	ALJAPUR SHIVANI

TITLE OF THE VALUE-ADDED COURSE: ENVIRONMENTAL IMPACT AND MONITORING

COURSE CODE: -CBIT/19CEV01

PROFESSOR & HEAD
Department of Civil Engineering
Chaitenya Bharathi Institute of Technology
GANDIPET, HYDERABAD-5000 075

CBIT/19CEV01

ENVIRONMENTAL IMPACT AND MONITORING

Course Objectives: To enable the student

- 1. Identify environmental problems arising due to engineering and technological activities and the science behind those problems.
- 2. Become aware about the importance of eco system and biodiversity for maintaining ecological balance
- 3. To identify the importance of interlinking of food chain
- 4. Learn about various attributes of pollution management and waste management practices.
- 5. To make the students contribute for capacity building of nation for arresting and/or managing environmental disasters.

Course Outcomes: At the end of the course, the student should have learnt

- 1. To define environment, identify the natural resources and ecosystems and contribute for the conservation of bio-diversity.
- 2. To suggest suitable remedial measure for the problems of environmental pollution and contribute for the framing of legislation for protection of environment.
- 3. To relate the social issues and the environment and contribute for the sustainable development.
- 4. To follow the environmental ethics.
- 5. To contribute for the mitigation and management of environmental disasters.

UNIT - I:

Environmental Studies: Definition, Scope and importance, need for public awareness.

Natural resources: Use and over utilization of Natural Resources - Water resources, Food resources, Forest resources, Mineral resources, Energy resources, Land resources.

UNIT – II:

Ecosystems: Concept of an ecosystem, structure and function of an ecosystem, role of producers, consumers and decomposers, energy flow in an ecosystem, food chains, food webs, ecological pyramids, Nutrient cycling, Biogeo chemical cycles, Terrestrial and Aquatic ecosystems.

UNIT - III:

Biodiversity: Genetic, species and ecosystem biodiversity, Bio-geographical classification of India, India as a Mega diversity nation. Values of biodiversity, hot-spots of biodiversity.

UNIT - IV:

Environmental Pollution: Cause, effects and control measures of air pollution, water pollution, marine pollution, soil pollution, noise pollution and Solid waste management, nuclear hazards

UNIT - V:

Social issues and the environment: Water conservation methods: Rain water harvesting and watershed management, Environmental ethics, Sustainable development and Climate change: Global warming, Ozone layer depletion, forest fires, and Contemporary issues.

Text Books:

- 1. Y. Anjaneyulu," Introduction to Environmental Science", B S Publications, 2004.
- 2. Suresh K. Dhameja, "Environmental Studies", S. K. Kataria& Sons, 2009.

Suggested Reading:

- 1. C. S. Rao," Environmental Pollution Control Engineering", Wiley, 1991.
- 2. S. S. Dara, "A Text Book of Environmental Chemistry & Pollution Control", S. Chand Limited, 2006.

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160118732084	KANURI HARI CHARAN
160118732085	MUSHKE HEMANTH
160118732086	R JAI KIRAN
160118732087	KUNCHALA KALYAN
160118732088	BEGARI KIRAN
160118732089	LINGALA NITHIN REDDY
160118732091	BANOTH NAGARJUNA
160118732092	AILABOINA NEETHAJJHEA
160118732093	G NITISH KUMAR
160118732094	AMMANA PRANEETH REDDY
160118732095	M RAMCHARAN
160118732096	ALISETTY ROHITH
160118732097	PALLE ROHITH
160118732099	NAIKOTI SAI KIRAN
160118732100	AKULA SAI TEJA

160118732101	CHINTHAKUNTLA SAI TEJA
160118732102	VELPUMADUGU SANJEEV KUMAR
160118732103	KALLETI SHASHITEJA
160118732104	PARAKALA SHIVAKUMAR
160118732106	BANDI SIDDHARTHA
160118732108	EDUPUGANTI SPANDAN KUMAR
160118732109	VAMSHI KRISHNA YALIJALA
160118732110	B VAMSHI VIKYATH
160118732112	THRIPPICHETTI VASANTH KUMAR
160118732113	GANUGAPENTA VENKATA ARAVIND
160118732114	BANOTH VENU
160118732115	VISHAL KANDIKATLA
160118732116	VANIPENTA VIVEK VARDHAN
160118732117	MOHAMMED ZAIDAN AHMED
160118732309	SIDDAGONI SOWJANYA
160118732310	ALA TEJA SREE
160118732311	RATNA JYOSTHNA
160118732312	KAVATI SASI KALA
160118732313	SHAIK SHANAWAZ
160118732314	GUNTURU AYYAPPA MALA GOPALA
160118732315	CHINNARAPU HARISHANKAR
160118732316	EPPA AADIKESHAVA REDDY
160118732061	GOVATHOTI ANUSHA
160118732062	GADDAMIDHI BHAVANA
160118732063	SIMRA JABEEN
160118732064	SUREDDY MADHUMITHA
160118732065	P REBECCA FLORENCE
160118732066	MADUGULA SANKEERTHANA
160118732067	ALJAPUR SHIVANI

Subject: Indian Heritage and Cultur Code: CBIT/19EEV05 2019 - 20	ODD SEM TOTAL=5
S.No NAME	ROLL NUMBER
VII SEM E	EE -1
1 AKANKSHA YADAV B	1601-16-734-001
2 AKHILA J	1601-16-734-002
3 CHITKALA M	1601-16-734-003
4 GAYATHRI M	1601-16-734-004
5 GEETHA BHARGAVI K	1601-16-734-005
6 KEERTHI REDDY K	1601-16-734-007
7 LASYA G	1601-16-734-008
8 LAVANYA M	1601-16-734-009
9 MOUNIKA G	1601-16-734-010
10 PRADEEPA CH	1601-16-734-011
11 PRAVALLIKA V	1601-16-734-012
12 SAI PRIYANKA T	1601-16-734-013
13 SHAIK AISHA	1601-16-734-014
14 SHASHIKALA M	1601-16-734-015
15 SHIVANI RAJU T	1601-16-734-016
16 SHRAVYA M	1601-16-734-017
17 SHREEJHA M	1601-16-734-018
18 SHRUTHI REDDY G	1601-16-734-019
19 SHRUTHI SRI T	1601-16-734-020
20 SRILEKHA CH	1601-16-734-021
21 SRINIDHI REDDY B	1601-16-734-022
22 SRIVIDYA B	1601-16-734-023
23 VENNELA REDDY K	1601-16-734-025
24 ABHISHEK NARAYANA D	1601-16-734-026
25 ANWESH K	1601-16-734-027
26 ARUNKUMAR GOUD S	1601-16-734-028
27 BALAKRISHNA REDDY K	1601-16-734-029
28 BARGAV CHAITANYA G	1601-16-734-030
29 HEMANTHKUMAR E	1601-16-734-031
30 INDRA KUMAR REDDY Y	1601-16-734-032
31 JOHN MEDWIN V	1601-16-734-034
32 LALITH CHANDRIL REDDY M	1601-16-734-036
33 MOHAMMED MOIZUDDIN	1601-16-734-037
34 MOHAMMED PARVEZ AMAIR	1601-16-734-038
35 MUKESH S	1601-16-734-039
36 NAGA BRAHMA C	1601-16-734-040
37 PAVAN KUMAR M	1601-16-734-042
38 PAVAN P	1601-16-734-043
39 RAVIVARMA A	1601-16-734-044
40 RUTHVIK P	1601-16-734-045
41 SAI BHARATH N	1601-16-734-046
42 SAI NIKHIL RAO G	1601-16-734-047
43 SAI SASANK REDDY A	1601-16-734-048
44 SAI SUNAYAN G	1601-16-734-049

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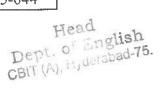
Head Dept. of English CBIT (A), Hyderabad-75.

45 SAIDEBAJI SK	1601-16-734-050
46 SAITEJA E	1601-16-734-051
47 SHIVA CHARAN PRASAD J	1601-16-734-053
48 SUDHEER A	1601-16-734-054
49 TARUN K	1601-16-734-056
50 THARUN R	1601-16-734-057

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	Subject: Indian Heritage and Culture Code: CBIT/19EEV05 2019 - 20	EVEN SEM TOTAL=129
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1.	AISHWARYA K	1601-16-735-001
2	ANITHA Y	1601-16-735-002
3 .	ASHWINI R	1601-16-735-003
4	BHARGAVI G	1601-16-735-004
5	BHAVANA L	1601-16-735-005
6	CHINMAYEE P	1601-16-735-006
- 1	GEETHIKA C H	1601-16-735-007
8	HARSHINI SRI LALITHA P	1601-16-735-008
9	LAKSHMI SARVANI K	1601-16-735-009
10	LOHITHA M	1601-16-735-010
11	MAHENAZ AMREEN	1601-16-735-011
12	PREETHI V	1601-16-735-012
13	SAHITHI B	1601-16-735-013
	SAI PRANATHI V	1601-16-735-014
15	SHAGUFTA ANJUM S	1601-16-735-015
16	SHIVANI SHRADDHA B	1601-16-735-016
17	SOHILA KRISHNA P	1601-16-735-017
18	SREEJA P	1601-16-735-018
19	SRI DIVYA B	1601-16-735-019
20	SUSMITHA G	1601-16-735-020
21	VAISHNAVI N	1601-16-735-021
22	VIJAYA LAKSHMI K	1601-16-735-022
23	YOSHITHA G	1601-16-735-023
24	ASHISH K	1601-16-735-024
25	BHARGHAV R	1601-16-735-025
26	BHAVIK PERSHAD P	1601-16-735-026
	CHAITAN N	1601-16-735-027
28	DEEPAK SAMEER S	1601-16-735-028
29	DILEEPKUMAR V	1601-16-735-029
30	DILIP E	1601-16-735-030
31	GNANA SAMPATH J	1601-16-735-031
32	HARUN RASHEED MOHAMMAD	1601-16-735-032
33	KARTHIK P	1601-16-735-033
34	KIRAN KUMAR B	1601-16-735-034
	MAHESH N	1601-16-735-035
36	MD KHALID MUDASSIR	1601-16-735-036
37	MOHAMMAD SAAD	1601-16-735-037
38	NAGESH K	1601-16-735-038
1	PARSHARAMULU M	1601-16-735-039
40	PAVANKUMAR REDDY CH	1601-16-735-040
41	RISHI R	1601-16-735-041
42	SAI CHAKRI T	1601-16-735-042
43	SAI PRANAV D	1601-16-735-043
44	SAI SOHAM R	1601-16-735-044





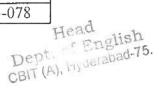
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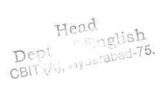
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	SHIVAKUMAR G	1601-16-735-048
	SHIVANK AGARWAL	1601-16-735-049
	SREE NARESH KRISHNA CH	1601-16-735-050
	SRI HARI CH	1601-16-735-051
	SRIKAR G	1601-16-735-052
	SUKESH REDDY N	1601-16-735-054
	SURESH K	1601-16-735-055
	VAMSI KRISHNA M	1601-16-735-056
	VARUN KUMAR REDDY K	1601-16-735-057
	VARUN P	1601-16-735-058
	VEERA TEJA B	1601-16-735-059
	VINITH KUMAR K	1601-16-735-060
	SRI RAMOJU SHRAVANI	1601-16-735-301
	ANISHA BOMMA	1601-16-735-302
	T S RAHUL	1601-16-735-303
	J VINAY KUMAR	1601-16-735-304
	RASAGNA VEMULA	1601-16-735-305
	SHARATH KUMAR	1601-16-735-306
	AYESHANIKHATH	1601-16-735-307
	KOTA KAVYA	1601-16-735-308
	VADLA NAVANEETHA	1601-16-735-309
	GUGULOTH LAKPATHI	1601-16-735-310
	THADAGONDA REETA	1601-16-735-311
	NAUSHEEN	1601-16-735-312
	GUMMADAVELLI ANJALI	1601-15-735-303
73	MADHYARLA MANISHA	1601-14-735-008
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	AYESHA SAMREEN	1601-16-735-062
	BHAVANA S	1601-16-735-063
	BLESSY N	1601-16-735-064
	SAI NEEHARIKA P	1601-16-735-065
	HARINI A	1601-16-735-066
	KEERTHI P	1601-16-735-067
	LIKHITA Y	1601-16-735-068
	MAMATHA K	1601-16-735-069
	MANMITHA J	1601-16-735-070
	NAGA SANTOSHI N	1601-16-735-071
	PALLAVI REDDY P	1601-16-735-072
	PRIYANKA B	1601-16-735-073
	RAMYATHA P	1601-16-735-074
	RISHITHA REDDY K	1601-16-735-075
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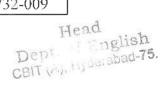


19 SREYA K	1601-16-735-079



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	VANAJA S	1601-16-735-082
	VARTIKA	1601-16-735-083
	VENKATA LAVANYA Y	1601-16-735-084
	VIDYA L	1601-16-735-085
	ABHILASH K	1601-16-735-086
	АЛТН V	1601-16-735-087
	AKHIL A	1601-16-735-088
	AKHIL KUMAR V	1601-16-735-089
	AKHIL N	1601-16-735-090
	ANJANEYAPRASAD K	1601-16-735-091
	ARUN KUMAR M	1601-16-735-093
	BHANU PRASAD M	1601-16-735-094
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35	KAUSHIK B	1601-16-735-096
	KRISHNA ABHISHITH P	1601-16-735-097
	MOHAMMED RASHED	1601-16-735-098
38	NIKHIL RAJ K	1601-16-735-100
39	PRAKASH REDDY A	1601-16-735-101
40	PRANAV TEJASVI A	1601-16-735-102
41	RAVI TEJA S	1601-16-735-103
1	ROHITH REDDY M	1601-16-735-104
43	SAI CHARAN P	1601-16-735-105
44	SAI TEJA K	1601-16-735-107
45	SAI VIKAS R	1601-16-735-108
46	SAI VISHWA TEJA T	1601-16-735-109
47	SAIKIRAN K	1601-16-735-110
48	SHASHANK KUMAR M	1601-16-735-111
49	SRINIVAS TEJA B	1601-16-735-112
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51	UDAY KIRAN M	1601-16-735-115
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53	VISHWANATH REDDY Y	1601-16-735-118
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55	KORUMILLI RAGA SAI	1601-16-735-313
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2	ALEKHYA P	1601-16-732-002
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5	NIKHILA K	1601-16-732-005
6	RADHIKA BRINDAVANI G	1601-16-732-006
7	RAMYA VARSHINI A	1601-16-732-007
8	RITHIKA K	1601-16-732-008
9	SAMPOORNA P	1601-16-732-009





10 SHIVANI	В	1601-16-732-011

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	ANIL KUMAR B	1601-16-732-018
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	AVINASH V	1601-16-732-022
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	BHARADWAJB	1601-16-732-025
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$\overline{}$	JAGADISH REDDY T	1601-16-732-032
	KARAN BHARAT M	1601-16-732-033
28	MOHAMMED MUSTAFA	1601-16-732-035
29	NIKHIL B	1601-16-732-036
30	PAVAN KUMAR J	1601-16-732-038
31	PHANI KRISHNA REDDY P	1601-16-732-039
32	PRAVEEN CH	1601-16-732-040
	PRAVEEN M	1601-16-732-041
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35	RAMESH S	1601-16-732-044
36	RISHIK REDDY R	1601-16-732-045
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41	TIRUMAL KUMAR A	1601-16-732-051
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45	VINITH KUMAR P	1601-16-732-056
46	VISHWAKSENA REDDY K	1601-16-732-058
47	ZACHARIAH BENJAMIN K	1601-16-732-060
48	SURAKANTI DIVYA	1601-16-732-301
	NAGAMALLA DILEEP	1601-16-732-302
	DEVARUPPALA DIVYA	1601-16-732-303
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TITLE OF THE VALUE-ADDED COURSE: ENVIRONMENTAL IMPACT AND MONITORING

COURSE CODE: -CBIT/19CEV01

PROFESSOR & HEAD
Department of Civil Engineering
Chaitenya Bharathi Institute of Technology
GANDIPET, HYDERABAD-5000 075

CBIT/19CEV01

ENVIRONMENTAL IMPACT AND MONITORING

Course Objectives: To enable the student

- 1. Identify environmental problems arising due to engineering and technological activities and the science behind those problems.
- 2. Become aware about the importance of eco system and biodiversity for maintaining ecological balance
- 3. To identify the importance of interlinking of food chain
- 4. Learn about various attributes of pollution management and waste management practices.
- 5. To make the students contribute for capacity building of nation for arresting and/or managing environmental disasters.

