IITBombayX: FDP201x Pedagogy for Online and Blended Teaching-Learning Process

Open Education Resource: Digital Assets for Teaching, Learning and Assessing

Moodle Team ID : 1146_001 OER Creation
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Computer Science and Allied

https://malarvizhieducation.wordpress.com

www.srmoer.moodlecloud.com

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Section 1: Open Education Resource

About OER

The open education resource is a collection of MOODLE Lesson activities that are useful as out-of-class activity while flipping the classroom. There are three chapters as part of this OER, and each deals with the basic concepts of C programming. This course is useful for all first year students those who are studying Engineering.

Target Audience: All FIRST YEAR UG Engineering Students

Topics:

Chapter 1: Introduction to C Programming
- PPT
- Quiz

Chapter 2: Flow Control in C
- PDF
- Assignment

Chapter 3: Array and Pointers
- Video
- Assignment

OER Development available in
www.srmoer.moodlecloud.com
https://malarvizhieducation.wordpress.com

Learning Objectives

After using this OER, learner will be able to:

- Understand the basic concept of C helps to solving the simple problems. (Understand Level)
- Apply flow control concept for writing simple calculator program(Apply Level)
- Apply Array concept to display the grade of a student.(Apply Level)

Tools Used

Screen Casting :Screencast-O-Matic
Documentation : MS Word
Chapters : MS Power point & MS Power Point
Website : www.wordpress.com
Quiz and Assignment : Moodlecloud (www.moodlecloud.com)

Section 2:Design Decisions

Chapter 1:
Nature of Decisions taken

The design decisions involved in the creation of this OER were of broadly three types:

1. Content Decisions
2. Pedagogic Decisions
3. Technology Decisions

Content Decisions

Chapter 1:

This chapter gives the basic of C programming concepts ie datatypes, operators, etc.,

Here we used PPT for learning purpose.

Chapter 2:

This chapter tells about the flow control in C programming ie. Decision makers. Here PDF is used

Chapter 3:

This chapter gives the basics of Arrays and pointer concepts.Here video is used.

Pedagogic Decisions

Typically in a flipped classroom strategy, there are two segments – Out-of-class segment and In- Class segment. Out-of-class segment is very useful for understanding the topic.

Out of Class Segment

Arrays and Pointers - https://youtu.be/5tPLyHCZdU0

License of Video : Creative Commons

In Class Segment

Most of the apply and create level question for In class Activity

Technology Decisions

While developing the Out-of-Class and In-class activities, the major technology decisions taken were:

Tools Used

Screen Casting : Screencast-O-Matic (www.youtube.com)
Documentation : MS Word
Chapter : MS Power point & PDF
Website : www.wordpress.com
Quiz : Moodlecloud (www.moodlecloud.com)

Section 3: OER Description

Active OER

For checking the active OER, you may access the
www.srmoer.moodlecloud.com
https://malarvizhieducation.wordpress.com

Moodle Cloud :

- www.srmoer.moodlecloud.com

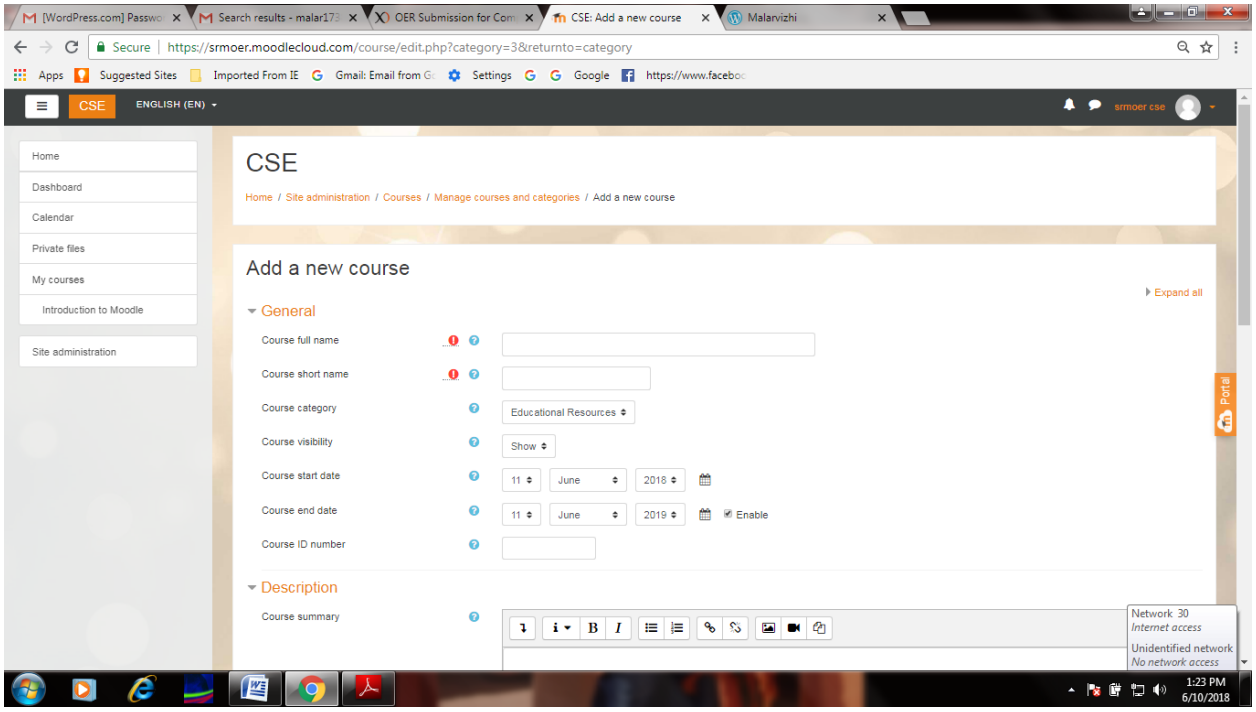
- **Self enrollment (Student)**
- **Demo User ID & Password**

