DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

List of value-added courses offered outside Curriculum (CSE):

Sno	Name of the Course	Academic Year
1	Coder's Club	2020-21
2	Code Tantra for Data Structures/Problem Solving	2020-21
3	Edyst for C Programming	2020-21



G. PULLAREDDY ENGINEERING COLLEGE (Autonomous):: KURNOOL

G Pulla Reddy Engineering College (Autonomous): Kurnool Coders' Club Report 2020-21

Code powers our digital world. Coding is an incredible skill that engages both our creative and problem-solving skills. In today's world that is increasingly influenced by software, we need to produce graduates with outstanding problem solving and coding abilities. Coders' Club at GPREC strives to meet this objective.

The main objectives of this club are to empower our students to:

- Solve problems using Math, Data structures & Algorithms.
- Write correct, efficient and elegant code.
- Crack the coding interviews at product based companies.
- Compete with students studying at other top institutes.
- Clear all the rounds in programming contests like CodeVita.
- Participate in Hackathons.

We had the following activities directed by the club

Regular Classes

Regular classes were guided by Sri A. Vishnuvardhan Reddy of Computer Science & Engineering department. Different topics based on Math, Data structures & Algorithms, Coding and Problem solving were covered.

Review Classes

These classes were supervised to clear the doubts of other students by the volunteers of the club. These classes also helped students to interact with their seniors.

• Programming Contests

Different contests based on coding were conducted on different programming platforms like Hacker Rank etc.,

• Activities

Many activities which are helpful to the students in their interview process like technical group discussion, coding quiz, finding the output etc., were conducted on alternative weeks.

Classes and other activities:

S.N				No. of	
Ŭ				Participa	
	Date	Duration	Participants	nts	Торіс
			2nd and 3rd		
1	23-09-2020	1 hour	year	41	Coding contest
					About ifytq program, Introduction to
2	25-09-2020	2 hours	3rd year	126	python
3	26-09-2020	2 hours	3rd year	133	Installation of Python, Different IDEs
4	09-10-2020	2 hours	3rd year	138	Variables and data types
5	10-10-2020	1 hours	3rd year	99	data types
		1.30	3rd year		
6	16-10-2020	hours		141	Operators in Python
		1.30	3rd year		
7	17-10-2020	hours		111	Input and Output statements
			2nd and 3rd		
8	17-11-2020	1 hour	year	32	Input/output Arrays and Strings
	10 11 2020	1	2nd and 3rd	20	Binary search and recursion in
9	18-11-2020	1 nour	year	28	competitive programming
10	19-11-2020	1 hour	Zhu anu Shu Vear	33	Fenwick trees and Segment trees
11	08-12-2020	2 hours	3rd year	171	Problem solving
12	10-12-2020	2 hours	3rd year	170	Object Oriented Concepts
13	15-12-2020	2 hours	3rd year	152	Collections in python
14	17-12-2020	2 hours	3rd year	136	Output formatting
15	22-12-2020	2 hours	3rd year	1/7	Strings in python
15	22-12-2020	2 110013		147	Problem solving using previously
16	24-12-2020	2 hours	3rd vear	157	covered topics
17	29-12-2020	2 hours	, 3rd year	141	Control statements
18	31-12-2020	2 hours	3rd year	146	Conditional Statements
19	05-01-2021	2 hours	3rd year	158	Problem solving
20	07-01-2021	2 hours	3rd year	149	Problem solving
21	12-01-2021	2 hours	3rd year	136	Lists and its operations
22	28-01-2021	2 hours	3rd year	144	Object Oriented Concepts
23	02-02-2021	2 hours	3rd year	148	Problem solving
24	04-02-2021	1 hours	3rd year	134	Files in python

