OER

Open Education Resource: Flipping the classroom with MOODLE

Work done as part of AICTE approved FDP on Use of ICT in Education for Online and Blended Learning

Team ID: 1108_005

Mentor Name: Kushal S Wasankar, k_wasankar@rediffmail.com
Mentees:
Kapil A Saner
Pradip K Patil
Sachin P Badgujar

IDP in Educational Technology, 2016.
OER Submission by Team 1108_005, is licensed under the Creative Commons Attribution-ShareAlike 4.0 International License. You are free to use, distribute and modify it, including for commercial purposes, provided you acknowledge the source and share-alike.
To view a copy of this license, visit http://creativecommons.org/licenses/by-sa/4.0/

Introduction 1

Section 1 2

Open Education Resource: Flipping classroom with Gnomio and MOODLE 2

About OER 2

Learning Objectives 3

Helpful Documentation for Tool Use 3

Section 2 4

Design Decisions 4

Nature of Decisions Taken 4

1. Content Decision 4

2. Pedagogic Decision 4

3. Technology Decision 5

Section 3 6

OER Description 6

Active OER 6

Lesson Setting 6

1. Gnomio 6

2. Gnomio Course 9

How to use this OER 12

Section 4 13

Evaluating Effectiveness of OER 13

1. Student 13

2. Consumer 14

Gnomio 15

Section 5 16

Consolidated Log of Team Work 16

Section 6 17

Building a Community of MOODLE and Flipped Classroom Adopters 17

Summarizing OER 18

Works Cited 19

Apex –1: OER Gnomio site Snap 20

Introduction

FDP201x: Pedagogy for Online and Blended Teaching-Learning Process is 4 weeks workshop.

OER work is developing by Prof. Kapil Saner, Pradip Patil and Sachin Badgujar as a part of assignment. Topic is Clutch which comes under category of Theory of Machine. Our Team ID: 1108_005 and RC1108 of R. C. Patel Institute of technology Shirpur

OER is created on gnomio and Moodle (Moodle Cloud). Initially plane is just to develop on gnomio, but we to get grades and quiz conduction we decided to go for MOODLE.

Team ID: 1108_005

RCID – 1108

Team

Mentor Name: Kushal S Wasankar
Mentees:
Team Leader: Kapil A Saner
Team Member 1: Pradip K Patil
Team Member 2: Sachin P Badgujar

Section 1

Open Education Resource: Flipping classroom with Wordpress and MOODLE

About OER

Classroom is flipped by creating this OER with Gnomio and MOODLE lesion activities. This OER contains four lessons. Domain selected is mechanical and allied. Power Point Presentation is created and uploaded on Gnomio site and Quiz activity is plan to conduct on MOODLE page to check understanding of student level. Concept mapping is shown in pdf file of out of class activity.

- OER is downloadable from link bellow :
  https://sachin.gnomio.com/MOODLE quiz Link:

  Users with self-emailed base login.
- Target Audience: Second Year Mechanical Engineering students (Sem-IV)
- Tags: Transmission, Clutch, Theory of machine, cone, centrifugal
- OER developed in gnomio

Learning Objectives

At the end of course learner should be able to

1. Identify the characterizing features of a clutch
2. Understand concept of cone & centrifugal clutch
3. Basic components of clutch

Helpful Documentation for Tool Use

1. Gnomio – Design and development of Lesson Activity
2. Microsoft Office PowerPoint – for slide and animation developement

Section 2

Design Decisions

Nature of Decisions taken

We consider Content Decisions, Pedagogic Decisions and Technology Decisions to create this OER.

1. Content Decisions

Session covers – Theory of Machine- Clutches

Pedagogic Decisions

2. Pedagogic Decisions

Cognitive Levels –

Out of Class Activity with lower cognitive level

SN	Out of class Learning objective	C- Level
1	Define Clutch.	Understand
2	To understand modes of transportation.	Understand
3	Concept.	Apply

In-Class Activity with higher cognitive level

SN	In class Learning objective	C- Level
1	Objective MCQ questions on Clutch.	Analyze
2	Presentation on different topics of clutch.	Evaluate

Assessment Strategies –

Out of Class Activity with Multiple choice questions

SN	Out of class Learning objective	Assessment
1	Define clutch.	MCQ 1, 2,5
2	Types of clutch.	MCQ 3, 4
3	Types &f Descriptive.	Identify as submission

In of Class activities used are TPS and PI

SN	In of class Learning objective	Assessment
1	Select appropriate material for particular application Of clutch	Peer Instruction

3. Technology Decision

Out of Class Activity tool decided are as follows

SN	Tool	Use
1	Microsoft Office Power point	Slide show is created with office as licensed copy of Microsoft office16 is available in college. .You can also use Apache open office tool as freeware.
2	Gnomio and Moodle	Gnomio and Moddle 3.3.2 (gnomio.com) is use to develop self-learning lesson.

