

## Algorithmic Problem Solving [17ECSE309] CIE Activity List 2023

### Activity List

SI. No.	Activity	Marks	Deadline
1.	INFathon 3.0 at Informatica	05	18 Feb 2023
2.	Code Library	05	31 March 2023
3.	15 Days of DS	05	04 March 2023
4.	Query Fortnight	05	Within 15 March 2023
5.	Q-Box	10	10 April 2023
6.	Online Contests	10	10 April 2023
7.	ISA 1	15	HackerEarth Feb Circuits
8.	ISA 2	15	HackerEarth March Circuits
<b>Total Marks</b>		70	

18-02 to 04-03

### Course Links

Si. No.	Description	Link
1	Course Resources	<a href="https://tinyurl.com/aps-2023-resources">tinyurl.com/aps-2023-resources</a>
2	APS Honest Dashboard	<a href="https://tinyurl.com/aps-honest-dashboard-2023">tinyurl.com/aps-honest-dashboard-2023</a>
3	CIE	TBA

## Activity Details

### INFathon 3.0 at Informatica

Marks: 05

Platform: As per Informatica Rules

Link: <https://informatica.gr8people.com/talent-pools/35425/infathon-30>

Participate in the contest which is happening on Feb 18<sup>th</sup> 2023.

Send the screenshot of your participation to [prakash.hegade@kletech.ac.in](mailto:prakash.hegade@kletech.ac.in) with appropriate details and subject line. To score 5 marks, it is mandatory to participate in Round 1. Entering to Round 2 and winning can earn you bonus marks.

### Code Library

Marks: 05

Platform: Github

Build your own code library of 100 codes in any language

Example: <https://github.com/prakashbh/day-today-codes>

Send the link of your repo to [prakash.hegade@kletech.ac.in](mailto:prakash.hegade@kletech.ac.in) with appropriate details and subject line. Please keep you repo public.

### 15 Days of DS

Marks: 05

Platform: Various Platforms

A 15 days challenge where each day you need to do an assigned task. The assignment will be made available on 12 Feb in course resource drive. You need to complete this before 04 March 2023. The submission template will also be made available in the same directory. This activity prepares you will all the required DS basics.

Final submission will be made via email and will have intermediate submissions on various other platforms.

### Query Fortnight

Marks: 05

Platform: HackerRank

An assortment of problems will be hosted on HackerRank on array query theme algorithms. The contest will be active for a week. This will be a unique problem based activity set to improve your algorithmic thinking and design skills. There will be a week of intense design classes followed by week of intense coding.

Marks will be assigned according to leader board status.

### Q-Box

Marks: 10

Frame 2 competitive programming questions one easy level and one medium. Medium level question must involve an algorithm and have strong and larger test cases. Atleast one question must have few test cases in MB's. The submission template and other details are available in course resources drive. Send your questions to [prakash.hegade@kletech.ac.in](mailto:prakash.hegade@kletech.ac.in) with appropriate details. The submission must strictly adhere to template data provided. Questions must not be plagiarised from internet. All submissions will be verified through turn-it-in tool.

### Online Contests

Marks: 10

Platform: Codeforces, LeetCode, HackerEarth, SPOJ, TopCoder, etc

Participate in any 10 contests hosted by above platforms and solve atleast one problems in each contest. The contest has to be hosted between 12 Feb 2023 to 10 April 2023.

You will be sending your profile id, screenshot of your contest score, and other details to [prakash.hegade@kletech.ac.in](mailto:prakash.hegade@kletech.ac.in) with appropriate details and subject line. A template of submission for this will be made available in resources drive.

Of 10, there are some mandatory contests that you must take. Here are the following:

- Take atleast 03 Mock assessment from HackerEarth  
(<https://www.hackerearth.com/practice/interviews/mock-assessment/>) from the companies Adobe, Google, Amazon, Facebook etc.
- Take atleast one of the starters from CodeChef
- Take atleast one of the weekly contest from LeetCode

### **General Notes:**

When you email a submission kindly following the below guidelines

- Subject Line: APS [Activity Name] Submission. Example: APS Q-Box Submission
- In the body of the email include your name, SRN and school
- Name your files as activity-name.docx. Example: q-box-omkar.docx
- Avoid sending zip/rar files (send .doc or pdf files)
- Submissions cannot be made on WhatsApp

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