User ID : **ramya**
Password : **ramya**

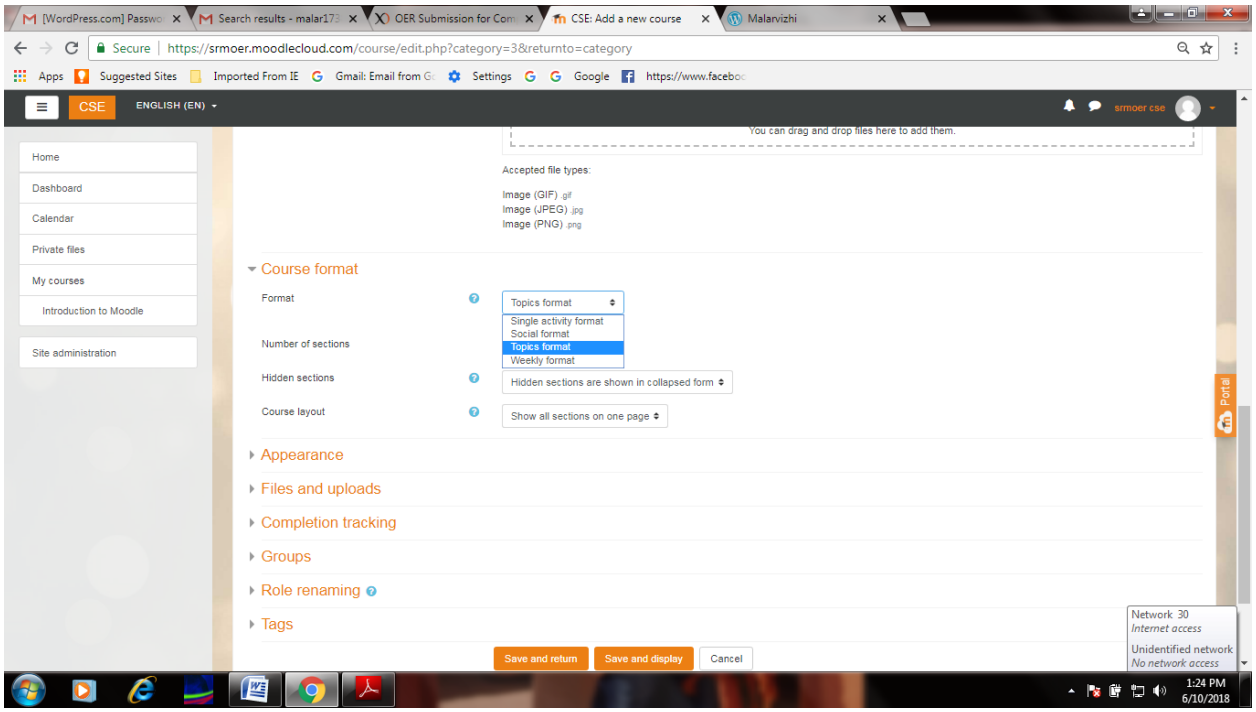
Course Settings

Screenshot 1 - Adding a new course in moodlecloud - Click on add course

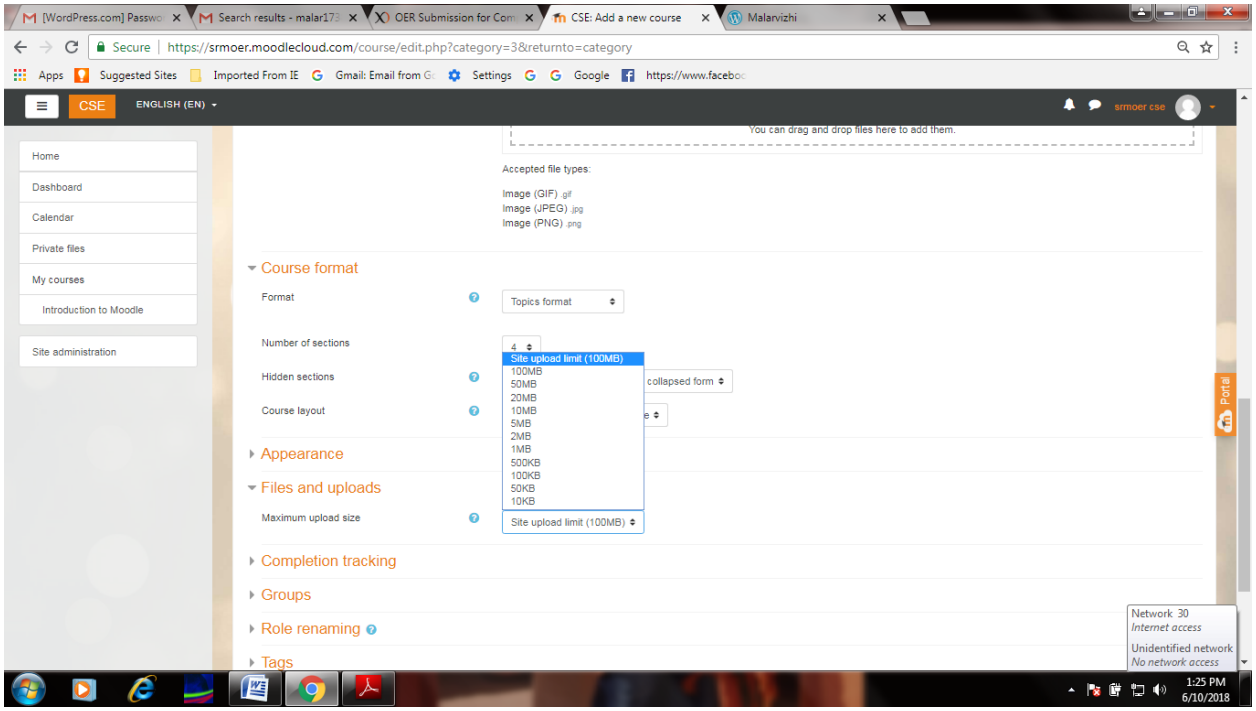
Screenshot 2 - Course Settings