Section 3

OER Description

Active OER

You can access active OER of "**Cone & Centrifugal Clutch**" in the Gnomio with link provided as follows:

(https://sachin.gnomio.com/)

1

Lesson Setting

1. GNOMIO

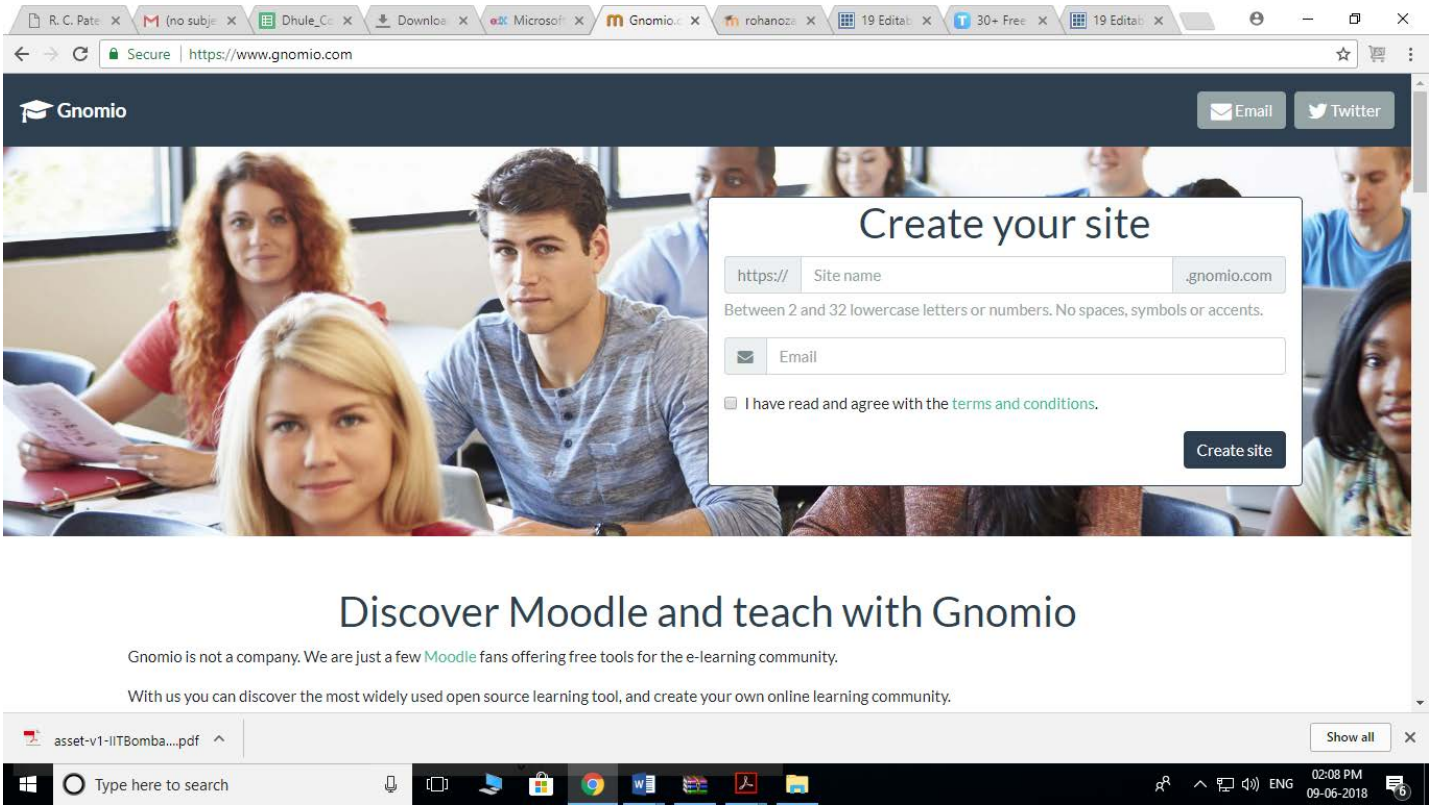
For gnomio lesson Screenshots shown as follows:

Step 1 : Go to https://gnomio.com/ > log in

Step 2 : Create wabpage - Manage > Site Pages > Add (ref-snap 1)

Step 3 : Adding data to - Put name of page at place of Tile and add content at bottom place (ref-snap 2)

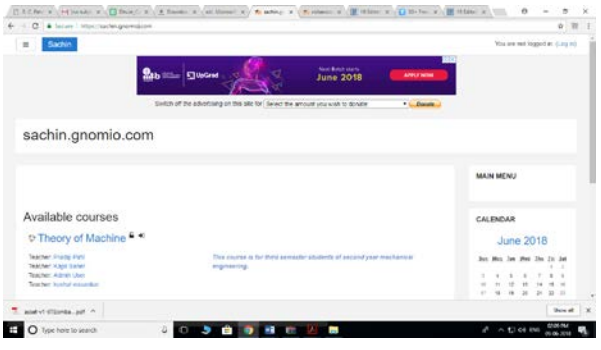
Step 4 : To add feature Image - Go to Page setting > Add featured image > update (ref-snap 4) > Add > Media (ref-snap 5) >Add > New > browse file to upload> select> Open > insert



