

Habib University

Summer Tehqiq Project 1

Developing a course on

Competitive Programming

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Introduction

Our research aims to develop a comprehensive course on competitive programming.

Questions?



1. What are the Core Concepts?

2. How to Design an Effective Curriculum?

3. What are the Best Resources to use?

4. How to Measure the Effectiveness?

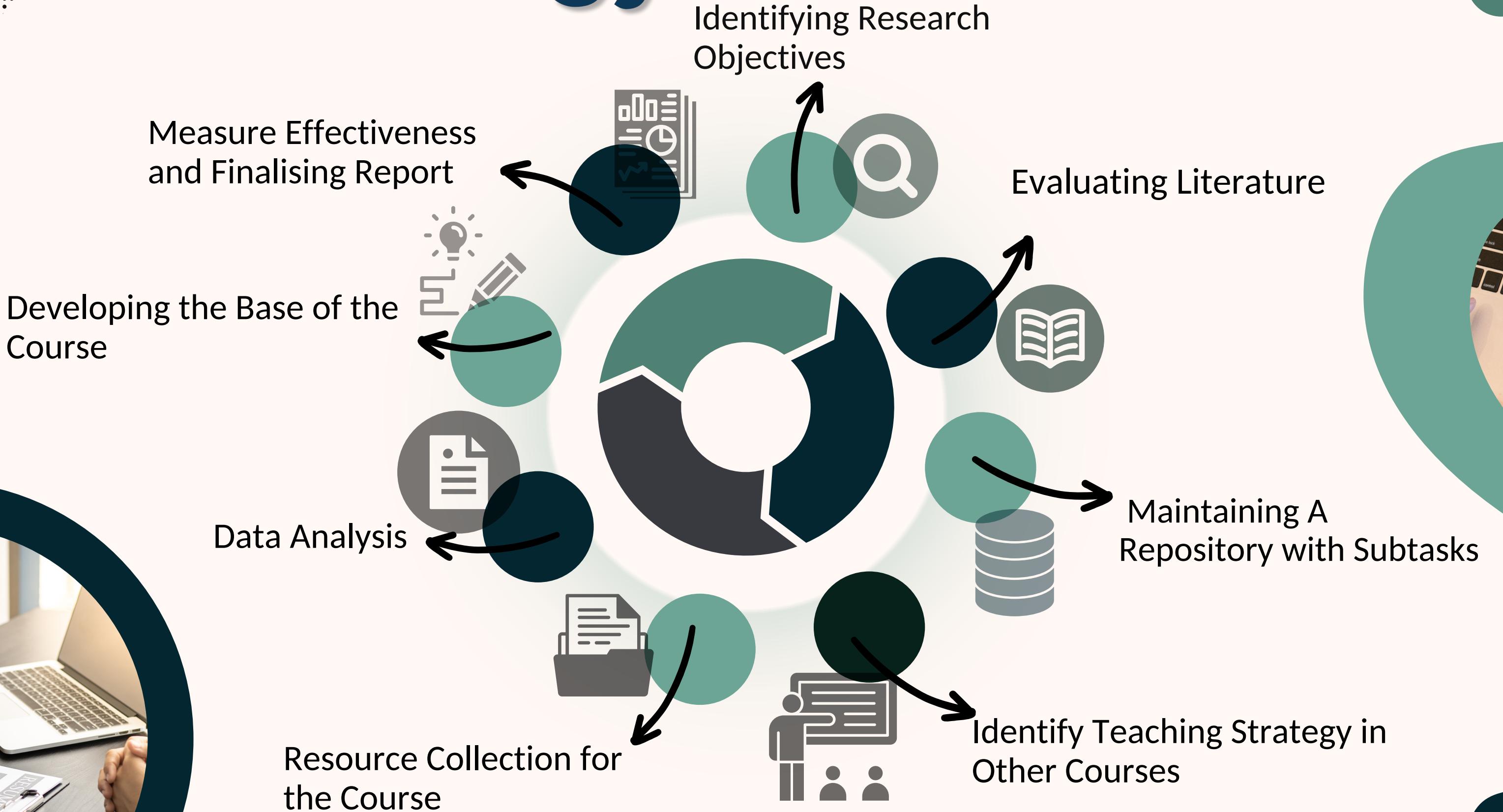
Literature Review

1.
Papers on
**Design/Implementation
of a Specialised Course
in Competitive
Programming**

2.
**Review of Existing
Courses**

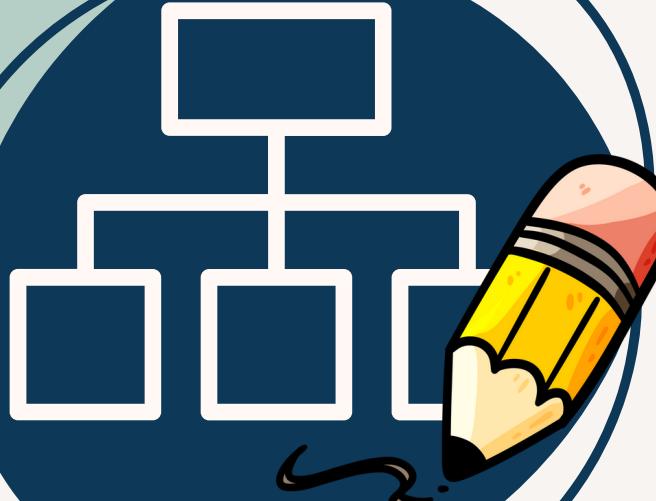
3.
**Research on
Methods/Metrics to
measure Course
Effectiveness**

Methodology



Preliminary Findings

- Common Patterns of Teaching and the Concepts taught in Competitive Programming Courses.
- Coding Platforms and their strengths and weaknesses.
- Teaching methods to avoid lectures and slide-based learning.
- The common assessment methods used and their grading policy.
- The best books used for learning competitive programming.



Course Structure



Grading Policy



Resource Collection



Identify Core Topics



Weekly Division

Current Progress



Attempting courses



