



# Kristu Jayanti College

**AUTONOMOUS** Bengaluru  
Reaccredited 'A' Grade by NAAC | Affiliated to Bengaluru North University

## KRISTU JAYANTI LEARNING MANAGEMENT SYSTEM (KJ-LMS)

### USER MANUAL

<b>INTRODUCTION</b> .....	2
<b>ABOUT KJC-LMS</b> .....	3
<b>1. KJLMS Site Access</b> .....	3
1.1 Administrative Features .....	3
1.1.1 Customizable Theme .....	4
1.1.2 Secure Authentication and Mass enrollment .....	4
1.1.3 Course Creation and Backup facility .....	8
1.1.4 Managing the users roles and permissions .....	16
1.1.5 Plugin installation and Management .....	18
1.1.6 Report Log Access.....	21
1.1.7 Front Page Settings .....	22
<b>2. KJLMS Instructors Access</b> .....	25
2.1 Course Development Features .....	25
2.1.1 Course Content Template Creation .....	25
2.1.2 Course Enrollment .....	30
2.1.3 Activity Collaboration .....	36
2.1.4 Resource Collaboration .....	63
2.1.5 Assessment Option .....	74
<b>3. KJLMS Students Access</b> .....	75
3.1 Students Access Features .....	75
3.1.1 Change Password Option.....	75
3.1.2 Student Profile Access .....	77
3.1.3 Messages and Notifications .....	78
3.1.4 Course Access.....	80
3.1.5 Dashboard Control.....	85

## **INTRODUCTION**

### **What is a Learning Management System?**

Learning Management System delivers an apt platform to facilitate the teaching-learning process in this digital era. Both the faculty members and the students can access this platform from anywhere at any time through their specific login credentials. It facilitates the blended mode of teaching-learning process of both online and offline classes by organizing and executing the teaching and learning in a creative manner. The initial consideration of pedagogy design and instructional design for course preparation is a good practice in LMS. Flip classroom concepts can be easily implemented in LMS by uploading the content for the next day's lecture and that will help the students to read and come to the class.

Few guidelines for the effective implementation of LMS:

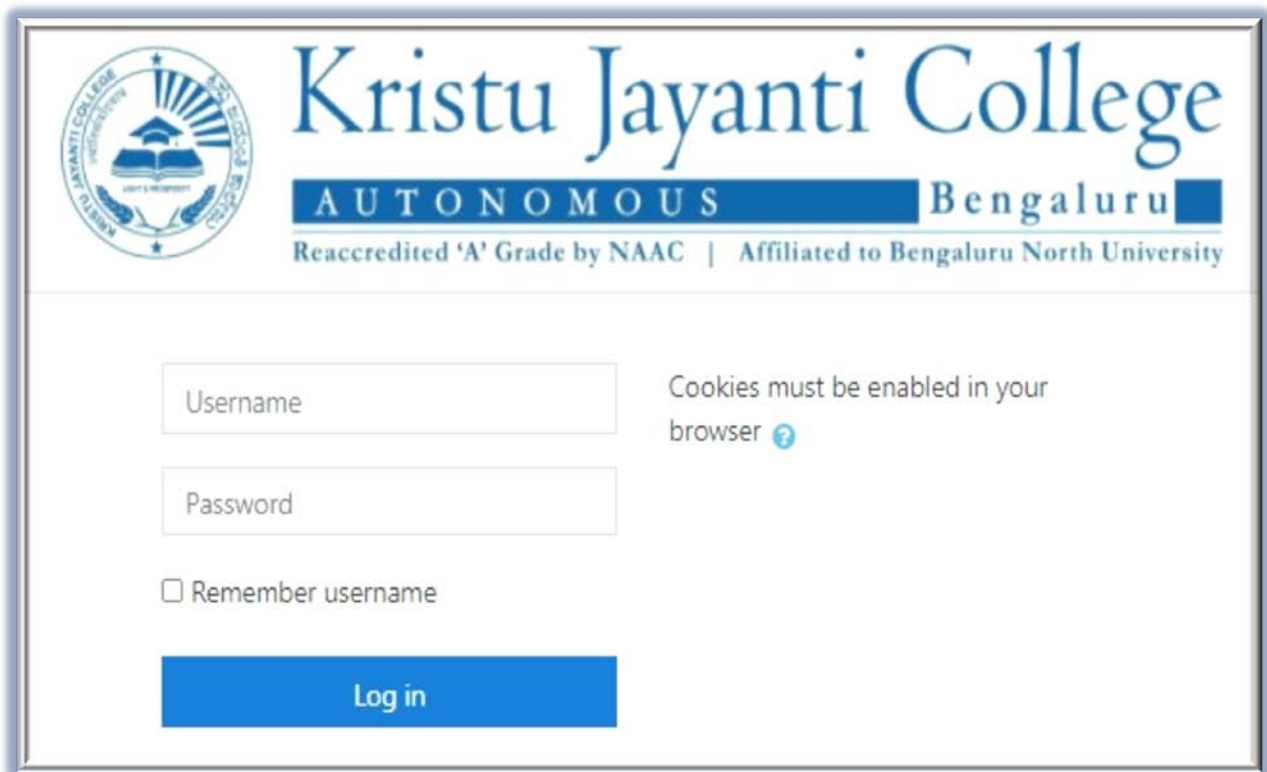
- Best way to start planning our course in LMS is to envision how the students will demonstrate new knowledge or skills (basically learning outcomes). The same can be displayed in the Course landing page.
- Learning outcomes can be displayed for each individual unit.
- It is best to offer your course content in different formats which includes a combination of presentations, Text file (preferably PDF), audio, video and book links.
- The teacher should plan a course content for all the units and each class wise material must be uploaded in LMS (that's the best practice).
- Each day, a teacher can assess the students based on the content delivered in the class by adding an activity (assignment – short answer / Essay type questions) or a quiz assessment for a topic. (Example: if 5 topics headings are there in a unit, 5 different activities and assessment can be planned priorly)
- The teachers should make sure that each topic's assessments ties directly to the learning outcomes for the particular topic.
- Each of the activities and the resources (content material) need to connect both the learning outcomes and the assessments.

## ABOUT KJC-LMS

Kristu Jayanti College Learning Management System (KJLMS) is a web application that enables the Teachers to create dynamic courses that extend learning to the students, anytime, anywhere. Irrespective of roles and permissions KJLMS meets all the requirements of the different stake holders. KJC-LMS provides extremely customizable environment for both Teaching and Learning.

### 1. KJLMS Site Access

KJLMS can be accessed through the URL – [kristujayantilms.com](http://kristujayantilms.com). KJLMS is managed through authorized administrators to leverage the application for the content management and registration. There are four different users roles are having the access to the KJLMS. Each user group of individuals are given separate login credentials to access the KJLMS



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Username

Password

Remember username

Log in

Cookies must be enabled in your browser ?

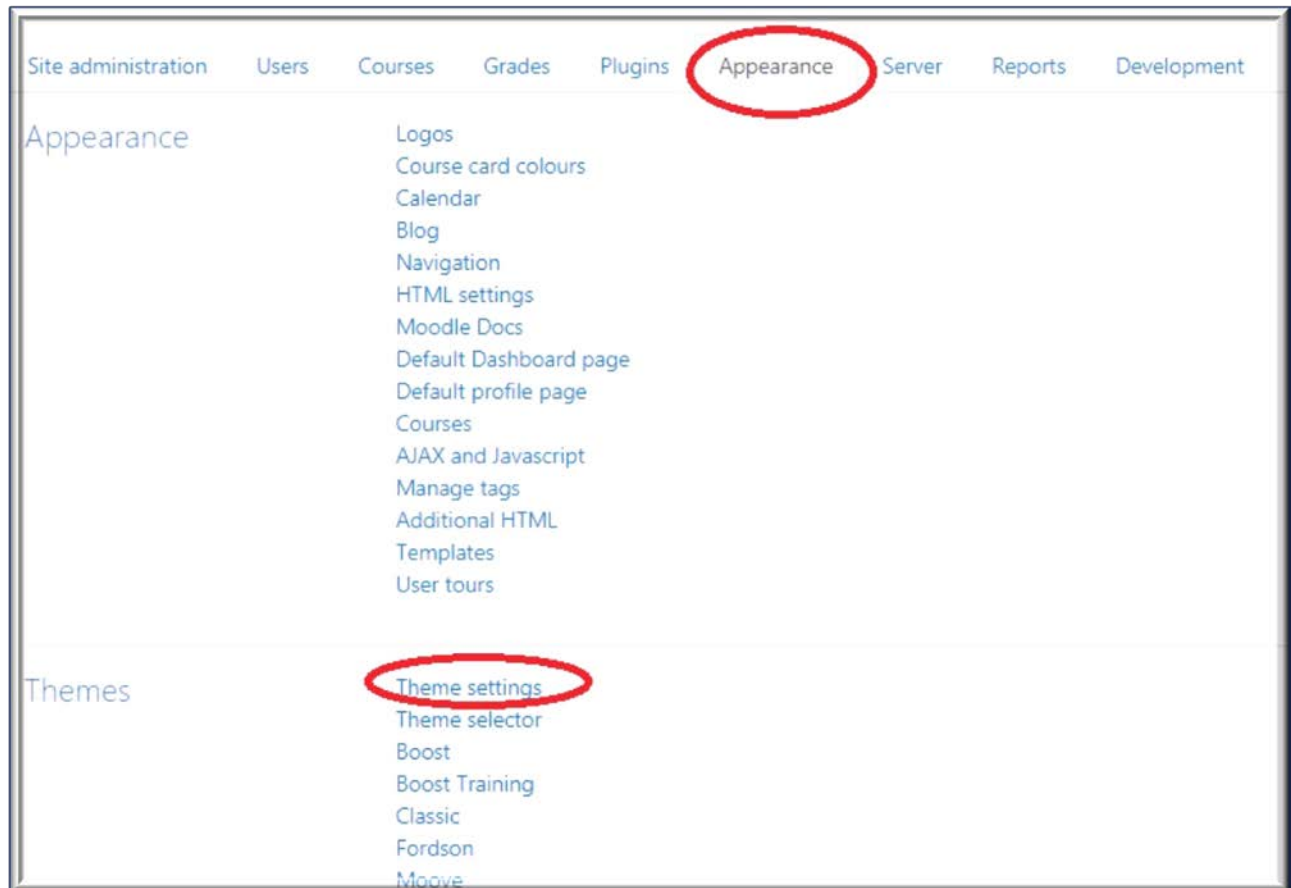
#### 1.1 Administrative Features

Following Administrative features are addressed in KJLMS:

- Customizable Themes
- Secure Authentication and Mass enrollment
- Course Creation and Backup facility
- Managing the users roles and permissions
- Plugin installation and management
- Report Log Access
- Front Page Settings

### 1.1.1 Customizable Theme

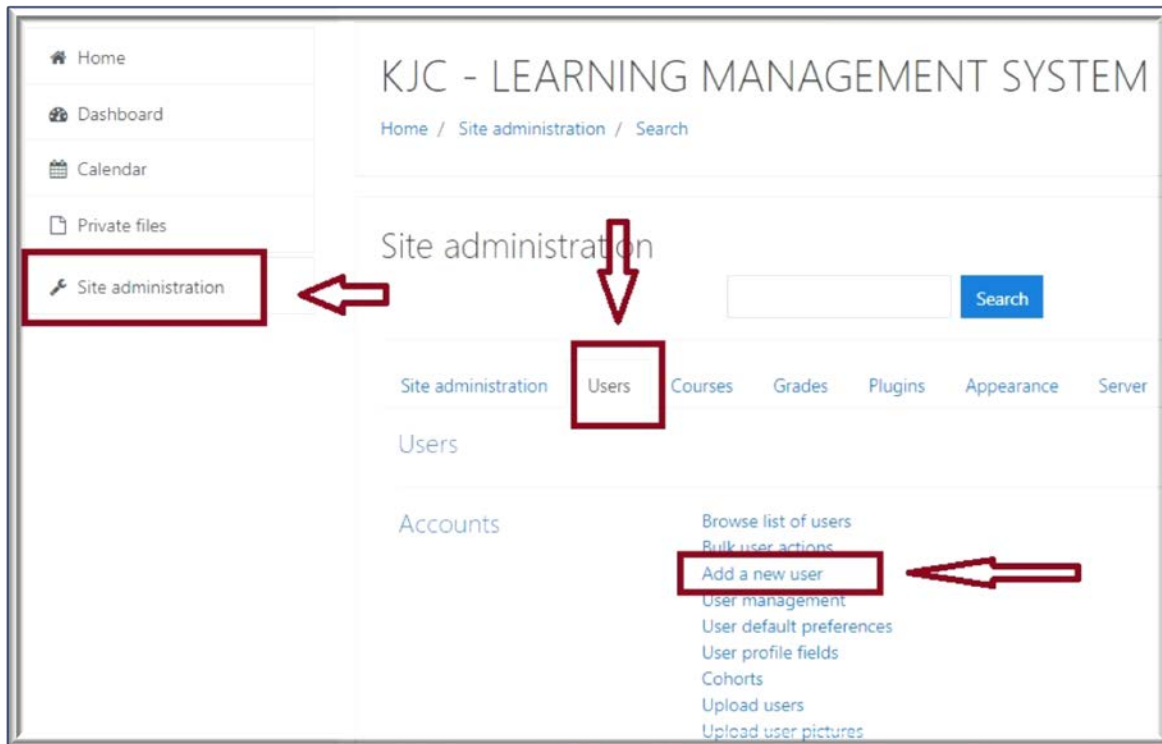
KJLMS customized with the default theme, 'Boost'. To customize the theme, the admin has to select the Appearance option and then theme setting option in Site Administration.



### 1.1.2 Secure Authentication and Mass enrollment

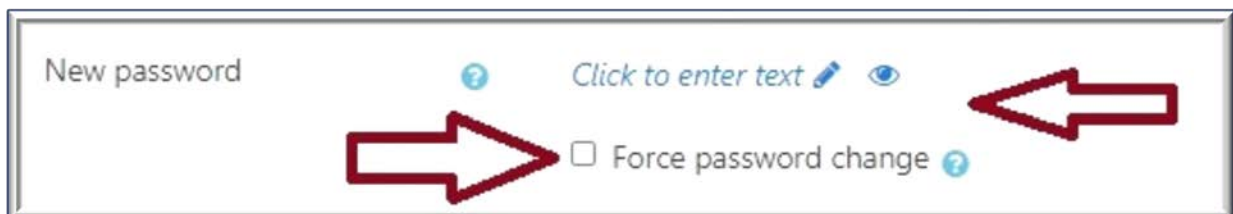
Everyone using KJLMS site must have an account. Three different account holders are having access to the KJLMS viz. Administrator, Teachers and Students. New user can be added individually or through bulk create accounts via CSV file.

1.1.2.1 To add a new user Admin has to follow the given navigation - **Site Administration->User->Add user**



1.1.2.2 After selecting the Add new user option, the Admin has to fill the necessary fields like Username, Password, First name, Surname and Email address.

**Note:** To make the change password option compulsory, the admin has to check the Force Change password option



Home

- Dashboard
- Calendar
- Private files
- Site administration

### General

Username

Choose an authentication method: Manual accounts

Suspended account

Generate password and notify user

The password must have at least 8 characters, at least case letter(s), at least 1 non-alphanumeric character(s)

New password:  [Click to enter text](#)

Force password change

First name

Surname

Email address

Email display:  Allow only other course members to see my email address

City/town:  Bengaluru

Select a country:  India

Timezone: Asia/Kolkata

1.1.2.3 To add new user in bulk, the admin has to select the Upload user option from the **Site Administration->User->Upload user**

Site administration Users Courses Grades Plugins

Users

Accounts

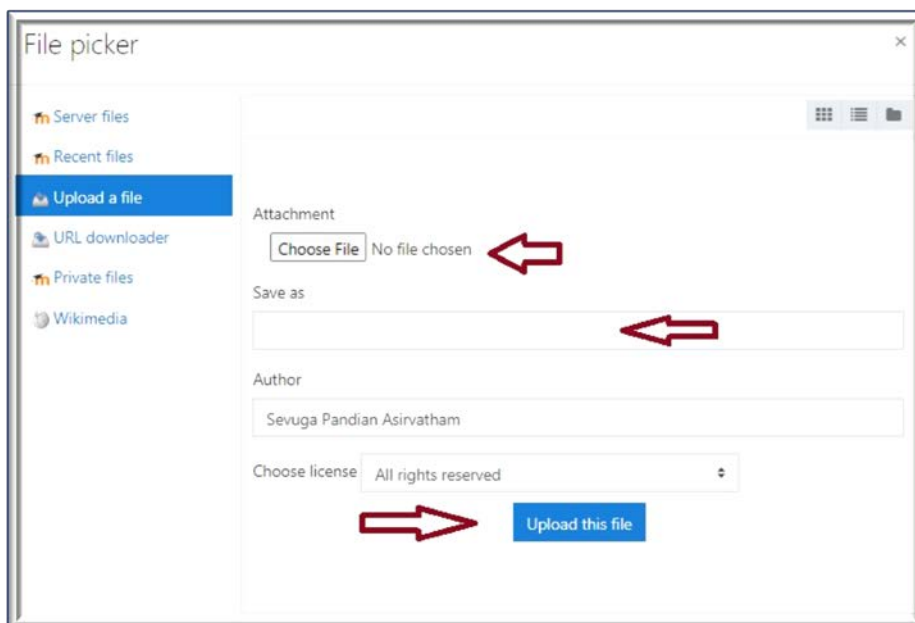
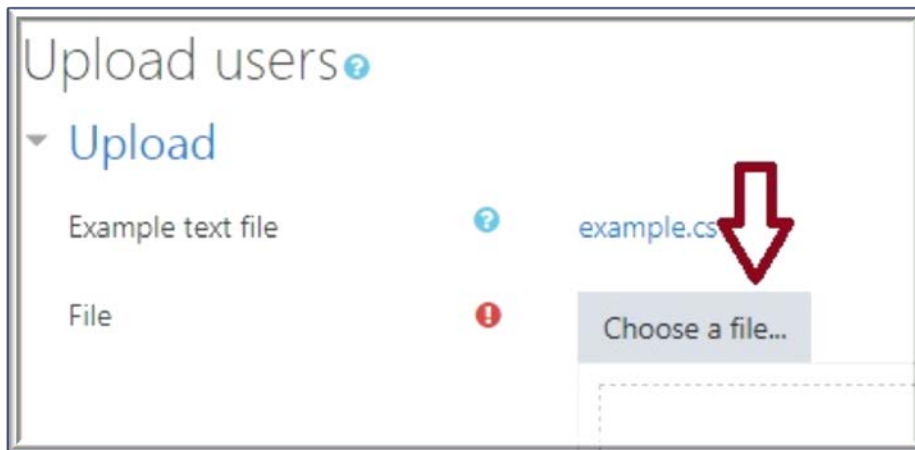
- Browse list of users
- Bulk user actions
- Add a new user
- User management
- User default preferences
- User profile fields
- Cohorts
- Upload users

1.1.2.4 To upload users in bulk, the Admin has to prepare the Excel file in CSV format with the limited fields in the file like firstname, lastname, username, password and email

firstname	lastname	username	password	email
abhinavawasthi	2019BCAwithAnalytics	19cs2a1001	*****	19cs2a1001@kristujayanti.com
abinthomas	2019BCAwithAnalytics	19cs2a1002	*****	19cs2a1002@kristujayanti.com
airinelekshmisathish	2019BCAwithAnalytics	19cs2a1003	*****	19cs2a1003@kristujayanti.com

**Note:** The CSV file can have any number of records in one file. This option helps the Admin to upload the new user data sheet in one click.

Once the Admin ready with the CSV file he/ she clicks the upload user option to add the user in bulk.

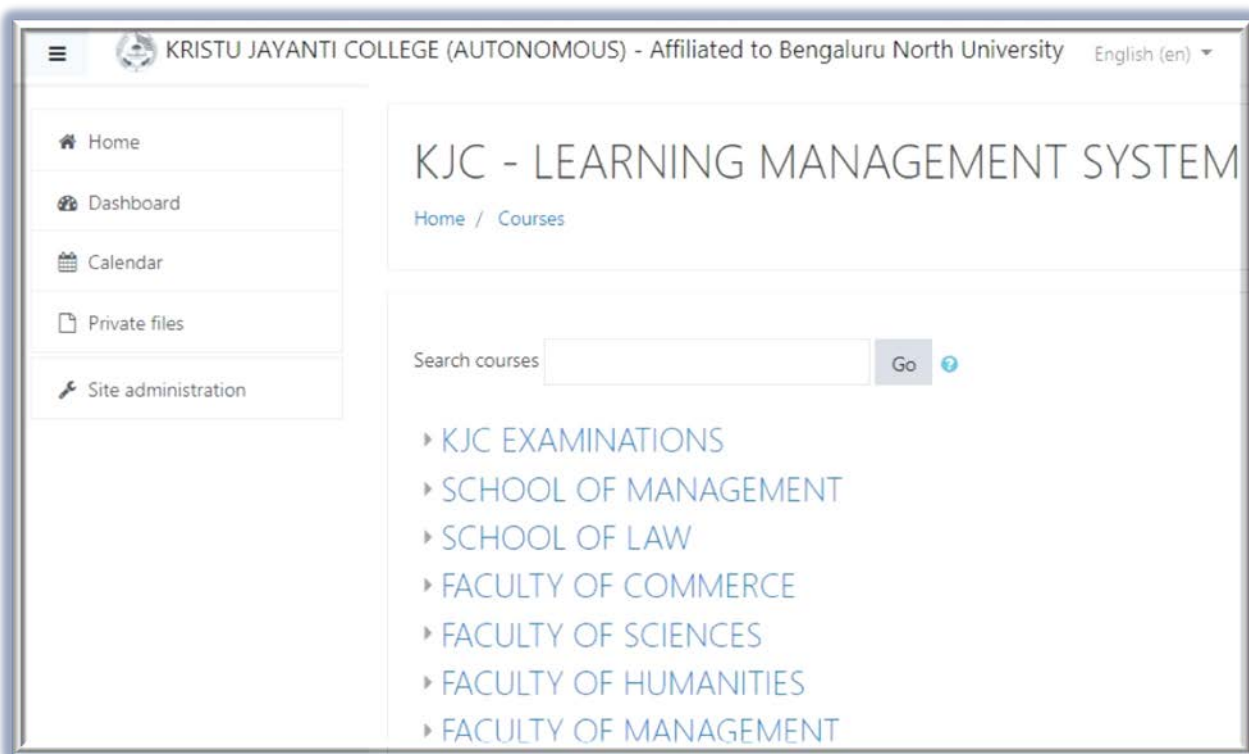


After selecting the Choose a file option, the Admin has to upload the corresponding CSV file.

CSV line	firstname	lastname	username	password	email
2	jamesjohnson	2019MAEco	19cm401001		19cm401001@kristujayanti.com
3	lalduhzuali	2019MAEco	19cm401003		19cm401003@kristujayanti.com
4	nirmalrs	2019MAEco	19cm401004		19cm401004@kristujayanti.com

### 1.1.3 Course Creation and Backup facility

KJLMS Administrators / coordinators are the regulators to define the course template page and enroll the subject teachers to create lecture contents and the related activities for the respective courses.



KJLMS has been customized to have six parent categories to create courses for the benefits of the students. The categories are, KJC Examination for conducting online examinations, School of Management, School of LAW, Faculty of Commerce and Management, Faculty of Sciences and Faculty of Humanities. The regulators can select any of the categories of their choice, to create the course template page.




KJC - LEARNING MANAGEMENT SYSTEM


Home / [Courses](#)

Search courses

- ▶ KJC EXAMINATIONS
- ▶ SCHOOL OF MANAGEMENT
- ▶ SCHOOL OF LAW
- ▶ FACULTY OF COMMERCE
- ▶ FACULTY OF SCIENCES
- ▶ FACULTY OF HUMANITIES
- ▶ FACULTY OF MANAGEMENT




1.1.3.1 After selecting the particular category, the regulators are requested to select corresponding department and the respective semesters to create the course template page.

- ▼ FACULTY OF SCIENCES
  - ▶ Department of Computer Science (PG)
  - ▼ Department of Computer Science (UG) 
    - ▶ BACHELOR OF SCIENCE
    - ▶ BACHELOR OF ARTS -JPCS
    - ▶ BACHELOR OF COMPUTER APPLICATIONS - BCA
    - ▶ VALUE ADDED COURSES (VAC)

BCA204A31 Visual Programming

Teacher: [Prof.Naveeth Babu](#)  
Teacher: [Prof. ManimekalaB](#)  
Teacher: [PrathapG PrathapG](#)  
Teacher: [Anthony Vincent](#)






1.1.3.2 After selecting the Add new course. The regulators has to fill the respective fields in order to create the course template page.


Add a new course



General



Course full name   



Course short name   

Course category   FACULTY OF SCIENCES / Department of Computer Science (UG)



Course visibility  Hide ▾


Course start date  6 ▾ December ▾ 2020 ▾ 00 ▾ 00 ▾ 



Course end date  6 ▾ December ▾ 2021 ▾ 00 ▾ 00 ▾ 



Course ID number  



1.1.3.3 The regulators should select the right path in the course category, so that the newly created course will be displayed exactly under the required category. In KJLMS course Id number is the course id generated by the COE for individual courses.

Course category   FACULTY OF SCIENCES / Department of Computer Science (UG)

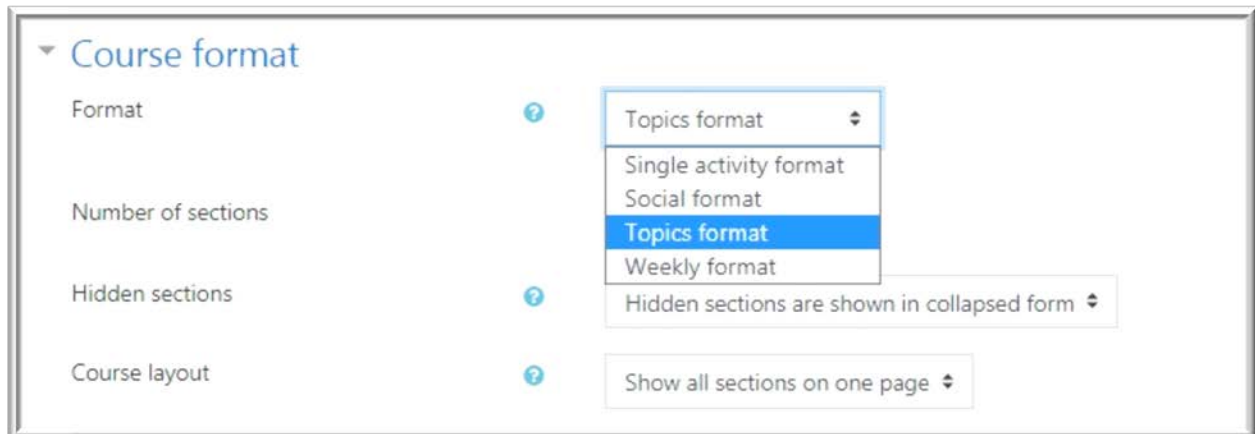
Course visibility  Hide ▾

Course start date  6 ▾ December ▾ 2020 ▾ 00 ▾ 00 ▾ 

Course end date  6 ▾ December ▾ 2021 ▾ 00 ▾ 00 ▾ 

Course ID number  

1.1.3.4 The course format field will decide, how the course content to be displayed, whether in topic format, weekly format, single activity format or social format.



▼ Course format

Format ?