Course Outcomes: At the end of the course, the student should have learnt

- 1. To define environment, identify the natural resources and ecosystems and contribute for the conservation of bio-diversity.
- 2. To suggest suitable remedial measure for the problems of environmental pollution and contribute for the framing of legislation for protection of environment.
- 3. To relate the social issues and the environment and contribute for the sustainable development.
- 4. To follow the environmental ethics.
- 5. To contribute for the mitigation and management of environmental disasters.

UNIT - I:

Environmental Studies: Definition, Scope and importance, need for public awareness.

Natural resources: Use and over utilization of Natural Resources - Water resources, Food resources, Forest resources, Mineral resources, Energy resources, Land resources.

UNIT – II:

Ecosystems: Concept of an ecosystem, structure and function of an ecosystem, role of producers, consumers and decomposers, energy flow in an ecosystem, food chains, food webs, ecological pyramids, Nutrient cycling, Biogeo chemical cycles, Terrestrial and Aquatic ecosystems.

UNIT - III:

Biodiversity: Genetic, species and ecosystem biodiversity, Bio-geographical classification of India, India as a Mega diversity nation. Values of biodiversity, hot-spots of biodiversity.

UNIT - IV:

Environmental Pollution: Cause, effects and control measures of air pollution, water pollution, marine pollution, soil pollution, noise pollution and Solid waste management, nuclear hazards

UNIT - V:

Social issues and the environment: Water conservation methods: Rain water harvesting and watershed management, Environmental ethics, Sustainable development and Climate change: Global warming, Ozone layer depletion, forest fires, and Contemporary issues.

Text Books:

- 1. Y. Anjaneyulu," Introduction to Environmental Science", B S Publications, 2004.
- 2. Suresh K. Dhameja, "Environmental Studies", S. K. Kataria& Sons, 2009.

Suggested Reading:

- 1. C. S. Rao," Environmental Pollution Control Engineering", Wiley, 1991.
- 2. S. S. Dara, "A Text Book of Environmental Chemistry & Pollution Control", S. Chand Limited, 2006.

CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY ENVIRONMENTAL IMPACT AND MONITORING - CBIT/20CEV01 LIST OF STUDENTS				
160118732001	AKHILA UMMANAVENA			
160118732002	T V GAYATHRI MOUNIKA			
160118732003	VUNNAVA HARIPRIYA			
160118732004	SANDIRI HARSHITHA			
160118732005	RAMAVATH KIRAN KUMARI			
160118732006	BADRI MANASA			
160118732007	BATHINI MANASA			
160118732008	PUSALA NEEHARIKA			
160118732009	SAILLA PREETHI			
160118732010	VARUDA RAJESHWARI			
160118732011	DAGGUBELLI RAKSHITHA			
160118732012	KORNEPATI SAI SINDHU			
160118732013	MASABATHINI SATHYA SRI			
160118732014	PAKANATI SHILPA			
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160118732016	GUGULOTHU TARA SRI			
160118732017	VAISHNAVI REDDY TEEGALA			
160118732019	CHEKONDA VIJAYA			
160118732020	MATAM YASASWINI			
160118732021	MOHAMMED ABDUL RAFEY MUBASSHIR			
160118732022	BEJGAM ABHISHEK			
160118732024	KARNE ANIL REDDY			
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160118732030	A HARI PRASAD			
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160118732034	BONKURI PAVANKALYAN			

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160118732045	AKKINEPALLY SATHWIK CHANDRA
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160118732004	SANDIRI HARSHITHA
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160118732007	BATHINI MANASA
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160118732067	ALJAPUR SHIVANI
160118732068	SOMIREDDY SHIVANI
160118732069	DASI SIRI CHANDANA
160118732070	SHESHAGANI SRI VANI
160118732071	YALATI SRIVIDYA
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160118732076	ARYAN REDDY VANGIMALLA
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160118732097	PALLE ROHITH
160118732099	NAIKOTI SAI KIRAN
160118732100	AKULA SAI TEJA
•	

160118732101	CHINTHAKUNTLA SAI TEJA
160118732102	VELPUMADUGU SANJEEV KUMAR
160118732103	KALLETI SHASHITEJA
160118732104	PARAKALA SHIVAKUMAR
160118732106	BANDI SIDDHARTHA
160118732108	EDUPUGANTI SPANDAN KUMAR
160118732109	VAMSHI KRISHNA YALIJALA
160118732110	B VAMSHI VIKYATH
160118732112	THRIPPICHETTI VASANTH KUMAR
160118732113	GANUGAPENTA VENKATA ARAVIND
160118732114	BANOTH VENU
160118732115	VISHAL KANDIKATLA
160118732116	VANIPENTA VIVEK VARDHAN
160118732117	MOHAMMED ZAIDAN AHMED
160118732309	SIDDAGONI SOWJANYA
160118732310	ALA TEJA SREE
160118732311	RATNA JYOSTHNA
160118732312	KAVATI SASI KALA
160118732313	SHAIK SHANAWAZ
160118732314	GUNTURU AYYAPPA MALA GOPALA
160118732315	CHINNARAPU HARISHANKAR
160118732316	EPPA AADIKESHAVA REDDY
160118732061	GOVATHOTI ANUSHA
160118732062	GADDAMIDHI BHAVANA
160118732063	SIMRA JABEEN
160118732064	SUREDDY MADHUMITHA
160118732065	P REBECCA FLORENCE
160118732066	MADUGULA SANKEERTHANA
160118732067	ALJAPUR SHIVANI

Department of Biotechnology

1.3 Curriculum Enrichment 2019-20

List of value added courses completed by BTech Biotechnology students during 2019-20

S.No	Title of the course	Code
1	Biomedical	
	Nanotechnology	CBIT/19BTV007
2	Dairy and Food process and	
	products technology	CBIT/19BT V002
3	Introduction to	
	Mechanobiology	CBIT/19BT V006
4	Organic farming for	
	sustainable Agricultural	
	production	CBIT/19BT V005
5	Thermal processing of	
	foods	CBIT/19BT V003

Dept. of Bio-Technology Challenga Sharatid Institute of Techno Gandipet, Hyderabad-500 075.

TITLE OF THE VALUE-ADDED COURSE:

Biomedical Nanotechnology (CBIT/19BTV007)

No. of enrolled Participants- 3

Duration of the Course: 4 WEEKS

ACADEMIC YEAR:2019-20

Pept. of Bio-Technology Challenga Sharethi Institute of Techno Gandipet, Hyderabad-500 075.

Name of the value added courses (with 30 or more contact hours) offered	Course code(if any)	Year of offering	No. of times offered during the same year	Duration of course in Hours	Number of students enrolled in the year	Number of Students completing the course in the year
Biomedical Nanotechnology	CBIT/19BTV007	2020	1	90hours	3	3

Pept. of Bio-Technology Challenga Sharathi Institute of Techno Gandipet, Hyderabad-500 075.

Syllabus

Biomedical Nanotechnology

(CBIT/19BTV007)

Course Duration: 4 Week

Credits :1

- **Week 1:** Introduction to nano, Nano-biomimicry, Synthesis of nanomaterials by physical and chemical methods, Synthesis of nanomaterials by biological methods, Characterisation of nanomaterials.
- **Week 2:** DNA nanotechnology, Protein & glyco nanotechnology, Lipid nanotechnology, Bionanomachines, Carbon nanotube and its bio-applications.
- **Week 3:** Nanomaterials for cancer diagnosis, Nanomaterials for cancer therapy, Nanotechnology in tissue engineering, Nano artificial cells, Nanotechnology in organ printing.
- **Week 4:** Nanotechnology in point-of-care diagnostics, Nano pharmacology& drug targeting, Cellular uptake mechanisms of nanomaterials, In vitro methods to study antibacterial and anticancer properties of nanomaterials, Nanotoxicology.

Books and references:

- 1. Malsch, N.H., "Biomedical Nanotechnology", CRC Press. (2005).
- 2. Mirkin, C.A. and Niemeyer, C.M., "Nanobiotechnology II: More Concepts and Applications", Wiley-VCH. (2007).
- 3. Kumar, C. S. S. R., Hormes, J. and Leuschner C., "Nanofabrication Towards Biomedical Applications: Techniques, Tools, Applications, and Impact", WILEY -VCH Verlag GmbH & Co. (2005).
- 4. Lamprecht, A., "Nanotherapeutics: Drug Delivery Concepts in Nanoscience", Pan Stanford Publishing Pte. Ltd. (2009).
- 5. Jain, K.K., "The Handbook of Nanomedicine", Humana press. (2008).

Dept. of Bio-Technology Chaftanya Sharathi Instituta of Techno Gandipet, Hyderabad-500 075.

List of participants

S.No	Name of the student	Roll No
1	Malishetty Vijay Bhargav	160118805043
2	S Deepak Mohan Reddy	160118805034
3	A. Jahnavi	160118805010

計画人 Dept. of Bio-Technology Chaffenya Sharathi Instituta of Techno Gandipet, Hyderabad-500 075.

TITLE OF THE VALUE-ADDED COURSE:

Dairy and Food Process and Products Technology

(CBIT/19BT V002)

No. of enrolled Participants- 5

Duration of the Course: 12 WEEKS

ACADEMIC YEAR:2019-20

Pept. of Bio-Technology
Challenga Sharetid Institute of Techno
Gandipet, Hyderabad-500 075.

Name of the value-added courses (with 30 or more contact hours) offered	Course code(if any)	Year of offering	No. of times offered during the same year	Duration of course in Hours	Number of students enrolled in the year	Number of Students completing the course in the year
Dairy and Food process and products technology	CBIT/19BT V002	2020	1	12 WEEKS	5	5

Pept. of Bio-Technology Challenga Sharetid Institute of Techno Gandipet, Hyderabad-500 075.

Syllabus

Dairy and Food process and productstechnology (CBIT/19BT V002)

Course Duration: 12 Weeks

Credits : 3

- **Week 1:** Basic principles and methods of food processing and preservation. Emerging Technologies in food processing. Food additives and preservatives.
- Week 2: Food laws and standards. Effect of processing on acceptability and nutritive value of food.
- Week 3: Physico-chemical properties and structure of milk and milk constituents.
- Week 4: Chemical and microbial spoilage of milk and milk products; Fluid milk Processing, packaging and distribution.
- **Week 5:** Common dairy processes cream separation (standardization), pasteurization, sterilization and Homogenization.
- **Week 6:** Process technology for manufacture of evaporated milk, condensed milk, dried milk, malted milk, infant and baby foods, ice-cream, cheese, butter, fermented milk and indigenous dairy products.
- Week 7: Methods and procedures for sampling and testing of milk and milk products. Laws and standards for milk and milk products.
- Week 8: Technological processes for industrially manufactured foods of commercial importance, from plant and animal origin.
- **Week 9:** Cereals, vegetables, fruits, meats, poultry and egg products; Bakery, pasta and confectionary products, ready to eat foods, fermented foods, alcoholic and non- alcoholic Beverages, tea, coffee and cocoa, fabricated foods.
- **Week 10** Packaging materials; Characteristics, properties and their design. Packaging requirement for Different processed and unprocessed foods.
- Week 11: Working Principles of various type offillers: form-fill- seal machine.
- Week 12: Gas packaging and modified atmosphere Package design. Shelf-life prediction of foods in packages. Quality control in Food packaging. Product safety and packaging regulations.

Dept. of Bio-Technology Challenga Sharetid Institute of Techno Gandipet, Hyderabed-500 075.

Books and references

Nil

List of participants

S. No	Name of the student	Roll No
1	A Jahanavi	160118805010
2	Krishna Priya V	160118805014
3	Sucheta Rajaraman	160118805026
4	Malishetty Vijay	160118805043
	Bhargav	
5	Nalli Deepika	160118805005

Pept. of Bio-Technology
Chaffenya Sharatid Institute of Techno
Gandipet, Hyderabad-500 075.

TITLE OF THE VALUE-ADDED COURSE:

Introduction to Mechanobiology

(CBIT/19BT V006)

No. of enrolled Participants- 1

Duration of the Course: 8 WEEKS

ACADEMIC YEAR:2019-20

Dept. of Bio-Technology Challenga Sharatid Institute of Techno Gandipet, Hyderabad-500 075.

Name of the value-added courses (with 30 or more contact hours) offered	Course code (if any)	Year of offering	No. of times offered during the same year	Duration of course in Hours	Number of students enrolled in the year	Number of Students completing the course in the year
Introduction to Mechanobiology	CBIT/19BT V006	2020	1	8 WEEKS	1	1

Pept. of Bio-Technology Challenga Sharathi Institute of Techno Gandipet, Hyderabad-500 075.