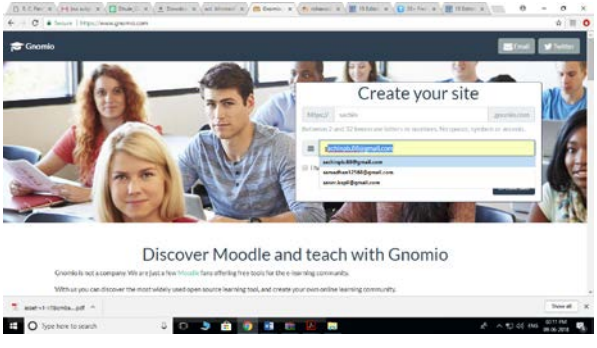
Snap 1

Before

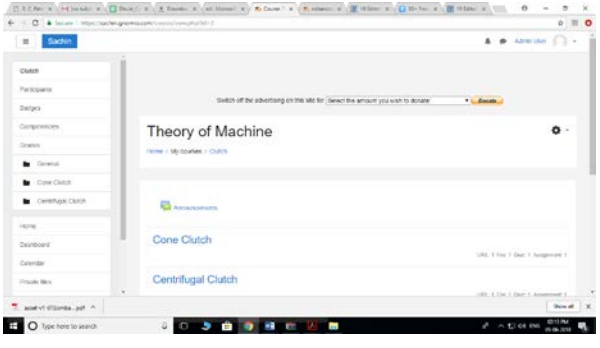
After

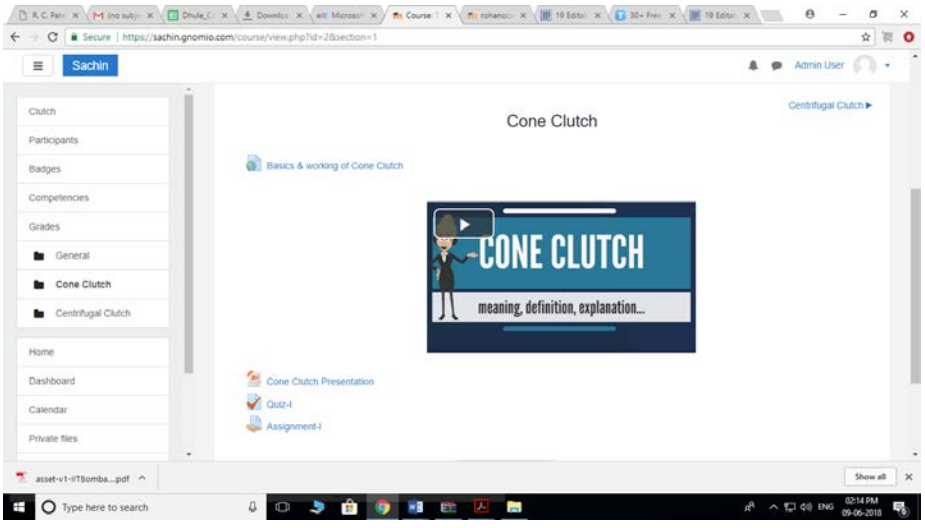


Snap 2



Snap 3

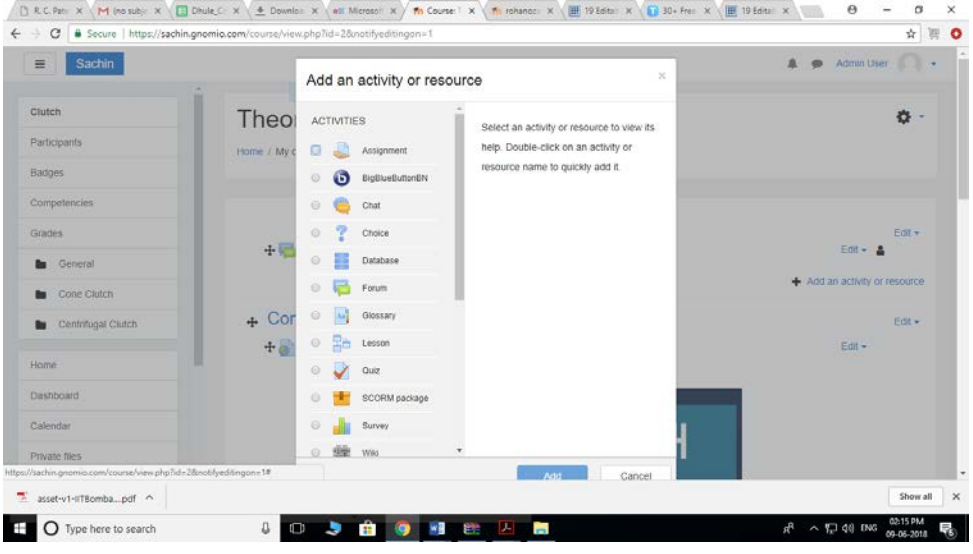




Snap 4

Step 5 : To Add Link- Click on >Insert link (ref-snap 6) > Put link in new window > add link (ref-snap 7)

Snap 5



2. Gnomio course

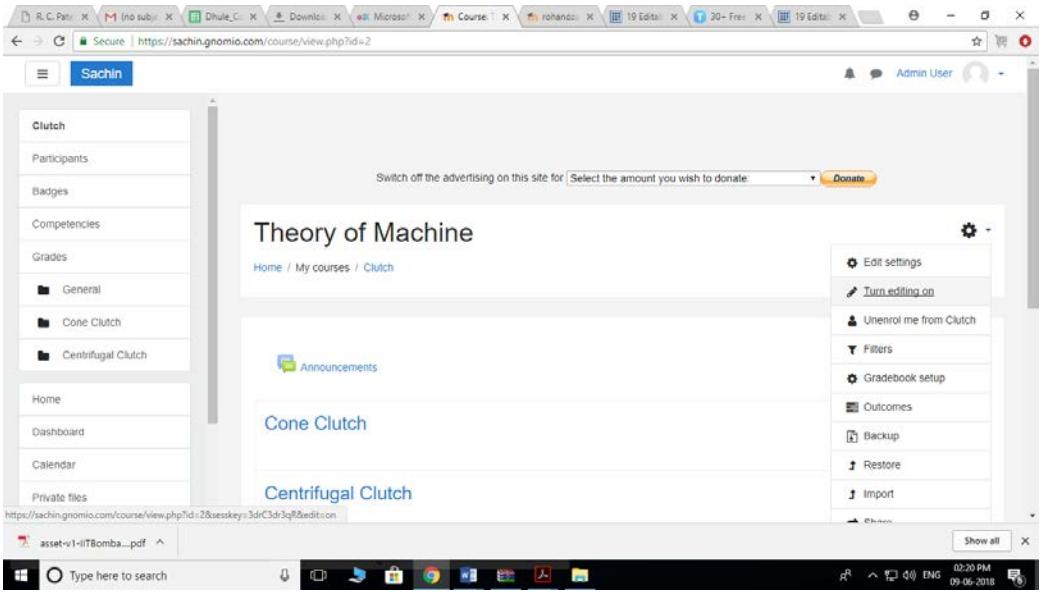
For Gnomio lesson Screenshots shown as follows:

Step 1: Go to > https://www.gnomio.com/ >Create your own page then admin will sent you your id and password to account.