Single activity format

Social format

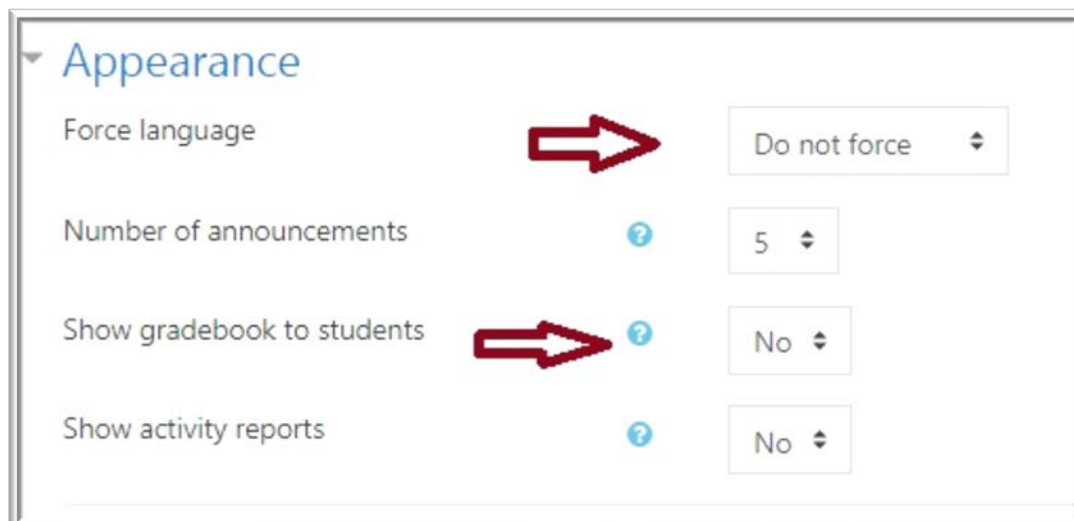
Topics format

Weekly format

Number of sections

Hidden sections ?

Course layout ?



▼ Appearance

Force language ?

Number of announcements ?

Show gradebook to students ?

Show activity reports ?

1.1.3.5 The appearance option will decide whether the course content to be displayed in a specific language (choice of the regulators) or in default language English (if it is Do not force). And the major selection option for the visibility of the grade book to the students.

1.1.3.6 Each course, file upload size option is selected according to the requirement of the respective courses. Even the group creation for the courses can be selected from the given option and finally select Save and return option for the

KRISTU JAYANTI COLLEGE (AUTONOMOUS) - Affiliated to Bengaluru North University

English (en) PrathapG PrathapG

- Home
- Dashboard
- Calendar
- Private files
- My courses
- PCCF
- VP Lab
- VisualProg
- Cloud
- Site administration
- Add a block

**Course format**

Format: Topics format

Number of sections: 2

Hidden sections: 1 sections are shown in collapsed form

Course layout: Show all sections on one page

**Appearance**

**Files and uploads**

**Completion tracking**

**Groups**

**Tags**

2018 BCA.rar

Show all

KRISTU JAYANTI COLLEGE (AUTONOMOUS) - Affiliated to Bengaluru North University

English (en) PrathapG PrathapG

- Home
- Dashboard
- Calendar
- Private files
- My courses
- PCCF
- VP Lab
- VisualProg
- Cloud
- Site administration
- Add a block

Number of sections: 2

Hidden sections: 1 sections are shown in collapsed form

Course layout: Show all sections on one page

**Appearance**

Number of announcements: 5

Show gradebook to students: 1

Show activity reports: 1

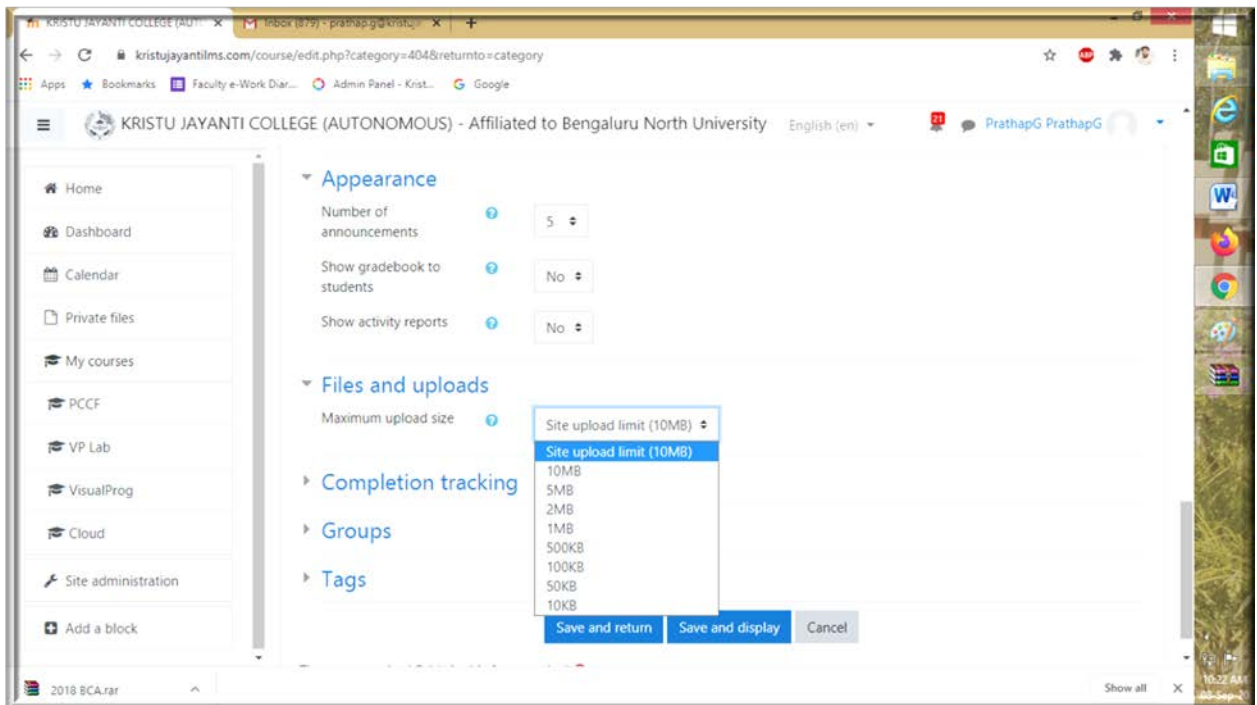
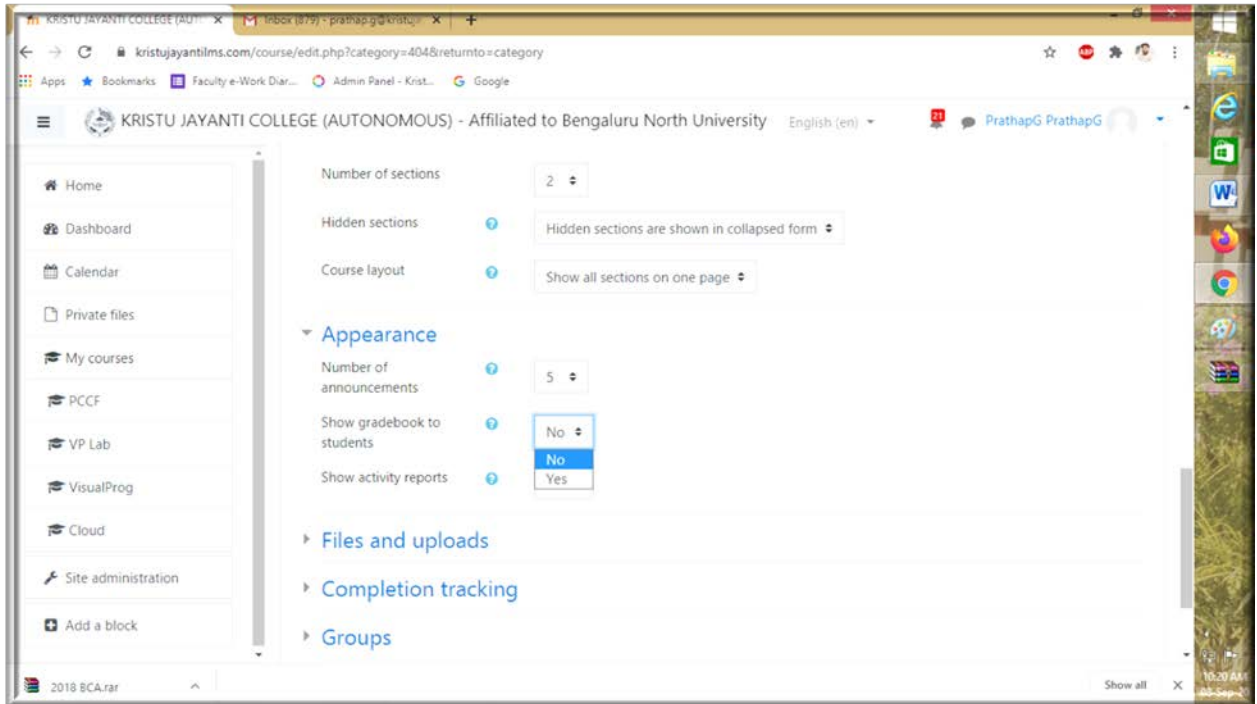
**Files and uploads**

**Completion tracking**

**Groups**

2018 BCA.rar

Show all



## Sample Course Page:

KRISTU JAYANTI COLLEGE (AUTONOMOUS) - Affiliated to Bengaluru North University English (en) Sevuga Pandian Asrivatham

# BCA204A33 Operating System Concepts and Unix / Linux

Home / Courses / FACULTY OF SCIENCES / Department of Computer Science (UG) / BACHELOR OF COMPUTER APPLICATIONS - BCA / BCA III Semester 2019-2022 / OS

- OS
- Participants
- Badges
- Competencies
- Grades
- General
- Unit - 1 Lecture 1
- Unit - 1 Lecture 2
- Unit - 1 Lecture 3
- Unit - 1 Lecture 4
- UNIT TEST -1
- Unit - 2 Lecture 1
- Unit - 2 Lecture 2

Announcements

### Course Objective:

To acquire the fundamental knowledge of the operating system architecture, components and various operations performed by the operating system.

### Course Outcomes:

After completing this course, the student will be able to:

- compare batch, time sharing, real time and distributed operating systems.
- explain system calls and services, virtual machines, file access and file allocation methods.

Completion Progress

▶ NOW

Progress: 0%

Mouse over or touch bar for info

Overview of students

Completion Progress

▶ NOW

Progress: 0%

Mouse over or touch bar for info

Overview of students

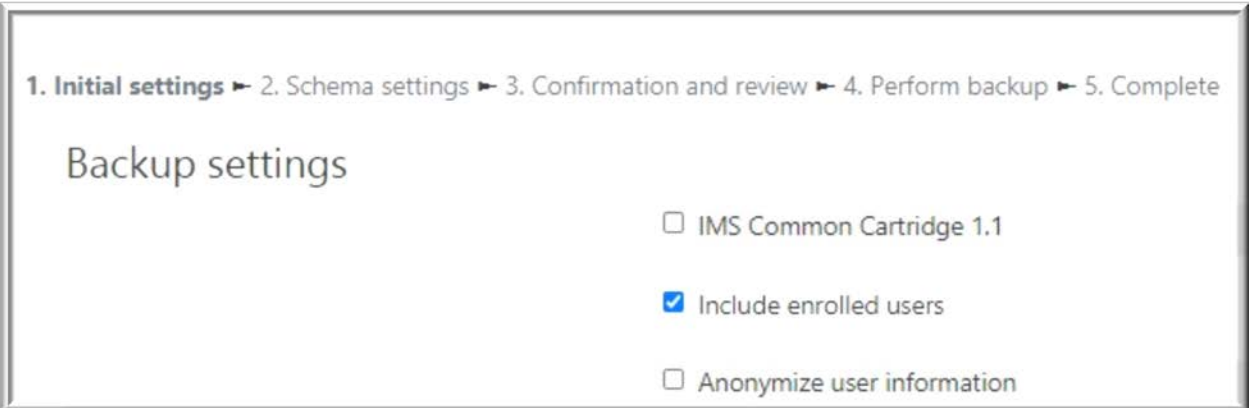
### 1.1.3.7 Course backup facility

To take the backup of the current course, the regulators has to select the gear icon from the course page and then select the backup option from the list.

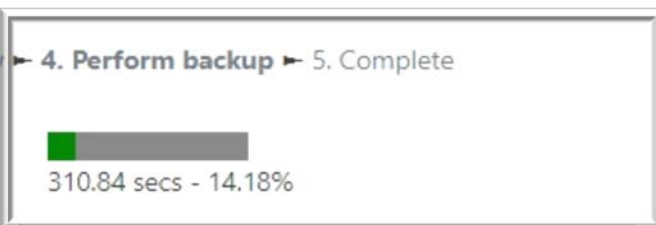
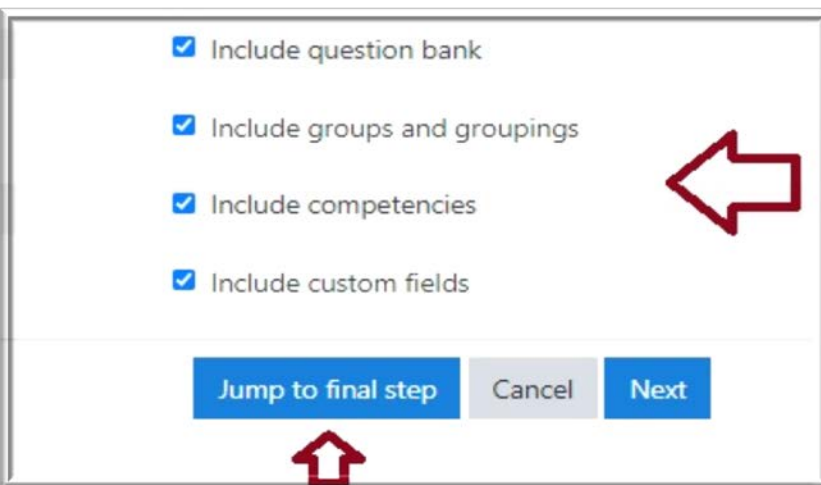
# BCA204A33 Operating System Concepts and Unix / Linux

Home / Courses / FACULTY OF SCIENCES / Department of Computer Science (UG) / BACHELOR OF COMPUTER APPLICATIONS - BCA / BCA III Semester 2019-2022 / OS

- Edit settings
- Turn editing on
- Course completion
- Filters
- Gradebook setup
- Backup
- Restore
- Import
- Reset
- More...



1.1.3.8 In the backup page, the regulators has to select the needed check box for the course backup and then click the Jump to the final step button.





1.1.3.9 After the backup completion, the confirmation message “The Backup file was successfully created” will be displayed.

# Backup course: OS

Home / Courses / FACULTY OF SCIENCES / Department of Computer Science (UG) / BACHELOR OF COMPUTER

1. Initial settings ▶ 2. Schema settings ▶ 3. Confirmation and review ▶ 4. Perform backup ▶ 5. **Complete**

The backup file was successfully created.

  [Continue](#)

Filename	Time	Size	Download	Restore
backup-moodle2-course-533-os-20201205-1358-numbz	Saturday, 5 December 2020, 1:58 PM	10.9KB	<a href="#">Download</a>	<a href="#">Restore</a>

[Manage backup files](#)

1.1.3.10 In the final step, the regulators can download the backup file **with .mbz extension** and save it for restoring the same course in future.

**1.1.4 Managing the users roles and permissions**

As we mentioned earlier, KJLMS we have five different roles. Site Administrator, Manager, LMS coordinators, Teachers and Students. Each of these roles has the individual privileges in accessing the KJLMS. Site Admin has the highest privilege in all of these roles to assign new roles and to control the permission of all the authenticated users.

1.1.4.1 To define the permission, the Admin has to navigate the following order: **Site Administration->Users->Permissions**



Site administration   Users   Courses   Grades   Plugins

Users   ↑   ↑

Accounts

- Browse list of users
- Bulk user actions
- Add a new user
- User management
- User default preferences
- User profile fields
- Cohorts
- Upload users
- Upload user pictures

↓

Permissions

- User policies
- Site administrators
- Define roles
- Assign system roles
- Check system permissions
- Capability overview
- Assign user roles to cohort
- Unsupported role assignments

→

1.1.4.2 New roles for the teachers can be assigned by the Site Administrator by selecting the option from the permissions list **“Assign system roles”**

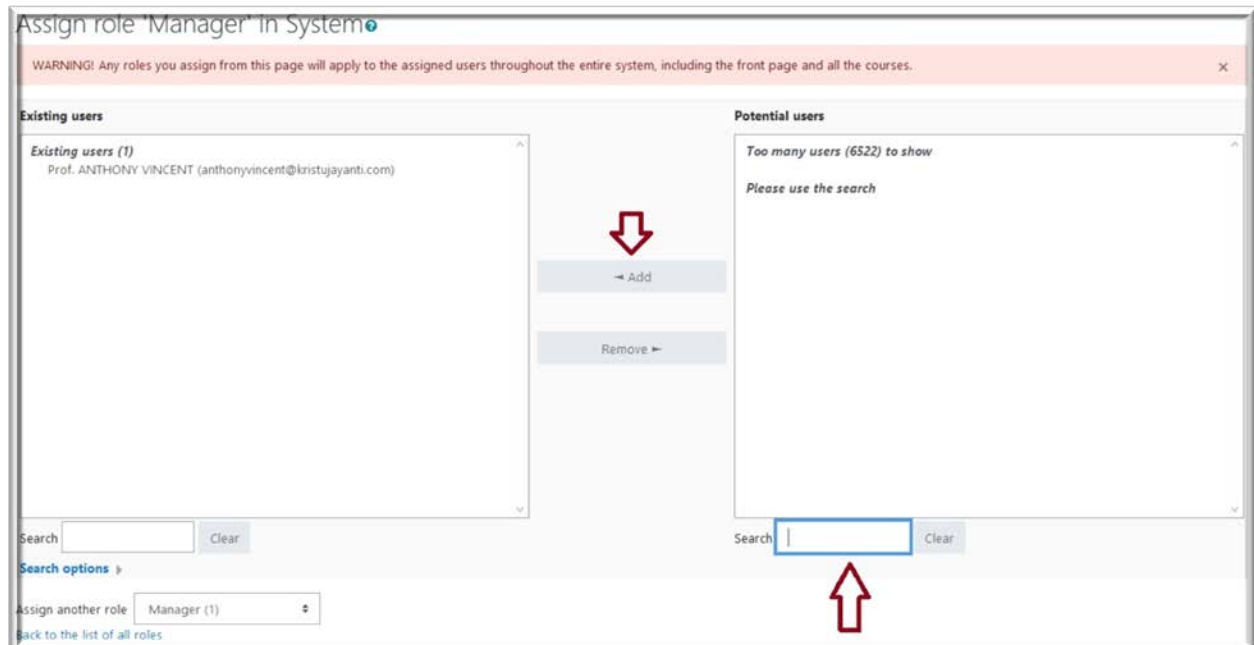
Assign roles in System

WARNING! Any roles you assign from this page will apply to the assigned users throughout the entire system, including the front page and all the courses.

Please choose a role to assign

Role	Description	Users with role
→ Manager		1 Prof. ANTHONY VINCENT
→ Course creator		0
→ LMS COORDINATOR	KJC LMS coordinators are the regulators to define the course template page and enroll the subject teachers to create lecture contents and the related activities for the respective courses	25 More than 10

1.1.4.3 To add manager role for the selected user, the Admin has to select the Manager. Once he / she selects the option the following page will appear to add new user for that role.



Search for the potential users and then add the users into the existing user list for the Manager role. The same procedure should be followed to add the LMS Coordinators role. The LMS coordinators role is created as a clone of Manager role to control the accessibility of KJLMS.

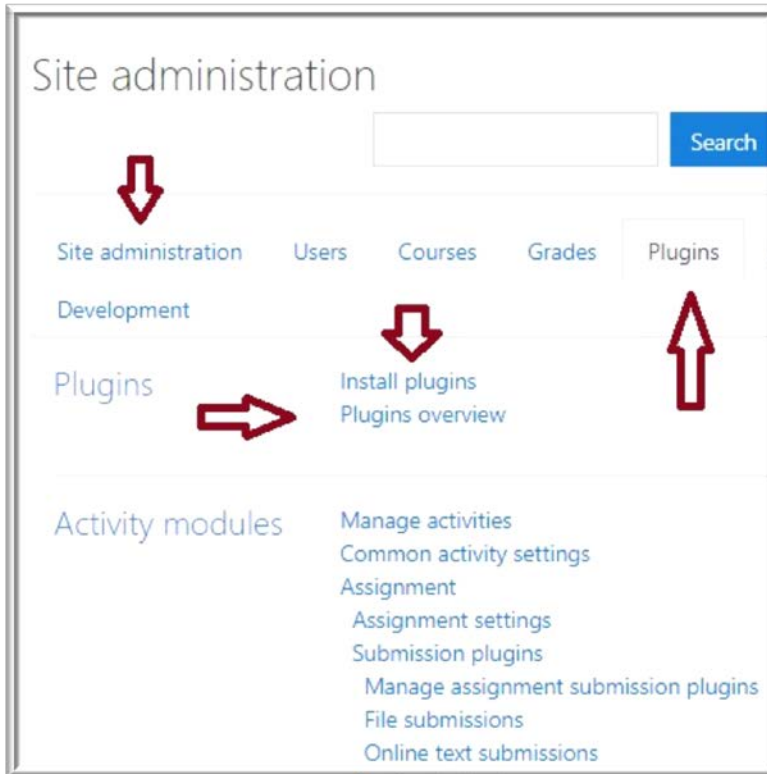
### 1.1.5 Plugin installation and Management

KJLMS have been customized with various user defined Plugins. Plugins enables systems additional features and functionality, such as adding new activities, quiz type questions, new reports, integrations with other external tools and many more. Plugins can be easily downloaded from the plugin repository - <https://moodle.org/plugins> (Important - Plugin version support should be verified before the installation)

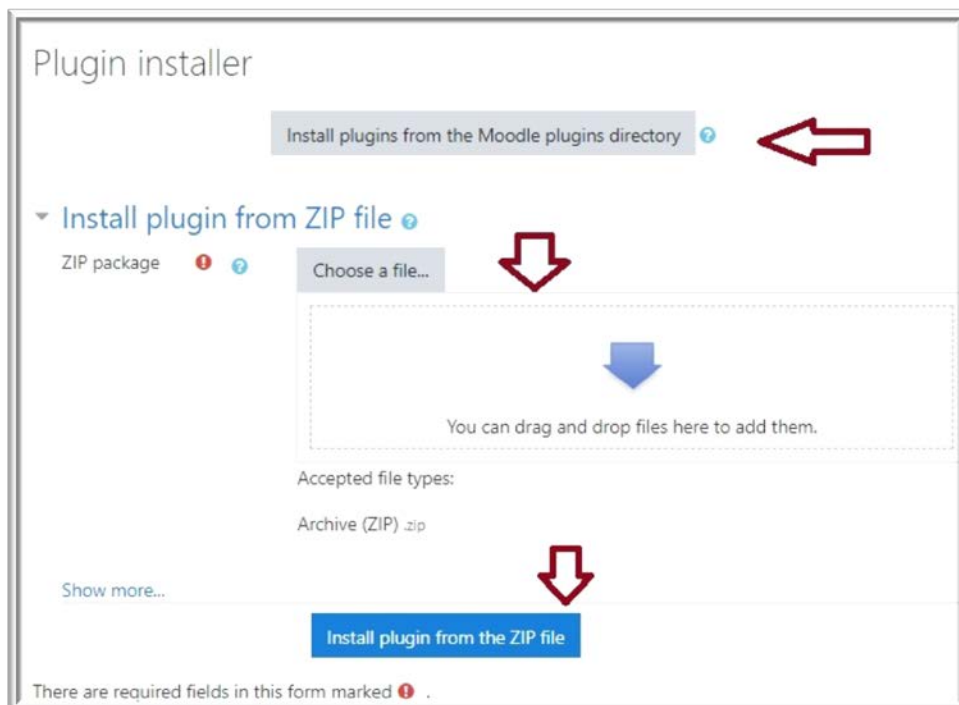
#### 1.1.5.1 Plugin installation

There are two ways to install a Plugin. First method is to directly installation from Directory plugin and the second method is by uploading the appropriate plugin file. To install the plugin, Site Admin should reach to the install plugin option from the Site Administration: **Site Administration->Plugins->Install Plugins**

If the site Admin installs directly from the plugin directory, he / she should check the version support for the plugins and then confirm the installation request and finally check the plugin validation report. In KJLMS, plugin installation was done through the uploading of the plugin zip file.



After selecting the “Install Plugins” option, the Site Admin should upload the plugin zip file which was downloaded from the repository. After uploading the zip file in the corresponding text box, the Admin can click the “Install Plugin from the Zip file” button in the bottom.



### 1.1.5.2 Plugin Management

To manage the installed plugins, the Site Admin should the Plugin overview option from Site Administration: **Site Administration->Plugins->Plugins Overview**

Plugins Overview options gives the detail report of installed Plugins and provide the option for uninstalling the Plugins.

Plugins overview

Check for available updates

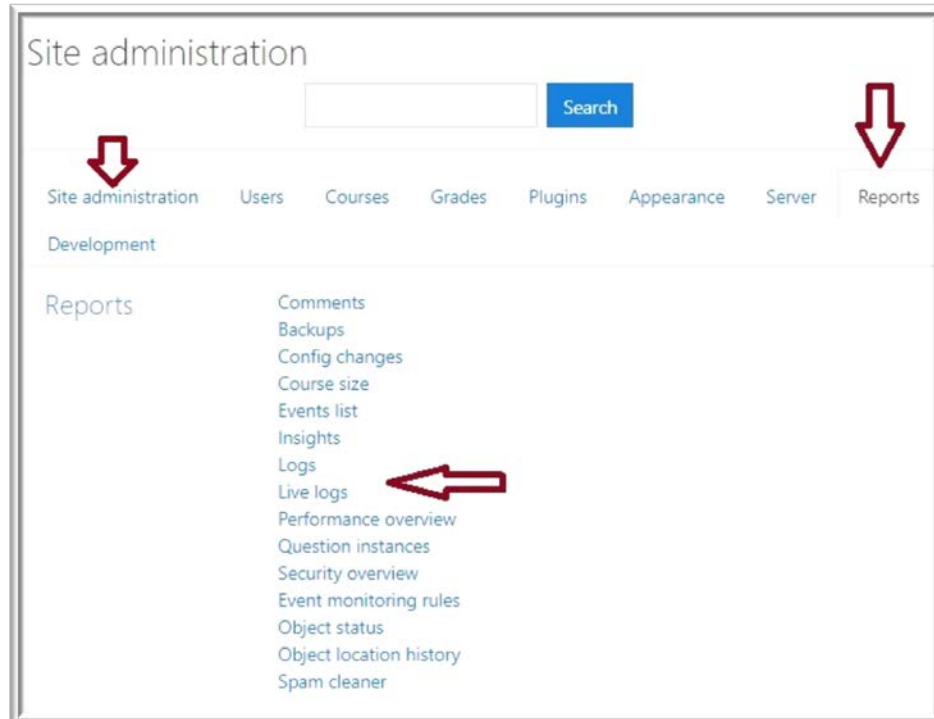
Last check done on 8 December 2020, 2:14 PM

Install available updates (2) All plugins 418 Additional plugins 14 Available updates 2

Plugin name	Version	Availability	Actions
<b>Activity modules</b>			
Assignment mod_assign	2019111800	Enabled	Settings Uninstall
Assignment 2.2 (Disabled) mod_assignment	2019111800	Disabled	Uninstall
Book mod_book	2019111800	Enabled	Settings Uninstall
Chat mod_chat	2019111800	Enabled	Settings Uninstall

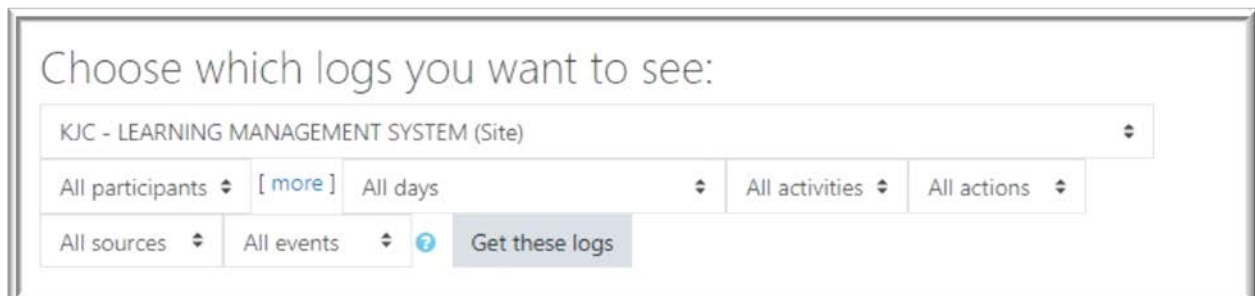
### 1.1.6 Report Log Access

Log file helps the Site Admin to view and generate reports on activity and participation at course and site level. Following navigation will take Admin to the Log: Site **Administration->Reports**



#### 1.1.6.1 Accessing the Logs

The Site Admin can access the Logs of an individual user as well as the entire site.