Syllabus

Introduction to Mechanobiology

(CBIT/19BT V006)

Course Duration: 8 Weeks

Credits : 3

Week 1

Lecture 1: Need to study Mechanobiology

Lecture 2: Cell as a Tent, individual components

Lecture 3: Cell-ECM crosstalk

Lecture 4: ECM proteins: Collagen

Lecture 5: Measuring properties of collagen networks

Week 2

Lecture 6: Properties of collagen networks

Lecture 7: Rheology

Lecture 8: Rheology of biopolymer networks

Lecture 9: Atomic Force Microscopy (AFM)

Lecture 10: Design of protein constructs for AFM

Week 3

Lecture 11: Protein unfolding using AFM

Lecture 12: Protein unfolding using AFM

Lecture 13: Focal adhesions: focal adhesion proteins

Lecture 14: Focal adhesion organization

Lecture 15: Focal adhesions: role of forces

Week 4

Lecture 16: Cytoskeleton: Actin

Lecture 17: Force-velocity relationships of actin networks

Lecture 18: Mesenchymal cell migration

Lecture 19: Actin dynamics during mesenchymal migration

Lecture 20: Actin dynamics during mesenchymal migration

Week 5

Lecture 21: Adhesion Independent Migration

Lecture 22: Adhesion Independent & Collective Cell Migration

Lecture 23: Collective Cell Migration

Lecture 24: Mechanobiology of Stem Cell Fate - I

Lecture 25: Mechanobiology of Stem Cell Fate - II

Week 6

Lecture 26: Mechanobiology of Stem Cell Fate - III

Dept. of Bio-Technology Challenga Sharetin Inntitute of Techno Gandipet, Hyderabad-500 075. Lecture 27: Mechanobiology of Diseases: Cancer I Lecture 28: Mechanobiology of Diseases: Cancer II Lecture 29: Mechanobiology of Diseases: Cancer III

Lecture 30: Mechanobiology of Diseases: Atherosclerosis & Hypertension

Week 7

Lecture 31: Mechanobiology of Diseases: Muscular Dystrophy

Lecture 32: Nuclear Mechanotransduction: LINC complex

Lecture 33: Nuclear Mechanotransduction: LINC complex in cell migration

Lecture 34: Nuclear Mechanotransduction: Gene regulation

Lecture 35: Mechanical Forces & DNA damage

Week 8

Lecture 36: Techniques in Mechanobiology: Hydrogels

Lecture 37: Techniques in Mechanobiology: AFM

Lecture 38: Techniques in Mechanobiology: Traction Force Microscopy, Trypson Deadhesion & Laser Ablation

Lecture 39: Techniques in Mechanobiology: Microfabrication

Lecture 40: Techniques in Mechanobiology: FRE

Books and references:

- 1. 1.Introduction to Cell mechanics and Mechanobiology, Christopher. R. Jacobs (Garland Science)
- 2. 2.Cellular and biomolecular mechanics and mechanobiology, Editors: Gefen, Amit (Springer)

Dept. of Bio-Technology
Chaffenya Sharetid Institute of Techno
Gandipet, Hyderabad-500 075.

List of participants

S. No	Name of the	Roll No
	student	
1	Shamshabad	160118805031
	Vishwanutha	

計画人 Dept. of Bio-Technology Chaffenya Sharatid Instituta of Techno Gandipet, Hyderabad-500 075.

TITLE OF THE VALUE-ADDED COURSE:

Organic Farming for Sustainable Agricultural Production

(CBIT/19BT V005)

No. of enrolled Participants- 5

Duration of the Course: 8 WEEKS

ACADEMIC YEAR:2019-20

Name of the value-added courses (with 30 or more contact hours) offered	Course code (if any)	Year of offering	No. of times offered during the same year	Duration of course in Hours	Number of students enrolled in the year	Number of Students completing the course in the year
Organic farming for sustainable Agricultural production	CBIT/19BT V005	2020	1	8 WEEKS	5	5

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Syllabus

Organic farming for Sustainable AgriculturalProduction (CBIT/19BT V005)

Course Duration: 8Weeks

Credits : 2

Week 1: Organic Farming: Concepts and principles of organic farming

Week 2: Key indicators of sustainable agriculture, organic farming and climate change

Week 3: Input management; compost production, vermicomposting, Compost quality, Compost utilization and marketing

Week 4: Organic crop management: field crops, horticulture and plantation crops

Week 5: Plant protection measures, biopesticides, natural predators, cultural practice

Week 6: Rotation design for organic system, Transition to organic agriculture, farming system

Week 7: Quality analysis of organic foods, Antioxidants and their natural source, organic food and human health

Week 8: Standards of organic food and marketing

Books and references: Nil

Dept. of Bio-Technology
Chaffanya Sharathi Institute of Techno
Gandipet, Hyderabad-500 075.

List of participants

S. No	Name of the student	Roll No	
1	Krishna Priya V	160118805014	
2	Mohith Arikatla	160118805037	
3	Sucheta Rajaraman	160118805026	
4	A. Jahnavi	160118805010	
5	Nalli Deepika	160118805005	

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Gandipet, Hyderabad-500 075.

TITLE OF THE VALUE-ADDED COURSE:

Thermal Processing of Foods

(CBIT/19BT V003)

No. of enrolled Participants- 2

Duration of the Course: 12 WEEKS

ACADEMIC YEAR:2019-20

Dept. of Bio-Technology
Chaffenya Sharetin Inntitute of Techno
Gandipet, Hyderabad-500 075.

Name of the value-added courses (with 30 or more contact hours) offered	Course code (if any)	Year of offering	No. of times offered during the same year	Duration of course in Hours	Number of students enrolled in the year	Number of Students completing the course in the year
Thermal processing of foods	BIT/19BT V003	2020	1	12 WEEKS	2	2

Dept. of Bio-Technology Challenga Sharathi Institute of Techno Gandipet, Hyderabad-500 075.

Syllabus

Thermal Processing of foods (CBIT/19BT V005)

Course Duration: 12 Weeks

Credits: 3

Week 1: Food microbiology: microbial growth and concerns in various foods, Blanching, Pasteurization, Ultra-pasteurization, Hot fill and UHT

Week 2: Thermal processing equipment, Milk pasteurization, Canning operations

Week 3: Temperature distribution and heat penetration, Kinetics of reactions, F value and process Requirements

Week 4: Quality considerations and process optimization, Shelf-life studies, Validation of heat Processes

Week 5: Fundamentals of aseptic processing, Aseptic equipment design, Aseptic process design

Week 6: Microwave and radio frequency heating, Ohmic heating, Overview of non-thermal processing technologies

Week 7: Advanced separation processes, High pressure, dialysis, ultrafiltration and reverse osmosis, Nanofiltration, electro dialysis and membrane separation

Week 8: Various types of heat exchangers for food process engineering, Various types of driers for food process engineering

Week 9: Importance and applications of extrusion technology in food processing, Changes of properties and functional components of extruded foods

Week 10: Food biosensors, Types of functional foods: Probiotics and nutraceuticals

Week 11: Packaging considerations: Barrier and mechanical properties of different food packaging materials, Bio composite/bio nanocomposite materials for food packaging applications

Week 12: Sanitary components and requirements, Regulatory considerations

Dept. of Bio-Technology
Chaffanya Sharatid Institute of Techno
Gandipet, Hyderabad-500 075.

Books and references:

- 1. Chan, E. C. S., Pelczar, M. J., Jr. Krieg N. R. 2010. Microbiology. 5th edition. Tata McGraw Hill, Delhi.
- 1. 2. Banwart, G.J. 1989. Basic Food Microbiology. 2nd edition. Chapman & Hall, New York.
- 2. Meyer, L.H. 2004. Food Chemistry. 1st edition. CBS Publishers & Distributors, Delhi.
- 3. McCabe, W. L., Smith J., Harriot P. 2014. Unit Operations of Chemical Engineering. 7th edition. McGraw Hill, International.
- 4. Nelson, P.E. (Editor). 2010. Principles of Aseptic Processing and Packaging. 3rd edition. Purdue university press.
- 5. Sun, D. (Editor). 2005. Emerging Technologies for Food Processing. Elsevier Academic Press.
- 6. Metaxas, A.C., Meridith, R.J. 1993. Industrial Microwave Heating. Peter Pergrinus Ltd., London.
- 7. Soroka, W. 1999. Fundamentals of Packaging Technology. Institute of Packaging Professionals.
- 8. Curtis, P.A. 2005. Guide to food laws regulations. Blackwell Publishing.

Pept. of Bio-Technology
Challenga Sharathi Institute of Techno
Gandipet, Hyderabad-500 075.

List of participants

S. No	Name of the student	Roll No
1	Mohith Arikatla	160118805037
2	S Deepak Mohan Reddy	160118805034

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Dept. of Bio-Technology
Challenga Sharatin Institute of Techno
Gandipet, Hyderabed-500 075.

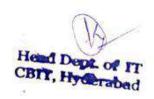
1.3 Curriculum Enrichment 2019-20

List of value added courses completed by B.E (IT) students during 2019-20

Name of the value added courses offered	Code			
Programming with python	CBIT/19ITV002			
Artificial Intelligence	CBIT/19ITV003			
Big data	CBIT/19ITV004			
Ethical Hacking and cyber security	CBIT/19ITV005			
Design and Analysis of Algorithms	CBIT/19ITV006			
Machine learning	CBIT/19ITV007			
Web development	CBIT/19ITV008			
Programming for Everybody (Getting Started with Python)	CBIT/19ITV009			
Technical Support Fundamentals	CBIT/19ITV010			
AWS Fundamentals: Addressing Security Risks	CBIT/19ITV011			
AWS: Building Serverless Applications	CBIT/19ITV012			
AWS Fundamentals:Migrating to the cloud	CBIT/19ITV013			
AWS: Going Cloud Native	CBIT/19ITV014			
Block Chain	CBIT/19ITV015			
SQL Fundamentals course	CBIT/19ITV016			
Java tutorial course	CBIT/19ITV017			
Ptthon 3 tutorial course	CBIT/19ITV018			
Cloud computing basics	CBIT/19ITV019			
Core java	CBIT/19ITV020			
Google Analytics for beginners	CBIT/19ITV021			
Al for everyone	CBIT/19ITV022			
Introduction to HTML5	CBIT/19ITV023			
Interactivity with javascript	CBIT/19ITV024			
Python Data Structures	CBIT/19ITV025			
Capstone: Retrieving, Processing, and Visualizing Data with Python	CBIT/19ITV026			
C for everyone:Programming Fundamentals	CBIT/19ITV027			
Build Your First Android App	CBIT/19ITV028			
Using python access the web data	CBIT/19ITV029			
Using databases with python	CBIT/19ITV030			
Carrer Edge-knockdown the lockdown	CBIT/19ITV031			
Artificial Intelligence, Machine learning & Internet of Things	CBIT/19ITV032			
Introduction to Data Science in Python	CBIT/19ITV033			



Name of the value added courses offered	Code
Machine learning for all	CBIT/19ITV034
Operating systems and you	CBIT/19ITV035
Fundamentals of Visualization with Tableau	CBIT/19ITV036
Introduction to Search Engine Optimization	CBIT/19ITV037
Crash course on python	CBIT/19ITV038
Use wordpress to create a blog for business	CBIT/19ITV039
Python basics	CBIT/19ITV040
Introduction to CSS3	CBIT/19ITV041
Python 3 programming	CBIT/19ITV042
Introduction to Software Product Management	CBIT/19ITV043
Excel skills for business:essentials	CBIT/19ITV044
Finance for Non Financial Professionals	CBIT/19ITV045
Introduction to Cybersecurity Tools & Cyber Attacks	CBIT/19ITV046
COSC	CBIT/19ITV047
Full Stack Development	CBIT/19ITV048
Java and python	CBIT/19ITV049
TensorFlow In Practice	CBIT/19ITV050
Advanced Styling with Responsive Design	CBIT/19ITV051



SUMMARY REPORT OF VALUE-ADDED COURSES - 2019-20

Course 1: Programming with Python

Code: CBIT/19ITV001

Duration: 30 Hours (July 2020)

Registered & completed student Name	Total no. of students registered & completed
Jyothi Swaroopa Jinka	
Misbah Uddin	
Usha Goud	04
ALLA BINDHU SREE REDDY	
	Name Jyothi Swaroopa Jinka Misbah Uddin Usha Goud

Syllabus

Week 1: Planning the Computer Program: Concept of problem solving, Problem definition, Program design, Debugging, Types of errors in programming, Documentation.

Week 2: Techniques of Problem Solving: Flowcharting, decision table, algorithms, Structured programming concepts, Programming methodologies viz. top-down and bottom-up programming.

Week 3: Introduction to Python: Structure of a Python Program, Elements of Python, Python Interpreter, Using Python as calculator, Python shell, Indentation. Atoms, Identifiers and keywords, Literals, Strings and Operators.

Week 4: Conditional Statements and Looping: Branching, Looping, Conditional Statement, Exit function, Difference between break, continue and pass.

Week 5: String Manipulation: Understanding string, Accessing Strings, Basic Operations, String slices, Function and Methods.

Week 6: List: Introduction to list, Accessing list, list operations, Working with lists, Function and Methods.

Week 7: Tuples: Introduction to tuple, Accessing tuples, Operations, Working, Functions and Methods.

Week 8: Dictionary: Introduction to dictionaries, Accessing values in dictionaries, Working with dictionaries, Properties, Functions.

Week 9: Python Functions: Defining a function, Calling a function, Types of functions, Function Arguments, Anonymous functions, Global and local variables, Organizing python codes using functions.

Week 10: Python Modules: Organizing python projects into modules, Importing own module as well as external modules, Understanding Packages, modules and external packages.

Week 11: Input-Output: Printing on screen , Reading data from keyboard , Opening and closing file , Reading and writing files , Functions.

Head Dept. of IT CBIT, Hyderabad Week 12: Exception Handling: Introduction to Exception, Exception Handling, Except clause, Try ? finally clause, User Defined Exceptions.

Text Books & References

- 1. A. B. Downey, Think Python, 2e: How to Think Like a Computer Scientist, O'Reilly,
- 2. Z. Shaw, LEARN PYTHON 3 THE HARD WAY, Addison-Wesley, 2017.
- 3. Arockia Mary P, Problem Solving and Python Programming, Shanlax Publications, 2021.
- 4. C. Morris, "https://www.kaggle.com/learn/python," [Online].
 - 5. "https://docs.python.org/3/tutorial/index.html," [Online].

Course 2: Artificial Intelligence

Code: CBIT/19ITV002

Duration: 30 Hours (Jun 2020)

Dura SNO	tion: 30 Hours (Jun 2020) Registered & completed student Name	Total no. of students registered & completed
1	Ms. Manavi Reddy Vemula	03
2	Dineesha	03
3	MOHAMMED MUMTAZ AHMED ALI	

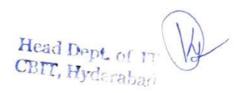
Syllabus

Week 1: Introduction to financial markets: Risk-Return Analysis in Investment Decisions - Measures of Risk and Return, understanding value of a firm, goals of a firm, cash flow discounting, making investment decisions, valuation of fixed income securities and common stocks, introduction to portfolio theory capital. of models. cost pricing asset and

Week 2: Overview of AI and machine learning models: Probability modelling, Supervised and Unsupervised learning algorithms, inferential statistics, algorithms. classification and regression

Week 3: Introduction to R Programming, R Fundamentals, Exploratory data analysis and data visualization with R. Statistical Analysis with R, Inferential hypothesis testing with R. statistics and

Week 4: Market Microstructure and Liquidity: Order-driven vs. Quote-driven markets, Market efficiency, Risk preferences, Limit order books, market microstructure types, economic theory of choice, interest rate compounding



Week 5: Portfolio construction: Portfolio risk and expected returns for two securities and multiple securities, risk diversification with portfolios, correlation structure, mean-variance framework, portfolio construction with R

Week 6: Portfolio Optimization: Portfolio Possibility curve, Efficient frontier, Minimum Variance portfolios, Introduction to risk-free lending and borrowing, market risk and beta, portfolio optimization with R

Week 7: Asset Pricing Models: Capital Asset Pricing Model (CAPM), Capital Market Line, Security Market Line, Fallings of CAPM, Single-Index and Multi-Index models, Expected Risk and Return with Index models, 3-Factor Fama-Model

Week 8: Portfolio Management and Performance Evaluation: Portfolio Management strategies, Active vs Passive Portfolio Management, Value vs Growth investing, One-parameter performance measures Timing & Selection performance measures, application of asset pricing models in performance management

Week 9: Introduction to Algorithmic Trading: Technical analysis and trend determination, Dow Theory, Moving averages, Momentum indicators, Classical price

Week 10: AI and machine learning in Trading execution and portfolio management: Regression and Classification algorithm applications in security analysis, forecasting, and prediction, Case Study examples

Week 11: Advanced time-series regression algorithms: Panel regression quantile regression, ARMA/ARIMA models, Mean reverting trading strategies with vector error correction models and cointegration, model risk management, back testing, model validation, and stress testing with R

Head Dept. of I'll CBIT, Hyderabar

Week 12: Advanced time-series algorithms for financial risk-management: Value-at-risk, Expected Shortfall, ARCH/GARCH models, implementation with R

Books and references

- 1. Machine Learning in Finance by M. Dixon, I Halperin, and P. Bilokon, Springer,

 1st Edition
- 2. Advances in Financial Machine Learning, Marcos Lopez, Wiley, 1st Edition
- 3. Machine Learning for Asset Managers, Marcos Lopez, Cambridge University Press, 1st Edition
- 4. Machine Learning for Algorithmic Trading, Stefan Jansen, 2nd Edition, Packt
- 5. Elton & Gruber, "Modern Portfolio Theory", Wiley, 9th Edition
- 6. Reilly, Frank, K., "Investment Analysis and Portfolio Management," 5th Edition, Dryden.