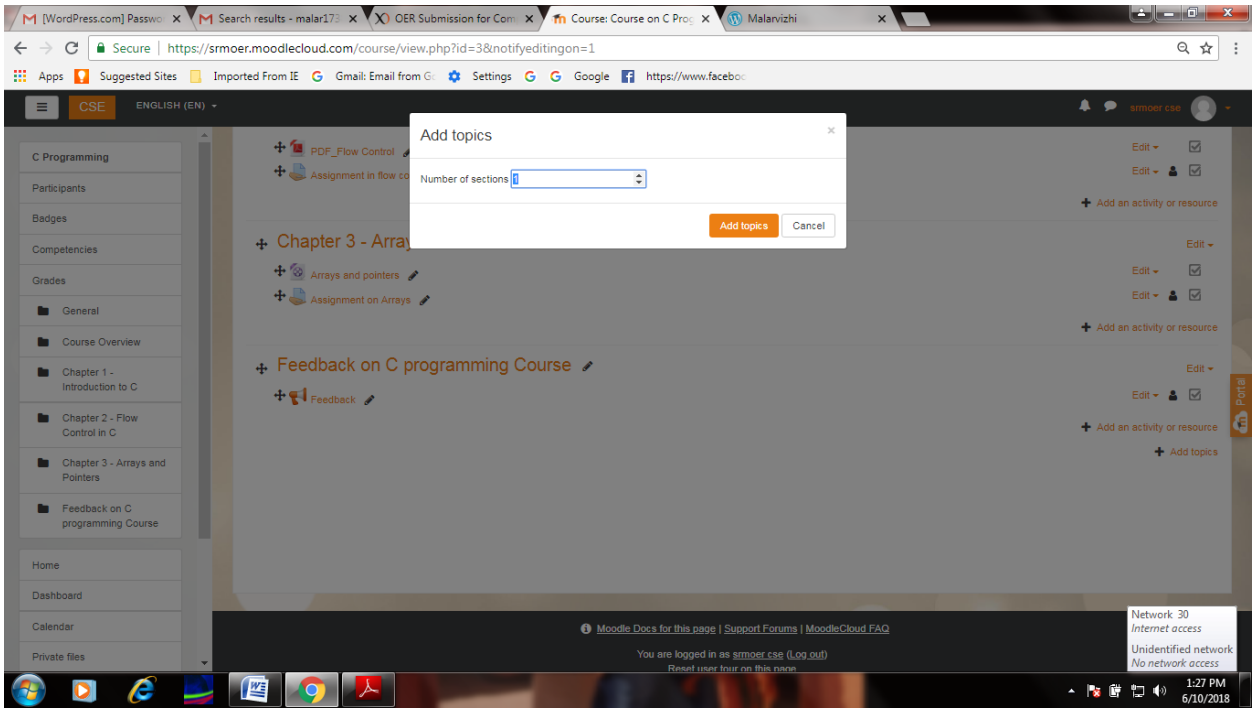
Screenshot 3 - Course Format



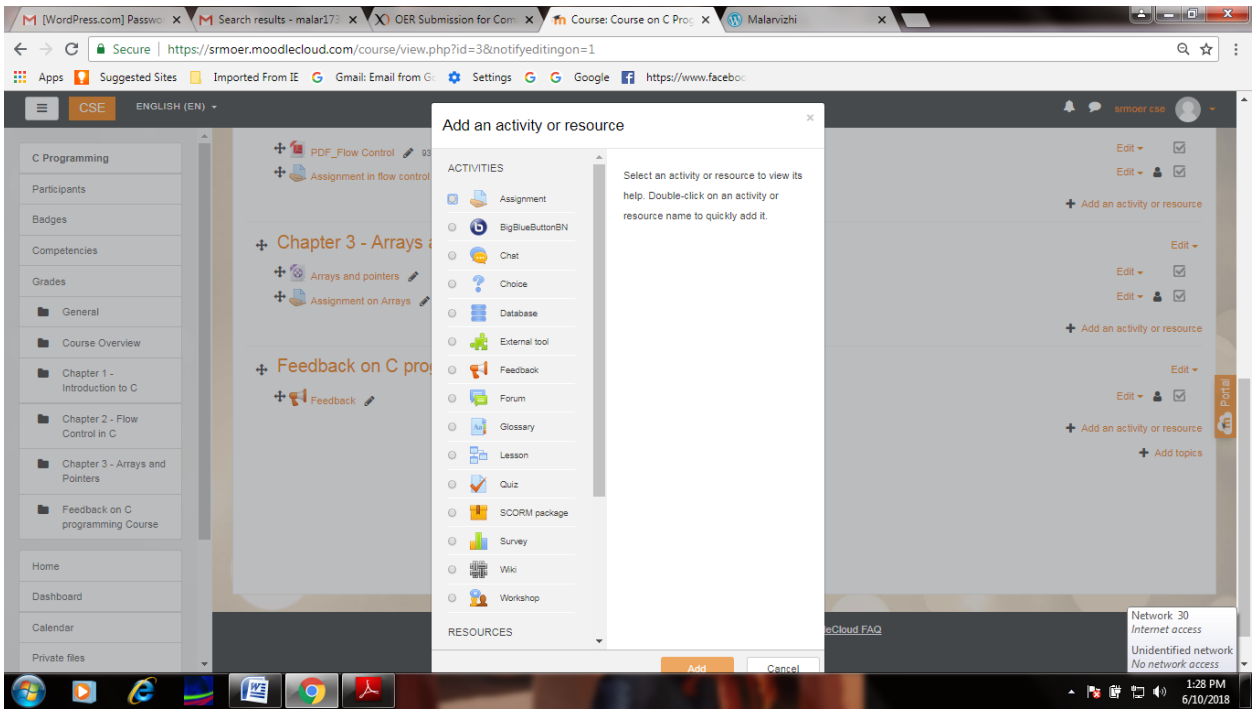
Screenshot 4 -Files and uploads



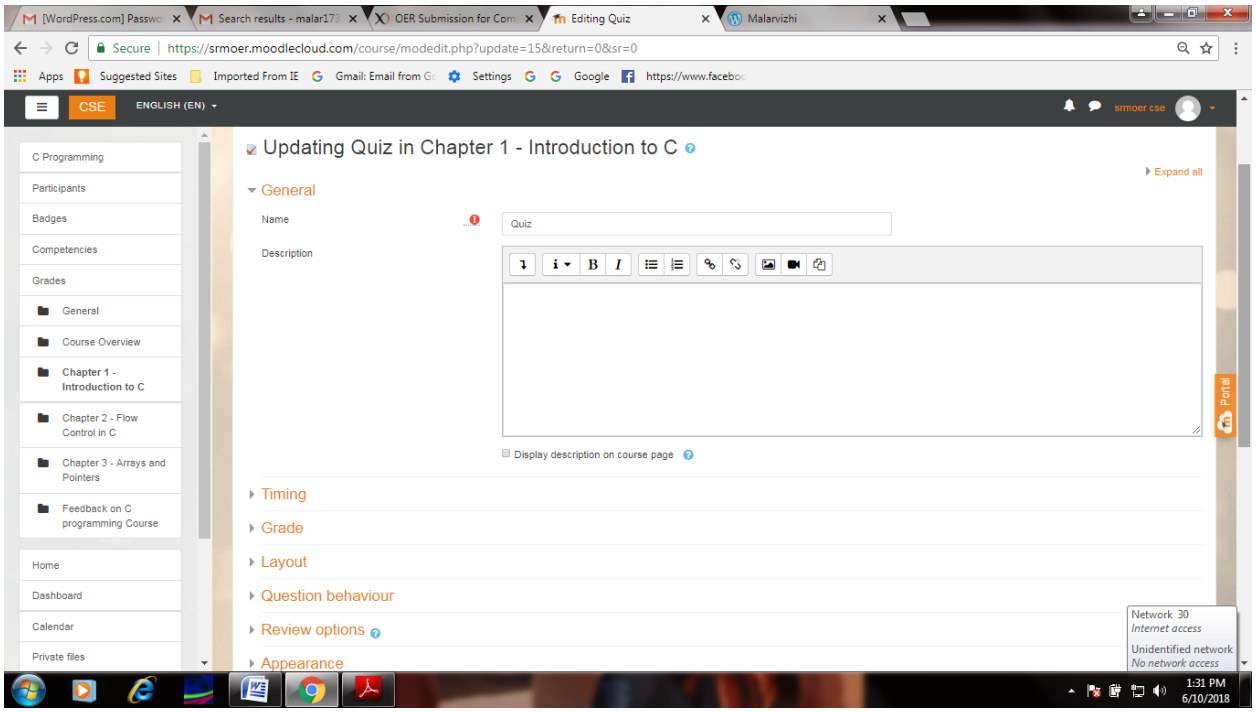
Screenshot 5 -Adding Topics in the course