Admin can filter based on the choice given in the Log page. Report can be generated based on the filtering option, such as individual participant or All Participants, particular day or collection of days, individual activity or All Activities.

KJC - LEARNING MANAGEMENT SYSTEM (Site)

All participants [more] Monday, 5 October 2020 All activities All actions

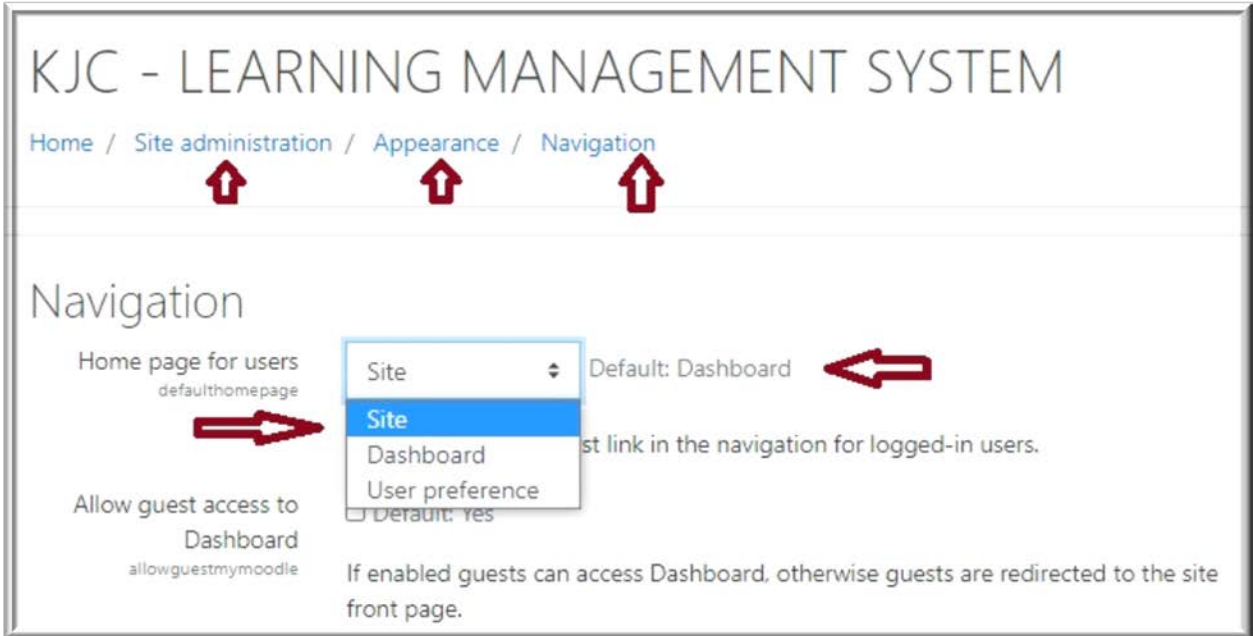
All sources All events Get these logs

1 2 3 4 5 6 7 8 9 10 ... 2731 »

Time	User full name	Affected user	Event context	Component	Event name
5 October 2020, 11:59 PM	aparnavpillai BAJPsEng	-	Front page	System	Course viewed
5 October 2020, 11:59 PM	aparnavpillai BAJPsEng	-	System	System	Web service function called
5 October 2020, 11:59 PM	theckinethalisharosedevasia BAJPCS	-	Course: Additional English I	System	Badge listing viewed

### 1.1.7 Front Page Settings

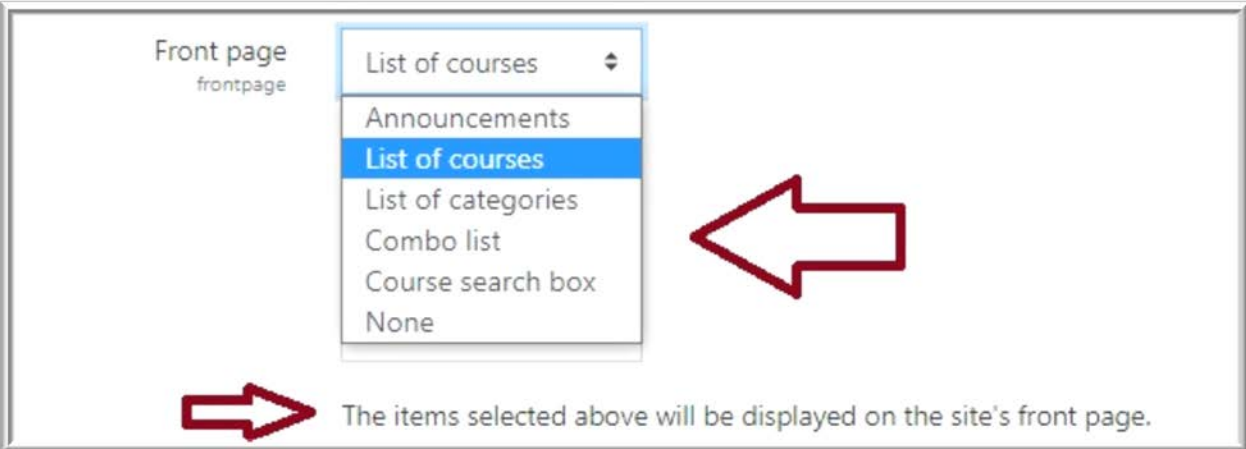
The look and feel of the KJLMS is depends on the option selections on the Front-Page Settings. The default view of Dashboard can be changed to the Site page by the Site Admin: **Site Administration->Appearance->Navigation**



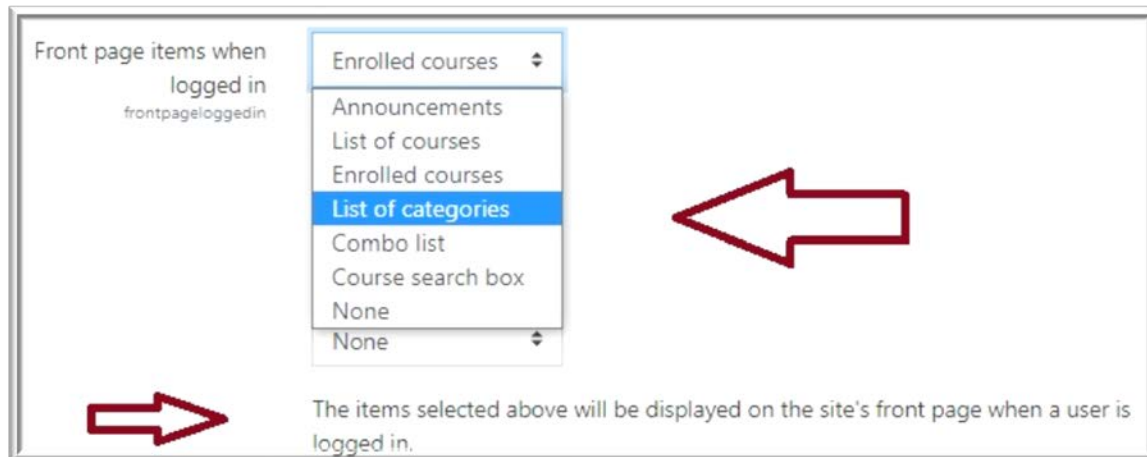
1.1.7.1 The above selection will allow the users to view the Site home page with the option of List of courses display or course category display. In KJLMS, “List of Courses” display has been made as a site page. **Site Administration ->Front Page-> Front page Settings**



After selecting the Front-page settings, the Admin has the privilege to select the drop-down option to have a specific view of the Front page.



1.1.7.2 The above option is for the user to view the front page before logging in. The Site Admin can change the front-page view for the logged in user by selecting the next option as depicted in the next image. In KJLMS, Enrolled courses option has been selected for the logged in users





## 2. KJLMS Instructors Access

In KJLMS, an Instructor or Teacher has the responsibility for the course content materials for their courses. They often also manage the enrollments of students and are able to change the layout of the course page.

### 2.1 Course Development Features

Following course development features are addressed in KJLMS:

- Course Content Template Creation
- Course Enrollment
- Activity Collaboration
- Resource Collaboration
- Assessment Options

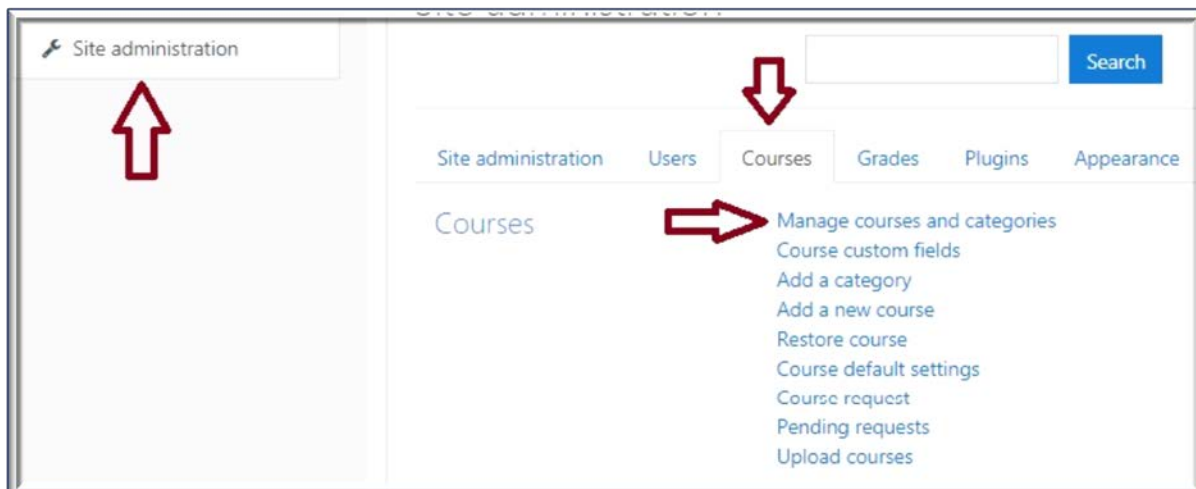
#### 2.1.1 Course Content Template Creation

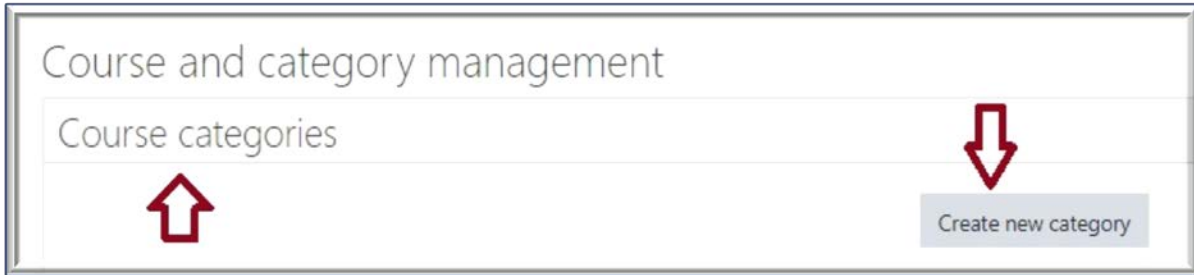
The heart of KJLMS is the courses that contains the resources and the activities. Creating the course category at the top level is the mandatory process in creating the courses in KJLMS.

2.1.1.1 To add a course category the LMS coordinators should follow the given navigation link:

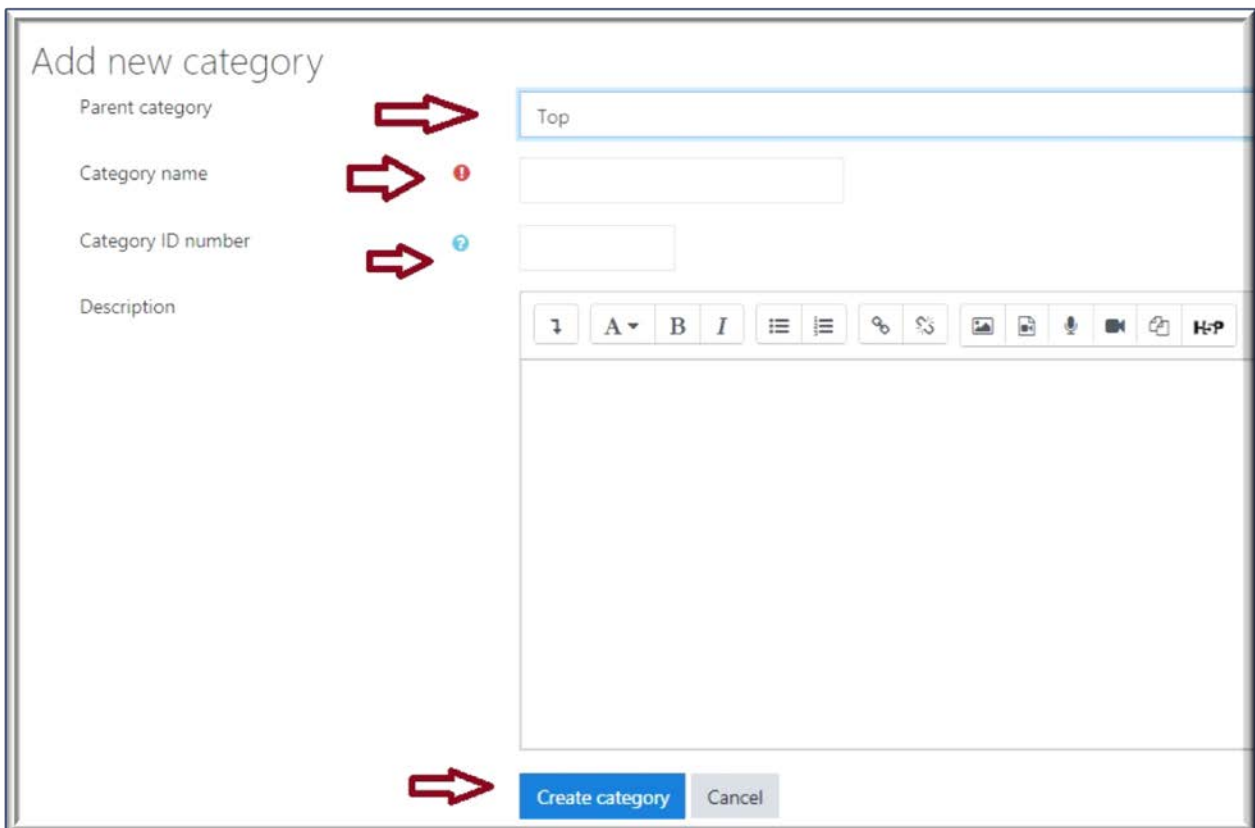
**Site administration>Courses>Manage courses and categories**

Selecting the Manage course and Categories will take the users to create a new category.






2.1.1.2 The LMS coordinators will fill in the category details for the creating a new course under the selected category. In KJLMS we have created three different deaneries, School of management and School of Law as the parent categories.

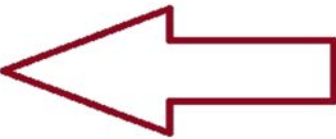


# KJC - LEARNING MANAGEMENT SYSTEM







Home / Courses

Search courses  Go 

- ▶ KJC EXAMINATIONS
- ▶ SCHOOL OF MANAGEMENT
- ▶ SCHOOL OF LAW
- ▶ FACULTY OF COMMERCE
- ▶ FACULTY OF SCIENCES
- ▶ FACULTY OF HUMANITIES
- ▶ FACULTY OF MANAGEMENT



2.1.1.3 Selecting the parent category and the respective department will allow the LMS coordinators to create the course template for the particular courses.

- ▼ FACULTY OF SCIENCES  **Top level parent category**
- ▶ Department of Computer Science (PG)
- ▼ Department of Computer Science (UG)  **Sub level category**
- ▶ BACHELOR OF SCIENCE
- ▶ BACHELOR OF ARTS -JPCS  **Next sub level category**
- ▼ BACHELOR OF COMPUTER APPLICATIONS - BCA
- ▶ BCA I Semester 2020-2023
- ▼ BCA III Semester 2019-2022
- ▶  BCA204A34 Probability and Statistics  **Course link**
- ▶  BCA204A33 Operating System Concepts and Unix / Linux
- ▶ BCA V Semester 2018-2021
- ▶ BCA V Semester Elective 2018-2021
- ▶ BCA V Semester Data Analytics Elective 2018-2021

Course categories:  
FACULTY OF SCIENCES / Department of Computer Science (UG) / BACHELOR OF COMPUTER APPLICATIONS - BCA / BCA III Semester 2019-2022

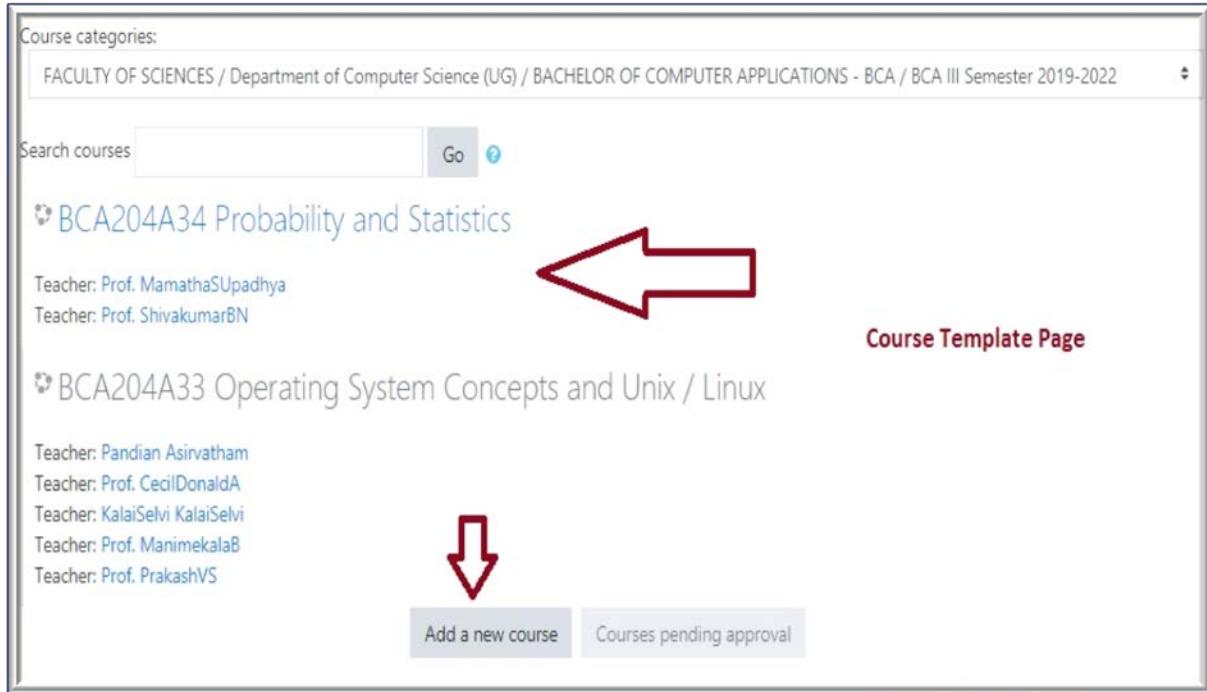
Search courses  Go

BCA204A34 Probability and Statistics  
Teacher: Prof. MamathaSUpadhya  
Teacher: Prof. ShivakumarBN

BCA204A33 Operating System Concepts and Unix / Linux  
Teacher: Pandian Asirvatham  
Teacher: Prof. CecilDonaldA  
Teacher: KalaiSelvi KalaiSelvi  
Teacher: Prof. ManimekalaB  
Teacher: Prof. PrakashVS

Add a new course Courses pending approval

**Course Template Page**



2.1.1.4 In KJLMS the LMS coordinators and Instructors or Teachers are given the privilege to create a new course in the course template page by the giving the following details in the respective text boxes in the subsequent images.

General

Course full name BCA204A33 Operating System Concepts and Unix / Lin

Course short name OS

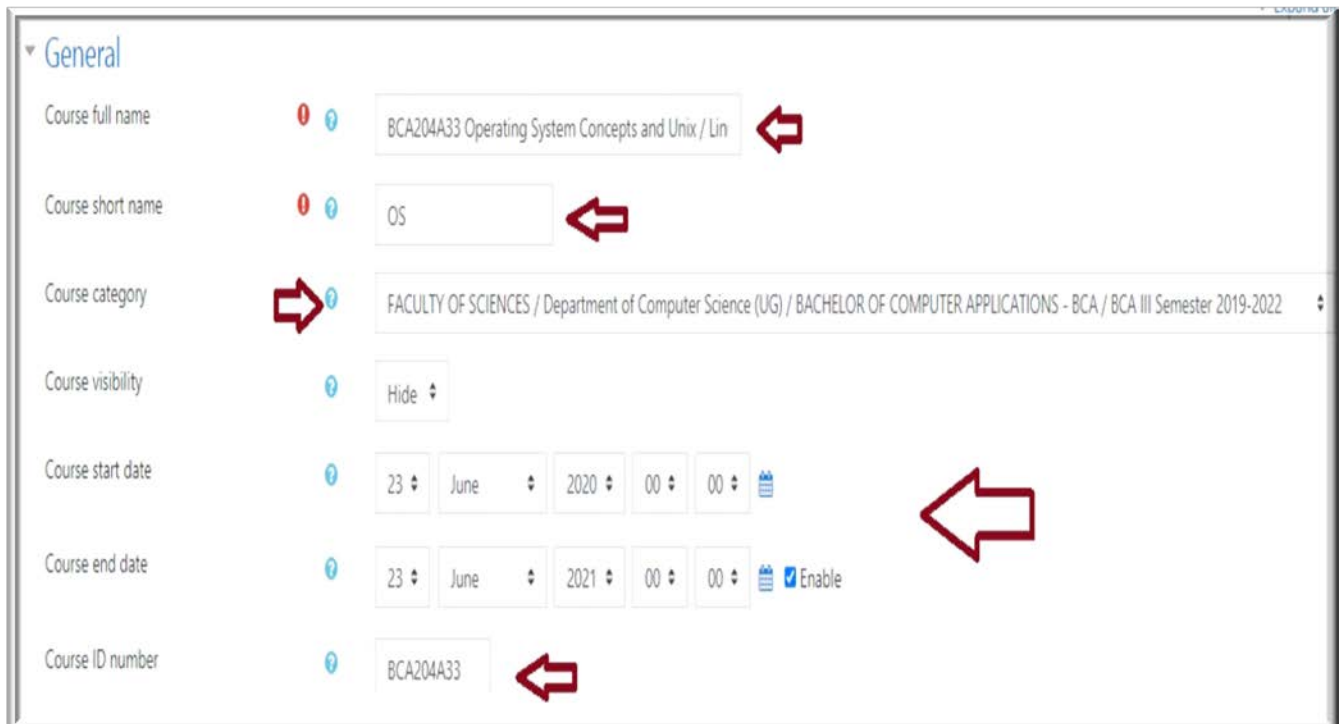
Course category FACULTY OF SCIENCES / Department of Computer Science (UG) / BACHELOR OF COMPUTER APPLICATIONS - BCA / BCA III Semester 2019-2022

Course visibility Hide

Course start date 23 June 2020 00 00

Course end date 23 June 2021 00 00 Enable

Course ID number BCA204A33



## ▼ Course format

Format



Topics format



Hidden sections



Hidden sections are shown in collapsed form



Course layout



Show all sections on one page



## ▼ Appearance

Force language

Do not force



Number of announcements



3



Show gradebook to students



No




Show activity reports




Yes



▾ **Files and uploads**  
 Maximum upload size ?  

---

▾ **Completion tracking**  
 Enable completion tracking ?  

---

▾ **Groups**  
 Group mode ?

Force group mode ?

Default grouping


▸ **Role renaming** ?

---

▾ **Tags**  
 Tags

▼ [Manage standard tags](#)













---







### 2.1.2 Course Enrollment

There are several enrolment methods available to a teacher, what is available, again, depends on the site administrator. The teacher might enroll students into course automatically. In KJLMS we have given restriction for Self enrollment and the Guest Login. For the security reasons, only through the Manual enrollment the users are allowed to access the KJLMS. The Admin has the privilege to hide the options by disable the eye symbol.