Course 3: Big data Code: CBIT/19ITV003 Duration: 30 Hours

	tion: 30 Hour				Taka1	no.	of	students
SNO	Registered Name	&	s completed	student	registered & completed			
1 01								

Syllabus

WEEK 1

Welcome to the Big Data Specialization! We're excited for you to get to know us and we're looking forward to learning about you!

Big Data: Why and Where

Data -- it's been around (even digitally) for a while. What makes data "big" and where does this big data come from?

WEEK 2

Characteristics of Big Data and Dimensions of Scalability

You may have heard of the "Big Vs". We'll give examples and descriptions of the commonly discussed 5. But, we want to propose a 6th V and we'll ask you to practice writing Big Data questions targeting this V -- value.

Head Dept. of 17 CBTT, Hyderabad Data Science: Getting Value out of Big Data

We love science and we love computing, don't get us wrong. But the reality is we care about Big Data because it can bring value to our companies, our lives, and the world. In this module we'll introduce a 5 step process for approaching data science problems.

WEEK 3

Foundations for Big Data Systems and Programming

Big Data requires new programming frameworks and systems. For this course, we don't programming knowledge or experience -- but we do want to give you a grounding in some of the key concepts.

Systems: Getting Started with Hadoop

Let's look at some details of Hadoop and MapReduce. Then we'll go "hands on" and actually perform a simple MapReduce task in the Cloudera VM. Pay attention - as we'll guide you in "learning by doing" in diagramming a MapReduce task as a Peer Review.

Course 4: Ethical Hacking and cyber security

Code: CBIT/19ITV004

Duration: 1 Week (Aug 2020)

SNO	Registered & completed stud	lent Total no. of students registered & completed
1	Syed Danish Hussaini	01

Syllabus

Introduction to ethical hacking. Fundamentals of computer Week 1: networking. TCP/IP protocol stack.

Week 2: IP addressing and routing. TCP and UDP. IP subnets.

Week 3: Routing protocols. IP version 6.

Installation of attacker and victim system. Information gathering Week-4: search. google advanced using dnsenum and NMAP tool. host, dig, netcraft, whois, archive.org,

Vulnerability scanning using NMAP and Nessus. Creating a secure Week-5: environment. hacking System Hacking: password cracking, privilege escalation, application Malware and execution.

Week 6: Introduction to cryptography, private-key encryption, public-key encryption.

and

Week 7: Cryptographic hash functions, digital signature and certificate, applications.

Week 8: Steganography, biometric authentication, network-based attacks, DNS and Email security.

Week-9: Packet sniffing using wireshark and burpsuite, password attack using burp suite. Social engineering attacks and Denial of service attacks.

Week 10: Elements of hardware security: side-channel attacks, physical inclinable functions, hardware trojans.

Week-11: Different types of attacks using Metasploit framework: password cracking, privilege escalation, remote code execution, etc.Attack on web servers: password attack, SQL injection, cross site scripting.

Week 12: Case studies: various attacks scenarios and their remedies.

Books and references

- 1. Data and Computer Communications -- W. Stallings.
- 2. Data Communication and Networking -- B. A. Forouzan
- 3. TCP/IP Protocol Suite -- B. A. Forouzan
- 4. UNIX Network Programming -- W. R. Stallings
- 5. Introduction to Computer Networks and Cybersecurity -- C-H. Wu and J. D. Irwin
- Cryptography and Network Security: Principles and Practice -- W. Stallings
- 7. ** Various web resources **

Course5: Design and Analysis of Algorithms

Code: CBIT/19ITV005
Duration: 30 Hours

Dura	cion. oo maa				PR 4 1		-6	students
SNO	Registered	85	completed	student	Total	no.	of	
Dire	Name				registe	red & c	comple	eted
	Mano				01			

Syllabus

Week 1

Module 1: Introduction

Module 2: Examples and motivation

Module 3: Examples and motivation

Module 4: Asymptotic complexity: informal concepts Module 5: Asymptotic complexity: formal notation

Module 6: Asymptotic complexity: examples

Assignments MCQ/Fill in blanks (unique answer)

Week 2

Module 1: Searching in list: binary search

Module 2: Sorting: insertion sort Module 3: Sorting: selection sort Module 4: Sorting: merge sort Module 5: Sorting: quicksort

Module 6: Sorting: stability and other issues

Assignments MCQ/Fill in blanks, programming assignment

Week 3

Module 1: Graphs: Motivation Module 2: Graph exploration: BFS Module 3: Graph exploration: DFS

Module 4: DFS numbering and applications

Module 5: Directed acyclic graphs Module 6: Directed acyclic graphs

Assignments MCQ/Fill in blanks, programming assignment

Week 4

Module 1: Shortest paths: unweighted and weighted

Module 2: Single source shortest paths: Dijkstra

Module 3: Single source shortest paths: Dijkstra

Module 4: Minimum cost spanning trees: Prim's algorithm Module 5: Minimum cost spanning trees: Kruskal's Algorithm

Module 6: Union-Find data structure

Assignments MCQ/Fill in blanks, programming assignment

Week 5

Module 1: Divide and conquer: counting inversions

Module 2: Divide and conquer: nearest pair of points

Module 3: Priority queues, heaps

Module 4: Priority queues, heaps

Module 5: Dijstra/Prims revisited using heaps

Module 6: Search Trees: Introduction

Assignments MCQ/Fill in blanks, programming assignment

Week 6

Module 1: Search Trees: Traversals, insertions, deletions

Module 2: Search Trees: Balancing

Module 3: Greedy: Interval scheduling

Module 4: Greedy: Proof strategies

Module 5: Greedy: Huffman coding

Module 6: Dynamic Programming: weighted interval scheduling

Assignments MCQ/Fill in blanks, programming assignment

Week 7

Module 1: Dynamic Programming: memoization

Module 2: Dynamic Programming: edit distance

Module 3: Dynamic Programming: longest ascending subsequence

Module 4: Dynamic Programming: matrix multiplication

Module 5: Dynamic Programming: shortest paths: Bellman Ford

Module 6: Dynamic Programming: shortest paths: Floyd Warshall

Assignments MCQ/Fill in blanks, programming assignment

Week 8

Module 1: Intractability: NP completeness

Module 2: Intractability: reductions

Module 3: Intractability: examples

Module 4: Intractability: more examples

Module 5: Misc topics

Module 6: Misc topics

Assignments MCQ/Fill in blanks



Course 6: Machine learning

Code: CBIT/19ITV006

Duration: 30 Hours (Sep 2020)

	Registered & completed student Name	Total no. of students registered & completed			
1	Suhaas Doddapaneni				
2	Kothapalli Sri Yagna				
3	Dineesha	05			
4	MOHAMMED MUMTAZ AHMED ALI				
5	NEELKANTH POOSA				

Syllabus

Week 0: Probability Theory, Linear Algebra, Convex Optimization - (Recap)

Week 1: Introduction: Statistical Decision Theory - Regression, Classification, Bias Variance

Week 2: Linear Regression, Multivariate Regression, Subset Selection, Shrinkage Methods, Principal Component Regression, Partial Least squares

Week 3: Linear Classification, Logistic Regression, Linear Discriminant Analysis

Week 4: Perceptron, Support Vector Machines

Week 5: Neural Networks - Introduction, Early Models, Perceptron Learning, Backpropagation, Initialization, Training & Validation, Parameter Estimation - MLE, MAP, Bayesian Estimation

Week 6: Decision Trees, Regression Trees, Stopping Criterion & Pruning loss functions, Categorical Attributes, Multiway Splits, Missing Values, Decision Trees - Instability Evaluation Measures

Week 7: Bootstrapping & Cross Validation, Class Evaluation Measures, ROC curve, MDL, Ensemble Methods - Bagging, Committee Machines and Stacking, Boosting

Week 8: Gradient Boosting, Random Forests, Multi-class Classification, Naive Bayes, Bayesian Networks

Week 9: Undirected Graphical Models, HMM, Variable Elimination, Belief Propagation

Week 10: Partitional Clustering, Hierarchical Clustering, Birch Algorithm, CURE Algorithm, Density-based Clustering

Week 11: Gaussian Mixture Models, Expectation Maximization

Week 12: Learning Theory, Introduction to Reinforcement Learning, Optional videos (RL framework, TD learning, Solution Methods, Applications)

Books and references

1. The Elements of Statistical Learning, by Trevor Hastie, Robert Tibshirani, Jerome H. Friedman (freely available online)

2. Pattern Recognition and Machine Learning, by Christopher Bishop (optional)

Course7: Web development

Code: CBIT/19ITV007

Duration: 30 Hours (Jun 2020)

	Registered & completed student	Total no. of students registered & completed			
1	Manavi Reddy Vemula	1			
2	srija chitikesi	04			
3	ALLA BINDHU SREE REDDY				
4	Pabba Varshith				

Syllabus

WEEK 1

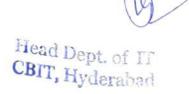
Course Overview and Website Structure and Hosting

This first module provides an overview of how websites function, their structure, and the ins and outs of choosing a website name and selecting an online host to house your website. By the end of this module, you'll be able to: find and select a web hosting company; choose an effective domain name; use the host to manage your websites; and discuss how networks and the internet function at a high level.

Designing Your Own Website: HTML Basics

In this module, we'll begin to explore how to design and create websites by exploring the base language used to power all websites: HTML. By the end of this lesson, you'll be able to: identify and use common HTML tags; add an image to a webpage; create HTML-formatted tables; use hyperlinks to connect a series of webpages; upload your finished HTML pages to a web host; and, learn some tips and tricks for styling pages and practicing your coding.

Introduction to Programming Using JavaScript



Now that you know some basic HTML, it's time to turn our attention to another common scripting language used to make websites dynamic - that is allowing users to interact with your webpages - JavaScript. While learning about JavaScript, you'll also gain some foundational knowledge common to all programming languages. By the end of this module, you'll be able to: discuss what is meant by dynamic content; perform essential programming language tasks; create simple JavaScript programs; use JavaScript to set up alerts and respond to events, to read input, and to change HTML; and conduct basic JavaScript testing.

Websites with Style: CSS Properties, Colors and Fonts

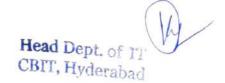
While HTML and JavaScript are very useful for web development, they don't exactly make websites look attractive - that's where cascading style sheets, or CSS, comes into play. While HTML is used to build the structure of our pages and JavaScript is used to provide interactive functionality, CSS is used to graphically design and layout webpages. By the end of this module, you'll be able to: discuss common mistakes in designing a website; identify and apply CSS basics like purpose and syntax; use CSS properties to control fonts, colors, layouts, and other common properties; differentiate between in-line, internal, and external CSS; and practice and test your cascading style sheets.

Course8: Programming for Everybody (Getting Started with Python)

Code: CBIT/19ITV008

Duration: 30 Hours (Jun 2020)

SNO	Registered & completed student Name	Total no. of students registered & completed				
1	Bandaru Anusha					
2	vamshikrishna Aitha					
3	MANAVI REDDY VEMULA					
4	Ritika Yarlagadda					
5	Harsha Vardhan Bashavathini					
6	Poornima Siddineni					
7	Mohammed Mumtaz Ahmed Ali					
8	BHUKYA AKHILA	15				
9	srija chitikesi	15				
10	Chidura Sai Sirichandana					
11	Kothapalli Sri Yagna					
12	Madhvika Dosapati					
13	Swetha Singireddy					
14	Tirumalaraju Venkata Dharma Nivas Varma					
15	Ishika Gupta Programming					



Chapter One - Why we Program?

These are the course-wide materials as well as the first part of Chapter One where we explore what it means to write programs. We finish Chapter One and have the quiz and first assignment in the third week of the class. Throughout the course you may want to come back and look at these materials. This section should not take you an entire week.

Installing and Using Python

In this module you will set things up so you can write Python programs. Not all activities in this module are required for this class so please read the "Using Python in this Class" material for details.

Chapter One: Why We Program (continued)

In the first chapter we try to cover the "big picture" of programming so you get a "table of contents" of the rest of the book. Don't worry if not everything makes perfect sense the first time you hear it. This chapter is quite broad and you would benefit from reading the chapter in the book in addition to watching the lectures to help it all sink in. You might want to come back and re-watch these lectures after you have funished a few more chapters.

Chapter Two: Variables and Expressions

In this chapter we cover how a program uses the computer's memory to store, retrieve and calculate information.

Course9: Technical Support Fundamentals

Code: CBIT/19ITV009

Duration: 30 Hours (Jun 2020)

	Registered & completed	student	Total register	no. red & c	of comple	students eted
	MANAVI REDDY VEMULA					
2	MAMIDI SAI BHARGAVI	02				

Syllabus

Introduction to IT

Welcome to Technical Support Fundamentals, the first course of the IT Support Professional Certificate! By enrolling in this course, you are taking the first step to kickstarting your career in tech. In the first week of the course, we'll learn about how computers were invented, how they've evolved over time, and how they work today. We will also learn about what an "IT Support Specialist" is and what they do in their job. By the end of this module, you will know how to count like a computer using binary and understand why these calculations are so powerful for society. So let's get started!

WEEK 2

Hardware

In the second week of this course, we'll learn about what's inside a computer. We'll learn all about the hardware components or different pieces inside a computer. We'll discover what each component does and how they work together to make a computer function. By the end of this module, you will also know how to build a computer from scratch!

WEEK 3

Operating System

In the third week of the course we will become familiar with operating systems. We discuss the operating systems that are most widely used today and learn how an operating system interacts with computer hardware. We will learn about the startup process of an operating system and show you how to install the Windows, Linux and Mac OS X operating systems from scratch. At the end of this module you will interact directly with the Windows and Linux operating systems via the Qwiklabs environment.