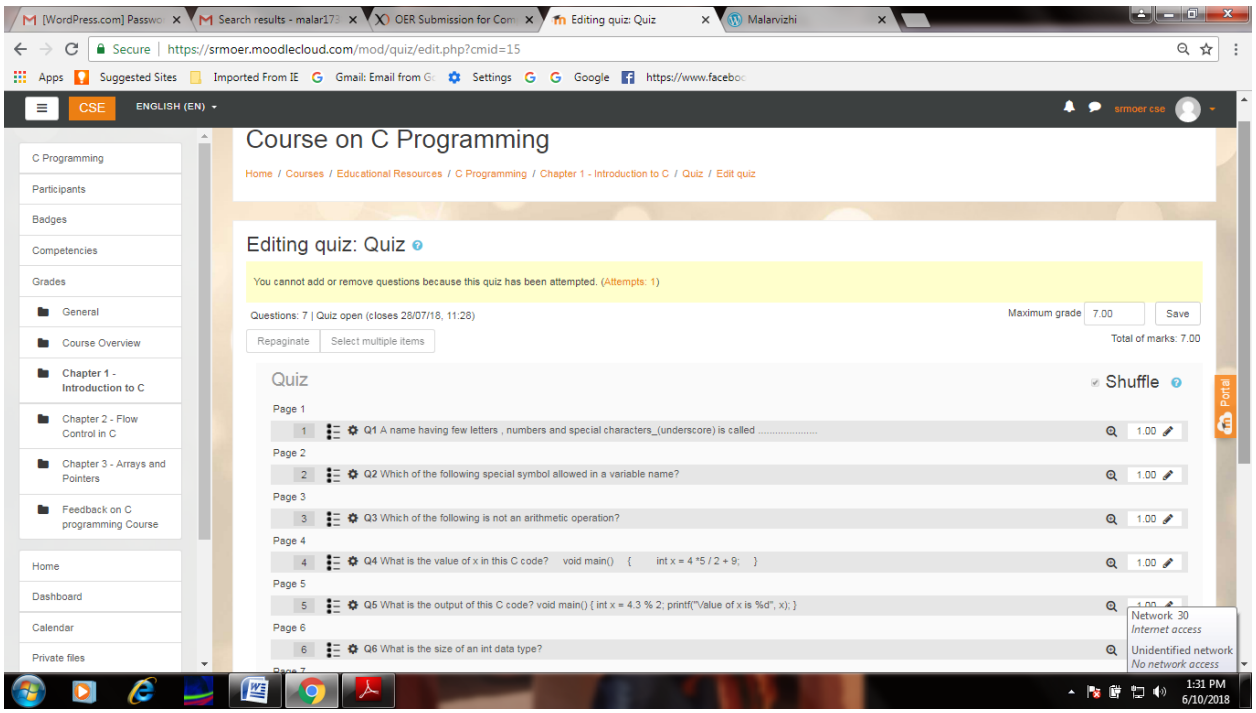
Screenshot 6 - Click add an Activity or an Resource