## Enrolment methods

Name	Users	Up/Down	Edit
Manual enrolments	152	↓	   
Guest access	0	↑ ↓	   
Self enrolment (Student)	0	↑	   

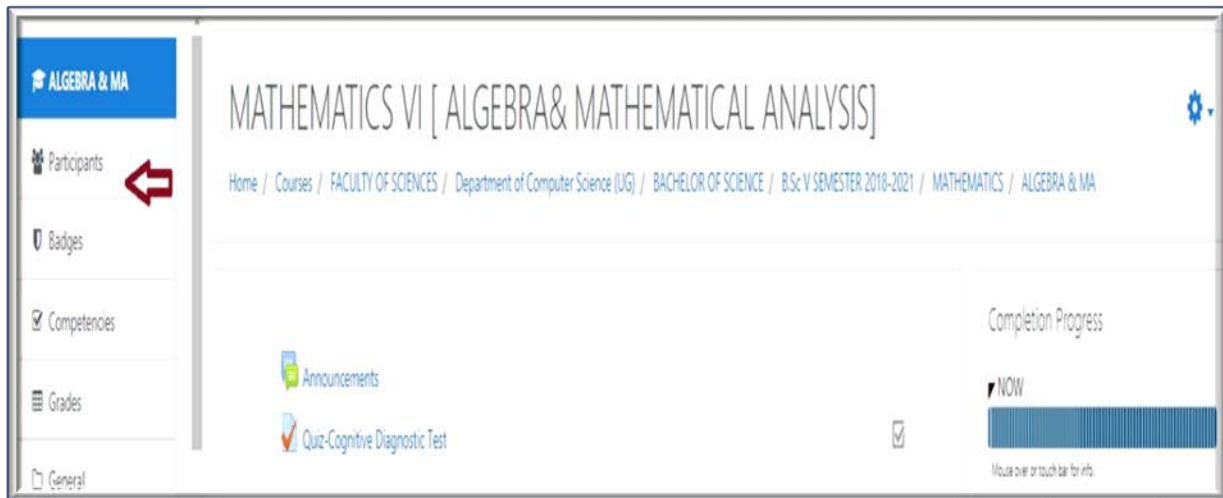
Add method

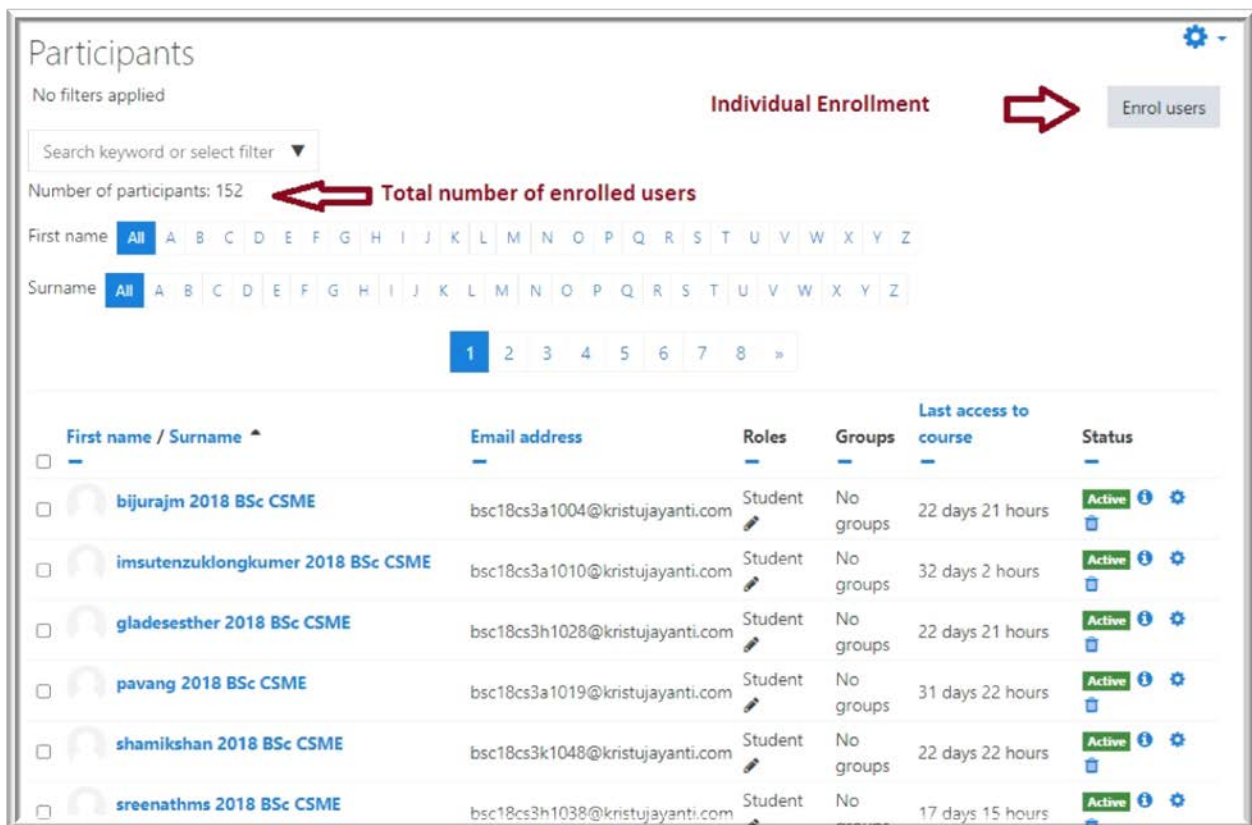
## Available authentication plugins

Name	Users	Enable	Up/Down	Settings	Test settings	Uninstall
Manual accounts	8679			<a href="#">Settings</a>		
No login	0					
CAS server (SSO)	0			Settings	Test settings	Uninstall
External database	0			Settings	Test settings	Uninstall
Email-based self-registration	0			Settings		Uninstall
LDAP server	0			Settings	Test settings	
LTI	0					Uninstall
MNet authentication	0			Settings	Test settings	
No authentication	0			Settings		Uninstall
OAuth 2	0			Settings		Uninstall
Shibboleth	0			Settings	Test settings	Uninstall
Web services authentication	0					

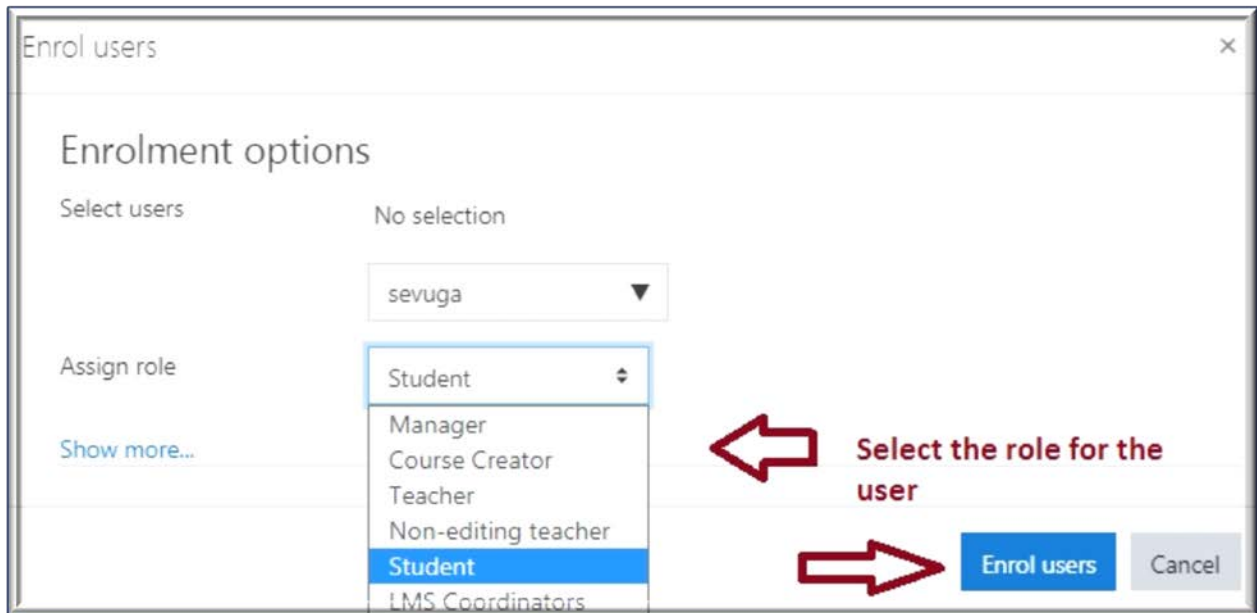
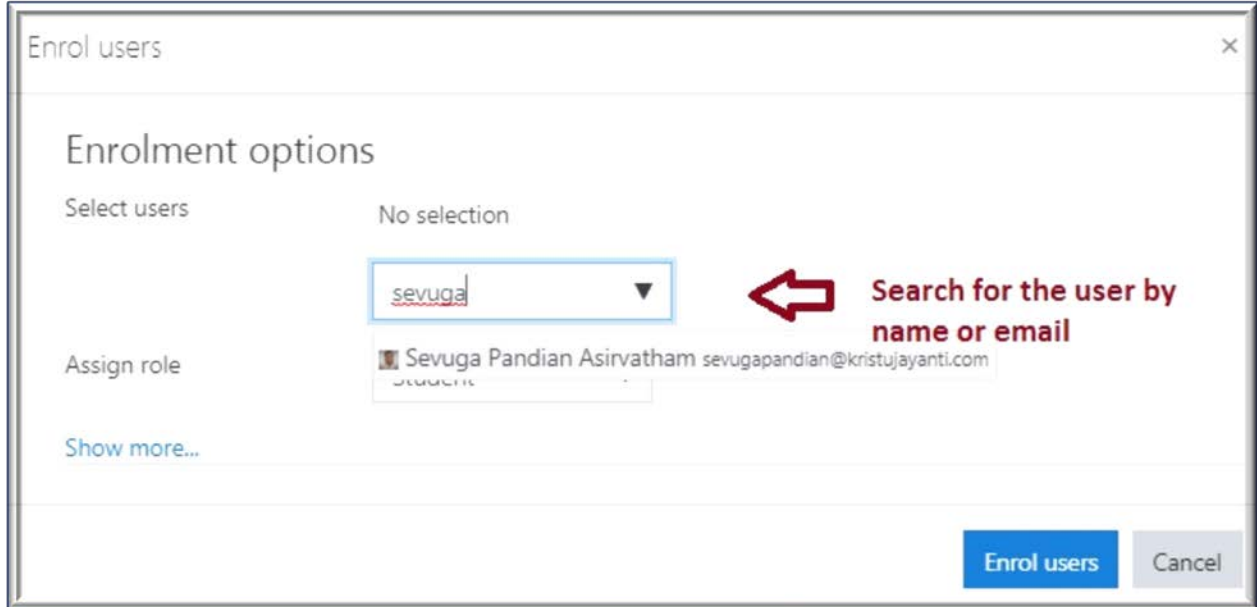
2.1.2.1 Instructors or Teachers and LMS coordinators are given privilege to enroll the students into the course. To enroll the students the authenticated users should navigate to the course page and select the Participants option from the left panel to view the enrolled users.



2.1.2.2 There are two ways to enroll the users in KJLMS. First method is to enroll the users individually and the second method is to enroll the users in bulk.







2.1.2.3 To enroll the users in bulk, the Admin, Teachers or LMs coordinators has to select the giant wheel option to navigate through the bulk enrollment.



2.1.2.4 For the bulk enrollment the admin or the Teachers should prepare a CSV file with comma delimiter. The CSV file should contain the email id of the users those who are getting enrolled.

	A	B	C	D
1	email			
2	bca20cs1a2061@kristujayanti.com			
3	bca20cs1a3120@kristujayanti.com			
4	bca20cs2a5238@kristujayanti.com			
5	bca20cs1a3121@kristujayanti.com			
6	bca20cs1h1014@kristujayanti.com			
7	bca20cs1a1001@kristujayanti.com			
8	bca20cs1a2062@kristujayanti.com			

After uploading or drag and drop the csv file, the Admin or Teachers should select the First Column contains option to select the Email address as the option. Rest of the options can be left as it is. If the Admin or the Teachers wants to change the role then they can select the Role to assign option.

## Bulk enrolments

With this option you are going to enrol a list of known users from a file with one account per line


**The firstline** the empty lines or unknown accounts will be skipped.



The file may contains several columns, separated by a comma, a semi-column or a tabulation.

**The first one must contains a unique account identifier : idnumber (by default) login or email** of the target user.

The second **if present**, contains the group name in wich you want that user be added.

You may repeat this operation at will without damages, for example if you forgot the group for some users.


File location ! Choose a file... 


  
 You can drag and drop files here to add them.


CSV delimiter


Encoding


Role to assign


First column contains 

Create group(s) if needed 

CSV delimiter 

Encoding  

Role to assign  


First column contains   **Select the Email Address from the list**

Create group(s) if needed

Create grouping(s) if needed

Send me a mail report

**Leave the option as it is other than First column contains**

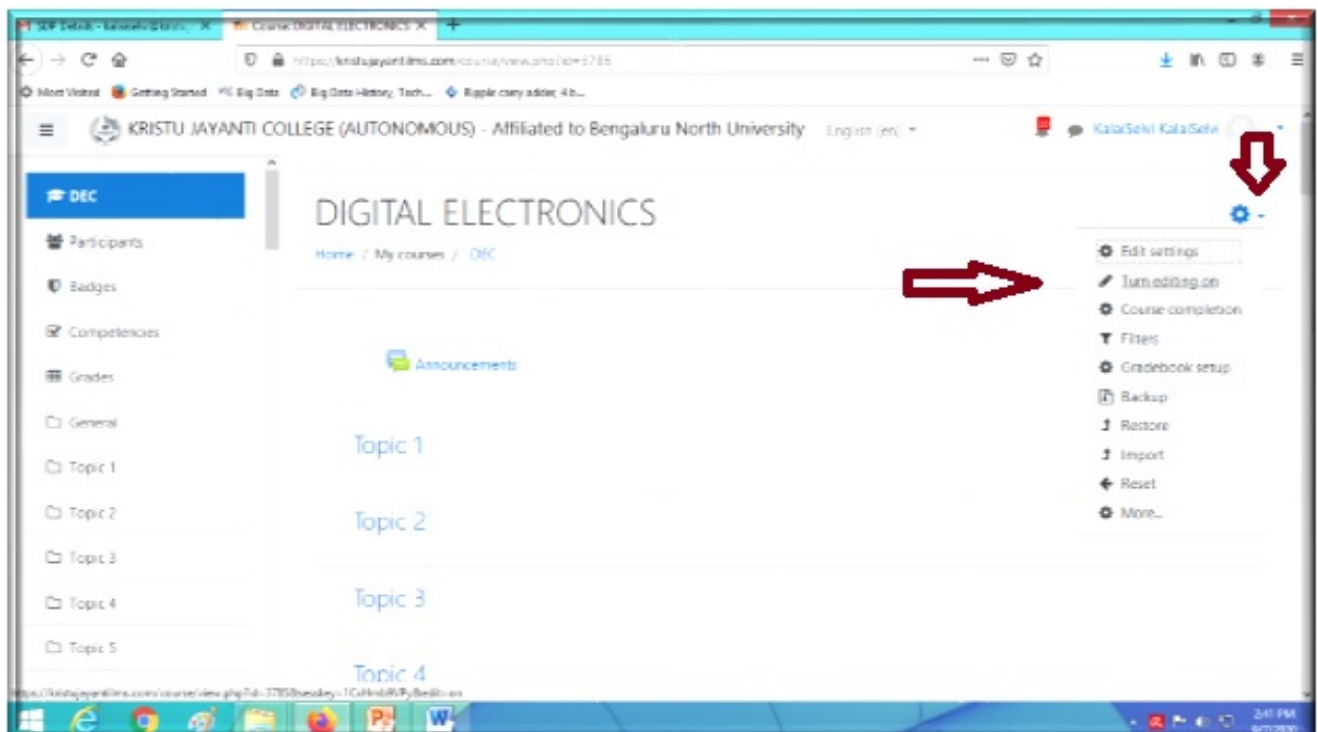
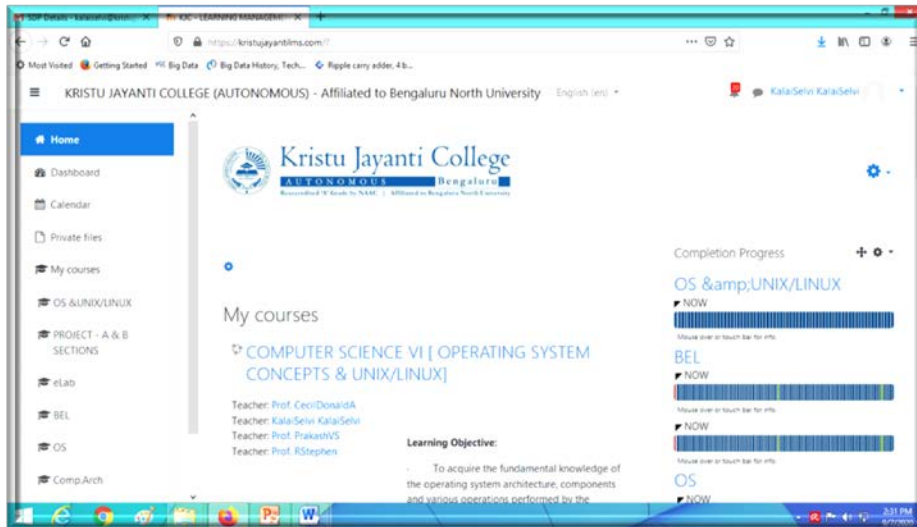


### 2.1.3 Activity Collaboration

In KJLMS activities are the general group of features in the individual courses. Usually an activity is something that a student will do that interacts with other students and or the teacher.

#### 2.1.3.1 Adding a Lesson Activity

To add a lesson activity, the course teacher has to navigate to the respective course page and select the Turn edit on by clicking the Giant wheel on the right top of the course page.



2.1.3.1.1 The teachers has to select the Add activity or Resource option from course editing page.

# BCA204A13 Computing and Programming Fundamentals



Home / Courses / FACULTY OF SCIENCES / Department of Computer Science (UG) / BACHELOR OF COMPUTER APPLICATIONS - BCA / BCA I Semester 2020-2023 / PCCF

+ Announcements

Edit

+ Syllabus

Edit



+ Add an activity or resource

## Completion Progress

▾ NOW



Mouse over or touch bar for info.

Overview of students

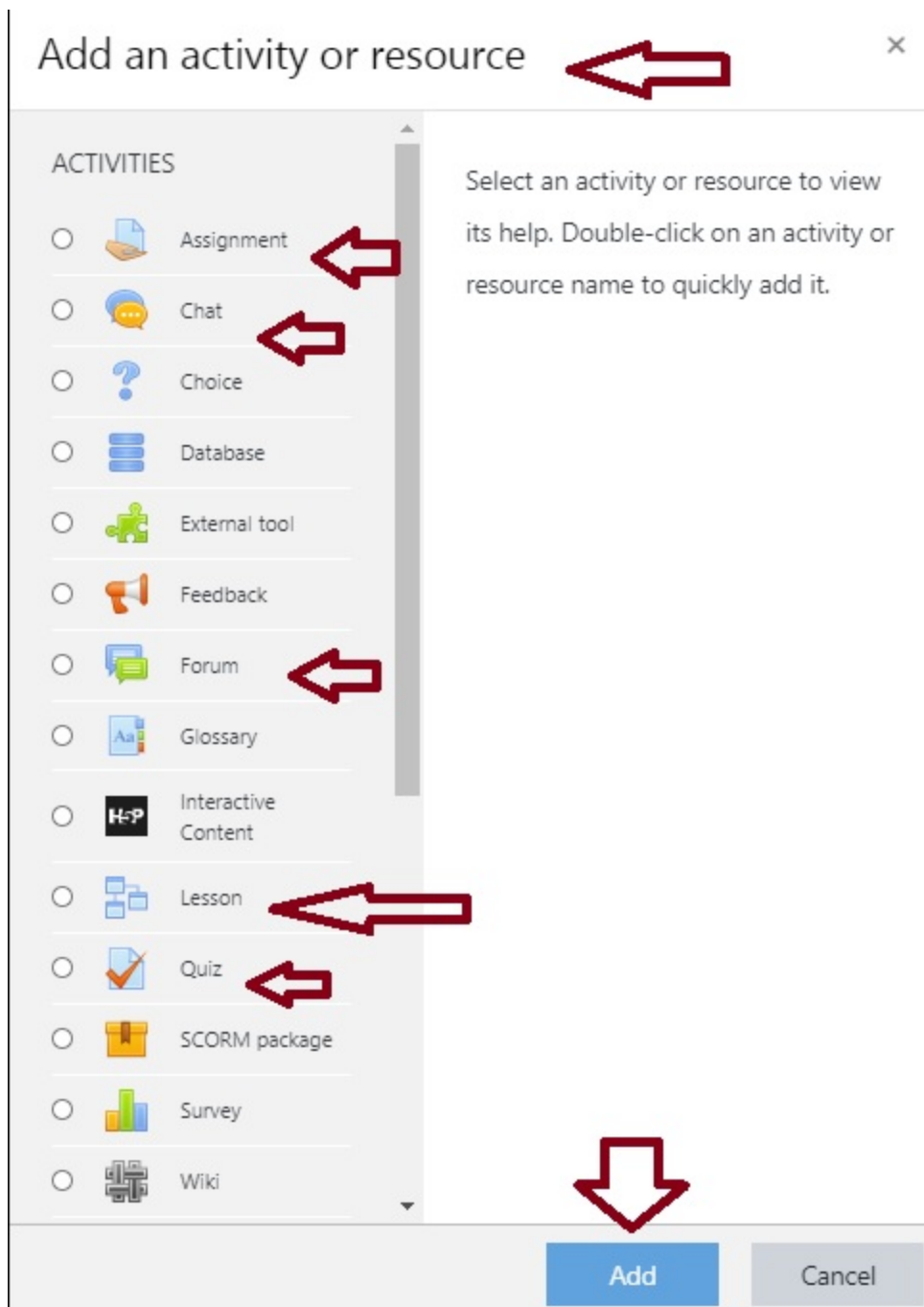
+ Unit 1 Lecture 1

Edit

+ Why to Learn Programming

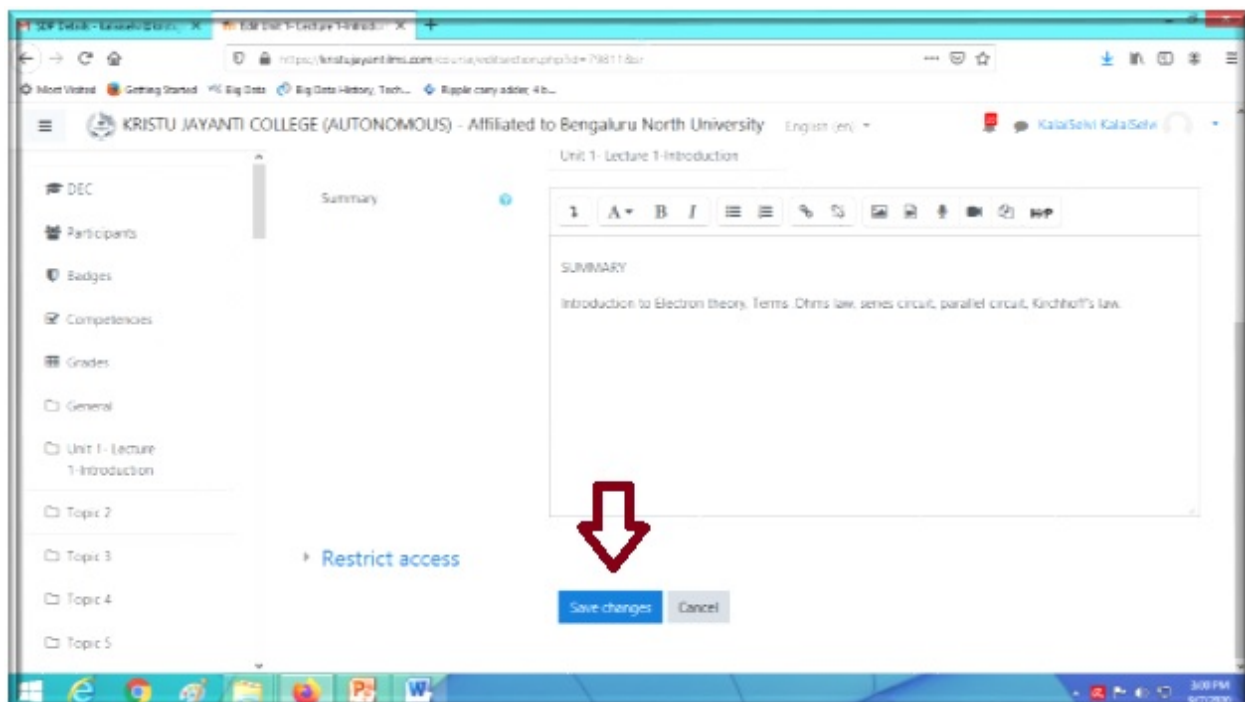
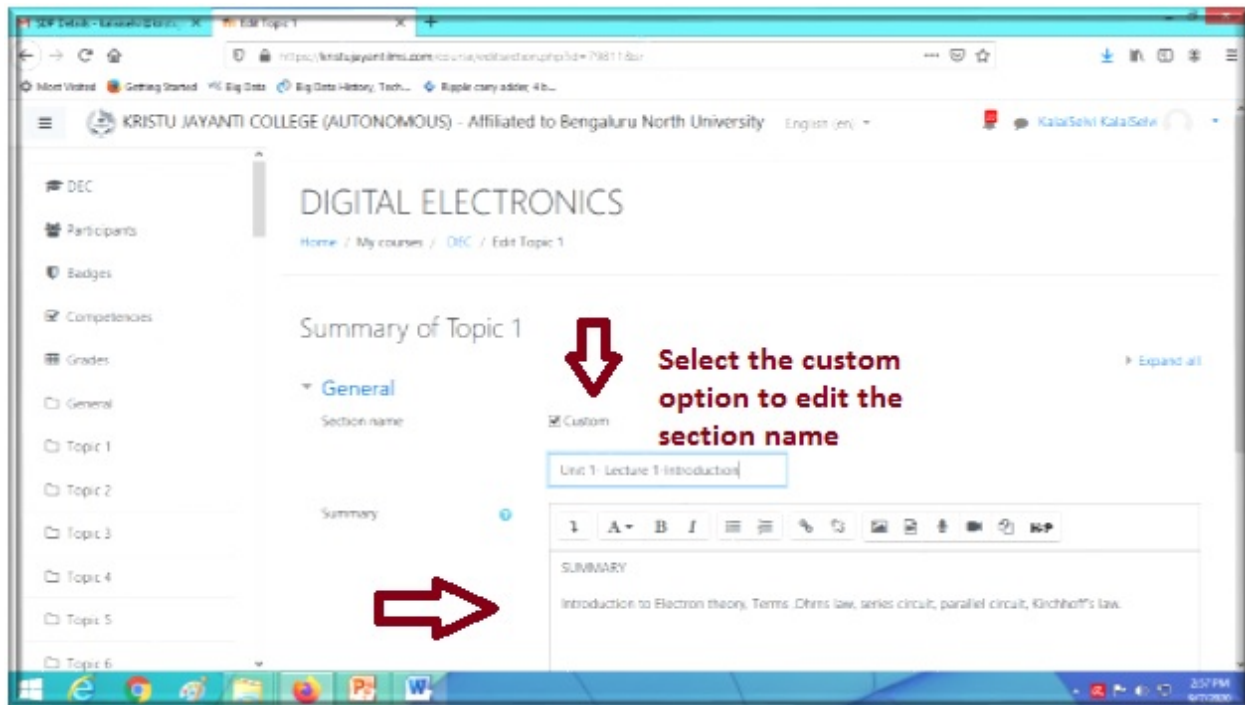
Edit

+ Add an activity or resource



Activity pop-up window will provide options for the activity addition in the respective courses. To add a lesson activity the course teacher has to select the Lesson Activity radio button and then click ADD button.

2.1.3.1.2 Enable the **Custom** option. Give a Lesson name. Provide information related to Lesson in the content box provided and Click **Save Change** button to save the changes made.



2.1.3.1.3 Give appropriate **lesson title** (Mandatory) and a brief introduction (Optional) and **Enable Display description** on the course page.

SDP Details - kalaSelvi@kristu... X Editing Lesson X Options X +

https://kristujayantlms.com/course/modedit.php?add=lesson&type=&course=3785&section=1&return=0&sr=0

KRISTU JAYANTI COLLEGE (AUTONOMOUS) - Affiliated to Bengaluru North University English (en) KalaSelvi KalaSelvi

Home / My courses / UoL / Unit 1- Lecture 1-Introduction / Adding a new Lesson to Unit 1- Lecture 1-Introduction

### Adding a new Lesson to Unit 1- Lecture 1-Introduction

Expand all

**General**

Name Introduction to Ohms Law

Description

Welcome to the first lesson on digital laws. Today's Lecture we will discuss on ohms law and its applications

Display description on course page

**Appearance**

Progress bar No

Display menu No

Show more...

**Availability**

Available from 13 January 2021 18 35  Enable

Deadline 13 January 2021 18 35  Enable

Time limit 0 minutes  Enable

Show more...

**Flow control**

Allow student review No

Provide option to try a question again No

Maximum number of attempts 1



Availability

ID number

Group mode

[Add group/grouping access restriction](#)

---

**Restrict access**

Access restrictions

[Add restriction...](#)

---

**Activity completion**

Completion options locked This activity has already been marked as completed for 136 participant(s). Changing completion options will erase their completion state and may cause confusion. Thus the options have been locked and should not be unlocked unless absolutely necessary.

[Unlock completion options](#)

Completion tracking  Students can manually mark the activity as completed

Expect completed on       Enable

Activate Windows  
Go to Settings to activate Windows

SDP Details - kalaSelvi@kristu... x Editing Lesson x +

https://kristujayantiims.com/course/modedit.php?add=lesson&type=&course=3785&section=1&return=0&sr=0

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- DEC
- Participants
- Badges
- Competencies
- Grades
- General
- Unit 1 - Lecture 1-Introduction**
- Topic 2
- Topic 3
- Topic 4
- Topic 5

- Appearance
- Availability
- Flow control
- Grade
- Common module settings
- Restrict access
- Activity completion
- Tags
- Competencies

Final step is to click the save and return to course

[Save and return to course](#) [Save and display](#) [Cancel](#)


There are required fields in this form marked .