Topic Matrix



Course Topics Finalised



Weekly Division



Evaluating Literature

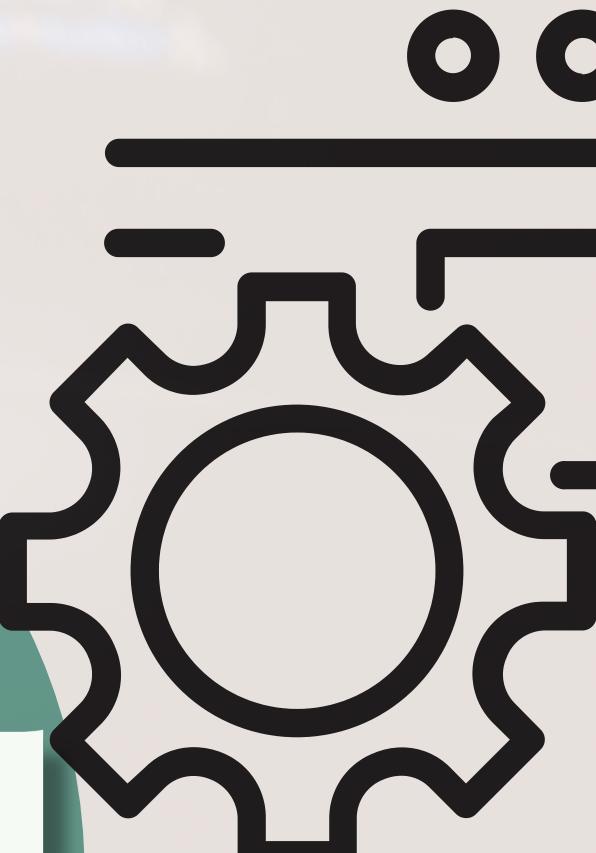


Grade Division



Developing and Collecting Resources

THANK YOU



```
343 .widget-area-side {  
344   width: 100%;  
345   height: 100%;  
346   position: absolute;  
347   top: 0;  
348   left: 0;  
349   font-size: 10px;  
350 }  
351 /* =Menu */  
352 .menu {  
353   width: 100%;  
354   height: 100%;  
355   position: absolute;  
356   top: 0;  
357   left: 0;  
358   background-color: #fff;  
359   border: 1px solid #ccc;  
360   padding: 10px;  
361 }  
362 .menu-item {  
363   display: inline-block;  
364   height: 69px;  
365   float: right;  
366   margin: 11px 28px 0px 0px;  
367   max-width: 800px;  
368 }  
369 .menu-item a {  
370   color: inherit;  
371   text-decoration: none;  
372 }  
373 .menu-item a:hover {  
374   color: inherit;  
375   text-decoration: none;  
376 }  
377 .menu-item a:active {  
378   color: inherit;  
379   text-decoration: none;  
380 }  
381 .menu-item a:visited {  
382   color: inherit;  
383   text-decoration: none;  
384 }  
385 .menu-item a:link {  
386   color: inherit;  
387   text-decoration: none;  
388 }
```