WEEK 4

Networking

In the fourth week of this course, we'll learn about computer networking. We'll explore the history of the Internet and what "The Web" actually is. We'll also discuss topics like Internet privacy, security, and what the future of the Internet may look like. You'll also understand why the Internet has limitations even today. By the end of this module, you will know how the Internet works and recognize both the positive and negative impacts the Internet has had on the world.



Course 10: AWS Fundamentals: Addressing Security Risks

Code: CBIT/19ITV010

Duration: 30 Hours (Apr 2020)

Dura	tion: 30 Hours (Apr 2020)	-444	Total	no.	of	students
SNO	Registered & completed	student	registe	red &		
			01			
1	NEELKANTH POOSA		0.2			

Syllabus

Week - 1

- 1. Introduction to Cyber Space
- 2. Introduction to Information Systems
- 3. Need for Cyber Security

Week - 2

- 4. Introduction to Cyber Attacks
- 5. Classification of Cyber Attacks
- 6. Classification of Malware, Threats

Week - 3

- 7. Vulnerability Assessment
- 8. Intrusion Detection Systems
- 9. Intrusion Prevention Systems

Week - 4

- 10. Introduction to User Authentication Methods
- 11. Biometric Authentication Methods
- 12. Biometric Systems

Week - 5

- 13. Different Security Models and Security Mechanisms
- 14. Information Security and Network Security
- 15. Operating System Security

Week - 6

- 16. Web Security
- 17. Email Security
- 18. Mobile Device Security, Cloud Security

Week - 7

- 19. IoT Security
- 20. Cyber Physical System Security
- 21. Social Media Security

Week - 8

- 22. Virtual Currency
- 23. Block Chain Technology
- 24. Security Auditing

Week - 9

- 25. Cyber Crimes
- 26. Different Types of Cyber Crimes, Scams and Frauds

Week - 10

- 27. Analysis of Crimes, Human Behavior
- 28. Stylometry, Incident Handling

Week - 11

- 29. Investigation Methods
- 30. Criminal Profiling, Cyber Trails

Week - 12

- 31. Digital Forensics, History, Challenges
- 32.Branches of Digital Forensics

Week - 13

- 33.Digital Forensic Investigation Methods
- 34.Reporting, Management of Evidence

Week - 14

- 35.Cyber Law-Basics
- 36.Information Technology Act 2000
- 37. Amendments to IT Act 2000



Week - 15

38. Evidentiary value of Email/SMS, Cybercrimes and Offenses dealt with IPC

39.RBI Act and IPR Act in India

40. Jurisdiction of Cyber Crime, Cyber Security Awareness Tips

Books and references

- https://heimdalsecurity.com/pdf/cyber_security_for_beginners_ebook.pdf
- 2. http://larose.staff.ub.ac.id/files/2011/12/Cyber-Criminology-Exploring-Internet-Crimes-and-Criminal-Behavior.pdf
- 3. http://docshare04.docshare.tips/files/21900/219006870.pdf
- 4. http://index-of.co.uk/Hacking-Coleccion/Insider%20Attack%20&%20Cyber%20Security%20-%20Beyond%20the%20Hacker.pdf
- 5. http://www.uou.ac.in/sites/default/files/slm/FCS.pdf
- 6. https://cyber-cops.com/book_detail

Course 11: AWS: Building Serverless Applications

Code: CBIT/19ITV011

Duration: 30 Hours (Apr 2020)

	tion: 30 Hour				W-4-1	20	of	students
SNO	Registered Name	86	completed	student	registe	no. red & c	100000000000000000000000000000000000000	
1 NEELKANTH		PO	OSA		01			

Syllabus

Module 0: Introduction \square Introduction to the application you will build \square Access to course resources (Student Guide, Lab Guide, and Online Course Supplement)

Module 1: Thinking Serverless □ Best practices for building modern serverless applications □ Event-driven design □ AWS services that support event-driven serverless applications Module 2: API-Driven Development and Synchronous Event Sources □ Characteristics of standard request/response API-based web applications □ How Amazon API Gateway fits into serverless applications □ Try-it-out exercise: Set up an HTTP API endpoint integrated with a Lambda function □ High-level comparison of API types (REST/HTTP, WebSocket, GraphQL)

Module 3: Introduction to Authentication, Authorization, and Access Control ☐ Authentication vs. Authorization ☐ Options for authenticating to APIs using API

Gateway Amazon Cognito in serverless applications Amazon Cognito user pools vs. federated identities
Module 4: Serverless Deployment Frameworks \square Overview of imperative vs. declarative programming for infrastructure as code \square Comparison of CloudFormation, AWS CDK, Amplify, and AWS SAM frameworks \square Features of AWS SAM and the AWS SAM CLI for local emulation and testing
Module 5: Using Amazon EventBridge and Amazon SNS to Decouple Components □ Development considerations when using asynchronous event sources □ Features and use cases of Amazon EventBridge □ Try-it-out exercise: Build a custom EventBridge bus and rule □ Comparison of use cases for Amazon Simple Notification Service (Amazon SNS) vs. EventBridge □ Try-it-out exercise: Configure an Amazon SNS topic with filtering
Module 6: Event-Driven Development Using Queues and Streams Development considerations when using polling event sources to trigger Lambda functions Distinctions between queues and streams as event sources for Lambda Selecting appropriate configurations when using Amazon Simple Queue Service (Amazon SQS) or Amazon Kinesis Data Streams as an event source for Lambda Try-it-out exercise: Configure an Amazon SQS queue with a dead-letter queue as a Lambda event source Hands-On Labs
Hands-On Lab 1: Deploying a Simple Serverless Application □ Hands-On Lab 2: Message Fan-Out with Amazon EventBridge
Day 2
Module 7: Writing Good Lambda Functions □ How the Lambda lifecycle influences your function code □ Best practices for your Lambda functions □ Configuring a function □ Function code, versions and aliases □ Try-it-out exercise: Configure and test a Lambda function □ Lambda error handling □ Handling partial failures with queues and streams
Module 8: Step Functions for Orchestration □ AWS Step Functions in serverless architectures □ Try-it-out exercise: Step Functions states □ The callback pattern □ Standard vs. Express Workflows □ Step Functions direct integrations □ Try-it-out exercise: Troubleshooting a Standard Step Functions workflow
Module 9: Observability and Monitoring □ The three pillars of observability □ Amazon CloudWatch Logs and Logs Insights □ Writing effective log files □ Tryit-out exercise: Interpreting logs □ Using AWS X-Ray for observability □ Tryit-out exercise: Enable X-Ray and interpret X-Ray traces □ CloudWatch metrics and embedded metrics format □ Try-it-out exercise: Metrics and alarms
☐ Try-it-out exercise: ServiceLens Hands-On Labs ☐ Hands-On Lab 3: Workflow Orchestration Using AWS Step Functions ☐
Hands-On Lab 4: Observability and Monitoring
Day 3

Module 10: Serverless Application Security Security best practices for serverless applications Applying security at all layers API Gateway and application security Lambda and application security Protecting data in your serverless data stores Auditing and traceability
Module 11: Handling Scale in Serverless Applications □ Scaling considerations for serverless applications □ Using API Gateway to manage scale □ Lambda concurrency scaling □ How different event sources scale with Lambda
Module 12: Automating the Deployment Pipeline □ The importance of CI/CD in serverless applications □ Tools in a serverless pipeline □ AWS SAM features for serverless deployments □ Best practices for automation □ Course wrap-up Hands-On Labs □ Hands-On Lab 5: Securing Serverless Applications □ Hands-On Lab 6: Serverless CI/CD on AWS

Course12: AWS Fundamentals: Migrating to the cloud

Code: CBIT/19ITV012

Duration: 30 Hours (Apr 2020)

SNO	Registered	86	completed	student	Total	no.	of	students
	Name				registe	red & c	comple	eted
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Syllabus

Week 1

Week 1 of this course introduces the concept of migration and some background material, and we also discuss the format that the rest of the course will follow. You learn about why migration is an important topic, different migration types, and the three-phase migration structure. You also learn about some tools that can help you with learn more about migrations and how to plan them (such as AWS Prescriptive Guidance).

Week 2

Week 2 dives into the assess phase of the migration structure. This week focuses on understanding and evaluating your current infrastructure. Tools such as AWS Migration Evaluator and AWS Migration Hub are crucial to this step of your migration, and discussions with your organization about your business needs for migrating are also critical. Additionally, you should take the time to learn about how your utilization in your on-premises environment translates to AWS services and tools.

Week 3

Week 3 focuses on the mobilize phase of the migration. This week, you learn about the methods and tools that are useful for building a refined migration plan. We discuss getting your team and applications ready for migration, look at services like AWS Application Discovery Service, and cover how the AWS Partner Network (APN) can help you establish your migration plan. To close this section, you learn about AWS Management and Governance, AWS Control Tower, and AWS Landing Zone—tools that can help you prepare for the actual work of migrating applications while also prioritizing security and dependability.

Week 4

In the final week of this course, you focus on the migrate and modernize phase of the migration structure. During week 4, you learn about migrating specific types of components and the services that assist with their migration: AWS Application Migration Service, AWS Database Migration Service, AWS DataSync, AWS Storage Gateway, and the AWS Snow Family. This week closes with some additional resources so that you can continue your self-paced study with AWS.

Course 13: AWS: Going Cloud Native

Code: CBIT/19ITV013

Duration: 30 Hours (Apr 2020)

SNO	Registered Name	&	completed				of	students
1					registered & completed			

Course14: Block Chain

Code: CBIT/19ITV014

Duration: 30 Hours (Jan 2020)

SNO	Registered Name	&	completed	The second second second		of	students
1	NEELKANTH	PO	OSA	01	red & c	omple	ted

Head Dept. of IT

MODULE 1:

Introduction Introduction: Overview of Block chain, History of Blockchain, Peer to Peer Network, Smart Contract, Wallet, Digital Currency, Ledgers, Types of Blockchain Platfrom.

MODULE 2:

Consensus Mechanism

Permissioned Blockchain, Permisionless Blockchain, Different Consensus Mechanism- Proof of Work, Proof of Stake, Proof of Activity, Proof of Burn, Proof of Elapsed Time, Proof of Authority, Proof of Importance.

MODULE 3:

Crypto currency and Wallet

Types of Wallet, Desktop Wallet, App based Wallet, Browser based wallet, Metamask, Creating a account in Metamask, Use of faucet to fund wallet, transfer of cryptocurrency in metamask.

MODULE 4:

Smart contract and Ethereum

Overview of Ethereum, Writing Smart Contract in Solidity, Remix IDE, Different networks of ethereum, understanding blocks practically at blockhcain.com, how to compile and deploy smart contract in remix.

MODULE 5:

Understanding Hyperledger Fabric

Overview of Open source Hyperledger project, Hyperledger Fabric- Architecture, Identities and Policies, Membership and Access Control, Channels, Transaction Validation, Writing smart contract using Hyperledger Fabric.

MODULE 6:

Use Cases

Enterprise application of Block chain: Cross border payments, Know Your Customer (KYC), Food Security, Block chain enabled Trade, We Trade – Trade Finance Network, Supply Chain Financing, Identity on Block chain, Blockchain in energy sector, Blockchain in governance

Books and references

- 1) Blockchain: Blueprint for a New Economy by Melanie Swan
- 2) Mastering Blockchain: Deeper insights into decentralization, cryptography, Bitcoin, and popular Blockchain frameworks by Imran Bashier
- 3) Mastering Ethereum: Building Smart Contracts and DApps by Andrews

Course15: SQL Fundamentals course

Code: CBIT/19ITV015

Duration: 30 Hours (May 2020)

SNO	Registered & completed studen	t Total no. of students registered & completed
1	Poornima siddineni	01

Course16: Java tutorial course

Code: CBIT/19ITV016

Duration: 30 Hours (Apr 2020)

SNO	Registered & completed s	udent Total no. of studen registered & completed
1	Poornima siddineni	01

Introduction to Java

Java is a free and open source high level programming language. It is simple as well as object oriented language. Till date, the Java platform has attracted more than 6.5 million software developers. Java Platform, Standard Edition (Java SE) lets you develop and deploy Java applications on desktops and servers, as well as today's demanding Embedded and Real-Time environments.

From laptops to mobile phones, game consoles to scientific supercomputers, music players to the Internet, Set-top boxes to printers, web-cams to medical devices - that is a huge list, Java is everywhere!!!!!

This set of tutorials will cover features and usage of Java version 1.6.x Please see the associated text box of individual spoken tutorials on the website to decide the versions of Java and OS to which it is applicable.

The Spoken Tutorial effort for Java is contributed jointly by TalentSprint, Hyderabad and the Spoken Tutorial Team, IIT Bombay. Other contributors who helped in the creation of the scripts are Prathamesh Salunke, Arya Ratish, Ashwini Patil. The team received ample guidance from Mr. Ashok Pichai from TalentSprint, Hyderabad.

Books and references

https://spoken-tutorial.org/

Course17: Python 3 tutorial course

Code: CBIT/19ITV017

Duration: 30 Hours (Aug 2020)

SNO	Registered Name	82	completed	Total registe:	no. red & c	of comple	students
1	Thota Ivan			01			

Introduction

to

Python-3.4.3

IIT Bombay is leading the effort to popularise Python for Scientific Computing in India. This is part of the Free and Open source Software for Science and Engineering Education (https://fossee.in) project, supported by the National Mission on Education through ICT of MHRD.

IIT Bombay is using Spoken Tutorials (https://spoken-tutorial.org) to create learning material for FOSS. This is the main page for the organisation of the scripts required for a standard two day workshop we conduct on "Python for Scientific Computing" spoken tutorials.

The Spoken Tutorial effort for Python-3.4.3 was led by Prof Prabhu Ramchandran from IIT BOMBAY. He guided the team and vetted the Course Outline.

Other Contributors : Prathamesh Salunke, Ankit, Nirmala Venkat, Priya and Nancy Varkey.