2.1.3.1.4 Teachers can add the content into the lesson activity by selecting the respective lesson name in the course page

UNIT 1: LECTURE 1 :Introduction to Electron theory,Ohm's and Kirchhoff's Law

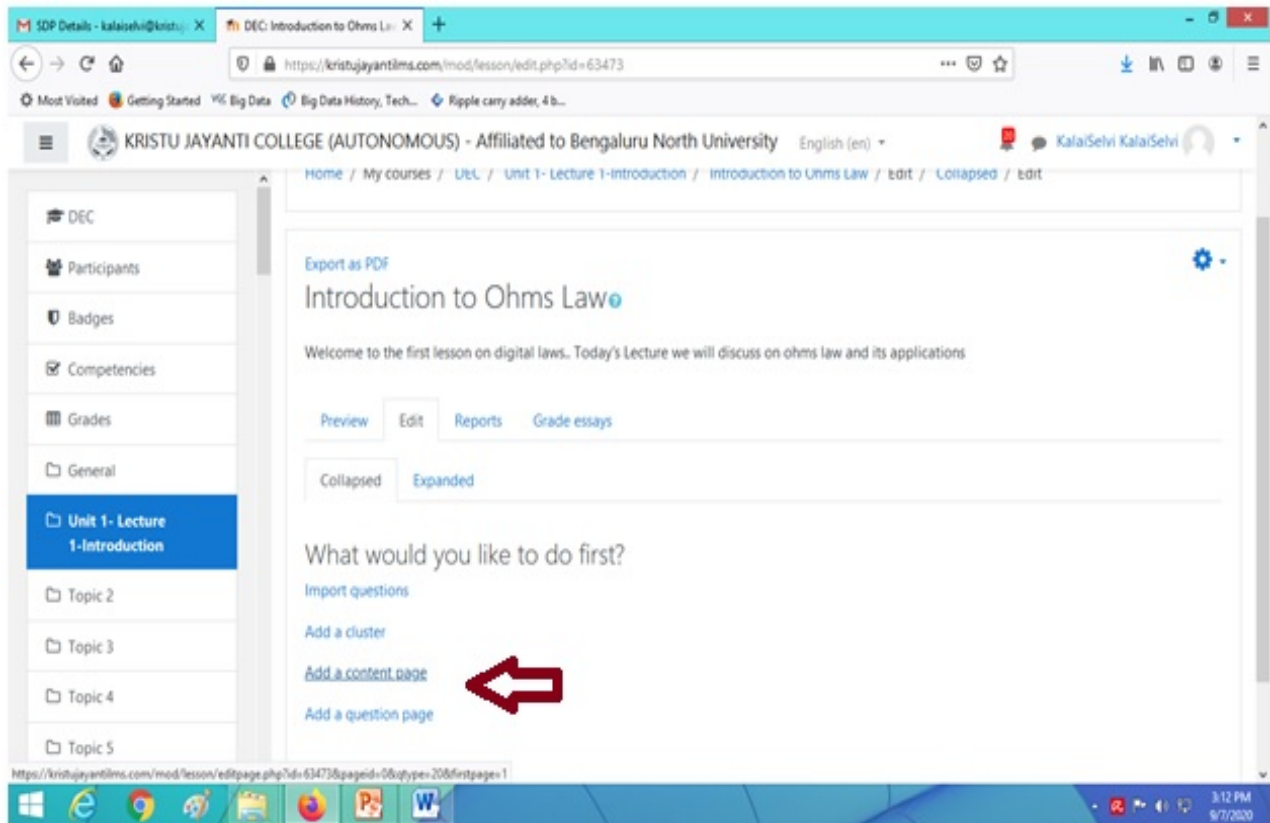
SUMMARY

Introduction to Electron theory, Terms ,Ohms law, series circuit, parallel circuit, Kirchhoff's law.



 [Electron theory,Ohm's and Kirchhoff's Law](#) 

Discussion on Basic electron theory proposed by Neil Bohr and Rutherford . .  
Statement and Explanation on ohms and Kirchhoff law  
Practical questions to find current , voltage and resistance.



SDP Details - kalaisevi@kristu... X DEC: Introduction to Ohms Law X +

https://kristujayantilms.com/mod/lesson/edit.php?id=63473

KRISTU JAYANTI COLLEGE (AUTONOMOUS) - Affiliated to Bengaluru North University English (en) KalaSelvi KalaSelvi

Home / My courses / UEL / Unit 1- Lecture 1-Introduction / Introduction to Ohms Law / edit / Collapsed / edit

DEC

Participants

Badges

Competencies

Grades

General

**Unit 1- Lecture 1-Introduction**

Topic 2

Topic 3

Topic 4

Topic 5

Export as PDF


## Introduction to Ohms Law

Welcome to the first lesson on digital laws. Today's Lecture we will discuss on ohms law and its applications

Preview Edit Reports Grade essays

Collapsed Expanded

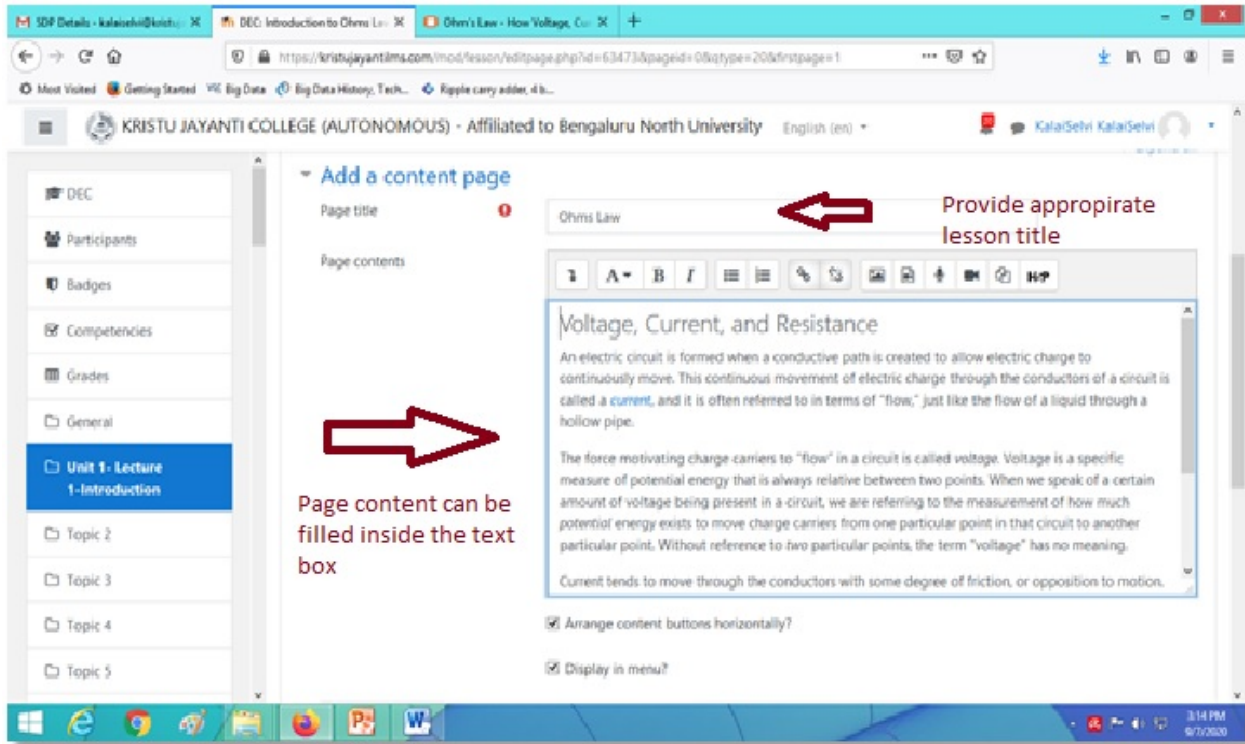
What would you like to do first?

- [Import questions](#)
- [Add a cluster](#)
- [Add a content page](#) 
- [Add a question page](#)

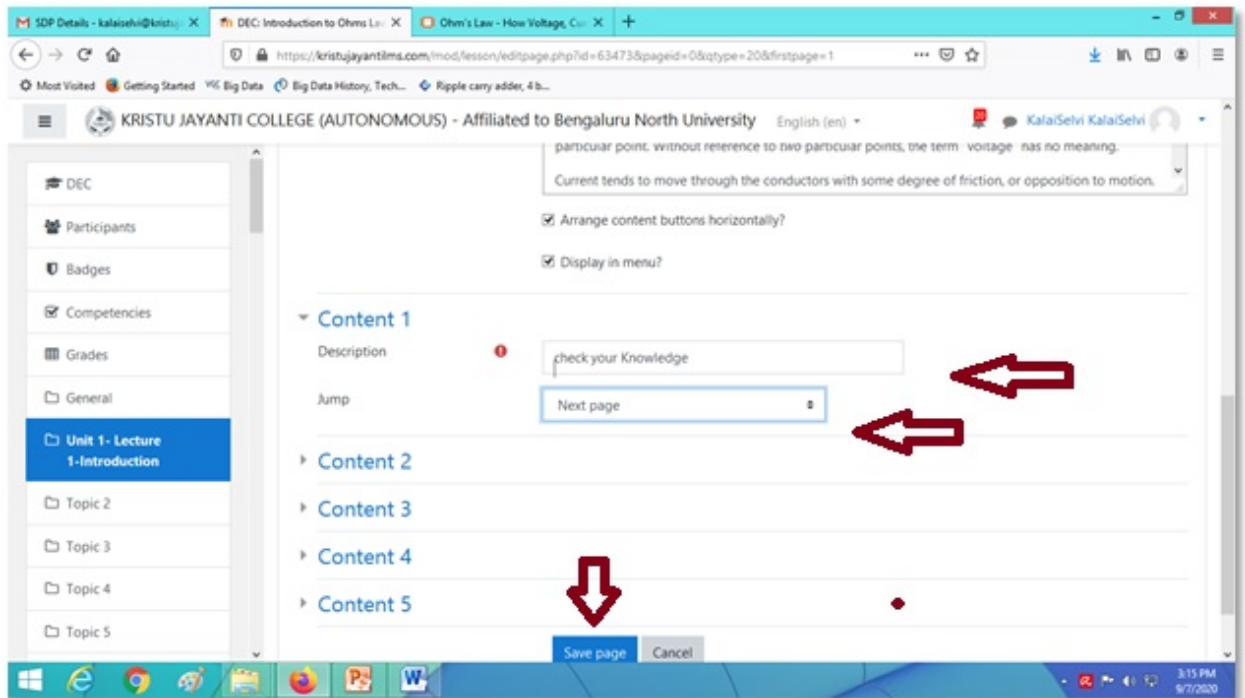
https://kristujayantilms.com/mod/lesson/editpage.php?id=63473&pageid=58&type=20&firstpage=1

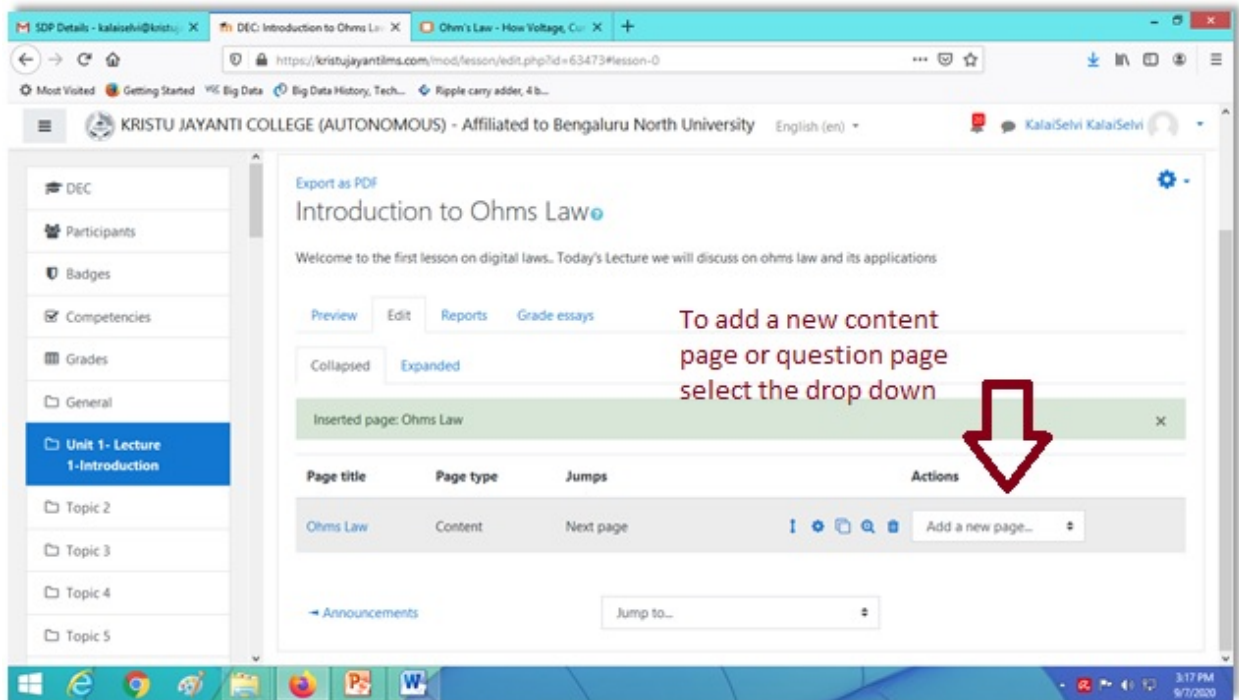
3:12 PM 9/7/2020

2.1.3.1.5 Teachers can enter the **page Title and Fill the Page content** (either type the content / copy paste the content from the prepared lecture content /insert the image/ insert audio, video)

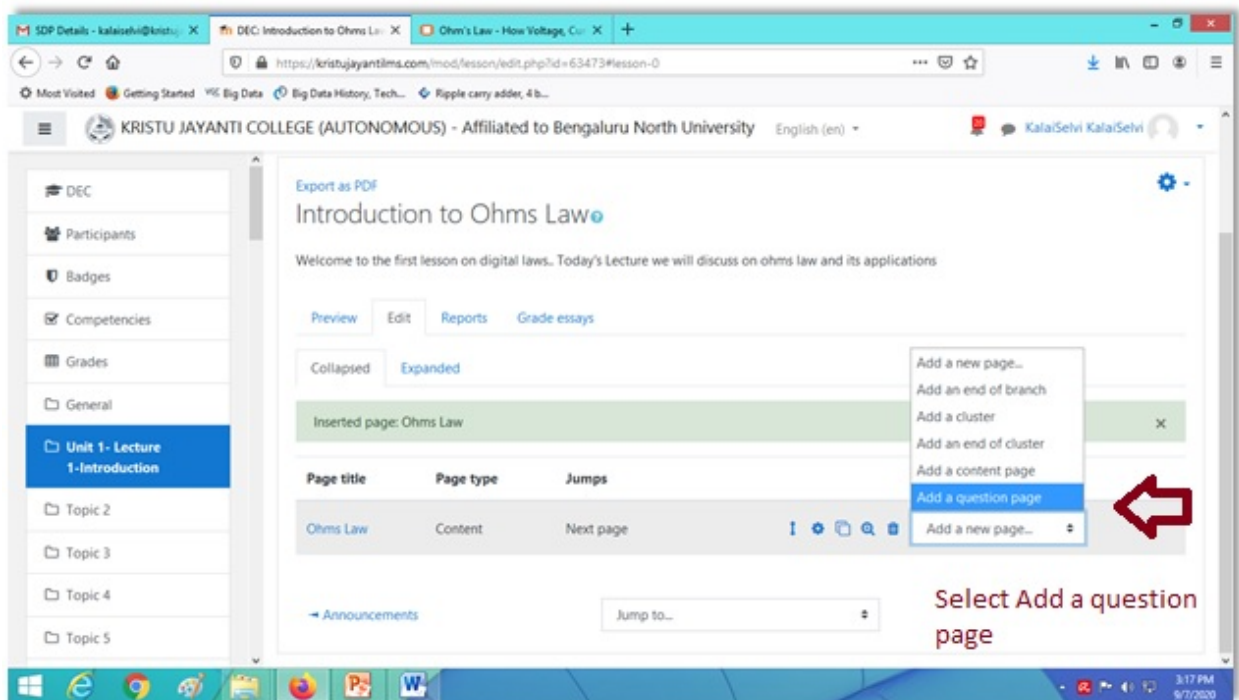


Teachers can add the **Check the knowledge question** in content page, set the questions to be displayed in the Next Page and then click save pages.





2.1.3.1.6 To add Questions to the content page, teachers can select the Add a Question Page option under **Actions** menu.



SDP Details - kalaSelvi@kristu... X DEC Introduction to Ohms Law X Ohm's Law - How Voltage, C... X +

https://kristujayantilms.com/mod/lesson/editpage.php?id=63473&pageid=65843&sesskey=1CxHmb9VpYd&qtyp=...

KRISTU JAYANTI COLLEGE (AUTONOMOUS) - Affiliated to Bengaluru North University English (en) KalaSelvi KalaSelvi

# DIGITAL ELECTRONICS

Home / My courses / DEC / Unit 1- Lecture 1-Introduction / Introduction to Ohms Law / Add a new page / Select a question type

Export as PDF

## Introduction to Ohms Law

Welcome to the first lesson on digital laws. Today's Lecture we will discuss on ohms law and its applications

Select a question type

Multichoice

Add a question page Cancel

Select the question type

SDP Details - kalaSelvi@kristu... X DEC Introduction to Ohms Law X Ohm's Law - How Voltage, C... X +

https://kristujayantilms.com/mod/lesson/editpage.php?id=63473&pageid=65843&sesskey=1CxHmb9VpYd&qtyp=...

KRISTU JAYANTI COLLEGE (AUTONOMOUS) - Affiliated to Bengaluru North University English (en) KalaSelvi KalaSelvi

# DIGITAL ELECTRONICS

Home / My courses / DEC / Unit 1- Lecture 1-Introduction / Introduction to Ohms Law / Add a new page / Select a question type

Export as PDF

## Introduction to Ohms Law

Welcome to the first lesson on digital laws. Today's Lecture we will discuss on ohms law and its applications

Select a question type

Multichoice

Essay

Matching

Multichoice

Numerical

Short answer

True/false

Add a question page Cancel

2.1.3.1.7 Teacher has to enter the page Title and page content (question number and question) and give the appropriate choices in the Answer template. For the option with correct answer, Choose **Jump to Next page**, Score as 1. For all other option Choose **Jump to course page** (choose name of the lesson), Score as 0. Selected option will get saved when the teacher clicks the save page button.

The screenshot shows a web interface for creating a multichoice question page. The page title is "Introduction to Ohms Law" and the content is "Welcome to the first lesson on digital laws. Today's Lecture we will discuss on ohms law and its applications". The interface has a sidebar with "Page title" and "Page contents" fields, both with red arrows pointing to the main content area. The main content area has a "Page title" field with the value "1" and a "Page contents" field with the text "Ohms law states". Below the "Page contents" field is a text box with the placeholder "Type the question text in this Text Box". A rich text editor toolbar is visible above the text box.

The screenshot shows the "Answer 1" interface. It has four main sections: "Answer", "Response", "Jump", and "Score". The "Answer" field contains the text "I=V/R". The "Response" field is empty. The "Jump" field has a dropdown menu with the selected option "Next page". The "Score" field has a text input with the value "1". Each field has a red arrow icon next to it. A rich text editor toolbar is visible above the "Answer" and "Response" fields.

**Answer 2**

Answer !

$I = \frac{V}{R}$

Response

↓ Selecting the same lesson content page title will allow the students to stay in the same lesson page

Jump ? Ohms Law

Score ? 0

### 2.1.3.2 Adding a Forum Activity

To exchange the ideas between students and teachers by posting comments on a specific thread, the forum activity is used. Files such as images and media can be included in forum posts.

2.1.3.2.1 Teachers can add the forum activity by navigating to the respective course page and click the Add an activity and resource option.

**Unit 1- Lecture 1-Introduction**

SUMMARY

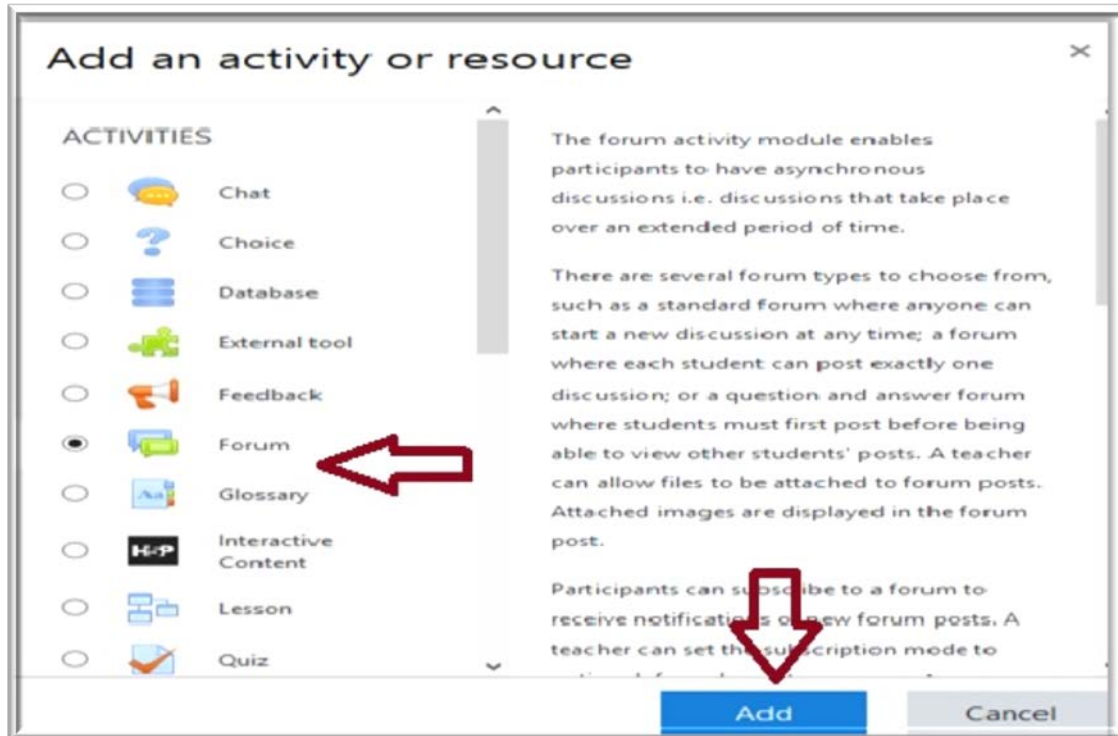
Introduction to Electron theory, Terms ,Ohms law, series -circuit, parallel circuit, Kirchhoff's law.

**Introduction to Ohms Law** Edit - + ✓

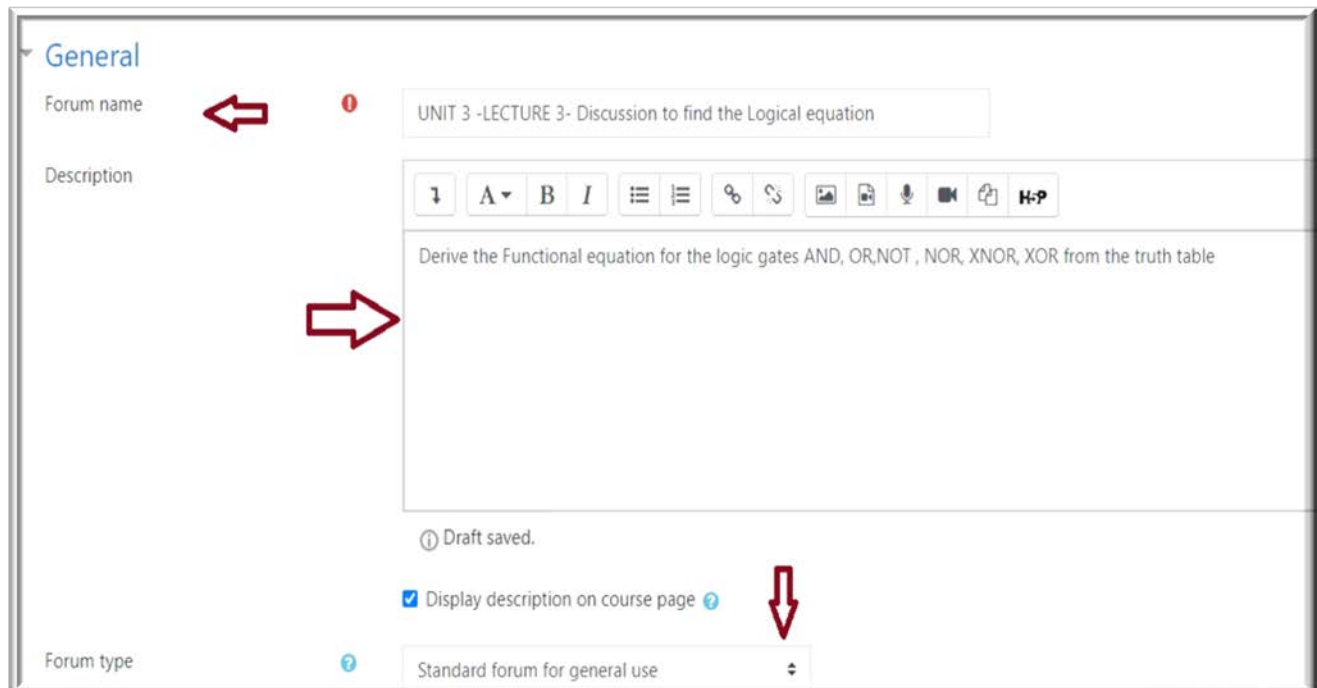
Welcome to the first lesson on digital laws. Today's Lecture we will discuss on ohms law and its applications

→ [+ Add an activity or resource](#)

Teachers can select the forum option and click the Add button to add the forum activity into the course page.



2.1.3.2.2 Teacher has to give the forum name and description. Enable the option **Display description on course page**, and select the **Forum Type**





2.1.3.2.3 Set the availability of the forum by enabling the due date and Cut-off date.

**Availability**

Due date 8 September 2020 10:11  Enable

Cut-off date 8 September 2020 11:11  Enable

**Attachments and word count**

Maximum attachment size Uploads are not allowed

Maximum number of attachments 0

Display word count No

Go to **Activity Completion**, enable it, set the completion date and time as same as the Cut-off date and save the selected option.

**Activity completion**

Completion tracking Students can manually mark the activity as completed

Expect completed on 8 September 2020 11:11  Enable

Save and return to course Save and display Cancel

There are required fields in this form marked **!** .

Click on to **the forum in the course page** and view the Forum content, click on to the **reply**, and continue with the discussion

**Forum 1**  
Tuesday, 8 September 2020, 10:35 AM

This forum enables the course teacher and the student to discuss on a given topic.

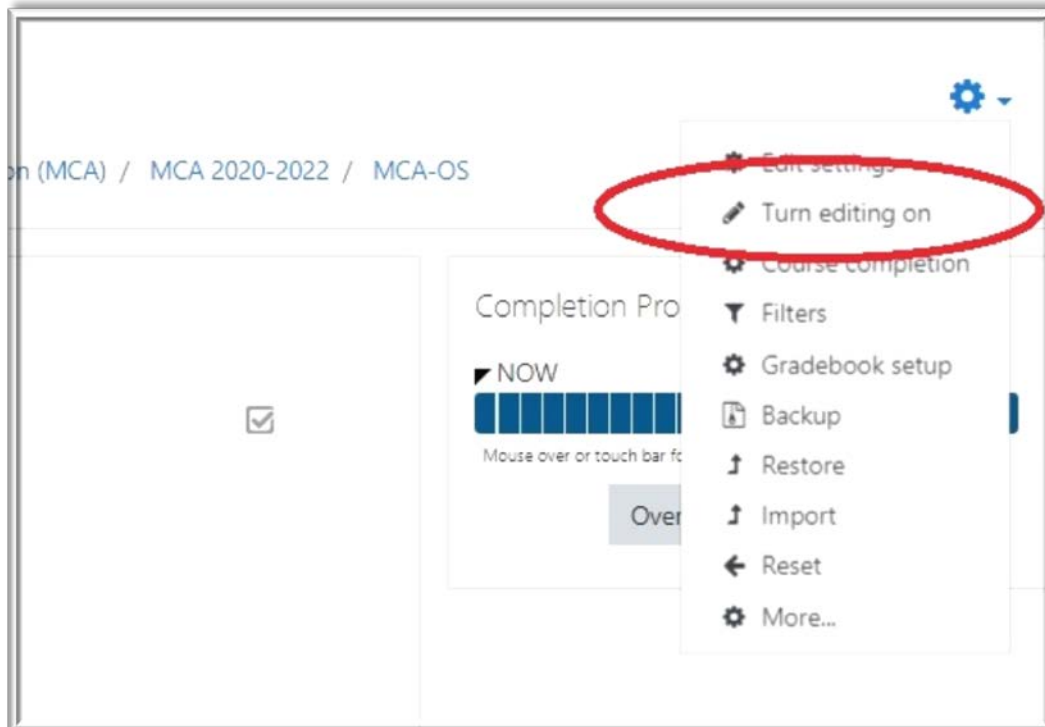
This forum can be used by the students to upload the assignments, Lab Programs/ Experiments by providing the URL of their google drive.