(for example:-Click on link https://sachin.gnomio.com/ enroll for course using emailed-base to log in)

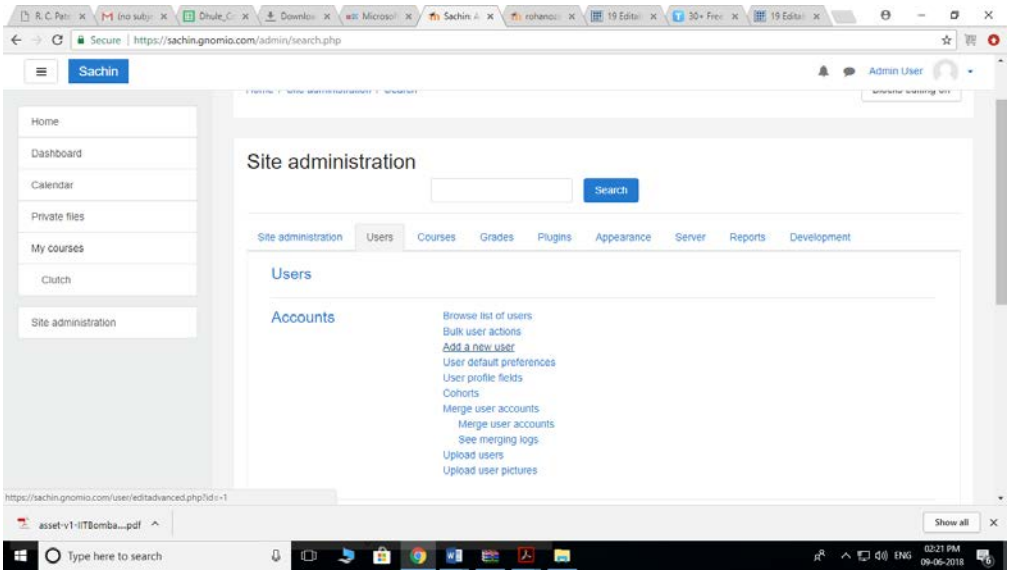
Step 2: Go to Setting > Turn editing On (ref- Snap 8) >

Step 3: Add new course (ref- Snap 9) course > Add General and course information

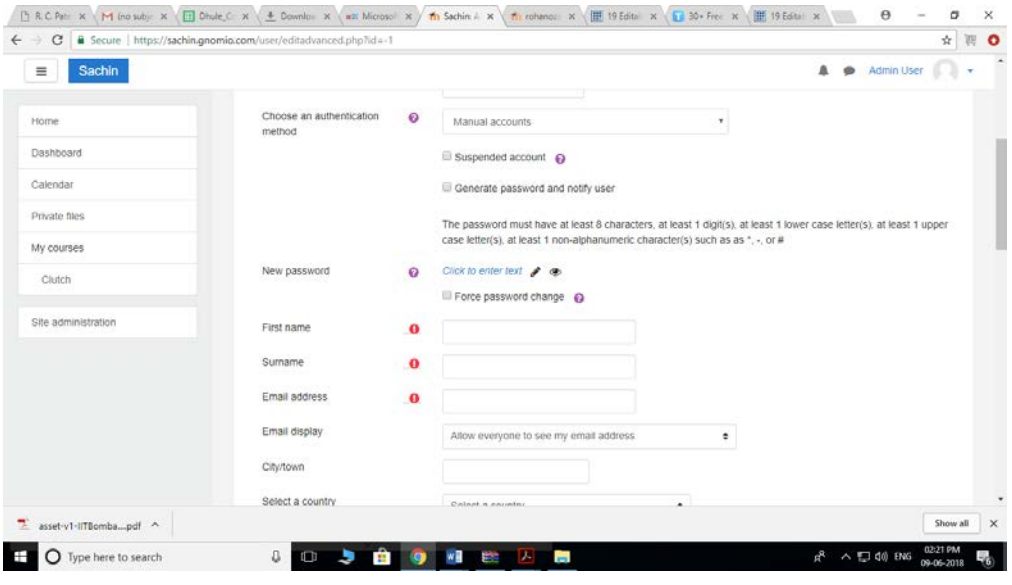


Snap 6

Step 4 : Select Site admistration > Accounts > Add new user> Fill User details with ID password

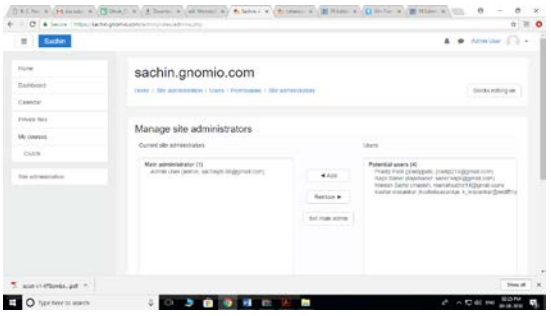


Snap 7

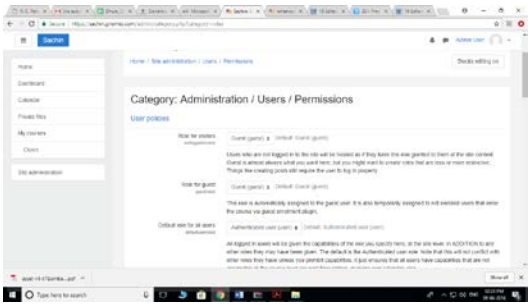


Snap 8

Step 5 : After user creation- Go course administration > user > Enrolled users Click on enrolled user> add created user> student