Books and references

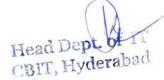
https://spoken-tutorial.org

Course 18: Cloud computing basics

Code: CBIT/19ITV018

Duration: 30 Hours (May 2020)

SNO	Registered Name	&	completed	student	Total register	no. red & c	of omple	students eted
1	NEELKANTH	PO	OSA		01			



Week 1: Introduction to Cloud Computing

Week 2: Cloud Computing Architecture

Week 3: Service Management in Cloud Computing

Week 4: Data Management in Cloud Computing

Week 5: Resource Management in Cloud

Week 6: Cloud Security

Week 7: Open Source and Commercial Clouds, Cloud Simulator

Week 8: Research trend in Cloud Computing, Fog Computing

Week 9: VM Resource Allocation, Management and Monitoring

Week 10: Cloud-Fog-Edge enabled Analytics

Week 11: Serverless Computing and FaaS Model

Week 12: Case Studies and Recent Advancements

Books and references

- 1. Cloud Computing: Principles and Paradigms, Editors: Rajkumar Buyya, James Broberg, Andrzej M. Goscinski, Wiley, 2011
- 2. Enterprise Cloud Computing Technology, Architecture, Applications, Gautam Shroff, Cambridge University Press, 2010
- 3. Cloud Computing Bible, Barrie Sosinsky, Wiley-India, 2010
- 4. Cloud Security: A Comprehensive Guide to Secure Cloud Computing, Ronald L. Krutz, Russell Dean Vines, Wiley-India, 2010

Course19: Core java

Code: CBIT/19ITV019

Duration: 30 Hours (Jun 2020)

SNO	Registered & completed student Name	Total no. of students registered & completed
1	Chidura Sai Sirichandana	•
2	Singiredyy Swetha	02

Week 1: Overview of Object-Oriented Programming and Java

Week 2: Java Programming Elements

Week 3: Input-Output Handling in Java

Week 4: Encapsulation

Week 5: Inheritance

Week 6: Exception Handling

Week 7: Multithreaded Programming

Week 8: Java Applets and Servlets

Week 9: Java Swing and Abstract

Windowing Toolkit (AWT)

Week 10: Networking with Java

Week 11: Java Object Database Connectivity (ODBC)

Week 12: Interface and Packages for Software Development

Books and references

1.Java: The Complete Reference Hebert Schildt, Mc Graw Hill

2. Object-Oriented Programming with C++ and Java Debasis Samanta, Prentice Hall India.

Course20: Google Analytics for beginners

Code: CBIT/19ITV020

Duration: 30 Hours (May 2020)

SNO	Registered & completed student Name	Total no. of students registered & completed
1	SKM Ageel	01

Course21: AI for everyone

Code: CBIT/19ITV021

Duration: 30 Hours (Jun 2020)

SNO	Registered & completed student Name	Total no. of students registered & completed
1	BHUKYA AKHILANDESWARI	
2	Mohammed Mumtaz Ahmed Ali	02



WEEK 1

What is AI?

WEEK 2

Building AI Projects

WEEK 3

Building AI In Your Company

WEEK 4

AI and Society

Course22: Introduction to HTML5

Code: CBIT/19ITV022

Duration: 30 Hours (Jun 2020)

SNO	Registered & completed student Name	Total no. of students registered & completed
1	Ritika Yarlagadda	
2	Rajendar Meti	03
3	Ishika Gupta	

Syllabus

Week One

This week we will uncover the "mystery" behind the Internet. What happens when you type a URL into your browser so that a webpage magically appears? What is HTML5 and what happened to HTML 1 - 4? We will also cover some practical concepts that you need to master before you begin coding your own pages.

Week Two

This week you will need to take a deep breath and jump into coding. I will cover a large number of HTML tags, but it is important that you do more than just

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listen to these video and read the text book material. You need to practice (and fail!) in order to learn. Believe it or not, once you master the basic idea of using tags and attributes you will know everything you need to use any HTML5 tag. The page may not look the way you want it to look yet, but you will be able to use text, links, images, tables, and even music and videos! If you want to refer to a textbook this week for reinforcement of concepts, we will be using the Shay Howe online textbook as a reference. I will include links after the lectures, but some students prefer to read before the videos. (My preferred approach is to read/watch/read again.)

Week Three

Okay, you created a file...what now? This week we will begin by covering the important but often overlooked concepts of validation and accessibility. Did you follow the DOM structure when you created your page? Did you use semantic tags to make sure that page viewers can access all of the information, even if they have physical or cognitive disabilities? This is knowledge you can use if you would like to pursue a career as a web accessibility specialist. Finally I will briefly cover the steps needed to post your site to the web. There are many free and paid services that you can use to get your work off your computer and on to the Internet.

Course23: Interactivity with javascript

Code: CBIT/19ITV023

Dura	tion: 30 Hours (July 2020) Registered & completed student	Total no. of students registered & completed
	Name	03
	Ritika Yarlagadda Saurabh Challawar	
2 3	Ishika Gupta	

Syllabus

Week One: Introduction to JavaScript

If you haven't use a traditional programming language before, this first week is key. Before we begin with the how, we will talk about the why, mainly why we want to use JavaScript. The main reason is that it is very easy for JavaScript to work with the DOM. And easy is always a great way to start. Speaking of starting out, it is also always more fun when our code actually does something we can see, so we will jump quickly into different ways we can generate output. It won't be flashy yet, but it will be a great way to get your feet wet with



traditional programming. After that we go back to the basics of how a computer uses data. We begin with variables, expressions, and operators.

Week Two: Reacting to Your Audience

If you have written HTML code in the past, hopefully you have fallen into the great habit of validating your code -- making sure that you close all of your open tags. There are other rules that you may or may not have been following as well, for instance the importance of using each id attribute only once per page. This is called writing "clean" code. The reasoning and importance of following these rules becomes clear as we begin to manipulate the different components of your webpage based on the the actions of the person interacting with your page. In particular you will learn about the JavaScript Mouse Events and Touch Events. This week's materials will end with a photo gallery example that you can create along with me.

Week Three: Arrays and Looping

This week we will delve into more complex programming concepts: arrays and looping. Arrays allow you to represent groups of related information. Looping provides efficiency and flexibility to your programs. Using both we will expand upon the photo gallery example.

Week Four: Validating Form Data

This week we will put a number of the concepts from this course together to tackle a new project - creating and validating input entered into an HTML5 form. Forms are extremely common elements used to input and send data to via a webpage. We will look at how you can use JavaScript to add options to your forms, to pre-fill data based on previous input, and even to check that passwords match.

Course24: Python Data Structures

Code: CBIT/19ITV024

Duration: 30 Hours (Apr 2020)

SNO	Registered & completed student Name	Total no. of students registered & completed
1	Ritika Yarlagadda	
2	Harsha Vardhan Bashavathini	
3	BHUKYA AKHILANDESWARI	
4	Ishika Gupta	
5	Kothapalli Sri Yagna	08
6	M adhvika Dosapati	
7	srija chitikesi	
8	Saurabh Challawar	



Week 1:

Informal introduction to programmin, algorithms and data structures viaged Downloading and installing Python gcd in Python: variables, operations, control flow - assignments, condition-als, loops, functions

Week 2:

Python: types, expressions, strings, lists, tuples

Python memory model: names, mutable and immutable values

List operations: slices etc

Binary search

Inductive function denitions: numerical and structural induction

Elementary inductive sorting: selection and insertion sort

In-place sorting

Week 3:

Basic algorithmic analysis: input size, asymptotic complexity, O() notation

Arrays vs lists

Merge sort

Ouicksort

Stable sorting

Week 4:

Dictionaries

More on Python functions: optional arguments, default values

Passing functions as arguments

Higher order functions on lists: map, lter, list comprehension

Week 5:

Exception handling Basic input/output Handling files String processing

Week 6:

Backtracking: N Queens, recording all solutions Scope in Python: local, global, nonlocal names

Nested functions

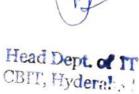
Data structures: stack, queue

Heaps

Week 7:

Abstract datatypes

+- 03



Classes and objects in Python "Linked" lists: find, insert, delete Binary search trees: find, insert, delete Height-balanced binary search trees

Week 8:

Effcient evaluation of recursive definitions: memoization

Dynamic programming: examples

Other programming languages: C and manual memory management

Other programming paradigms: functional programming

Course25: Capstone: Retrieving, Processing, and Visualizing Data with

Python

Code: CBIT/19ITV025

Duration: 30 Hours (July 2020)

	Registered & completed student Name	Total no. of students registered & completed
1	Harsha Vardhan Bashavathini	
2	Ishika Gupta	02

Syllabus

WEEK 1

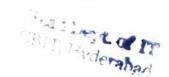
Welcome to the Capstone

Congratulations to everyone for making it this far. Before you begin, please view the Introduction video and read the Capstone Overview. The Course Resources section contains additional course-wide material that you may want to refer to in future weeks.

WEEK 2

Building a Search Engine

This week we will download and run a simple version of the Google PageRank Algorithm and practice spidering some content. The assignment is peer-graded, and the first of three optional Honors assignments in the course. This a continuation of the material covered in Course 4 of the specialization, and is based on Chapter 16 of the textbook.



Exploring Data Sources (Project)

The optional Capstone project is your opportunity to select, process, and visualize the data of your choice, and receive feedback from your peers. The project is not graded, and can be as simple or complex as you like. This week's assignment is to identify a data source and make a short discussion forum post describing the data source and outlining some possible analysis that could be done with it. You will not be required to use the data source presented here for your actual analysis.

WEEK 4

Spidering and Modeling Email Data

In our second optional Honors assignment, we will retrieve and process email data from the Sakai open source project. Video lectures will walk you through the process of retrieving, cleaning up, and modeling the data.

Course26: C for everyone:Programming Fundamentals

Code: CBIT/19ITV026

Duration: 30 Hours (May 2020)

SNO	Registered & completed student Name	Total no. of students registered & completed
1	SWATHI JAISHETTY	01

Syllabus

WEEK
THE ART OF PROGAMMING METHODOLOGY
Part A: Problem Solving - Flow Chart for Structured Programming - Program
Charts - System Charts - Variables, data names, programming statements Flow Chart Symbols - Terminal Symbols - I/O - Comments - Connectors Process - Decision - Loops - Flow Charts of Fundamental Algorithms
(mentioned in Part B)

Part B: Algorithm Design - Problem Solving Aspect - Top Down Design - Formal Conventions - Writing Algorithms - Fundamental Algorithms (Discuss the Design of Algorithms only).

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THE ART OF

PROGAMMING

METHODOLOGY

Part C: Program, Characteristics of a good program - Modular Approach - Programming style - Documentation and Program Maintenance - Compilers and Interpreters - Running and Debugging Programs - Syntax Errors - Run-Time Errors - Logical Errors - Concept of Structured Programming.

C-FUNDAMENTALS

Fundamental facts about computer and computer languages - Machine language, symbolic languages, high level languages - keywords in C - basic data types - variables, constants, statements and the scope of variables in C programmes etc.

WEEK

03

MANIPULATING DATA OPERATORS AND EXPRESSIONS

Expressions and operators - Binary arithmetical operators, unary arithmetical operators, assignment operators, relational and logical operators, conditional operators - Hierarchy or the order in which operators work when many of them are in use simultaneously. Library functions and their uses

INPUT AND OUTPUT IN C PART -1

Standard input and output library - C input functions like getchar, gets, getch, scanf, etc - The header file 'stdio.h'.

Week 04: INPUT AND OUTPUT IN C PART -2

Standard input and output library (STDIO) - Console input/output library (CONIO) - The function printf - Function 'puts' - sprintf and sscanf functions - The conio library functions such as clreol, clrscr, delline, gettext, gotoxy, textbackground, textcolor etc

CONTROL STRUCTURES IN C PART - I

Structured programming language - Control instructions - Flow of control - Conditional and Unconditional control structures - selective constructs such as Conditional expression, if - else, switch-case etc.

Week 05: CONTROL STRUCTURES IN C PART - II

Loop control statements - Entry controlled loop (pre-test loop) - Exit controlled loop (post-test loop) - while - do while - for - Break, continue, goto, label statements

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C PROGRAMMING WITH ARRAYS

Scalar data types - Derived data types - Arrays - one-dimensional array - two-dimensional array - Multidimensional array - Character arrays.

FUNCTIONS IN 'C'

Modular Programming Approach - Built-in functions or user-defined functions - main () - formal parameters and actual parameters - Function Call - passing by value, passing by reference (address) - void - recursion - Recursive Functions

WEEK-06

STORAGE CLASSES OF VARIABLES IN C

Storage class - auto, static, extern, register and typedef - scope of variables - Static variables - extern variables - Register variables - typedef variables

WEEK

-07

POINTERS IN C PART - I

Pointer variables - & operator - * operator - Arrays and pointers - Array of pointers - Pointer to an array - Character arrays.

POINTERS IN C PART - II

Declaration of the pointer variable - Static and dynamic memory allocation - malloc (), calloc () functions - free () - main () - Standard parameters argc and *argv[].

Week 08:

STRUCTURE AND UNION IN C

Structure data type - 'struct' data type - Prototype of the structure - Structure variable. dot (.) operator, Nested structure - Array of structures operator -> Union

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FILE MANAGEMENT IN C PART -1

File - fopen() - read (r), write (w), and append (a) - fprintf() - putc() - fclose()

WEEK-09

FILE MANAGEMENT IN C PART - 2

fscanf() function - end of file character (EOF) - Fgets() function - NULL character - Database files - fseek(), feof(), fread()

COMPILATION AND EXECUTION

Compilation and execution of a programme - Editor used to write the source code - Pre-processor - Compiler - Assembler - Linker - Library object files -Executable code - Integrated development environments (IDE) - Turbo C - The syntax prototyping of concept

LOW LEVEL PROGRAMMING AND SOME ADDITIONAL FEATURES OF C

define statement - C pre-processor - facts related to macros in C, Wrong macros, register variables, bit fields and bitwise operations, enumeration and - Bitwise operations enum type variables - Command line arguments Enumeration constants in C - Command line parameters

Books and references

B. W. Kernighan and D. M. Ritchie, The C Programming Language, Prentice-Hall

Yashavant Kanetkar; Let us C, BPB Publications, New Delhi.

Greg Perry, Absolute Beginners' guide to C, SAMS Publishing

Course27: Build Your First Android App

Code: CBIT/19ITV027

Duration: 30 Hours (Jun 2020)

SNO	Registered & completed student Name	Total no. of students registered & completed
1	Machendar Gujja	01



Android app using Kotlin

Android is an open source and Linux-based Operating System for mobile devices such as smartphones and tablet computers.

Android Studio is the official IDE for android application development. App development on Android was almost exclusively done using the Java programming language.

Kotlin is a new open source programming language built by JetBrains, known for IntelliJ IDEA (Android Studio is based on IntelliJ IDEA). Kotlin is a language that runs on the JVM (Java Virtual Machine).

Google has announced Kotlin as an official language on Android. Kotlin, is a statically typed programming language for the JVM, Android and the browser. It's deep interoperability with Java, which attracts more Java developers. It is tools-friendly as IDE gives suggestions for Kotlin code, can convert Java code to Kotlin code. It is expressive and makes your code more readable and understandable.

The Android app, source code and the content for this tutorial was contributed by Abhishek Shah, a 2018 FOSSEE intern of the Spoken-Tutorial Project from Birla Vishvakarma Mahavidyalaya Engineering College, Gujarat.

The Spoken Tutorial effort for Android app using Kotlin has been contributed by Nirmala Venkat and supported by Saurabh Adhikary and Nancy Varkey from Spoken Tutorial roject, IIT Bombay.

Course28: Using python access the web data

Code: CBIT/19ITV028

Duration: 30 Hours (Sep 2020)

SNO	Registered & completed student Name	Total no. of students registered & completed
1	Rohithkumar Keshetti	
2	Harsha Vardhan Bashavathini	03
3	Ishika Gupta	

Syllabus

WEEK 1

Getting Started

In this section you will install Python and a text editor. In previous classes in the specialization this was an optional assignment, but in this class it is the first requirement to get started. From this point forward we will stop using the browser-based Python grading environment because the browser-based Python environment (Skulpt) is not capable of running the more complex programs we will be developing in this class.

WEEK 2

Regular Expressions

Regular expressions are a very specialized language that allow us to succinctly search strings and extract data from strings. Regular expressions are a language unto themselves. It is not essential to know how to use regular expressions, but they can be quite useful and powerful.