Permalink Edit **Reply**

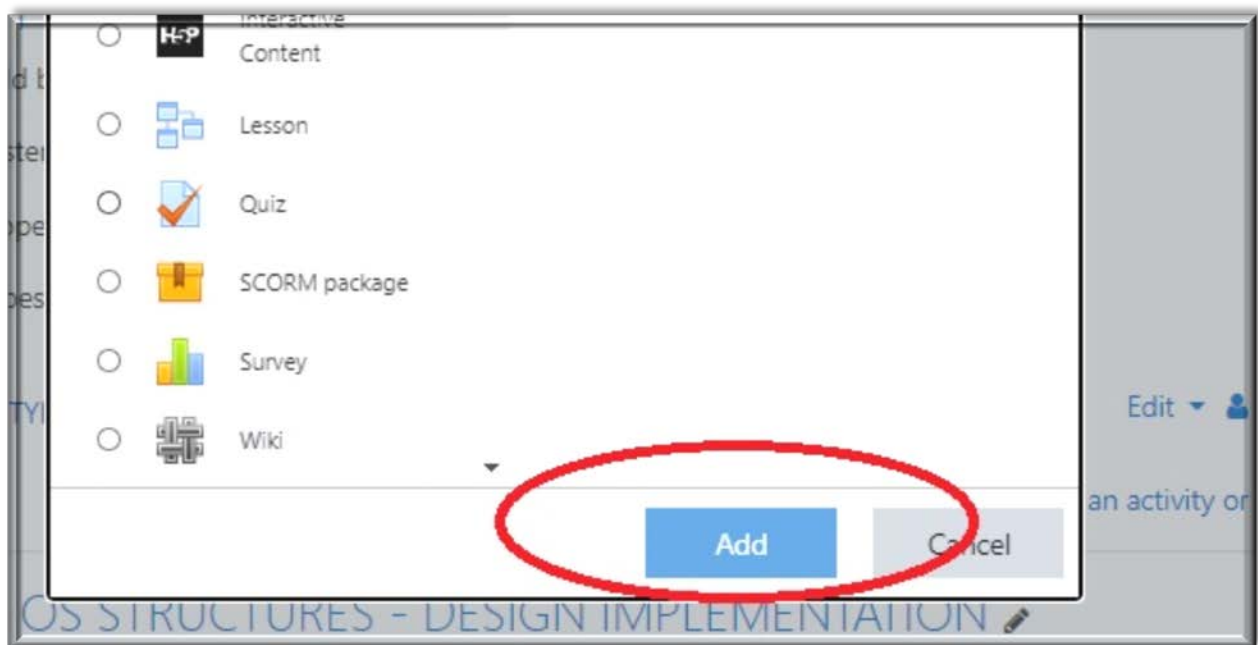
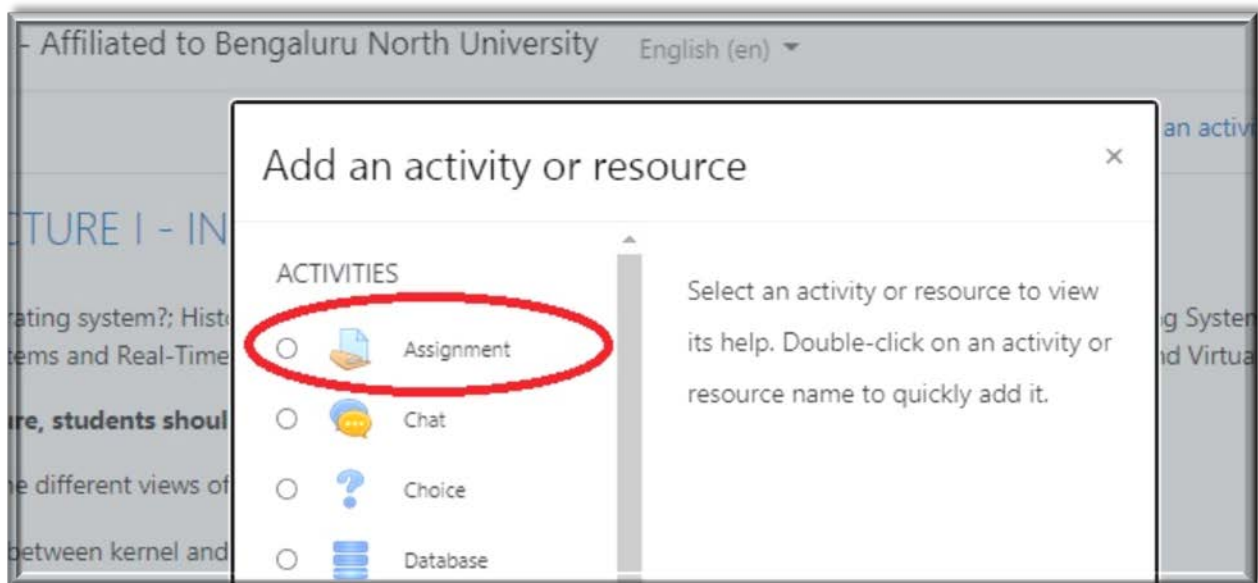
### 2.1.3.3 Adding an Assignment Activity

The assignment activity allows the students to submit their work may be in the typed text online or uploaded files assigned by the course teachers.

2.1.3.3.1 Teachers can initiate the activity by navigating through the course page and click the Giant wheel to select the Turn editing on option and select “Add an Activity or Resources:



2.1.3.3.2 Teachers has to select the assignment activity from the activity list pop-up and then click the Add button.



2.1.3.3.3 Teachers can fill in the details- **Name of the assignment, description** about the assignment and add the **assignment questions** in a file and we can upload. The other details like Availability of assignments, file submission type, feedback details and Grading will be filled by the course Teacher.

The 'General' panel contains the following fields and options:

- Assignment name:** A text input field with a red information icon to its right.
- Description:** A rich text editor with a toolbar containing icons for undo, bold (A), italic (I), bulleted list, numbered list, link, unlink, and image.
- Display description on course page:** A checkbox that is currently unchecked, with a help icon to its right.
- Additional files:** A section with a blue help icon, a file upload icon, and a folder icon labeled 'Files'.

The 'Availability' panel includes the following settings:

- Allow submissions from:** 9 September 2020 00:00.  Enable
- Due date:** 16 September 2020 00:00.  Enable
- Cut-off date:** 9 September 2020 13:01.  Enable
- Remind me to grade by:** 23 September 2020 00:00.  Enable
- Always show description

The 'Submission types' panel includes the following settings:

- Submission types:**  Online text  File submissions
- Maximum number of uploaded files:** 20
- Maximum submission size:** Course upload limit (2MB)
- Accepted file types:** [Empty input field]  No selection

### 2.1.3.3.4 Select the offline grading option and submission type settings to Yes and Never for Attempts reopened

The screenshot shows two sections of a Moodle form. The first section, 'Feedback types', contains four checkboxes: 'Feedback comments' (unchecked), 'Annotate PDF' (unchecked), 'Offline grading worksheet' (checked), and 'Feedback files' (unchecked). The second section, 'Submission settings', contains three dropdown menus: 'Require students to click the submit button' (set to 'Yes'), 'Require that students accept the submission statement' (set to 'Yes'), and 'Attempts reopened' (set to 'Never').

The screenshot shows the 'Grade' section of a Moodle form. It includes a 'Grade' field with a help icon, a 'Type' dropdown menu set to 'Point', and a 'Maximum grade' text input field containing '100'. Below these are several other settings, each with a help icon and a dropdown menu: 'Grading method' (set to 'Simple direct grading'), 'Grade category' (set to 'Uncategorised'), 'Grade to pass' (empty text input), 'Blind marking' (set to 'No'), 'Hide grader identity from students' (set to 'No'), and 'Use marking workflow' (set to 'No').

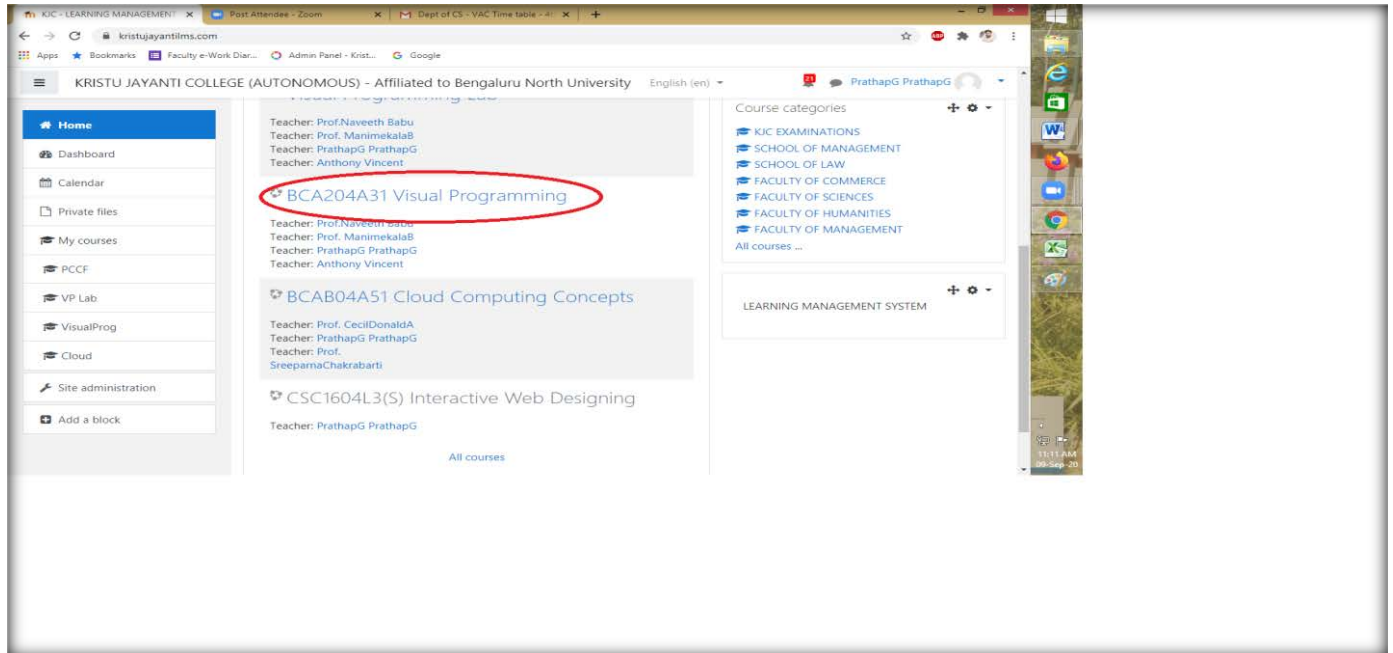
### 2.1.3.3.5 Finally click save and return to the course button.

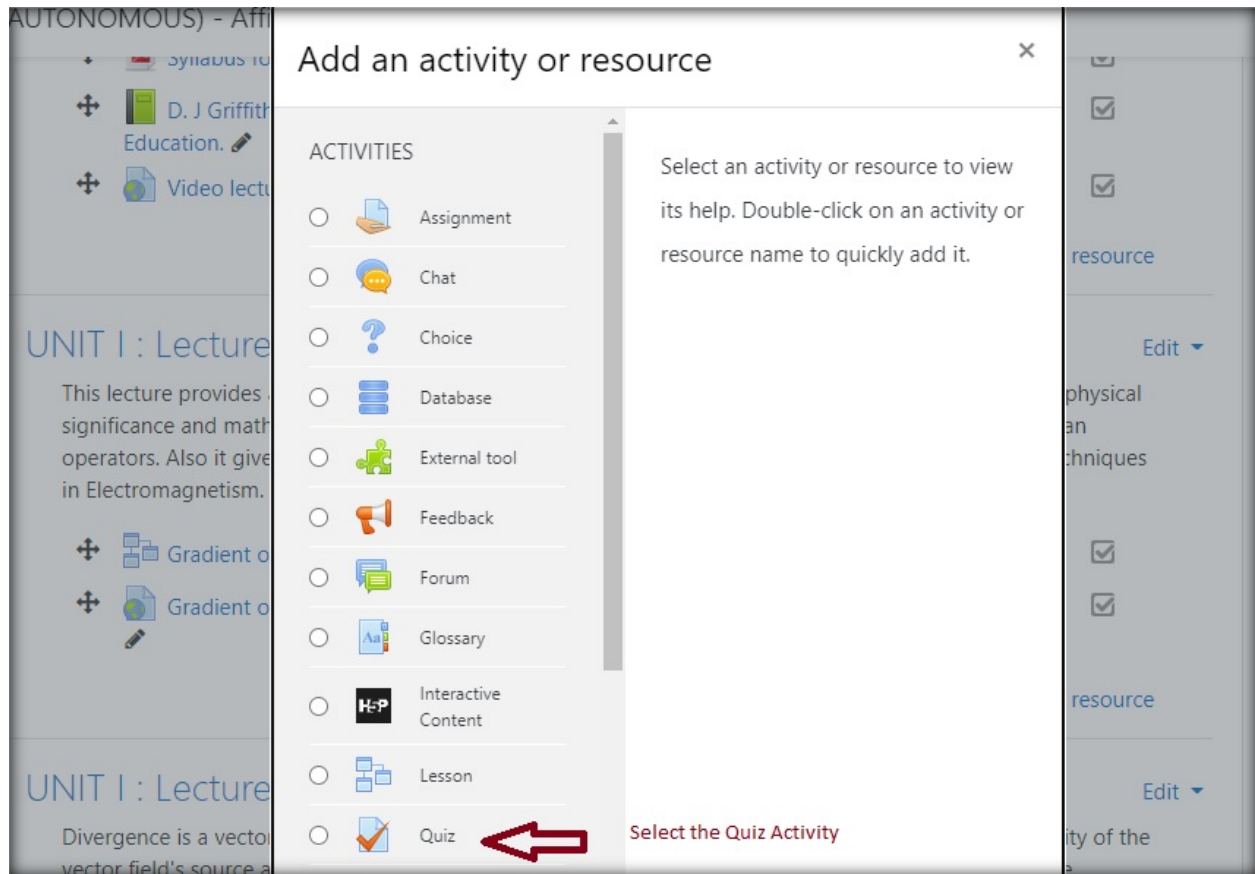
The screenshot shows the bottom of a Moodle form. On the left, there is a list of expandable sections: 'Common module settings', 'Restrict access', 'Activity completion', 'Tags', and 'Competencies'. At the bottom right, there are three buttons: 'Save and return to course' (highlighted with a red oval), 'Save and display', and 'Cancel'. A small red error message at the bottom left reads 'There are required fields in this form marked'.

### 2.1.3.4 Adding a Quiz Activity

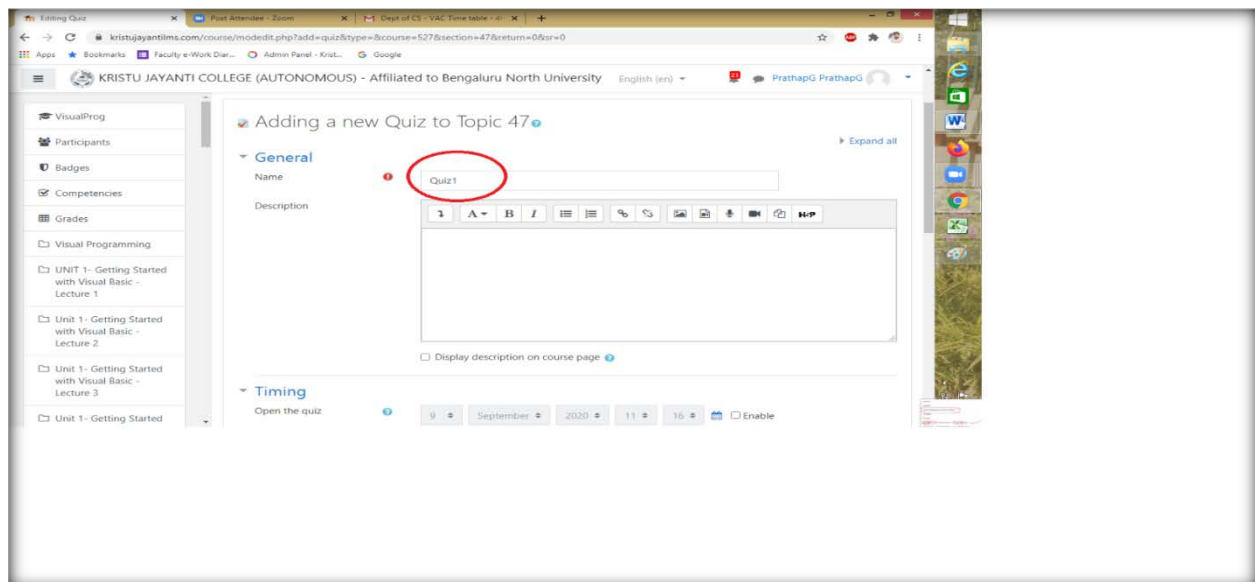
The Quiz activity allows the teacher to design and set quiz tests, which may be automatically marked and feedback and/or to correct answers shown. It is a very powerful activity that can meet many teaching needs, from simple, multiple-choice knowledge tests to complex, self-assessment tasks with detailed feedback.

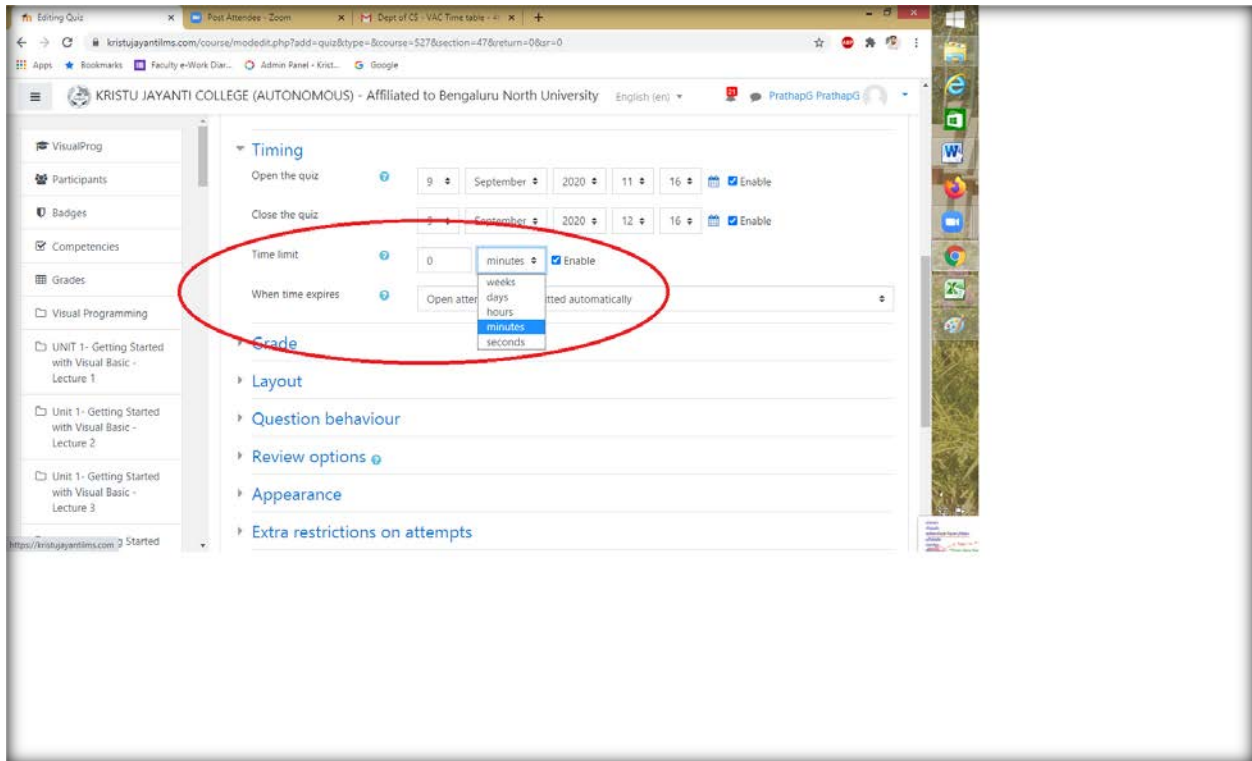
2.1.3.4.1 Teachers will navigate to the particular course content page where he can create the Quiz Activity by selecting the Quiz option from the Activity and Resource pop-up list



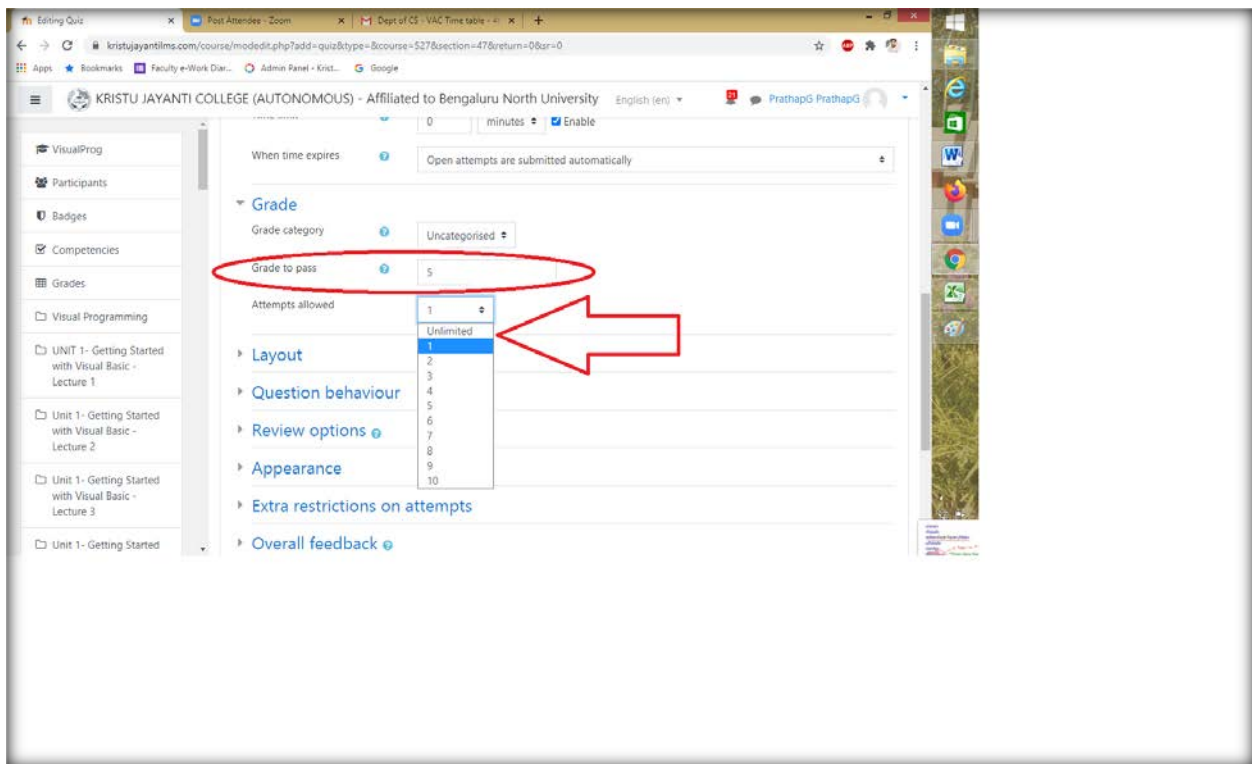


2.1.3.4.2 Teachers can fill the details related to the Quiz activity in the respective text boxes. Go to the Timing, to enable the check box in open and close quiz timing options & set the time

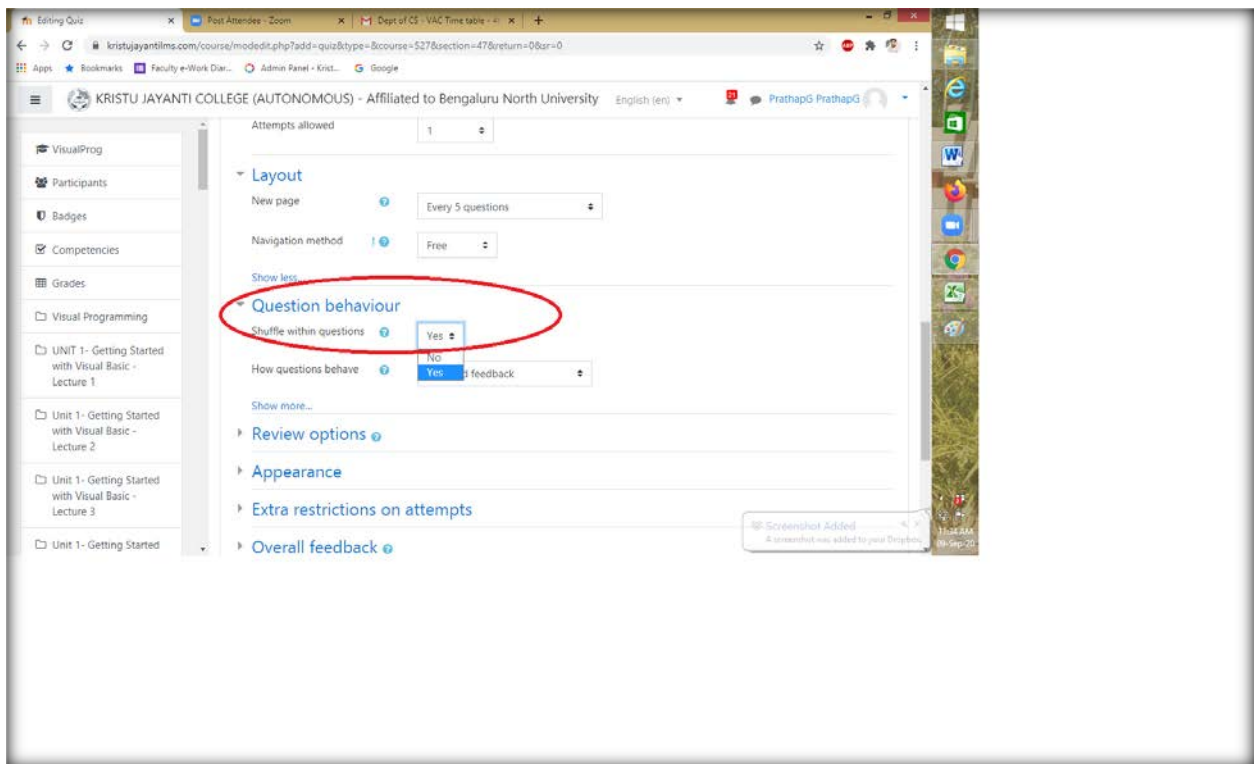
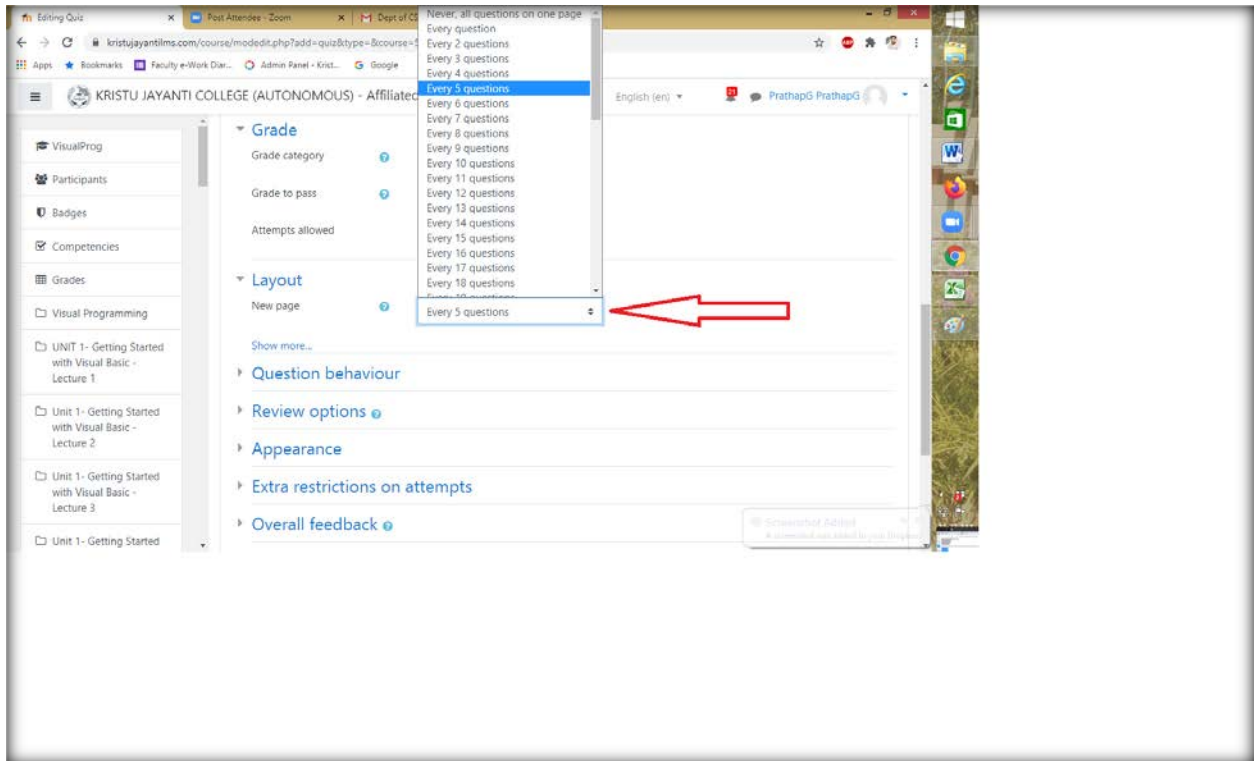