		1.30	2nd and 3rd		Time and space complexities,
25	04-02-2021	hour	year	46	Specifications of data types
		1.30	2nd and 3rd		
26	06-02-2021	hour	year	39	Bit manipulation and mathematics
27	09-02-2021	2 hours	3rd year	130	Dictionary and its operations
20		1.15		20	
28	09-02-2021	hour	3rd year	29	Arrays and Strings
20	11-02-2021	min	3rd year	156	Tunle and sets
25	11 02 2021		2nd and 3rd	150	
30	12-02-2021	1 hour	year	30	Searching and sorting.
31	26-03-2021	2 hours	3rd year	134	Inheritance
32	26-03-2021	3 hour	3rd year	110	Polymorphism
33	29-03-2021	2 hours	3rd year	154	Abstract Classes
34	31-03-2021	3 hour	3rd year	31	Exception Handling
35	22-04-2021	2 hours	3rd year	202	Introduction to Python Programming
36	24-04-2021	2 hours	3rd year	164	Operators in Python
37	26-04-2021	2 hours	3rd year	191	Conditional and Iterative Statements
38	28-04-2021	2 hours	3rd year	200	formatted output, strings
39	29-04-2021	2 hours	3rd year	173	Linked list using List
40	30-04-2021	2 hours	3rd year	183	Functions
41	03-05-2021	2 hours	3rd year	152	Strings in python
					Stacks, Queue using List, Dqueue using
42	04-05-2021	2 hours	3rd year	161	list
43	11-05-2021	2 hours	3rd year	156	Problem solving
44	12-05-2021	2 hours	3rd year	145	Lists and its operations
45	17-05-2021	2 hours	3rd year	140	Sets and its operations
46	18-05-2021	2 hours	3rd year	143	Singly Linked lists
47	19-05-2021	2 hours	3rd year	167	Dictionary and its operations
48	20-05-2021	2 hours	3rd year	133	Dictionary and its operations
49	21-05-2021	2 hours	3rd year	162	Dictionary problems
50	24-05-2021	2 hours	3rd year	166	Functions
					Doubly Linked Lists, Stack using nodes
51	25-05-2021	2 hours	3rd year	140	structures
50	26.05.2024	2	2.1	1.00	Variable length arguments, local and
52	26-05-2021	2 nours	3rd year	169	global variables
53	27-05-2021	2 hours	3rd vear	138	Linked list
54	31-05-2021	2 hours	3rd year	157	modules packages lambda functions
			. ,		Linear Search, Binary search, Binary
55	01-06-2021	2 hours	3rd year	135	search using recursion, Bubble sort
56	02-06-2021	2 hours	3rd year	158	Exception Handling
57	03-06-2021	2 hours	3rd year	122	Insertion sort, Selection sort
58	07-06-2021	2 hours	3rd year	121	Merge Sort
59	08-06-2021	2 hours	3rd year	113	Count sort, First duplicate problem

60	10-06-2021	2 hours	3rd year	118	Hashing
61	11-06-2021	1.5 hour	3rd year	107	Chaining using linked list

Student achievements:

- 79 students cleared the **TCS CodeVita** contest
- 297 students cleared the **INFYTQ** screening test
- 116 students cleared the **INFYTQ** contest
- 5 Students cleared the INFYTQ upgrade test conducted by Infosys.
- 36 students cleared the **HackwithInfy-Round1** contest by Infosys
- 10 students cleared the **HackwithInfy-Round2** contest by Infosys
- 7 students got Infosys offer through **HackwithInfy**
- Initiated a MoU process with **CodeChef** to have CodeChef GPREC Chapter
- 15 students did their internship in OtrunAi.
- 74 students got Infosys offer through **Infytq**.
- One student got 16th rank in TCS Codevita season 9 second round.

Volunteers:

- Anantharaju Meghana III Year CSE
- Bandi Padma Sree III Year CSE
- Madineni Srujana III Year CSE
- Shetty Naga Sharanya III Year CSE
- Samhita N III Year CSE
- Rangam Reddy Yaswanth Kumar Reddy III Year CSE
- Kadiam Naga Swathi III Year CSE
- Gangisetty Lakshmi Ratnanjali III Year CSE
- M S Madhavan Iyer III Year CSE
- Goud Sri Sai Ajith III Year CSE
- Munagala Vijay III Year CSE
- Harika Ramisetty III Year ECE
- Tharun Chowdary III Year ECE



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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Hebeon Course Content

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Operators	4	4	3	1	75	Very Good		1
Loops	5	5	4	1	80	Very Good		Sta
Arrays	5	5	5	0	100	Excellent		
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Code Tantra Course Content for Programming for Problem Solving