WEEK 3

Networks and Sockets

In this section we learn about the protocols that web browsers use to retrieve documents and web applications use to interact with Application Program Interfaces (APIs).

WEEK 4

Programs that Surf the Web

In this section we learn to use Python to retrieve data from web sites and APIs over the Internet.

Course29: Using databases with python

Code: CBIT/19ITV029

Duration: 30 Hours (July 2020)

SNO	Registered & completed student Name	Total no. of students registered & completed
1	Harsha Vardhan Bashavathini	01

Syllabus

WEEK 1

Object Oriented Python

To start this class out we cover the basics of Object Oriented Python. We won't be writing our own objects, but since many of the things we use like BeautifulSoup, strings, dictionaries, database connections all use Object Oriented (OO) patterns we should at least understand some of its patterns and terminology.

WEEK 2

Basic Structured Query Language

We learn the four core CRUD operations (Create, Read, Update, and Delete) to manage data stored in a database.

WEEK 3

Data Models and Relational SQL

In this section we learn about how data is stored across multiple tables in a database and how rows are linked (i.e., we establish relationships) in the database.

WEEK 4

Many-to-Many Relationships in SQL

In this section we explore how to model situations like students enrolling in courses where each course has many students and each student is enrolled in many courses.

Course 30: Capstone: Retrieving, Processing, and Visualizing Data with

Python

Code: CBIT/19ITV030

Duration: 30 Hours (Jun 2020)

SNO	Registered & completed student Name	Total no. of students registered & completed
1	Harsha Vardhan Bashavathini	
2	Ishika Gupta	02

Course31: Carrer Edge-knockdown the lockdown

Code: CBIT/19ITV031

Duration: 30 Hours (May 2020)

SNO	Registered & completed student Name	Total no. of students registered & completed
1	Kalyani Manda	
2	Shravani thumukunta	03
3	Gayathri vavilala	

Syllabus

DAY 1: Communicate to Impress

DAY 2: Deliver Presentations with Impact

DAY 3: Develop Soft Skills for the Workplace

DAY 4: Gain Guidance from Career Gurus

DAY 5: Write a Winning Resume and Cover Letter

DAY 6: Stay Ahead in Group Discussions

DAY 7: Ace Corporate Interviews

DAY 8: Learn Corporate Etiquette

DAY 9: Write Effective Emails

DAY 10: Learn Corporate Telephone Etiquette

DAY 11: Understand Accounting Fundamentals

DAY 12: Gain Foundational Skills in IT

DAY 13: Understand Artificial Intelligence (AI) - Part 1

DAY 14: Understand Artificial Intelligence (AI) - Part 2

DAY 15: Assessment

Course32: Artificial Intelligence, Machine learning & Internet of Things

Code: CBIT/19ITV032

Duration: 30 Hours (Jun 2020)

SNO	Registered & completed student Name	Total no. of students registered & completed
1	Dineesha	02
2	MOHAMMED MUMTAZ AHMED ALI	

Course33: Introduction to Data Science in Python

Code: CBIT/19ITV033

Duration: 30 Hours (June 2020)

SNO	Registered & completed student Name	Total no. of students registered & completed
1	SONA GUDUR	02
2	Rohithkumar Keshetti	

Syllabus

Week 1:

BASICS OF PYTHON SPYDER (TOOL)

- Introduction Spyder
- Setting working Directory
- Creating and saving a script file
- File execution, clearing console, removing variables from environment, clearing environment
- Commenting script files
- Variable creation
- Arithmetic and logical operators
- Data types and associated operations

Week 2:

Sequence data types and associated operations

Strings

Lists

- Arrays
- Tuples
- Dictionary
- Sets
- Range

NumPy

ndArray

Week 3:

Pandas dataframe and dataframe related operations on Toyota Corolla dataset

- 1. Reading files
- 2. Exploratory data analysis
- 3. Data preparation and preprocessing

Data visualization on Toyoto Corolla dataset using matplotlib and seaborn libraries

- 4. Scatter plot
- 5. Line plot
- 6. Bar plot
- 7. Histogram
- 8. Box plot
- 9. Pair plot

Control structures using Toyota Corolla dataset

- 10. if-else family
- 11. for loop
- 12. for loop with if break
- 13. while loop

Functions

Week 4: CASE STUDY

Regression

14. Predicting price of pre-owned cars

Classification

Classifying personal income

Books and references

1. Introduction to linear algebra - by Gilbert Strang 2. Applied statistics and probability for engineers - by Douglas Montgomery 3. Mastering python for data science, Samir Madhavan

Course34: Machine learning for all

Code: CBIT/19ITV034

Duration: 30 Hours (May 2020)

SNO	Registered & completed student Name	Total no. of students registered & completed
1	Kothapalli Sri Yagna	01

Syllabus

- Week 0: Probability Theory, Linear Algebra, Convex Optimization (Recap)
- Week 1: Introduction: Statistical Decision Theory Regression, Classification, Bias Variance
- Week 2: Linear Regression, Multivariate Regression, Subset Selection, Shrinkage Methods, Principal Component Regression, Partial Least squares
- Week 3: Linear Classification, Logistic Regression, Linear Discriminant Analysis
- Week 4: Perceptron, Support Vector Machines
- Week 5: Neural Networks Introduction, Early Models, Perceptron Learning, Backpropagation, Initialization, Training & Validation, Parameter Estimation MLE, MAP, Bayesian Estimation
- Week 6: Decision Trees, Regression Trees, Stopping Criterion & Pruning loss functions, Categorical Attributes, Multiway Splits, Missing Values, Decision Trees Instability Evaluation Measures
- Week 7: Bootstrapping & Cross Validation, Class Evaluation Measures, ROC curve, MDL, Ensemble Methods Bagging, Committee Machines and Stacking, Boosting
- Week 8: Gradient Boosting, Random Forests, Multi-class Classification, Naive Bayes, Bayesian Networks
- Week 9: Undirected Graphical Models, HMM, Variable Elimination, Belief Propagation
- Week 10: Partitional Clustering, Hierarchical Clustering, Birch Algorithm, CURE Algorithm, Density-based Clustering
- Week 11: Gaussian Mixture Models, Expectation Maximization
- Week 12: Learning Theory, Introduction to Reinforcement Learning, Optional videos (RL framework, TD learning, Solution Methods, Applications)

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Books and references

1. The Elements of Statistical Learning, by Trevor Hastie, Robert Tibshirani, Jerome H. Friedman (freely available online)

2. Pattern Recognition and Machine Learning, by Christopher Bishop (optional)

Course35: Operating systems and you

Code: CBIT/19ITV035

Duration: 30 Hours (July 2020)

SNO	Registered & completed student Name	Total no. of students registered & completed
1	MAMIDI SAI BHARGAVI	02

Syllabus

WEEK 1

Navigating the System

Welcome to the Operating Systems course of the IT Support Professional Certificate! In the first week of this course, we will cover the basics of Windows and Linux operating systems (OS). We will learn about how directories and files work in Windows and Linux OS. You will also learn practical ways to manipulate files and directories in the Windows graphical user interface (GUI), Windows command line interface (CLI), and Linux shell. By the end of this module, you will interact with files and directories and perform basic text manipulation in Windows and Linux OS.

WEEK 2

Users and Permissions

In the second week of this course, we'll learn about configuring users and permissions in Windows and Linux OS. As an IT Support Specialist, it's important to know how to grant the appropriate permissions to users and groups for both Windows and Linux OS. By the end of this module, you will know how to add, modify, and remove users for a computer and for specific files and folders by using the Windows GUI, Windows CLI, and Linux shell.

WEEK 3



Package and Software Management

In the third week of this course, we'll learn about package and software management in Windows and Linux OS. It's important to know how package installs work and how devices and drivers are managed within these operating systems. We will also learn about different packaging and file compression methods. By the end of this module, you will know how to create, update, and remove software by using the Windows GUI, Windows CLI and Linux shell.

WEEK 4

Filesystems

In the fourth week of this course, we'll learn about how filesystems work for Windows and Linux OS. We'll learn about filesystem types and why they're different for certain OS. We'll learn about disk partitioning and virtual memory and why these are so important for an IT Support Specialist's role. We'll also cover ways mount and unmount filesystems, read disk usage, and repair filesystems. By the end of this module, you will partition and format a disk drive yourself in both Windows and Linux.

Course36: Fundamentals of Visualization with Tableau

Code: CBIT/19ITV036

Duration: 30 Hours (May 2020)

SNO	Registered & completed student Name	Total no. of students registered & completed
1	SKM AQEEL	01

Syllabus

WEEK 1

Data Visualization and Its Importance

In this module, you will be able to define what data visualization is and discuss why it's so important. You will listen to an interview with Dr. Ben Shneiderman, a modern pioneer of data visualization. You will be able to define interactive visualization and install Tableau Public so you can start to get acquainted with it for the next module. You will be able to make a simple viz so you can clearly see what skills are used in the process.

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WEEK 2

Getting to Know Tableau for Data Visualization

In this module, you will be able to identify and describe the various parts that make up the welcome screen, worksheet screen, and dashboard screen.

WEEK 3

Let's Make a Viz!

In this module, you'll be able to identify potential questions to answer with a given dataset. You will be able to make three different charts: a line chart, a tree map, and a bar chart. You will be able to create a dashboard with those charts, and be able to add some simple dashboard interactions.

WEEK 4

Tableau Community Projects and Visualization Best Practices

In this module, you will be able to discuss where to get help. You will also be able to discuss where to go for inspiration and how to get involved in the Tableau community. You will be able to discuss and apply 5 data visualization best practice and participate in a Makeover Monday project.

Course37: Introduction to Search Engine Optimization

Code: CBIT/19ITV037

Duration: 30 Hours (Apr 2020)

SNO	Registered & completed student Name	Total no. of students registered & completed
1	M Keerthana Reddy	02

Syllabus

WEEK 1

Introduction to Optimizing a Website for Google Search

Welcome to week 1! As you may remember from Module 4 within the last course, Search Engine Optimization Fundamentals, keywords are an extremely important tool for helping your customers find you in an often crowded field. Effective use of keywords on your optimized website can result in free targeted traffic to your site, helping you to reach your business goals. In this module, you will use the keyword research you conducted in the last course and you will learn a process for selecting the best keywords to optimize your website in



search results. We will look at concepts like relevancy to the site, keyword intent, how competitive the keyword is in organic search, and how well that term might convert once it receives traffic. We'll also discuss how to identify and evaluate competitors, how to map keywords to pages, and how to create a keyword map for your clients and your own site. There is a lot to discuss in our first module, so if you are taking this course without learning the materials of module 4 within the SEO Fundamentals course, I highly recommend you complete that module before diving into this one. So, let's get started learning how to apply keyword research!

WEEK 2

Advanced SEO Strategies

Welcome to module 2! While keywords help users locate relevant web pages, it's the content itself that determines whether a click converts to a sale or increased site traffic. In many corners of the SEO world, the expression "Content is King" is a generally accepted rule, and in this module we'll examine content from many perspectives: how to analyze it, organize it, create it, make it great and build it into our strategies. You'll also learn how to conduct effective competitive content analysis and internal content audits. You'll learn how to create a site-wide content strategy building on the data we uncover in our study and analysis of content. And finally, you'll review the topic of local SEO, what local SEO is, and how it is both similar to and different from regular SEO tactics and best practices. Let's get started!

WEEK 3

Mobile/App SEO and Metrics & KPIs

Welcome to module 3! We will go over mobile/app SEO and Metrics and KPIs. You will learn how to optimize your app in app stores and incorporate keywords and keyword tags. You will also understand what A/B testing is and how it applies to app optimization. We will discuss the value of screenshots and how they play a role in user downloads. We will then review reasons why KPIs impact SEO efforts and how ROI is used to determine if a project was profitable. Lastly, we will discuss survey findings and how they help prepare you for successes and challenges in a career in SEO and why forecasting SEO impact is vital. We have a lot to cover, so let's get started!

WEEK 4

Creating an SEO Campaign

Welcome to module 4! In this module, we are going to discuss the human factor of SEO - how to manage your relationship with clients. We'll talk about what should be discussed in the critical first meetings, how to manage your

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client's expectations, and how to track and report on progress toward your client's goals. By the end of this module, you'll have developed a solid approach for achieving a productive and successful relationship with your client.

Course38: Crash course on python

Code: CBIT/19ITV038

Duration: 30 Hours (May 2020)

SNO	Registered & completed student Name	Total no. of students registered & completed
1	ALLA BINDHU SREE REDDY	01

Syllabus

WEEK 1

Hello Python!

In this module we'll introduce you to the Coursera platform and the course format. Then, we'll dive into the basics of programming languages and syntax, as well as automation using scripting. We'll also introduce you to the Python programming language and some of the benefits it offers. Last up, we'll cover some basic functions and keywords of the language, along with some arithmetic operations.

WEEK 2

Basic Python Syntax

In this module you'll learn about different data types in Python, how to identify them, and how to convert between them. You'll also learn how to use variables to assign data and to reference variables. You'll deep dive into functions: how to define them, pass them parameters, and have them return information. You'll explore the concepts of code reuse, code style, and refactoring complex code, along with effectively using code comments. Finally, you'll learn about comparing data using equality and logical operators, and leveraging these to build complex branching scripts using if statements.

WEEK 3

Loops

In this module you'll explore the intricacies of loops in Python! You'll learn how to use while loops to continuously execute code, as well as how to identify infinite loop errors and how to fix them. You'll also learn to use for loops to

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iterate over data, and how to use the range() function with for loops. You'll also explore common errors when using for loops and how to fix them.

Strings, Lists and Dictionaries

In this module you'll dive into more advanced ways to manipulate strings using indexing, slicing, and advanced formatting. You'll also explore the more advanced data types: lists, tuples, and dictionaries. You'll learn to store, reference, and manipulate data in these structures, as well as combine them to

Course39: Use wordpress to create a blog for business

Code: CBIT/19ITV039

Duration: 30 Hours (Jun 2020)

SNO	Registered & completed student Name	Total no. of students
1	ALLA BINDHU SREE REDDY	registered & completed
	TOO REDDY	02

Course40: Python basics

Code: CBIT/19ITV040

Duration: 30 Hours (May 2020)

	Registered & completed student Name	Total no. of students
	Ritika Yarlagadda	registered & completed
	Turiagadda	01

Syllabus

WEEK 1

General Introduction

In week one you will be introduced to programming in python through lectures and the Runestone textbook - an interactive online textbook built for this course. By the end of the module, you will have run your first python program, and learned how to draw images by writing a program.

WEEK 2

Sequences and Iteration

In week two you will use the lectures and the Runestone textbook to understand the basics of a few python data types - lists, strings, tuples - as

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well as a control structure - for loops. By the end of this week, you will be able to write more complex programs that create drawings by incorporating for loops. Finally, we will present the basics of an accumulation pattern to you, which will be expanded on in each week for the rest of the course.

WEEK 3

Booleans and Conditionals

In week three you will learn a new python data type - the boolean - as well as another control structure - conditional execution. Through the use of video lectures and the Runestone textbook, you will learn what Binary, Unary, Nested, and Chained Conditionals are, as well as how to incorporate conditionals within an accumulation pattern.