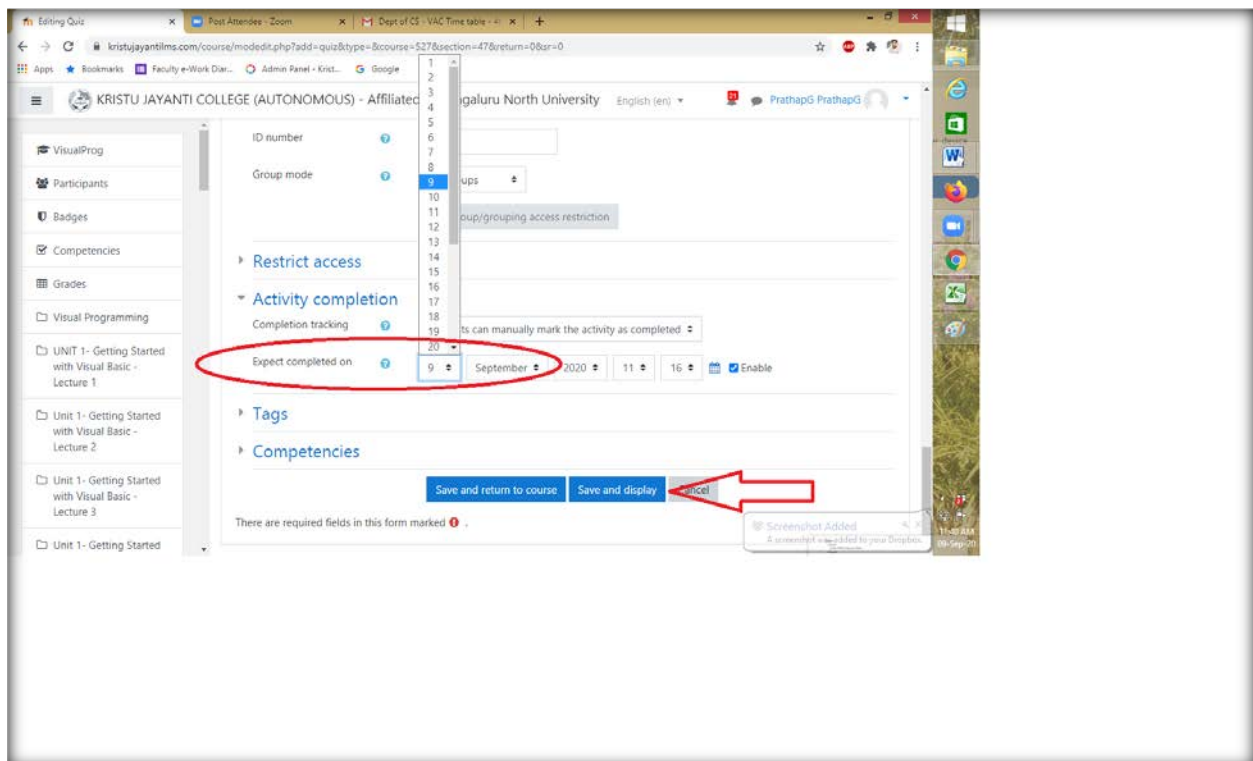
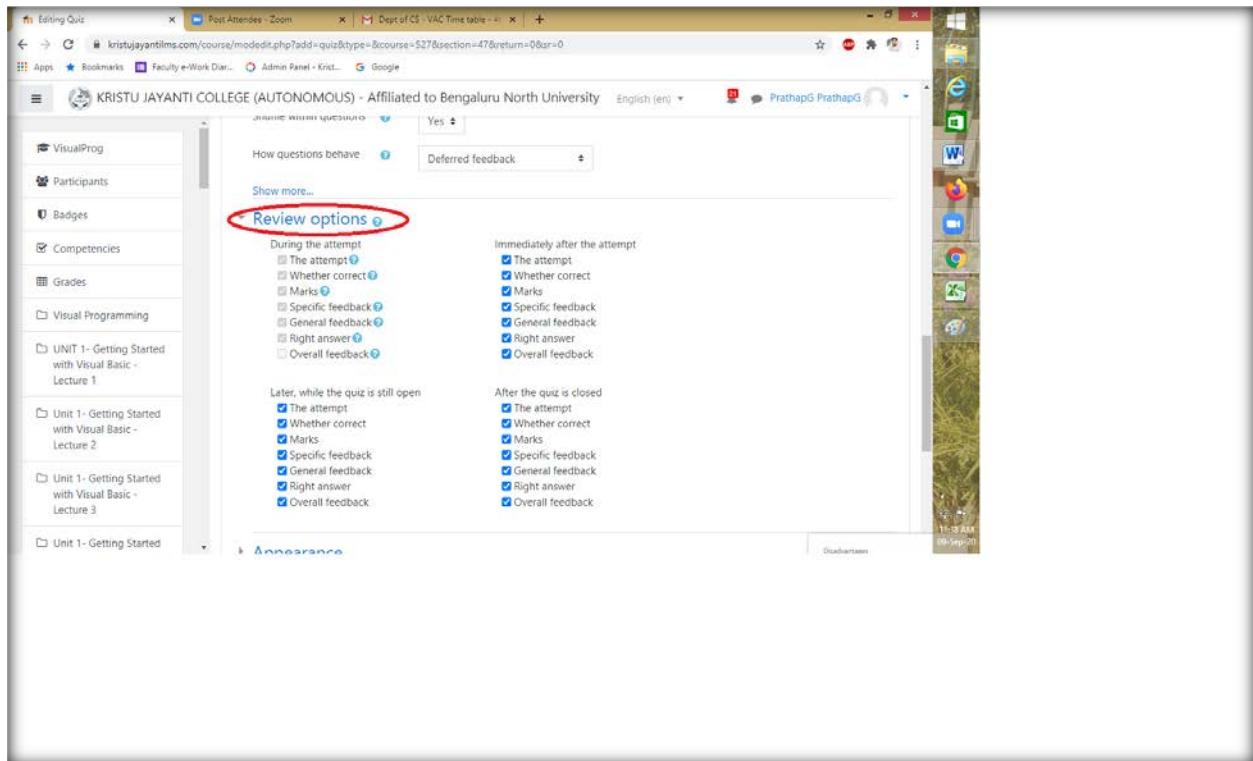
2.1.3.4.3 Teachers can fill in the following details as it is depicted in the subsequent images.



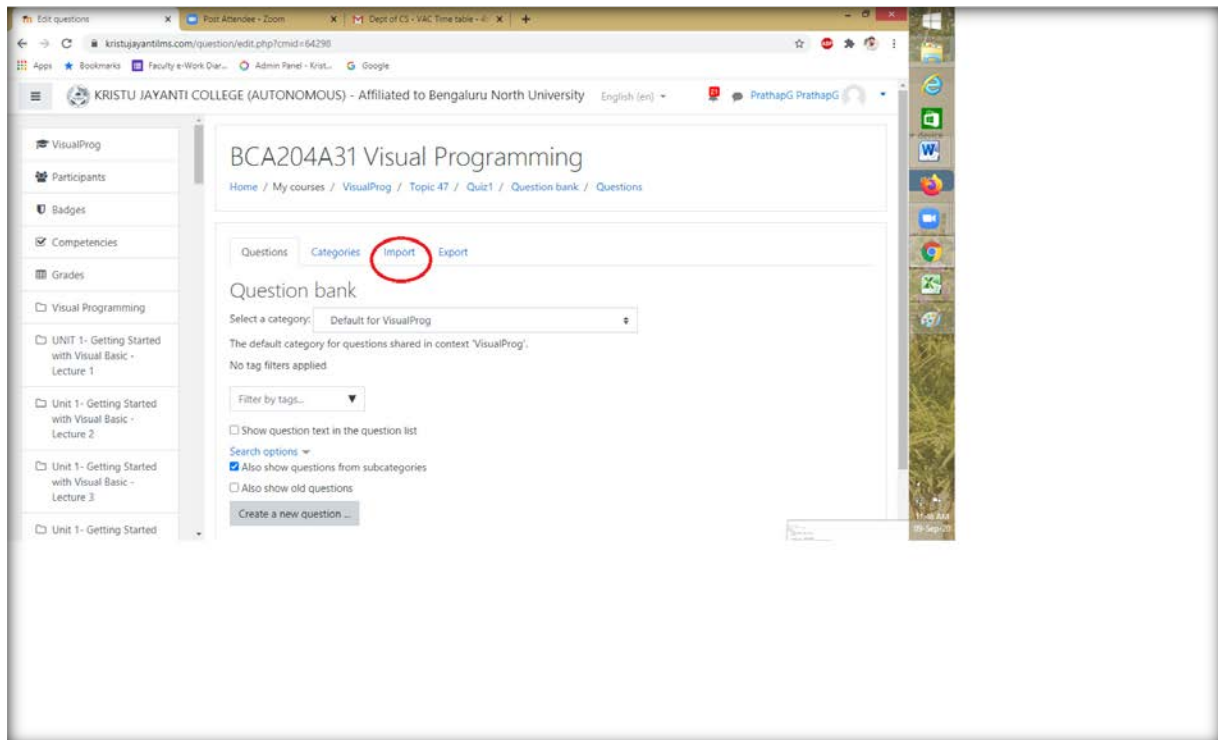
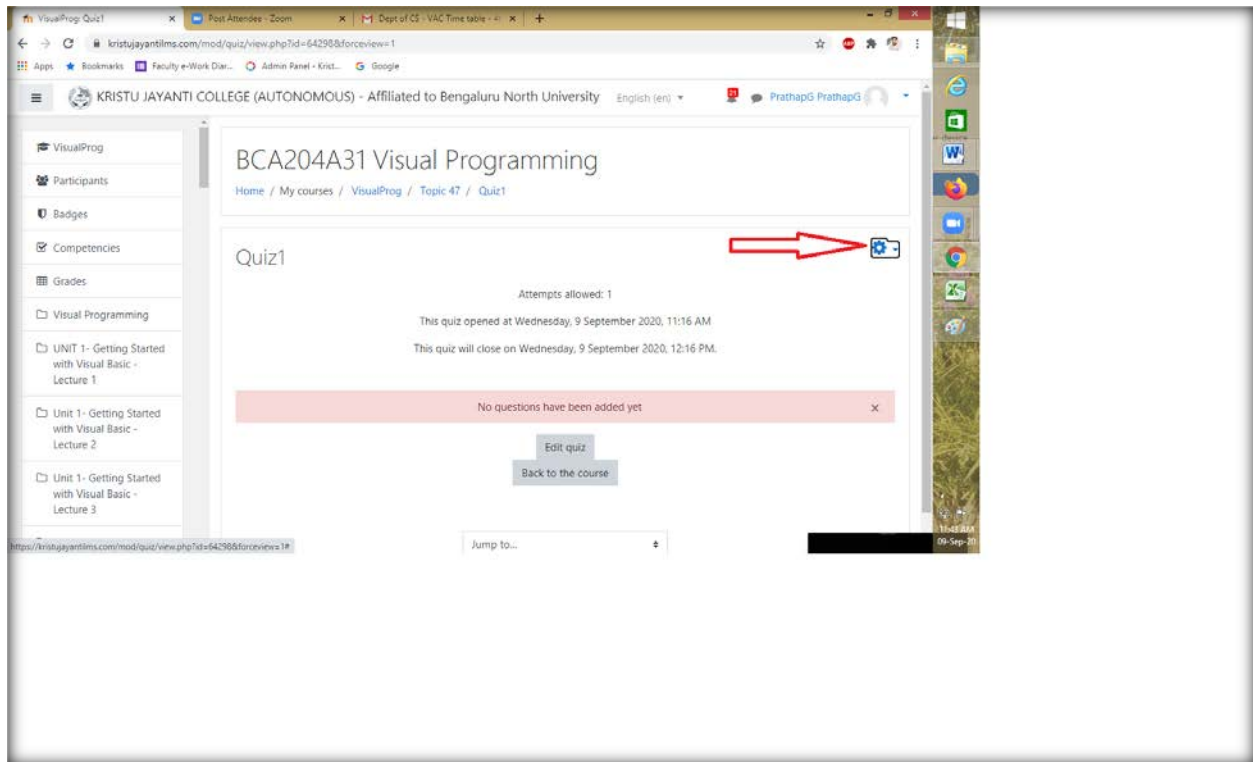


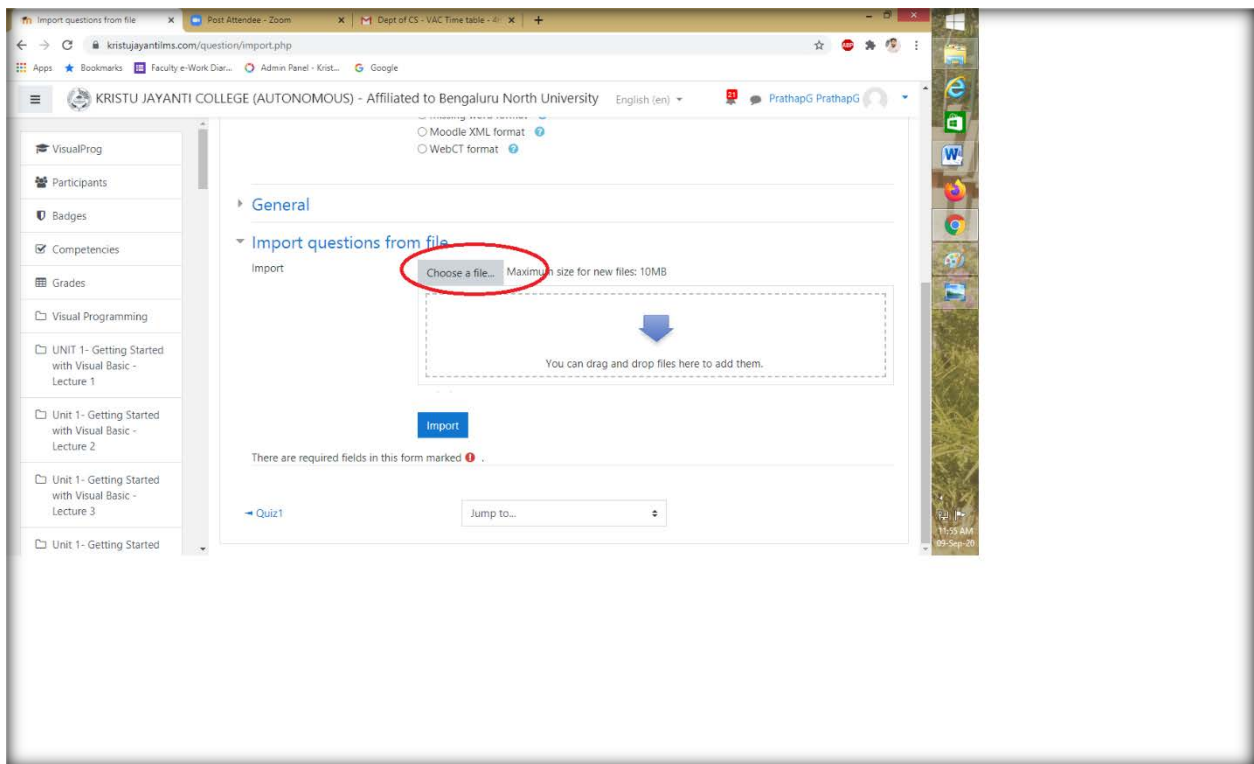
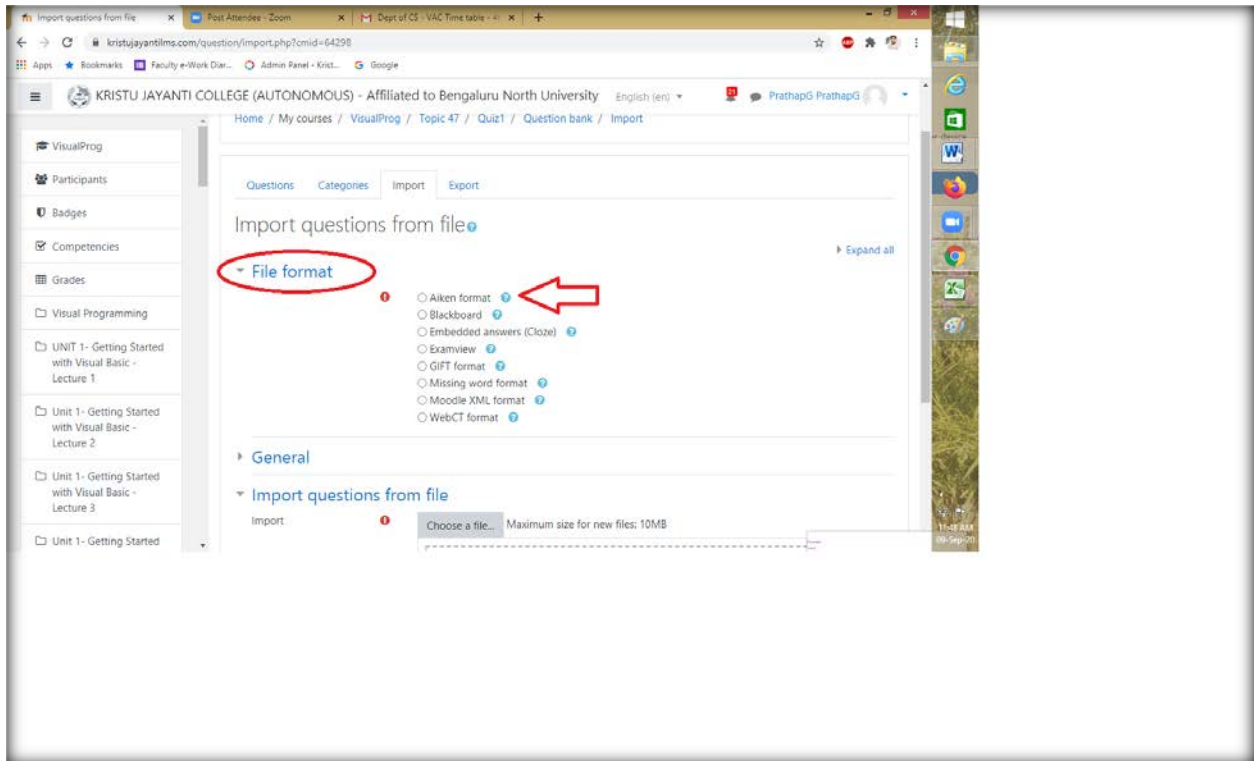


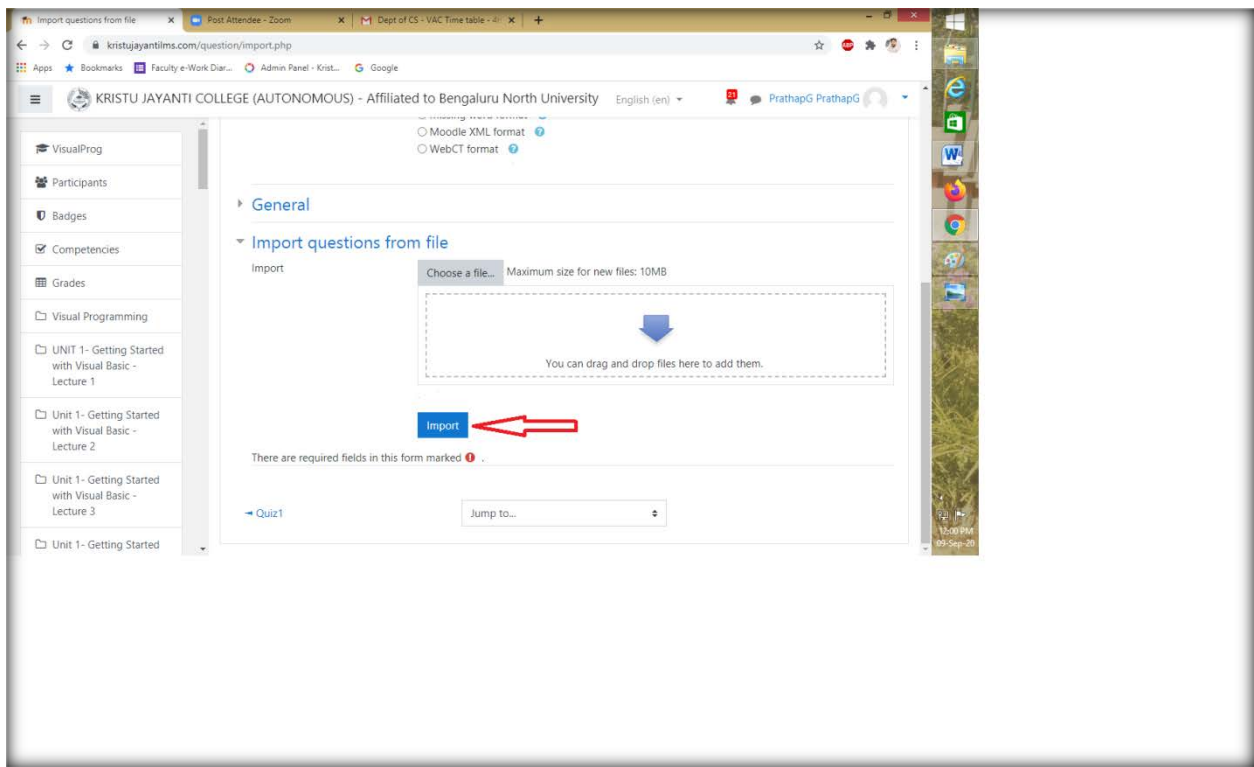
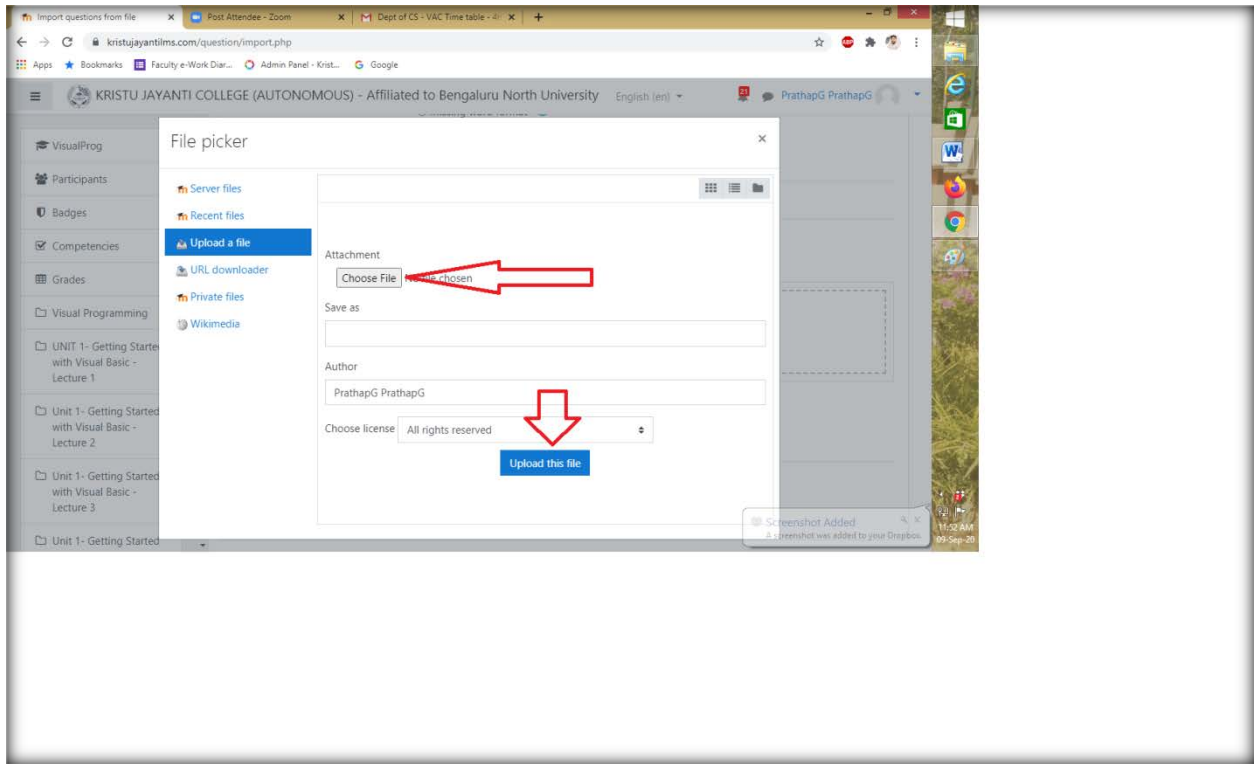
#### 2.1.3.4.4 Teachers can select the Review options and select the appropriate check box to control the review option for the Quiz activity



2.1.3.4.5 Teachers are given a privilege to import question bank in a specific format (Aiken Format) into the respective courses. To import question bank, teachers has to navigate the options given in the following images.







Import questions from file

Post Attendee - Zoom

VAC Quiz Exam Format - prathu

kristujayantims.com/question/import.php

KRISTU JAYANTI COLLEGE (AUTONOMOUS) - Affiliated to Bengaluru North University

English (en)

PrathapG PrathapG

VisualProg

Participants

Badges

Competencies

Grades

Visual Programming

UNIT 1- Getting Started with Visual Basic - Lecture 1

Unit 1- Getting Started with Visual Basic - Lecture 2

Unit 1- Getting Started with Visual Basic - Lecture 3

COMPONENT (I) PA...L...