Snap 9



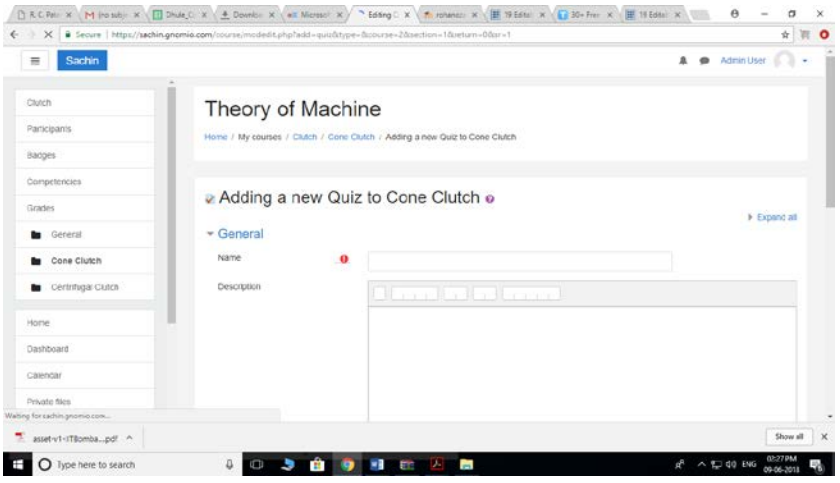
Snap 10

Step 6 : Click on Profile (man Pic- adjacent to Admin user) > Switch role to > Teacher

Step 6: Edit Topic name by clicking it > press Enter key

Step 7: Add any file (ref- Snap 11)

Step 8: Add Quiz > fill details> Add each details> save and display> edit quiz> Add new question > select from question bank



Snap 11

How to use this OER

For using this OER-Gnomio, use admin id and password as follows and change to admin role or ask admin administrator to restore backup in your course.

Admin ID – admin

Password – Sachin@123

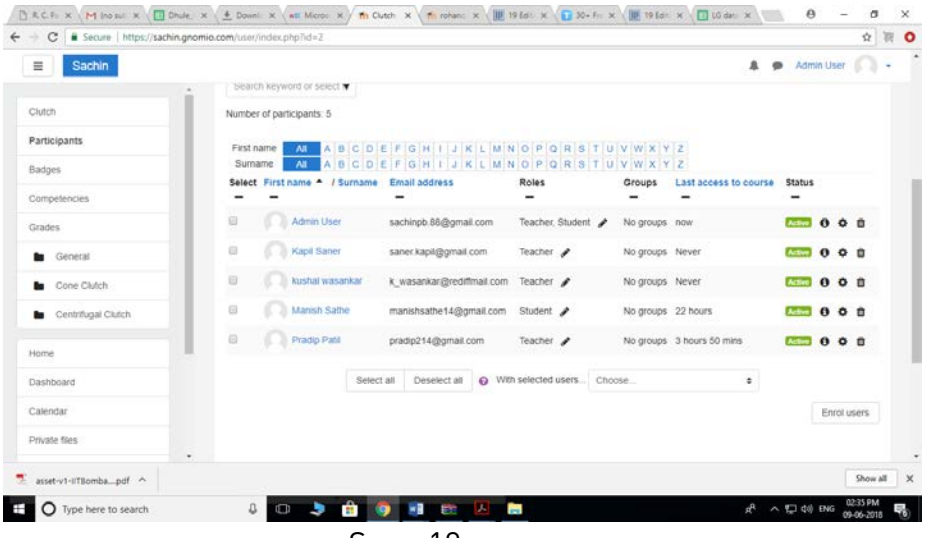
For using this OER-Gnomio, save page as html.

