**CODING CLUB**

**PROPOSAL FOR COMPETITIVE CODING INITIATIVE**

**BRIEF**

We the students of MIET Jammu of 5th semester want to make a humble request of taking an initiative of leading COMPETITIVE CODING for 1st and 3rd semester. The coding club would solely be directed to project based learning and visualisations. We hope to achieve a high quality coding environment among the students of the MIET and prepare the students for the market by enhancing their problem solving abilities and the ability to understand a problem in a much better way so as they come with much more efficient solutions to the problems. We hope to leave a legacy of high performance coders who will motivate the upcoming generation of students. Our goal will solely lead to generate a high performance coders.

**MOTIVATION**

It is always said to be the change you want to see in society. We are an integral part of the future of our country and want all around us to flourish and prosper in the best possible way.

As we know India alone produces more computer science engineer than most of the northern and south eastern countries combined. In this situation it becomes almost impossible to compete and exist as a established entity. Almost 85% of indian engineers are either unemployed or are not fit for any job at all. This is the cause of the failed western culture that has been integrated to the Indian college education system that keeps producing employees with a bottlenecked mindset and the need for an external motivation. It brings the members of this club immense disgust to see the stats and the consequences that has shaped the engineering environment in india in such a terrible form. People in India Need to realise that what people are taught and what is required by the market is completely different .

We the members of the CODING CLUB group do not want to support or promote this environment of failed society that is not even able to prove its worth.

Before the situation becomes even tougher and Students of MIET end up unemployed or good for nothing an initiative needed to be taken for a coding club that not only improve the intellect of the student but also developes an ability of problem solving .

**OBJECTIVE**

The main objective of the coding club is to develop and uplift an environment of competitiveness and high intellect.

Our objective will revolve around the approach to solve the real world problems irrespective of the language we choose to solve the problem in.

We as being the seniors for the 1st semster student want the 1st semester students to be influenced and motivated by such a positive environment that enables them to think and act in an innovative way.

We want to develop a skill of solving the problems in the minds

before even writing the code among all the students. This way the students will be able to completely understand a given problem and workout multiple approaches to the solution.

To teach is to learn. So, while conducting the sessions, the group members will also learn along and add students to our group- both seniors and juniors who are extremely excited to solve real world problems and gain some exceptional skills.

**CAUSES**

# **•** The coding club will play a great role in enhancing the overall competitive environment among the students of all the semesters .

# **•** It will play a great role in building a sense of problem solving among the students in a very young age .

# **•** The coding club will provide all the necessary tools and hardwares that are required to solve a particular real world problem so the students get all the top notch resources and they get no reason to not being able to code and implement a machine learning model .

**CHALLENGES**

1. Internet issues in the college premises as only 50 users are able to connect to a single modem.
2. Not everyone has the same capability and interest towards coding and solving real world problems .
3. The students might picture the coding club sessions as an addition to the curriculum and might skip the classes so as in order to not build up the burden and feel pressurised .

**APPROACH**

We will create groups of people who have expertise in particular domain and will deploy them at certain time slots to teach and enlighten the students. Our approcah is completely going to be the Visualisation and project based learning. The students will be made to visualise and implement solutions as well so that they try to understand the problem completely before writing the code. We will conduct small mooc test , MCQ problem statements and try to engage as much students as we can .

We will introduce competitive platforms like Code Chef , Leet Code , HackerRank etc so as the students aslo get to showcase the level of problems that the students are able to solve. We will also encourage the students to develop their LINKEDIN and GITHUB profiles. So the recruiter would get an amazing impression the moment they take a look at the profiles and résumés.

**KEY OUTCOMES**

**•** Improved quality of conversation among the young students.

**•** Better chances of employment through top notch companies.

**•** Increased involvement of students in coding competitions, hackathons, seminars and technical events .

**•** Better grasp on multiple languages to solve a particular problem in different ways.

**•** Developing a sense of competitivenes among the students so as to grow and improve as a group.

**•** Leaving a legacy of high performance coders and problem solvers that shape the world the way it needs to be.

**WORKFLOW**

**•** We will start with the basics of programmig languages irrespective of the programming language and move our way ahead to the complex programming , doing the project work as well while we progress .

**•** We will introduce new age technologies and ways to write and run programs so as to make the solution more efficient and fast.

We will try and engage more student to the mooc tests and MCQ interactive sessions so the students learn and grow together as a group .

**•** Then we will work towards the competitiveness among the students , by introducing the competitive platforms like Code Chef , Hacker Rank , Leet code , Algoexpert.io etc.

**•** After this we will work on the professional profiles of the student a the platforms like the GITHUB , LINKEDIN etc. by giving them proper resources and training so that their profiles get highlighted and short listed the moment someone lays eyes on the profile .

**•** This will be followed by encouraging deserving students to join our coding club to continue the legacy for high performance coders that we leave behind.