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	7	Program to keep reading positive integers as input until you press -1 and print the average of only the prime numbers you have read.	*	Programming For Problem Solving Lab - Scherne - 2020 - 1 Year 1 Sem / Job Programs / Programs	
	8	Write a C program to check whether the given number is Strong number or not Clock Here.	·	Programming For Problem Solving Lab - Scheme - 2020 - 1 Yoor I-Serry / Lab Programs / Programs	
		Program to find the count of digit 3 Choc Here	*	Proprieming For Problem Solving Lab - Scheme - 2020 - L Vesir 1 Sem / Lab Programs / Programs Occur (Setters)	
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17	Program to perform addition, subtraction, multiplication and division of two complex numbers using structures to functions Click Here	~	Programming Por Problem Solving Lab - Scherre - 2000 - 1 Year I Sen / Lab Programs / Programs	
18	Program to read details (volinit, name, dob, rigpla) of N students dynamically, store the data using structure (use nested structure for dob) and display all the details.		Programming For Problem Solving Lab - Scheme - 2000 - 1 Vesr 1 Sen / Lab Programs / Programs Comp/cellar	
19	Program to read a test file, convert all the lowercase characters into uppercase and re-write the uppercase characters into another file. Click mere	*	Programming For Problem Solving Lab - Schierne - 2000 - 1 Weer I Sien / Lab Programs / Programs	
20	Program to write a text that has commas into a file and mad that text, replace commas with serve colons and write it into another file.	*	Programming for Problem Sching Lab - Scheme - 2020 - 1 Year I Sem / Lab	



Code Tantra Course Content for Data Structures

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G Pulla Reddy Engineering College (Autonomous): Kurnool Coders' Club Report 2020-21

Code powers our digital world. Coding is an incredible skill that engages both our creative and problem solving skills. In today's world that is increasingly influenced by software, we need to produce graduates with outstanding problem solving and coding abilities. Coders' Club at GPREC strives to meet this objective.

The main objectives of this club are to empower our students to:

- Solve problems using Math, Data structures & Algorithms.
- Write correct, efficient and elegant code.
- Crack the coding interviews at product based companies.
- Compete with students studying at other top institutes.
- Clear all the rounds in programming contests like CodeVita.
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We had the following activities directed by the club

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Regular classes were guided by Sri A. Vishnuvardhan Reddy of Computer Science & Engineering department. Different topics based on Math, Data structures & Algorithms, Coding and Problem solving were covered.

• Review Classes

These classes were supervised to clear the doubts of other students by the volunteers of the club. These classes also helped students to interact with their seniors.

• Programming Contests

Different contests based on coding were conducted on different programming platforms like HackerRank etc.,

• Activities

Many activities which are helpful to the students in their interview process like technical group discussion, coding quiz, finding the output etc., were conducted on alternative weeks.

Classes and other activities:

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1.302nd and 3rdTime and space complexities,2504-02-2021houryear46Specifications of data types2606-02-2021houryear39Bit manipulation and mathematics2709-02-20212 hours3rd year130Dictionary and its operations	24	04-02-2021	1 hours	3rd year	134	Files in python
2504-02-2021houryear46Specifications of data types1.302nd and 3rd1.302nd and 3rd1.302606-02-2021houryear39Bit manipulation and mathematics2709-02-20212 hours3rd year130Dictionary and its operations			1.30	2nd and 3rd		Time and space complexities,
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2606-02-2021houryear39Bit manipulation and mathematics2709-02-20212 hours3rd year130Dictionary and its operations			1.30	2nd and 3rd		
27 09-02-2021 2 hours 3rd year 130 Dictionary and its operations	26	06-02-2021	hour	year	39	Bit manipulation and mathematics
	27	09-02-2021	2 hours	3rd year	130	Dictionary and its operations
1.15			1.15			
28 09-02-2021 hour 3rd year 29 Arrays and Strings	28	09-02-2021	hour	3rd year	29	Arrays and Strings
1hr 30	20	11 02 2024	1hr 30	and year	150	Tuple and cote
29 11-02-2021 min 3rd year 156 Tuple and sets	29	11-02-2021	min	Sid year	120	rupie and sets
30 12-02-2021 1 hour year 30 Searching and sorting	30	12-02-2021	1 hour	Zilu allu 3lu Vear	30	Searching and sorting