Section 4

Evaluating Effectiveness of OER

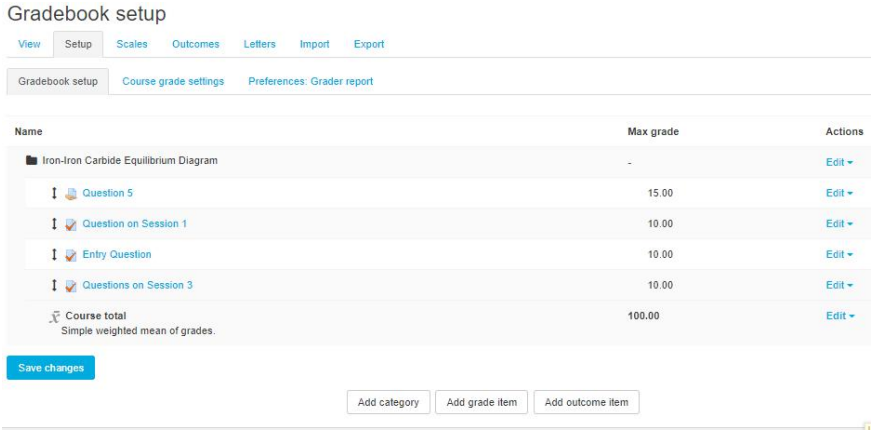
Effectiveness of OER is done by

1. Student



Snap 12

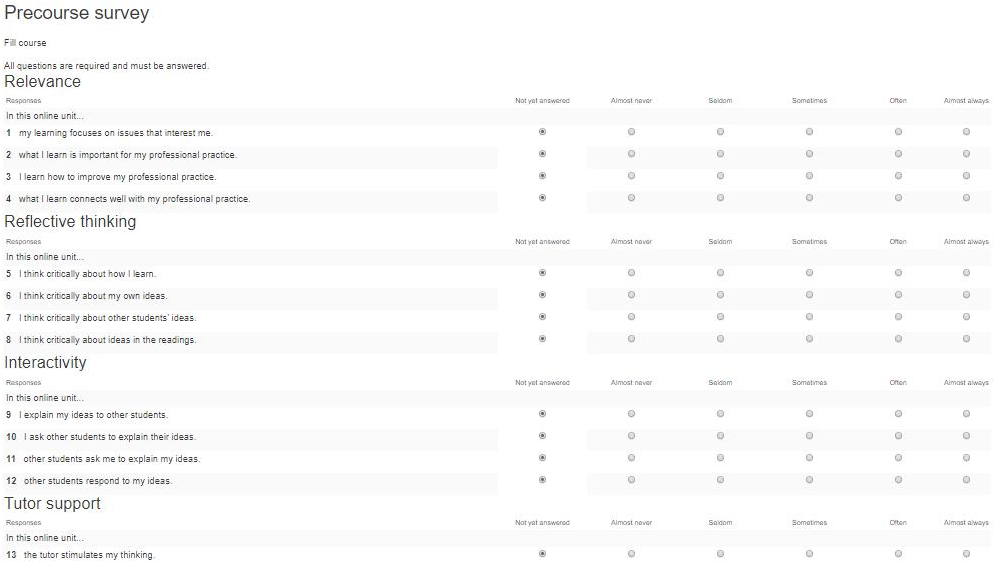
Gnomio Reports and grades (Refer – Snap 19) which we provide in site



Snap 13

2. Consumer

Survey is provided before and after course. Provision to send feedback on course is also made for consumer on Moodle



Precourse survey

Fill course

All questions are required and must be answered.

Relevance

Responses	Not yet answered	Almost never	Seldom	Sometimes	Often	Almost always
In this online unit...						
1 my learning focuses on issues that interest me.	◉	○	○	○	○	○
2 what I learn is important for my professional practice.	◉	○	○	○	○	○
3 I learn how to improve my professional practice.	◉	○	○	○	○	○
4 what I learn connects well with my professional practice.	◉	○	○	○	○	○

Reflective thinking

Responses	Not yet answered	Almost never	Seldom	Sometimes	Often	Almost always
In this online unit...						
5 I think critically about how I learn.	◉	○	○	○	○	○
6 I think critically about my own ideas.	◉	○	○	○	○	○
7 I think critically about other students' ideas.	◉	○	○	○	○	○
8 I think critically about ideas in the readings.	◉	○	○	○	○	○

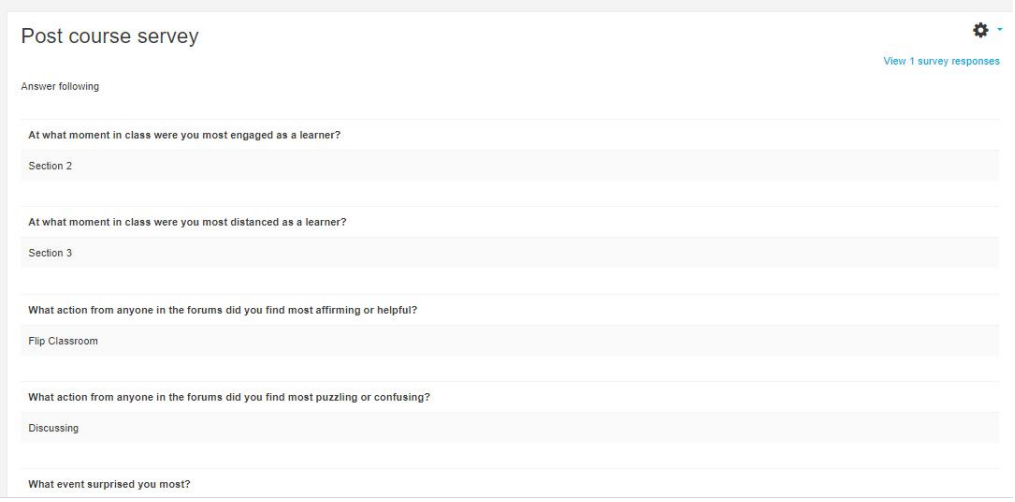
Interactivity

Responses	Not yet answered	Almost never	Seldom	Sometimes	Often	Almost always
In this online unit...						
9 I explain my ideas to other students.	◉	○	○	○	○	○
10 I ask other students to explain their ideas.	◉	○	○	○	○	○
11 other students ask me to explain my ideas.	◉	○	○	○	○	○
12 other students respond to my ideas.	◉	○	○	○	○	○

Tutor support

Responses	Not yet answered	Almost never	Seldom	Sometimes	Often	Almost always
In this online unit...						
13 the tutor stimulates my thinking.	◉	○	○	○	○	○