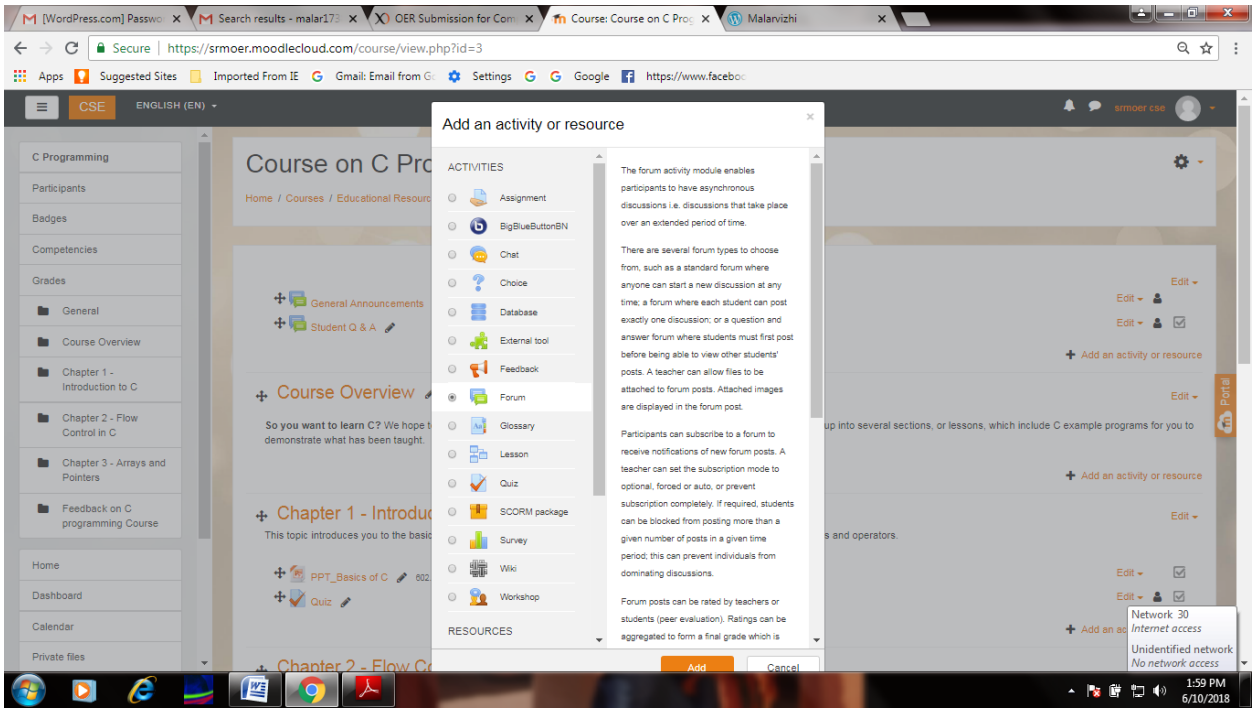
Screenshot 7 – Adding Quiz



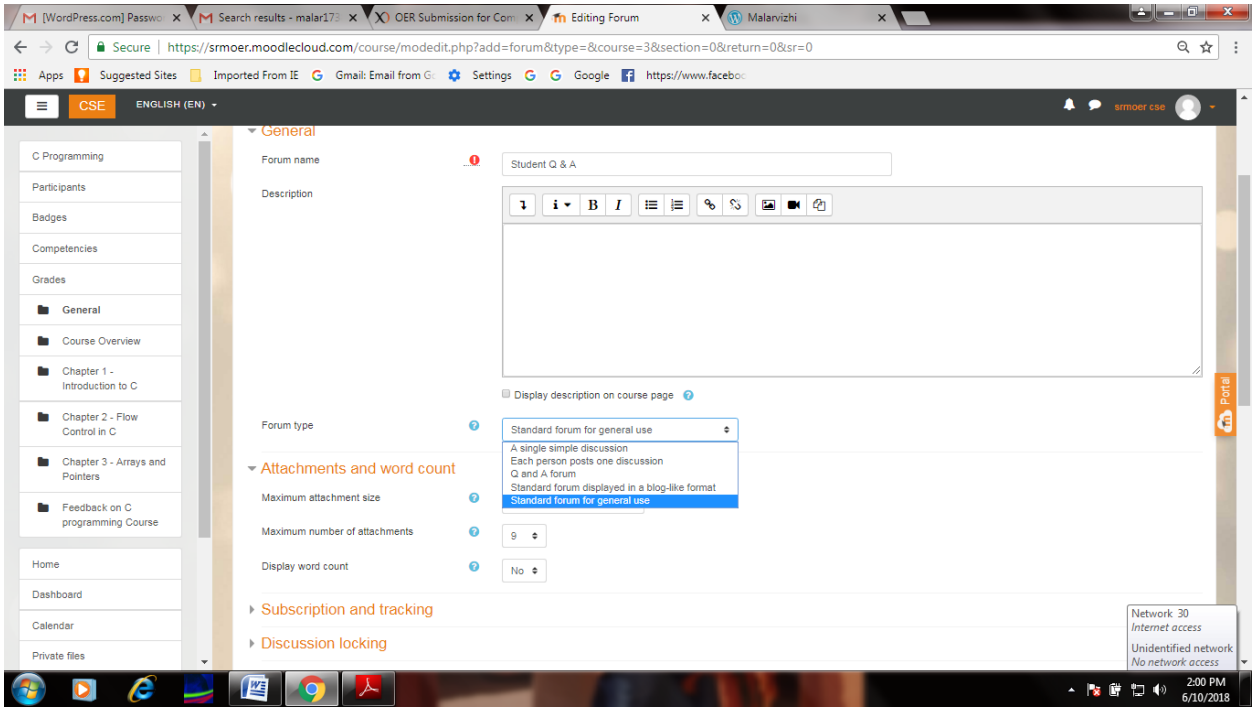
Screenshot 8- Adding, Editing Quiz and Grade



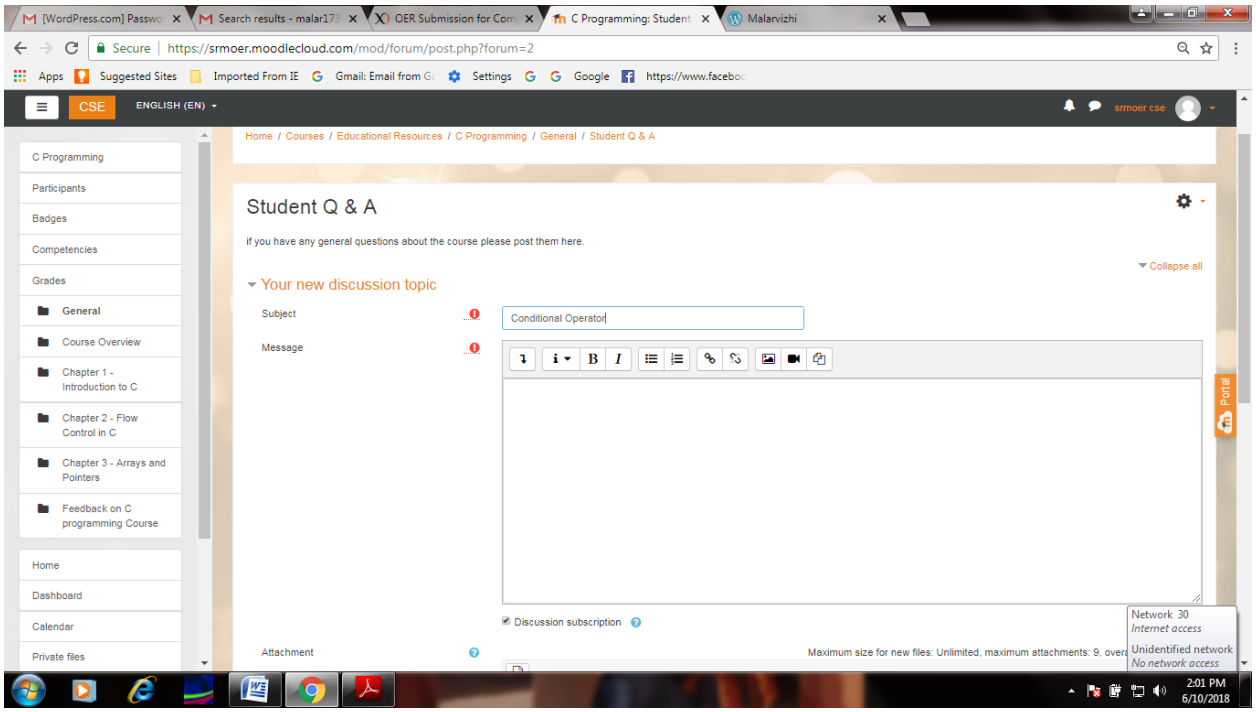
Screenshot 9 – Adding Forum in the course