31	26-03-2021	2 hours	3rd year	134	Inheritance
32	26-03-2021	3 hour	3rd year	110	Polymorphism
33	29-03-2021	2 hours	3rd year	154	Abstract Classes
34	31-03-2021	3 hour	3rd year	31	Exception Handling
35	22-04-2021	2 hours	3rd year	202	Introduction to Python Programming
36	24-04-2021	2 hours	3rd year	164	Operators in Python
37	26-04-2021	2 hours	3rd year	191	Conditional and Iterative Statements
38	28-04-2021	2 hours	3rd year	200	formatted output, strings
39	29-04-2021	2 hours	3rd year	173	Linked list using List
40	30-04-2021	2 hours	3rd year	183	Functions
41	03-05-2021	2 hours	3rd year	152	Strings in python
					Stacks, Queue using List, Dqueue using
42	04-05-2021	2 hours	3rd year	161	list
43	11-05-2021	2 hours	3rd year	156	Problem solving
44	12-05-2021	2 hours	3rd year	145	Lists and its operations
45	17-05-2021	2 hours	3rd year	140	Sets and its operations
46	18-05-2021	2 hours	3rd year	143	Singly Linked lists
47	19-05-2021	2 hours	3rd year	167	Dictionary and its operations
48	20-05-2021	2 hours	3rd year	133	Dictionary and its operations
49	21-05-2021	2 hours	3rd year	162	Dictionary problems
50	24-05-2021	2 hours	3rd year	166	Functions
					Doubly Linked Lists, Stack using nodes
51	25-05-2021	2 hours	3rd year	140	structures
50	26.05.2024	2 h a	2	1.00	Variable length arguments, local and
52	26-05-2021	2 nours	3rd year	169	global variables
53	27-05-2021	2 hours	3rd year	138	Linked list
54	31-05-2021	2 hours	3rd year	157	modules packages lambda functions
					Linear Search, Binary search, Binary
55	01-06-2021	2 hours	3rd year	135	search using recursion, Bubble sort
56	02-06-2021	2 hours	3rd year	158	Exception Handling
57	03-06-2021	2 hours	3rd year	122	Insertion sort, Selection sort
58	07-06-2021	2 hours	3rd year	121	Merge Sort
59	08-06-2021	2 hours	3rd year	113	Count sort, First duplicate problem
60	10-06-2021	2 hours	3rd year	118	Hashing
61	11-06-2021	1.5 hour	3rd year	107	Chaining using linked list

Student achievements:

- 79 students cleared the **TCS CodeVita** contest
- 297 students cleared the **INFYTQ** screening test
- 116 students cleared the **INFYTQ** contest
- 5 Students cleared the INFYTQ upgrade test conducted by Infosys.

- 36 students cleared the HackwithInfy-Round1 contest by Infosys
- 10 students cleared the **HackwithInfy-Round2** contest by Infosys
- 7 students got Infosys offer through **HackwithInfy**
- Initiated a MoU process with CodeChef to have CodeChef GPREC Chapter
- 15 students did their internship in OtrunAi.
- 74 students got Infosys offer through **Infytq**.
- One student got 16th rank in TCS Codevita season 9 second round.

Volunteers:

- Anantharaju Meghana III Year CSE
- Bandi Padma Sree III Year CSE
- Madineni Srujana III Year CSE
- Shetty Naga Sharanya III Year CSE
- Samhita N III Year CSE
- Rangam Reddy Yaswanth Kumar Reddy III Year CSE
- Kadiam Naga Swathi III Year CSE
- Gangisetty Lakshmi Ratnanjali III Year CSE
- M S Madhavan Iyer III Year CSE
- Goud Sri Sai Ajith III Year CSE
- Munagala Vijay III Year CSE
- Harika Ramisetty III Year ECE
- Tharun Chowdary III Year ECE

Thanking you,

Yours sincerely,

A Vishnuvardhan Reddy Assistant Professor, CSE dept, GPREC, Kurnool.



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