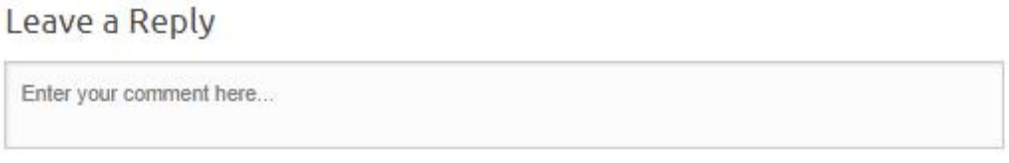
Snap 14: Pre course survey questions



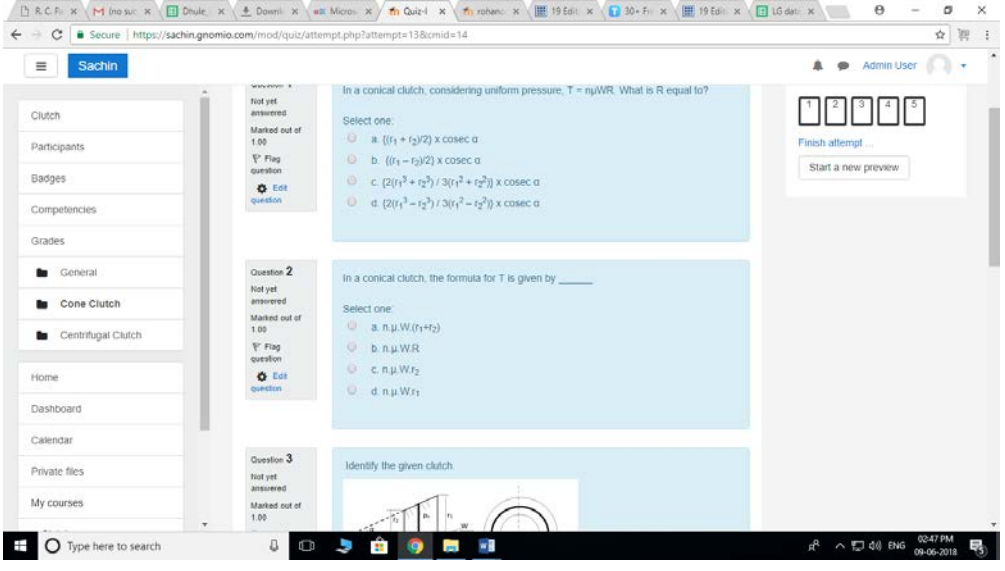
Snap 15: Response on post course survey on course effectiveness

Gnomio

On gnomio also we provide box to leave reply as feedback on course as consumer level



Snap 16 : gnomio feedback box



Snap 17 : Quiz snap

Section 5

Consolidated Log of Team Work

The consolidated log of team work is as shown below:

Activity	Team Member	Amount of Time
Discussion	S P Badgujar	Every Monday and Friday- 2 hours for three week
	P K Patil	
Tool Exploration	S P Badgujar	2 Hrs
	P K Patil	4 Hrs
OER Creation	S P Badgujar	10 Hrs
	K A Saner	6 Hrs
OER Documentation	S P Badgujar	6 Hrs
	P K Patil	4 Hrs
Individual Reflection (Diary Logging)	S P Badgujar	2 Hrs on Sunday of each week
	K A Saner	1 Hour on Saturday of each week
OER Evaluation	S P Badgujar	6 Hr
	K A Saner	9 Hrs

Section 6
Building a Community of MOODLE and Flipped Classroom Adopters

Now we provided link to fill google form as survey to join our Moodle society at RC1108 on gnomio page. In future (January 2018) our plan is to create wiki from generated contacts.

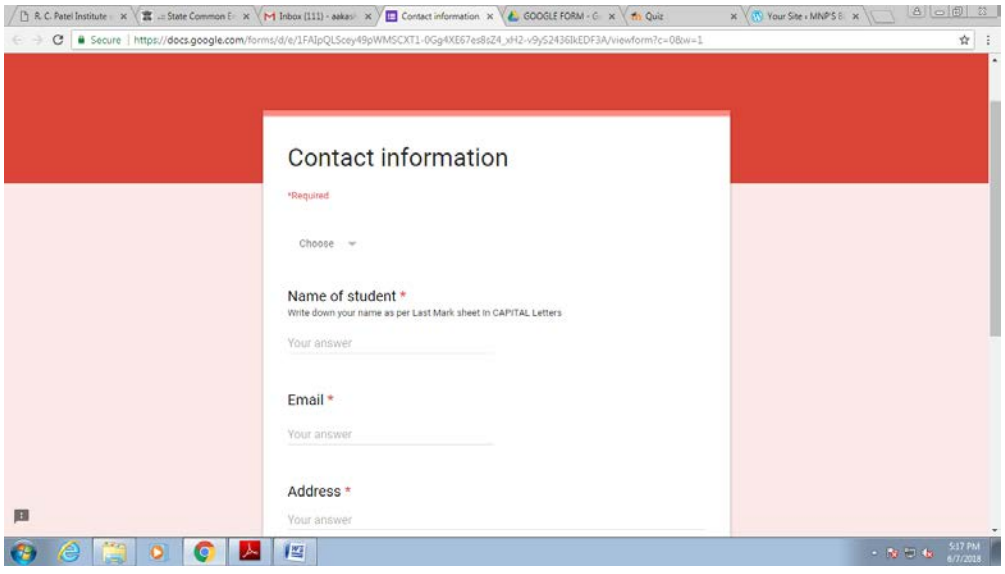
Gnomio page link

https://sachin.gnomio.com

Google form survey link

https://docs.google.com/forms/d/e/1FAIpQLScey49pWMSCXT1-0Gg4XE67es8sZ4_xH2-v9yS2436IkEDF3A/viewform?c=0&w=1