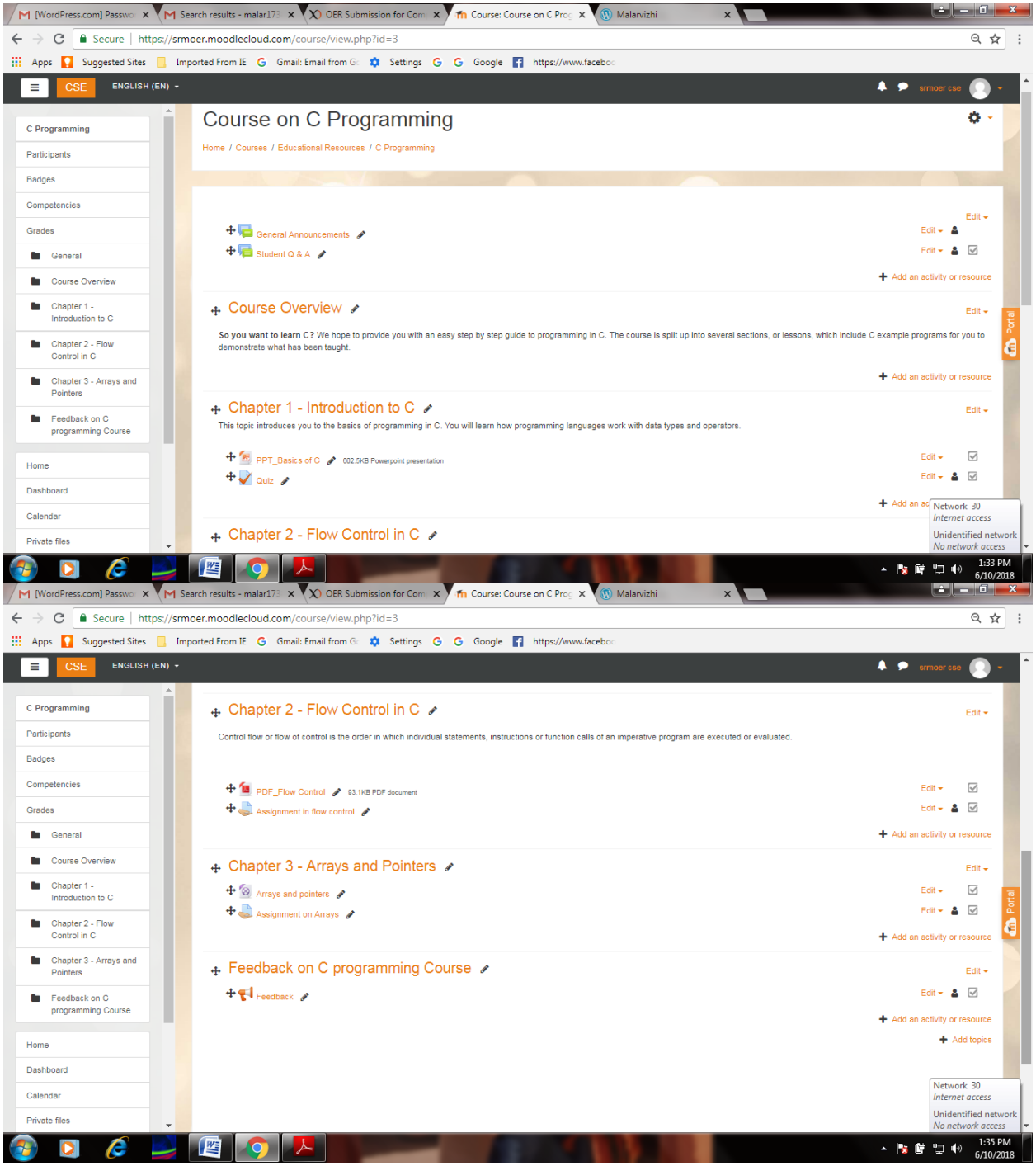
Screenshot 10 – Forum general Settings



Screenshot 11 – Adding a discussion topic



Screenshot 12 - Final View after creating the course


Secure https://srmoer.moodlecloud.com/course/view.php?id=3
CSE
ENGLISH (EN)
srmoer cse
Course on C Programming
Home / Courses / Educational Resources / C Programming
C Programming
Participants
Badges
Competencies
Grades
General
Course Overview
Chapter 1 - Introduction to C
Chapter 2 - Flow Control in C
Chapter 3 - Arrays and Pointers
Feedback on C programming Course
Home
Dashboard
Calendar
Private files
General Announcements
Student Q & A
Add an activity or resource
Course Overview
So you want to learn C? We hope to provide you with an easy step by step guide to programming in C. The course is split up into several sections, or lessons, which include C example programs for you to demonstrate what has been taught.
Chapter 1 - Introduction to C
This topic introduces you to the basics of programming in C. You will learn how programming languages work with data types and operators.
PPT_Basics of C
602.5KB Powerpoint presentation
Quiz
Chapter 2 - Flow Control in C
Control flow or flow of control is the order in which individual statements, instructions or function calls of an imperative program are executed or evaluated.
PDF_Flow Control
93.1KB PDF document
Assignment in flow control
Chapter 3 - Arrays and Pointers
Arrays and pointers
Assignment on Arrays
Feedback on C programming Course
Feedback
Add topics
Network 30
Internet access
Unidentified network
No network access
1:33 PM
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Section 4: Evaluating Effectiveness of OER

The OER effectiveness can be assessed at two levels:
1. At the student level
2. At the consumer level