WEEK 4

Sequence Mutation and Accumulation Patterns

In week four we will present deeper knowledge on using lists, strings, and python objects in general. We will also cover how to use the accumulation pattern with lists and with strings. The final assignment will test your knowledge and skills through application, much like previous assessments and assignments did, though with a more difficult set of tasks now that you have learned the basics.

Course41: Introduction to Data Science in Python

Code: CBIT/19ITV041

Duration: 30 Hours (Jun 2020)

SNO	Registered & completed student Name	Total no. of students registered & completed
1	Dineesha	02
2	MOHAMMED MUMTAZ AHMED ALI	

Course42: Python 3 programming

Code: CBIT/19ITV042

Duration: 30 Hours (Jun 2020)

SNO	Registered & completed student Name	Total no. of students registered & completed
1	MOHAMMED TOUHEED PATEL	02

Course43: Introduction to Software Product Management

Code: CBIT/19ITV043

Duration: 30 Hours (Apr 2020)

SNO	Registered & completed student Name	Total no. of students registered & completed
1	M Keerthana Reddy	02

Syllabus

WEEK 1

Module 1: Software Product Management - The Discipline

Are you ready to start? Our starting point will be the goal of software product management, and that is to build better software. We will delve into the role of the software product manager, where you will hear from software industry representatives. This module will also cover the path which you will take through this specialization, which offers to prepare you for taking on a software product manager role.

WEEK 2

Module 2: Foundations of Software Product Management

Welcome to the second half of Introduction to Software Product Management. In this module you will learn the philosophy, core values, and principles of Agile software development. The Agile philosophy has reshaped modern software development. Challenge yourself by thinking about how you would deliver a successful software product within the "triangle" of (a) meeting client needs, (b) delivering on schedule, and (c) staying within budget. This module will also preview software product management in four foundational areas: establishing a process, defining requirements, planning the work, and monitoring development. You'll see the important role they play in producing better software.

Course44: Excel skills for business:essentials

Code: CBIT/19ITV044

Duration: 30 Hours (Aug 2020)

SNO	Registered & completed student Name	Total no. of students registered & completed
1	ALLA BINDHU SREE REDDY	02



Syllabus

WEEK 1

Critical Core of Excel

In this module, you will learn about key foundational features of Excel: The Excel user interface, basic Excel terminology, how to operate essential navigational controls in Excel and how to perform basic data entry with Excel spreadsheets.

WEEK 2

Performing calculations

The syntax of formulas is very important in Excel. In this module, you will get introduced to formulas and functions - learn how to write them, use them to perform calculations and understand the different cell references.

WEEK 3

Formatting

Formatting helps to highlight key messages and make the data presentable. This module covers several formatting tools like font formatting, borders, alignment, number formatting, as well as the Excel styles and themes.

WEEK 4

Working with Data

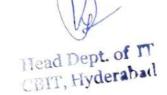
This module is all about working with data – and making it easy to work with. This week you will learn how you can manage your spreadsheets – find data with Filter and Sort, retrieve and change data using Find and Replace, and use Conditional Formatting to highlight specific data.

Course45: Finance for Non Financial Professionals

Code: CBIT/19ITV045

Duration: 30 Hours (Jun 2020)

SNO	Registered & completed student Name	Total no. of students registered & completed
1	Anusha Prakash Dasari	02



Syllabus

WEEK 1

Foundations of Finance and Accounting

WEEK 2

Costing

WEEK 3

Financial Ratios

WEEK 4

Valuation

Course46: Introduction to Cybersecurity Tools & Cyber Attacks

Code: CBIT/19ITV046

Duration: 30 Hours (May 2020)

SNO	Registered & completed student Name	Total no. of students registered & completed
1	Saurabh Challawar	02

Syllabus

WEEK 1

History of Cybersecurity

This module will give you a brief overview of the history of cybersecurity. You will also learn key terms and roles in cybersecurity.

WEEK 2

A brief overview of types of actors and their motives

This module will provide you with a brief overview of types of actors and their motives. You will also understand different types of attacks and their impact on an organization and individuals. You will also learn about tools that are available to you to assist in any cybersecurity investigation.

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An overview of key security concepts

This module will describe various key security concepts that are important in any cybersecurity position. The CIA Triad will be further explained. You will also begin to learn the significance of incident response and frameworks around cybersecurity. Finally, you will get an overview of IT Governance best practices and compliance.

WEEK 4

An overview of key security tools

In this module, you will be introduced to key security tools including firewalls, anti-virus and cryptography. You will explore penetration testing and digital forensics. You will learn where you can get resources on industry and current threats to assist in further research around cybersecurity.

Course47: COSC

Code: CBIT/19ITV047

Duration: 30 Hours (Aug 2020)

SNO	Registered & completed student Name	Total no. of students registered & completed
1	SREEVANI PASAM	O1

Course48: Full Stack Development

Code: CBIT/19ITV048

Duration: 30 Hours (July 2020)

SNO	Registered & completed student Name	Total no. of students registered & completed
1	Rohithkumar Keshetti	02

Syllabus

WEEK 1

Get started with web development

In this module, you will learn about the different types of web developers and the roles and responsibilities of front-end, back-end, and full-stack developers.



You will take a first look at the core technologies of HTML, CSS, and Javascript and explore the concepts that underpin how the internet works.

WEEK 2

Introduction to HTML and CSS

In this module you will learn how to construct HTML documents and add basic styling and layout using CSS.

WEEK 3

UI Frameworks

In this module you will learn how to use the Bootstrap framework to build responsive interfaces and the benefits of working with UI frameworks.

WEEK 4

End-of-Course Graded Assessment

In this module, you will be assessed on the key skills covered in the Course.

Course49: Java and python

Code: CBIT/19ITV049

Duration: 30 Hours (Aug 2020)

SNO	Registered & completed student Name	Total no. of students registered & completed
1	Shreya Oruganti	02

Course 50: TensorFlow In Practice

Code: CBIT/19ITV050

Duration: 30 Hours (May 2020)

SNO	Registered & completed student Name	Total no. of students registered & completed
1	NEELKANTH POOSA	02



Syllabus

WEEK 1

A New Programming Paradigm

Welcome to this course on going from Basics to Mastery of TensorFlow. We're excited you're here! In Week 1, you'll get a soft introduction to what Machine Learning and Deep Learning are, and how they offer you a new programming paradigm, giving you a new set of tools to open previously unexplored scenarios. All you need to know is some very basic programming skills, and you'll pick the rest up as you go along. To get started, check out the first video, a conversation between Andrew and Laurence that sets the theme for what WEEK 2

Introduction to Computer Vision

Welcome to week 2 of the course! In week 1 you learned all about how Machine Learning and Deep Learning is a new programming paradigm. This week you're going to take that to the next level by beginning to solve problems of computer vision with just a few lines of code!

Check out this conversation between Laurence and Andrew where they discuss it and introduce you to Computer Vision! WEEK 3

Enhancing Vision with Convolutional Neural Networks

Welcome to week 3! In week 2 you saw a basic Neural Network for Computer Vision. It did the job nicely, but it was a little naive in its approach. This week we'll see how to make it better, as discussed by Laurence and Andrew here.

Using Real-world Images

Last week you saw how to improve the results from your deep neural network using convolutions. It was a good start, but the data you used was very basic. What happens when your images are larger, or if the features aren't always in the same place? Andrew and Laurence discuss this to prepare you for what you'll learn this week: handling complex images!

Course51: Advanced Styling with Responsive Design

Code: CBIT/19ITV051

Duration: 30 Hours

SNO	Registered & completed student Name	Total no. of students registered & completed

Syllabus

WEEK 1

Week One: Style with Responsive Design

What does it mean to have responsive design for your site? How can you tell if your existing site is responsive? This week we will begin with the theories behind the "mobile-first paradigm" - the idea that your mobile site should provide everything needed, not a pared-down version of a good page. We end the week by taking the first concrete step of using fluid measurements in your CSS.

WEEK 2

Week Two: Basic Concepts

This week you will get a chance to put the theories into practice using media queries in your CSS. These queries can automatically detect the size of the browser being used to view the page so that you can decide what type of look you want to achieve. There will also be a discussion on common practices for designing your different views at various screen sizes ("viewports").

WEEK 3

Week Three: Use Existing Frameworks

After every good programmer has put in time creating sites from scratch, it is common to utilize existing tools out there. After all, why recreate the wheel? The work you have done up to this point will give you the knowledge needed to craft your own unique sites from these frameworks. This week we will work with Bootstrap, a framework that uses HTML5, CSS, and JavaScript (but don't worry if you have never used JavaScript yourself).

WEEK 4

Week Four: Experiment!

This week is dedicated to solving those little issues that pop up when you move from theory to practice. We look at more advanced framework options and also hear from people who are using the techniques covered in this course.

Head Dept. of IT

"BOT Aspirant" Robotic Process Automation

Head Dept. of IT CBIT, Hyderaba



COMMITTED TO RESEARCH, INNOVATION AND EDUCATION YEAR





IT is excited to announce a short duration learning gram to its students to help building critical skills on potic Process Automation.

he wake of the coronavirus (Covid-19,) organizations are ning to RPA to mitigate business disruptions and advance blic health, keep global supply chains moving and ternments afloat.

e bring the learning program to extend the support to the dents to build the skills online using Automation ywhere University platform.

the students are advised to take advantage of the ogram and stay essential at the fast-changing workforce.

out Robotic Process Automation:

botic Process Automation is simple—and powerful siness process automation software.

botic Process Automation enables you with tools to ate your own software robots to automate any business ocess. Your "bots" are configurable software set up to form the tasks you assign and control.

A really is for everyone. And the benefits of RPA span all sustries and business units. Applying RPA for business occass automation is limited only by the imagination and ting bots to work has never been easier, with a growing rketplace of ready-made, ready-to-deploy Digital orkers available on demand, requiring no specialized IT restructure.

out Automation Anywhere

tomation Anywhere is a global leader in Robotic Process romation (RPA), empowering customers to automate to-end business processes with software bots – digital orkers that perform repetitive and manual tasks, resulting dramatic productivity gains, improved customer perience and more engaged employees. The company ers the world's only web-based and cloud native elligent automation platform combining RPA, artificial elligence, machine learning and analytics right out of the x, to help organizations rapidly start and scale their occess automation journey.

ith offices in more than 40 countries and a global network 1,200 partners, Automation Anywhere has deployed over 7 million bots to support some of the world's largest terprises across all industries.

or additional information

at www.automationanywhere.com.

Program benefits:

- Understand the nuances of Robotic Process Automation
- Building the basic capabilities to develop Software Bots using Automation Anywhere tools and technologies
- Students will receive Bot Aspirant online badge after successful completion of the learning trail

"BOT ASPIRANT"

AF

Learning outcomes

- Understand the concepts of Digital Workforce Development & Robotic Process Automation
- Describe how Automation Anywhere's RPA tool can be used for creating software robots (Bots)
- Describe the new features of the Automation Anywhere client to build the Bots

Content of Learning program - 12 Hours

- 1. Hello Bot: Introduction to RPA and Use Cases v11 (3 hours)
- 2. Build the digital work force (5 hours)
- 3. Storing and Manipulating Data: How to Automate Database-related Processes (30 Mins)
- 4. Automating Excel Operations: Methods to Work with Excel Workbooks (30 Mins)
- Working with PDF Documents: Methods to Automate PDF-Related Processes (30 Mins)
- Automating Structured Data: How to Work with XML Streams (30 mins)
- 7. Automating String Operations: Methods to Manipulate and Extract Strings (30 mins)
- 8. Communicating with Email Servers: Methods to Automate Email Messages (30 mins)
- Communicating with Emulators: How to Automate Terminal Applications (30 mins)
- 10. Unleash Your Intelligent Bots: Developing Cognitive Bots, driven by Al & Developing (IQ Bot) (30 Mins)
- 11. Bot Story: Where Automation Meets Analytics Using Bot Insight V11.0 (2 hours)

To join the program: Click Here

Head Dept. of I



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Learning from Home

An Initiative by CBIT in association with Automation Anywhere



Presents

"BOT ASPIRANT"

An E-Learning Certification Program on RPA for Students of CBIT

Kindly Refer the Brochure for outcomes and benefits of the Program

Register at: https://forms.gle/Fkoha3GPKbK3pZYP7

For further information, contact

CSE: Mrs G. Shanmukhi Rama -9949438284

IT: Mrs.K.Swathi-9491388749

ECE: Mr.G.Mallikharjuna Rao-9866047394

Head Dept. of IT CBIT, Hyderabad

CHAITANYA BHARATHI INSTITUTE OF TECHNOLOGY, HYDERABAD - 75 RPA Training Program 3 days attended Faculty and Students List

Faculty List:

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٥	Y. Prasada Rao	Computer Operator	Placement Office	Placement Office vorasadchif@amail.com	070402020
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COMMITTED TO RESEARCH, INNOVATION AND EDUCATION Years

A Memorandum of Understanding is executed on the day 22nd of February 2019 between CBIT and Automation Anywhere for Robotic Process Automation (RPA) initiatives.

AAU Established RPA CoE in Lab 4 of CDC Providing 40 Licenses.

The following Faculty are being trained.

Ms. G. Shanmukhi, Mr. U. Sai Ram Mr. G. Mallikharjuna Rao are being trained on RPA Software Version 11.3 at Bangalore from 20th Jan-24th Jan 2020.

RPA - Working Group

S. No.	Name of the Faculty	Designation	Dept	Email id	Contact No.
1	Mr. R. Srikanth	Asst. Professor	CSE	rsrikanth_cse@cbit.ac.in	8978259394
2	Ms. G. Shanmukhi	Asst. Professor	CSE	shanmukhi.rama@cbit.ac.in	9949438284
3	Ms. K. Swathi	Asst. Professor	IT	kswathi_it@cbit.ac.in	9491388749
4	Mr. U. Sai Ram	Asst. Professor	IT	usairam_it@cbit.ac.in	8143364133
5	Mr. GNR Prasad	Assoc. Professor	MCA	gnrp@cbit.ac.in	9885 191 683
6	Mr. G. Mallikharjuna Rao	Asst. Professor	ECE	mallikarjunarao_ece@cbit.ac.in	9866047394
7	Mr. C. SriSailam	Asst. Professor	EEE	srisailamc_eee@cbit.ac.in	9032838993

AAU Will Provide

- E-learning access to those Students enrolled in the Course.
- · Licenses as per terms in Section 3 of this Agreement.
- Work with the CBIT(A) to set up the CoE, including installing the Software and providing Documentation.
- Certification test materials needed to test Students for AAI certification Issue the AAI
 certification to those students who have successfully completed the certification course.
- Faculty members attend AAI train-the-trainer courses, and have those who have successfully completed such course be tested for AAI train-the-trainer certification.
- Train Students using only Faculty Who are already AAI certified trainers.
- Opportunity to enroll in the Course, and conduct and oversee Student's participation in the Course



Exchanging of MOU between CBIT & Automation Anywhere University (RPA) on 31.01.2019

Head Dept. of 22 CBIT, Hyderabad





RPA Training Programmes For Faculty & Students by Mr. Kunal Banerjee, from 19-21.03.2019 at Placement Online Exam Centre







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