Snap 25: Webpage for Moodle Society



Sanp 26 :Google form

https://gnomio.com/view/strucuralengineeringcivilengineering.gnomio.com

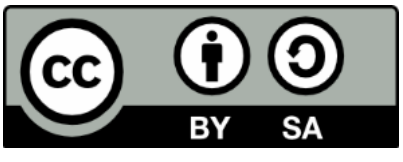
Summarizing OER

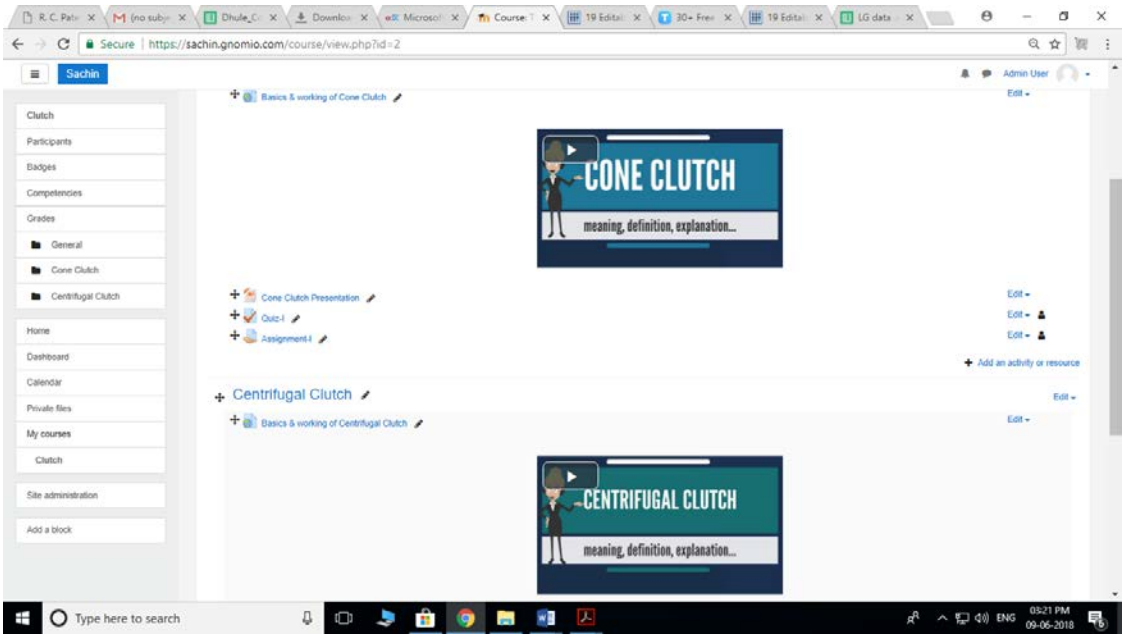
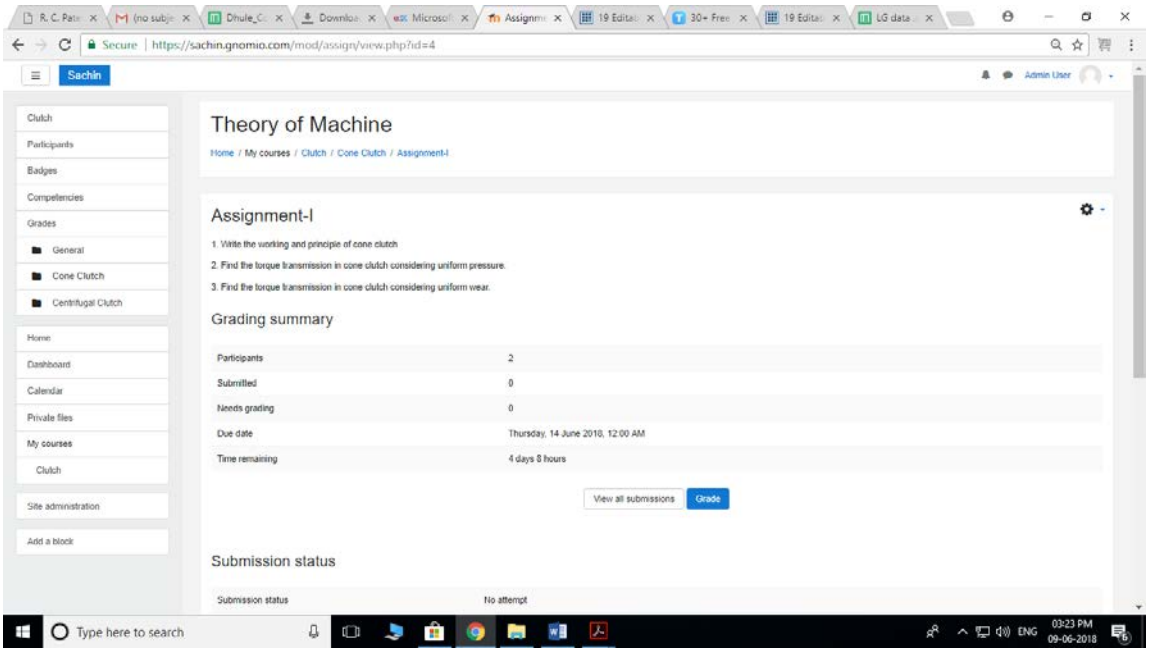
I come to know lot of new tool like Webpage and Moodle among Fdp101x and 201X course. This OER is result of effort and motivation of IITB team. Leave your coment on our website listed below. Thank you for reading.

https://sachin.gnomio.com/user/index.php?id=2

Works Cited

1. R. S. Khurmi, "Theory of machine", S Chand Publication
2. Youtube (online) ,Video link–
   https://www.youtube.com/watch?v=MvYxI5mzX8w
   https://www.youtube.com/watch?v=_yWKWWOEoRk



OER by ***Team 988***, is licensed under the Creative Commons Attribution-ShareAlike 4.0 International License. You are free to use, distribute and modify it, including for commercial purposes, provided you acknowledge the source and share-alike.

Apex –1: OER Moodle site Snap