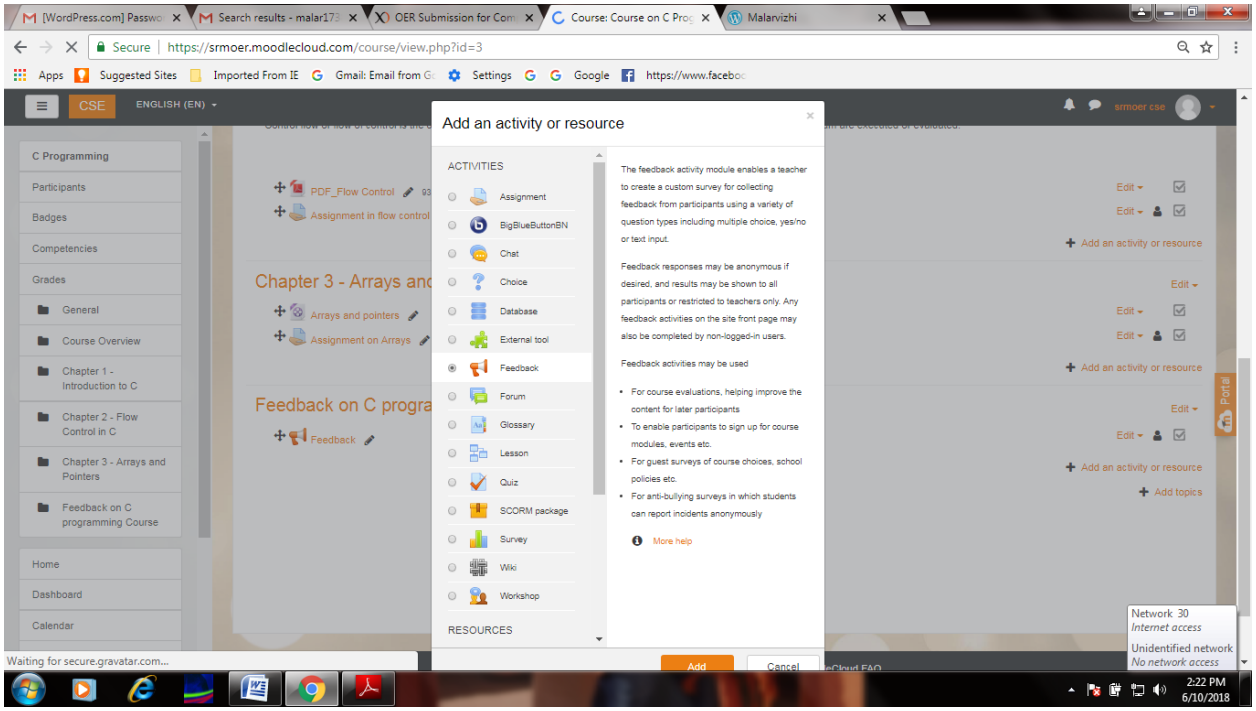
Effectiveness at consumer level

OER consumers are typically teachers who want their students to learn the concepts of new technology. The following survey questions are asked to the consumers to get the feedback about the course based on Ease of Use, Concept coverage and Course Improvement.

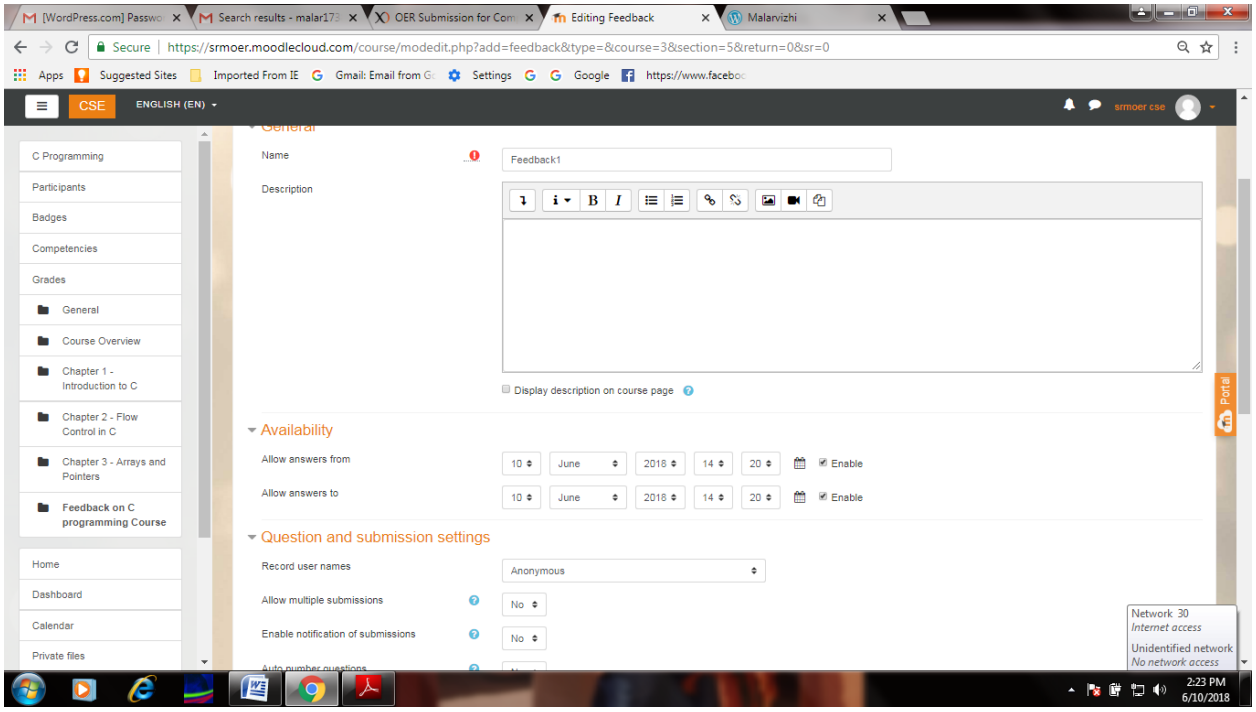
Survey Questions

1. Is this course is useful?
2. Did the material was presented in an organized manner.
3. What do you say about ease of use of this course?
Give comments on easy to use, user friendliness, simplicity and flexibility.
4. What would you like to change about the course?
5. What are the instructor's strengths?
6. What suggestions do you have to improve the instructor's teaching?
7. Is the course cover entire concepts? If the answer is NO, suggest the concepts to be included.

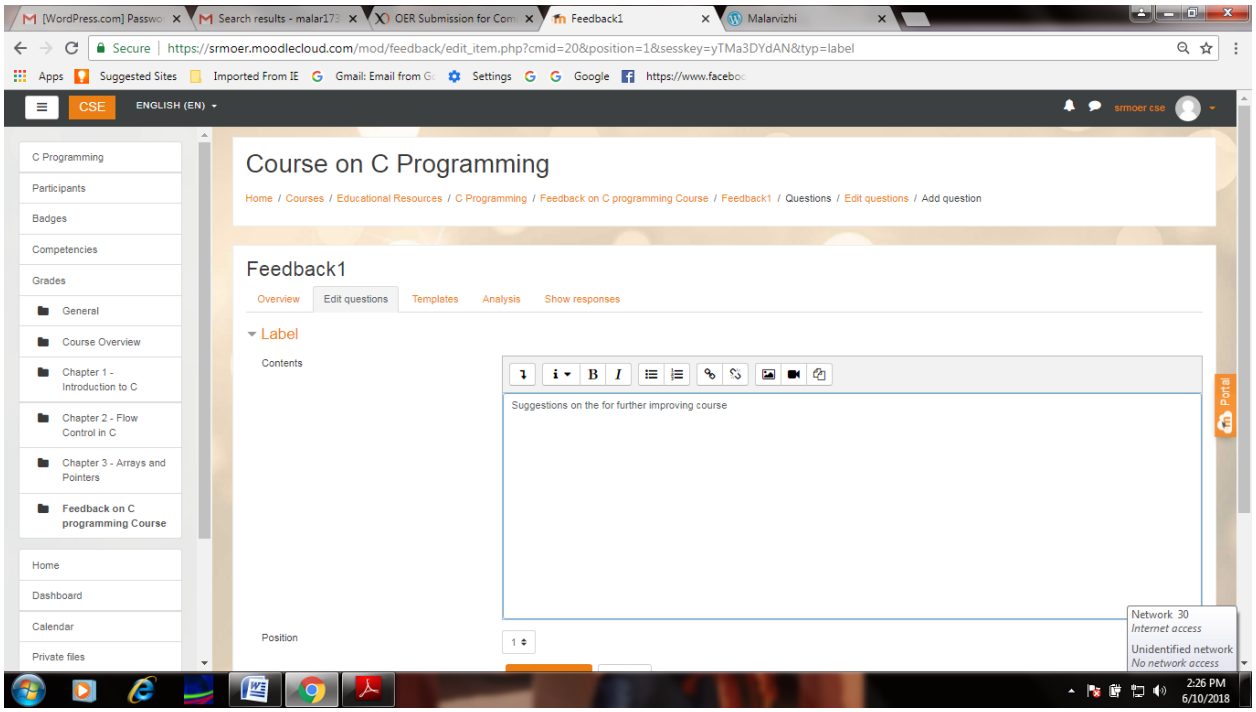
Screenshot 1 - Add Course Feedback



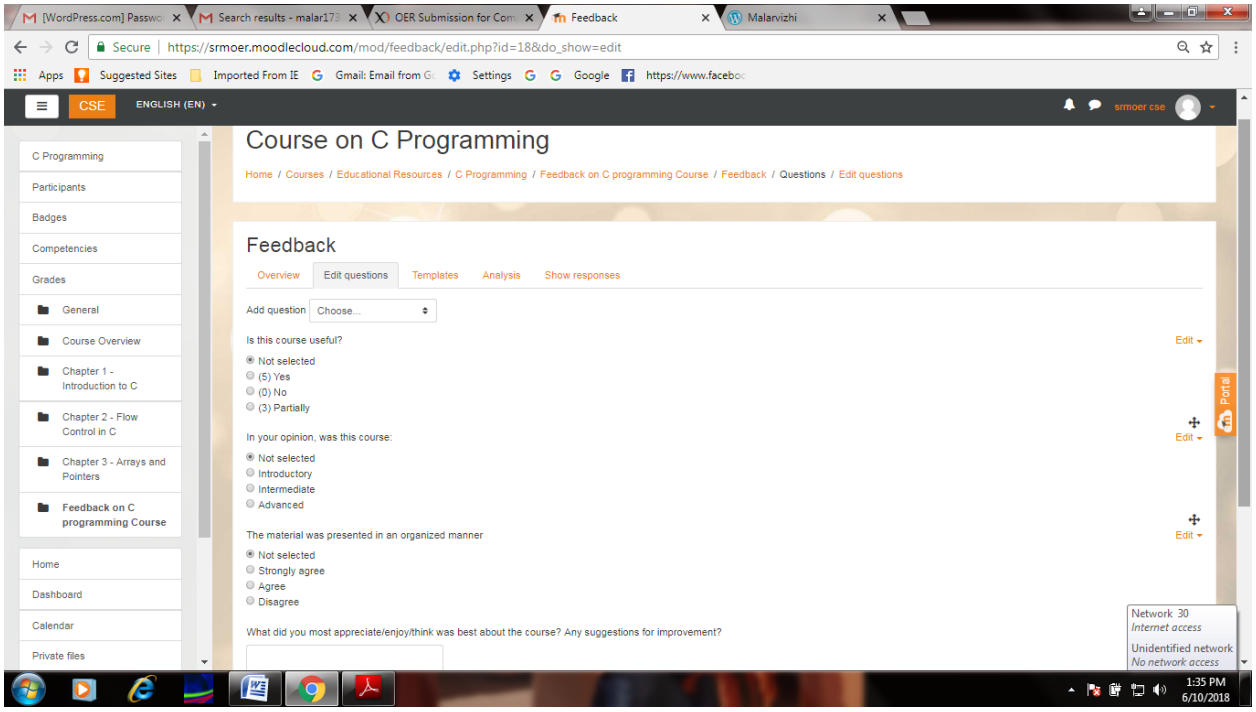
Screenshot 2- General settings for feedback



Screenshot 3- Adding Feedback Questions



Screenshot 4- Final Feedback Questions



Section 5: Consolidated Log of Team Work

Team No: Computer Science and Allied 1146_001

The consolidated log of team work is as shown below:

Activity	Team Member	Amount of Time
Selection of OER Topic	P.Malarvizhi, P.Ramya & P.Sachidhanandham	June 28th 2018 1.30 hrs
Tool Exploration Analysis of various ICT tools and Selection	P.Malarvizhi, P.Ramya & P.Sachidhanandham	June 29th to May 4th 2018 2.30 hrs
OER Creation-Part I 1)Powerpoint preparation 2)Screen casting 3)Quiz Preparation 4)Integration	P.Malarvizhi, P.Ramya & P.Sachidhanandham	May 5th to 8th 2018 (12+5+5) hrs
OER Creation-Part II Course portfolio in wordpress	P.Malarvizhi, P.Ramya & P.Sachidhanandham	May 8th 2018 4 hrs
OER Documentation	P.Malarvizhi, P.Ramya & P.Sachidhanandham	May 5th to 9th 2018 (6+4+5) hrs
OER Evaluation Self Evaluation	P.Malarvizhi, P.Ramya & P.Sachidhanandham	May 9th to 10th 2018 4 hrs

Note: All discussion are done by sitting in one place , through phone, email and Whatsapp between team members.