COMPONENT (I) PA...L...

Show all

Parsing questions from import file.

Importing 30 questions from file

1. If Jasmine means onion, onion means jaggery, jaggery means guava and guava means grass, then which of the following is a manmade object
2. If KGLFT is written as PTOUG, then MERSA is written as
3. From the following question choose the word that best expresses the meaning of the given word - CANNY
4. From the following question choose the word that best expresses the opposite meaning of the given word - STARTLED
5. If DOOR is 25, LOWER is 37, TOWER is 18 then OVER is
6. Convert 101101 from binary to decimal
7. Madhu and Shobha are good in Dramatics and Computer Science. Anjali and Madhu are good in Computer Science and Physics. Anjali, Pranam and Nisha are good in Physics and History. Nikha and Anjali are good in Physics and Mathematics. Pranam and Shobha are good in

Import questions from file

Post Attendee - Zoom

VAC Quiz Exam Format - prathu

kristujayantims.com/question/import.php

KRISTU JAYANTI COLLEGE (AUTONOMOUS) - Affiliated to Bengaluru North University

English (en)

PrathapG PrathapG

VisualProg

Participants

Badges

Competencies

Grades

Visual Programming

UNIT 1- Getting Started with Visual Basic - Lecture 1

Unit 1- Getting Started with Visual Basic - Lecture 2

Unit 1- Getting Started with Visual Basic - Lecture 3

COMPONENT (I) PA...L...

COMPONENT (I) PA...L...

Show all

24. Find the next in the sequence -- 5 21 69 213 645

25. Find the next term. CB HGF ONML

26. YZA USB PKE. Which of the following will fit the above sequence

27. In a code language BROKE is written as DOSFK START is written as UQEMZ--then INDIA is written as

28. In a code language QUEEN is written as OVCL, then KING is written as

29. Which one of the following is not a prime number

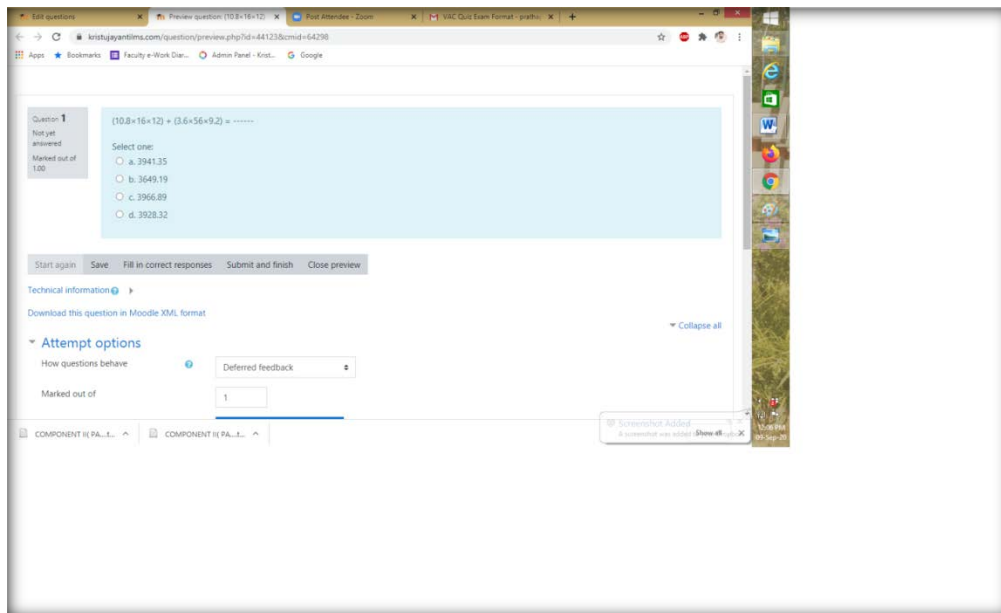
30. If one third of one fourth of a number is 15 then three tenth of that number is

Continue

Quiz1

Jump to...

## Sample Quiz page display

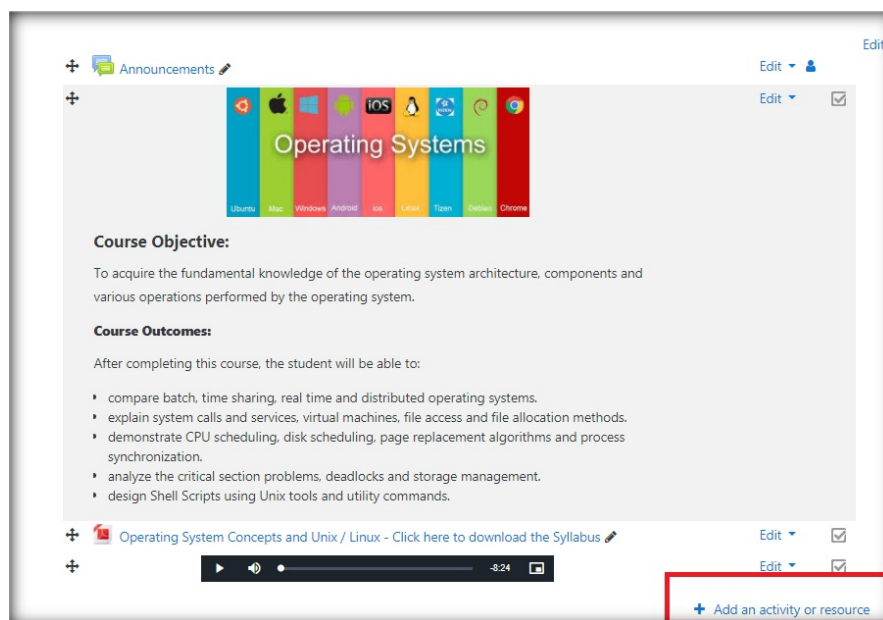


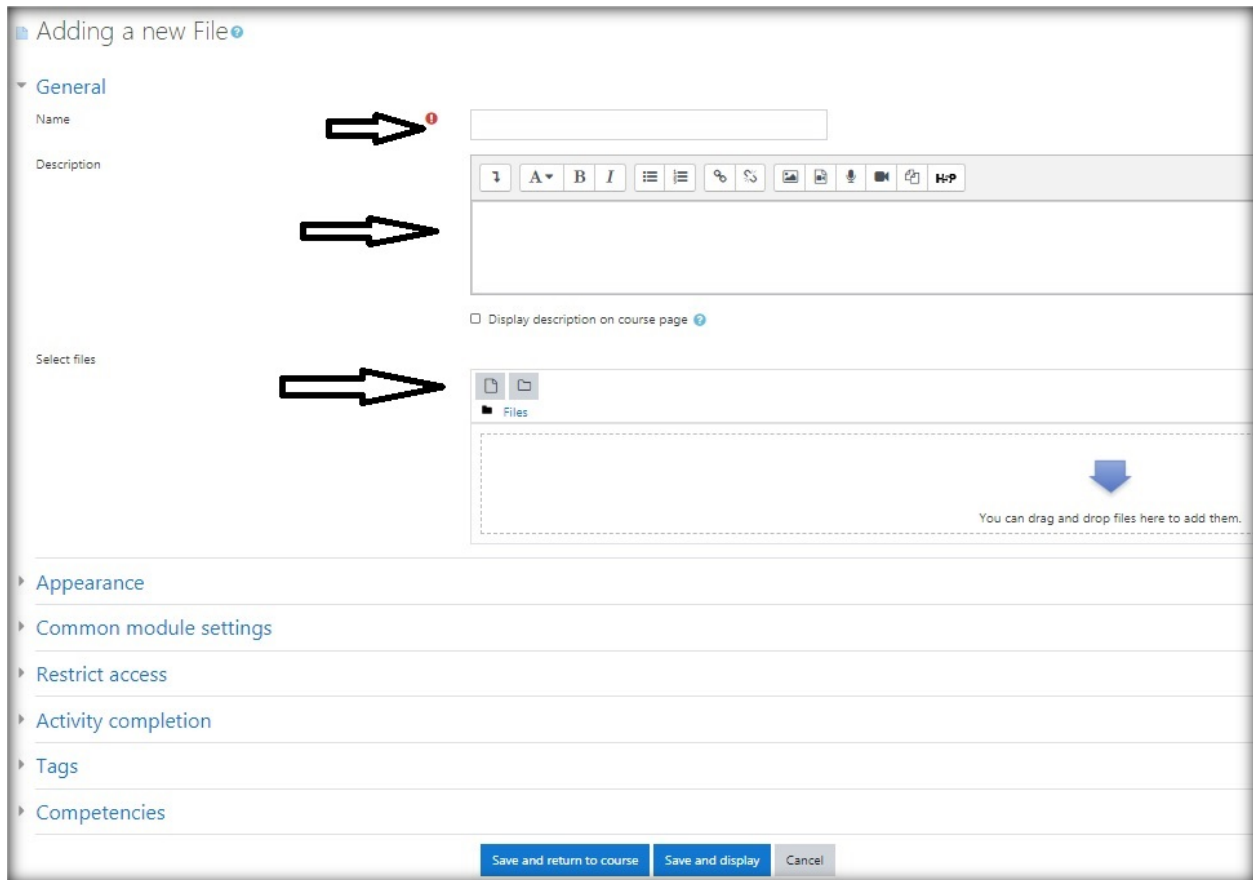
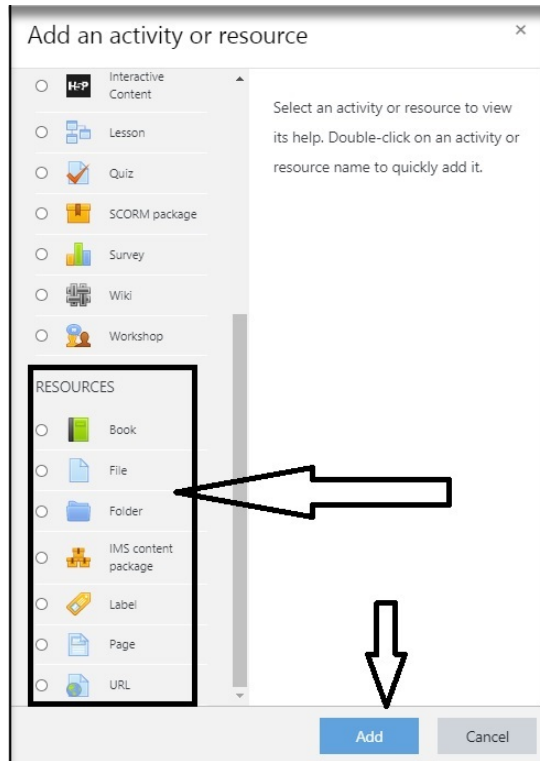
### 2.1.4 Resource Collaboration

Teachers can use the resource activity to add a lecture content materials, like files or links. KJLMS support a range resource types through which the teachers can add resources by clicking the Add an Activity or Resource link.

#### 2.1.4.1 Adding Files as a resource

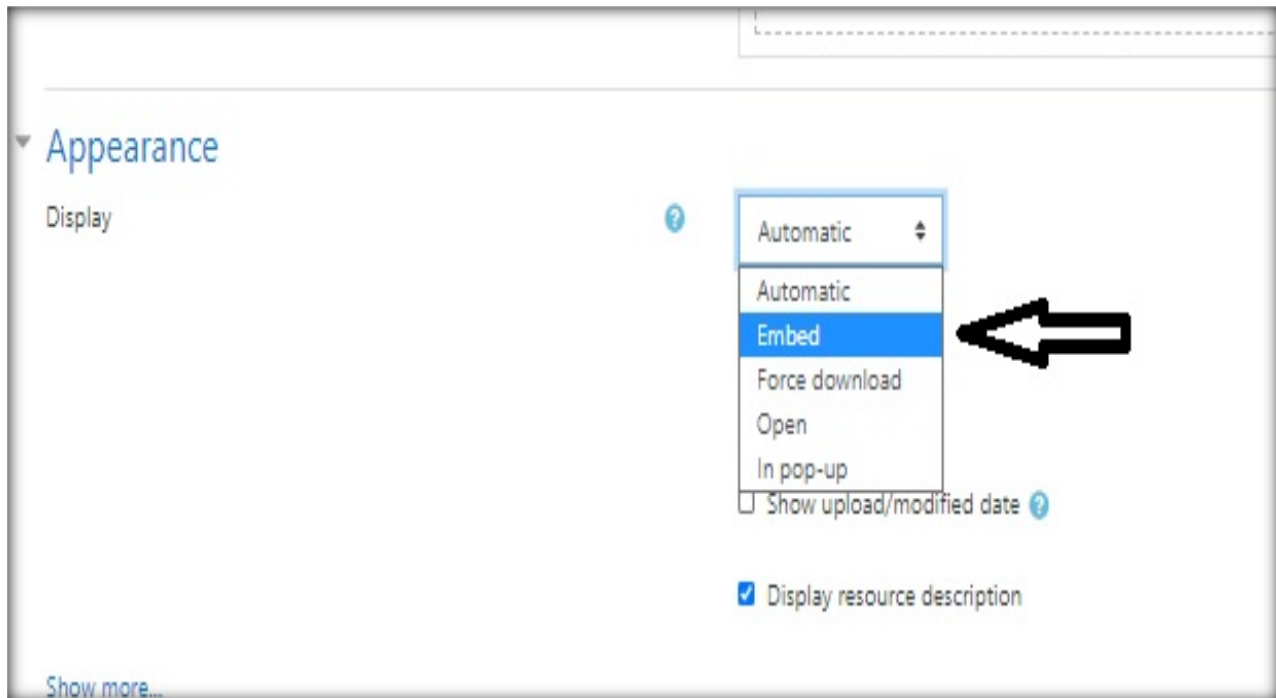
Following steps are followed to add an individual resource.



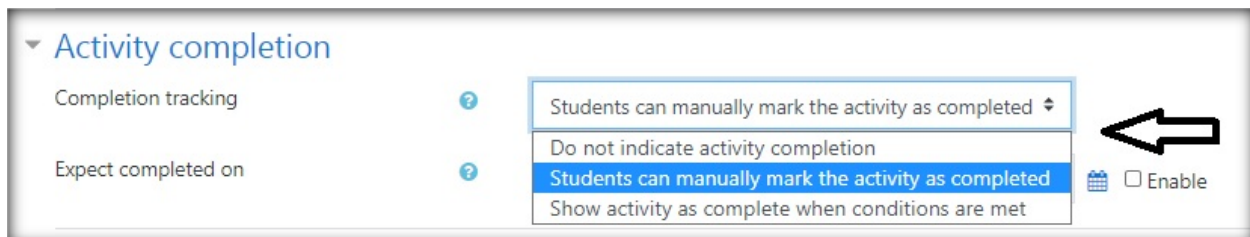




2.1.4.1.2 The Embed option from the drop down list will help the teachers to display the content in the same course content not in the new window.



Select the Activity completion option to define the condition for the activity completion.



## Adding a new File

### General

Name



Description



Rich text editor toolbar with icons for bold, italic, link, unlink, list, and other text formatting options.

Display description on course page

Select files



File selection icons (upload, folder)

Files

Drop zone for files with a blue arrow icon and the text: "You can drag and drop files here to add them."

Appearance

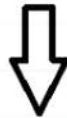
Common module settings

Restrict access

Activity completion

Tags

Competencies

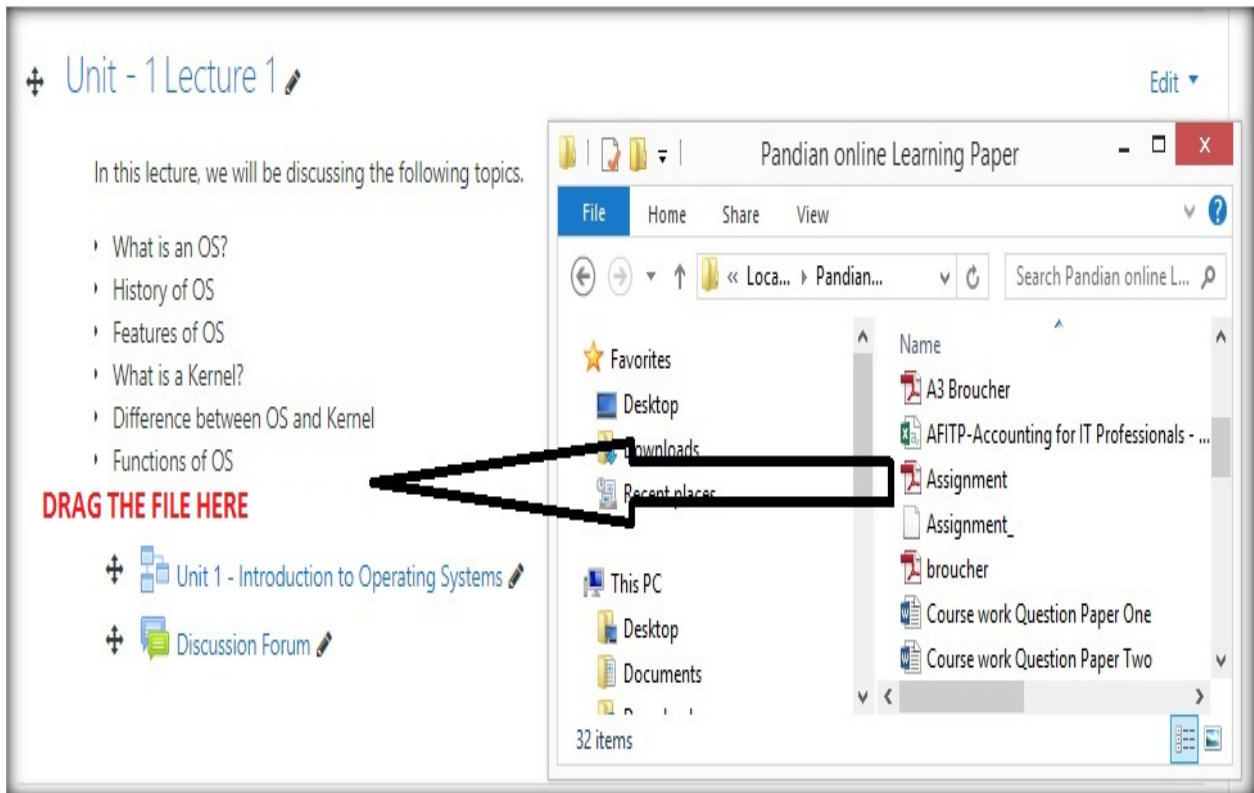
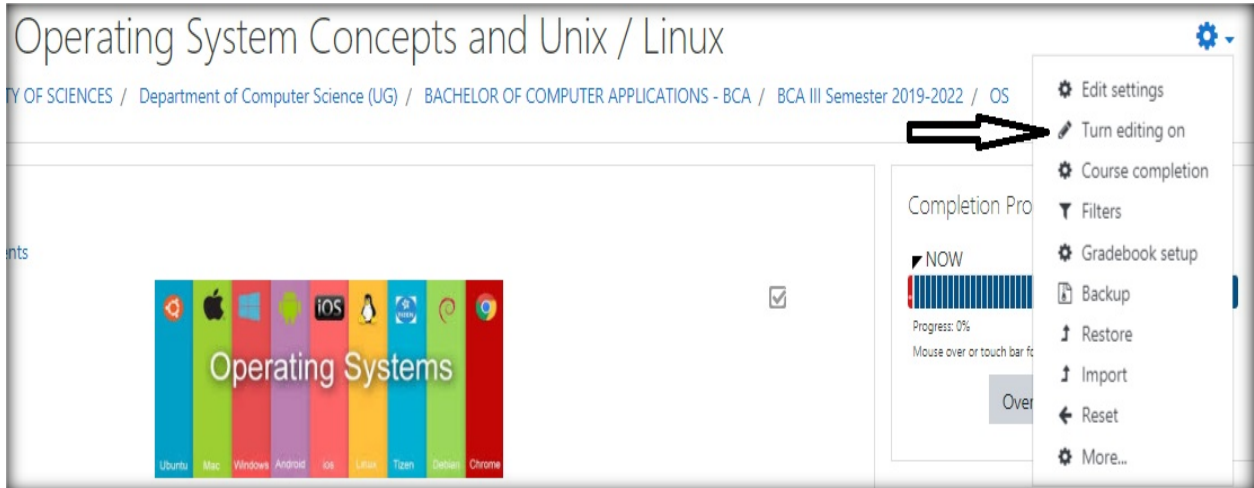


Save and return to course

Save and display

Cancel

2.1.4.1.3 The other way to do this is to drag and drop the file into the text area. Open the course page scroll down to the topic slot where we have decided to add the resources. Then open the explorer minimize the window, so it will be easy to drag and drop the file.



Unit - 1 Lecture 1

In this lecture, we will be discussing the following topics.

- What is an OS?
- History of OS
- Features of OS
- What is a Kernel?
- Difference between OS and Kernel
- Functions of OS

Unit 1 - Introduction to Operating Systems

Discussion Forum

Add file(s) here

Move

Pandian online Learning Paper

File Home Share View

« Loca... » Pandian... Search Pandian online L...

Name

- A3 Broucher
- AFITP-Accounting for IT Professionals - ...
- Assignment
- Assignment\_
- broucher
- Course work Question Paper One
- Course work Question Paper Two

32 items 1 item selected 550 KB

Add an activity or resource

To display the content page in the same course page the teacher has to select the Embed option from the drop down button.

Appearance

Display

Automatic

Automatic

Embed

Force download

Open

In pop-up

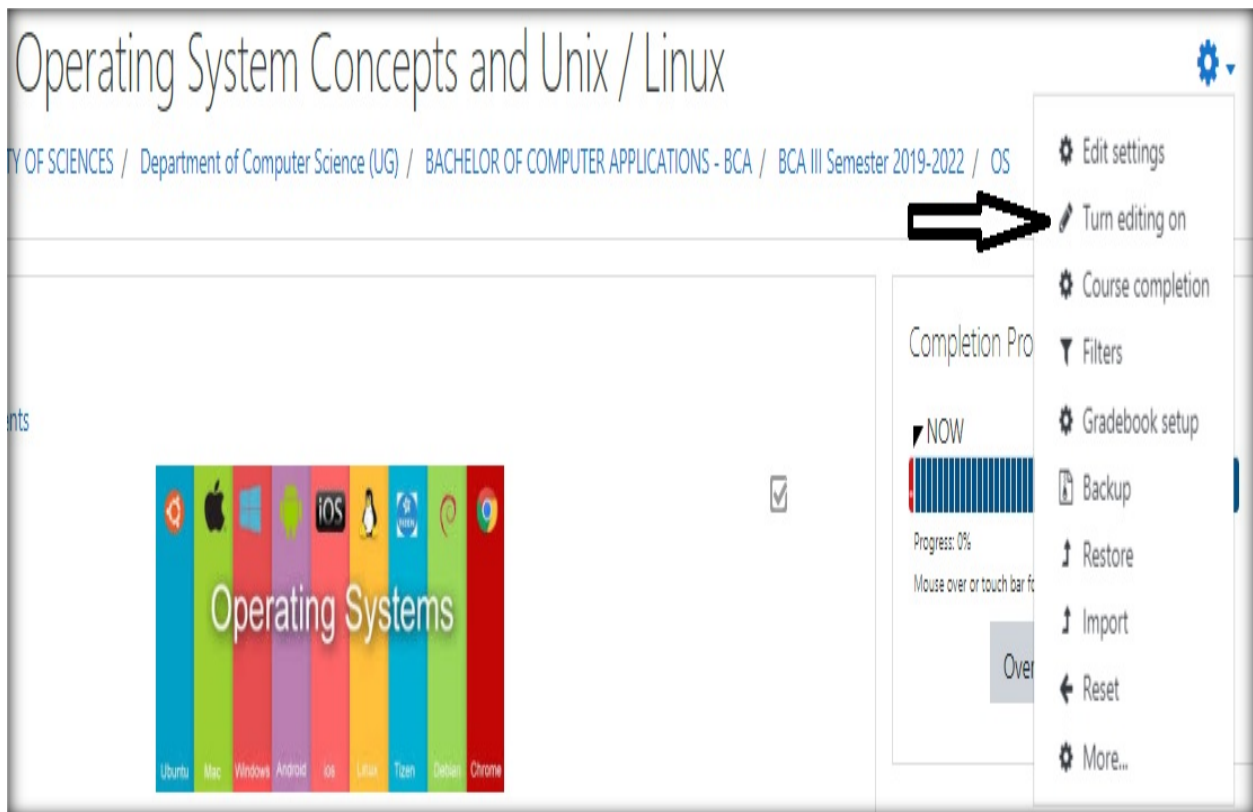
Show upload/modified date

Display resource description

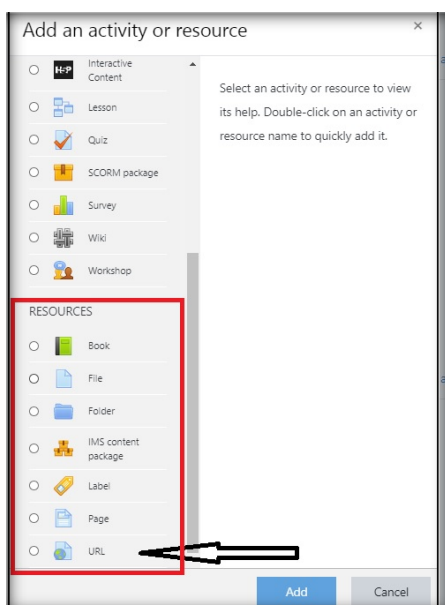
Show more...

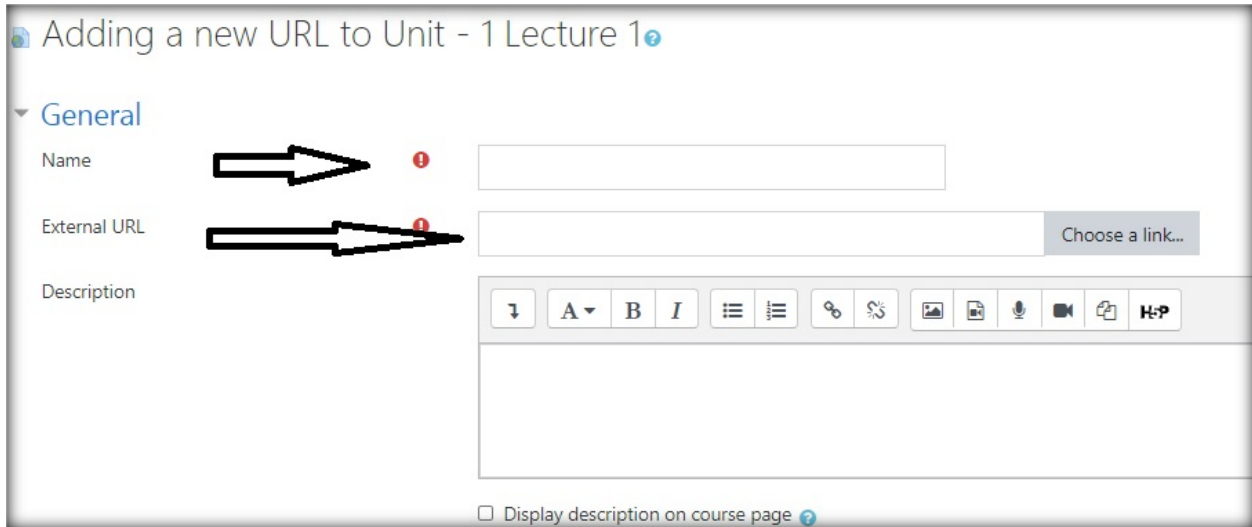
### 2.1.4.2 Adding the URL page as a Resource

Teachers can open the course page where the resources to be added. Click the Turn editing on. And then select the resource type from the list and click the add button

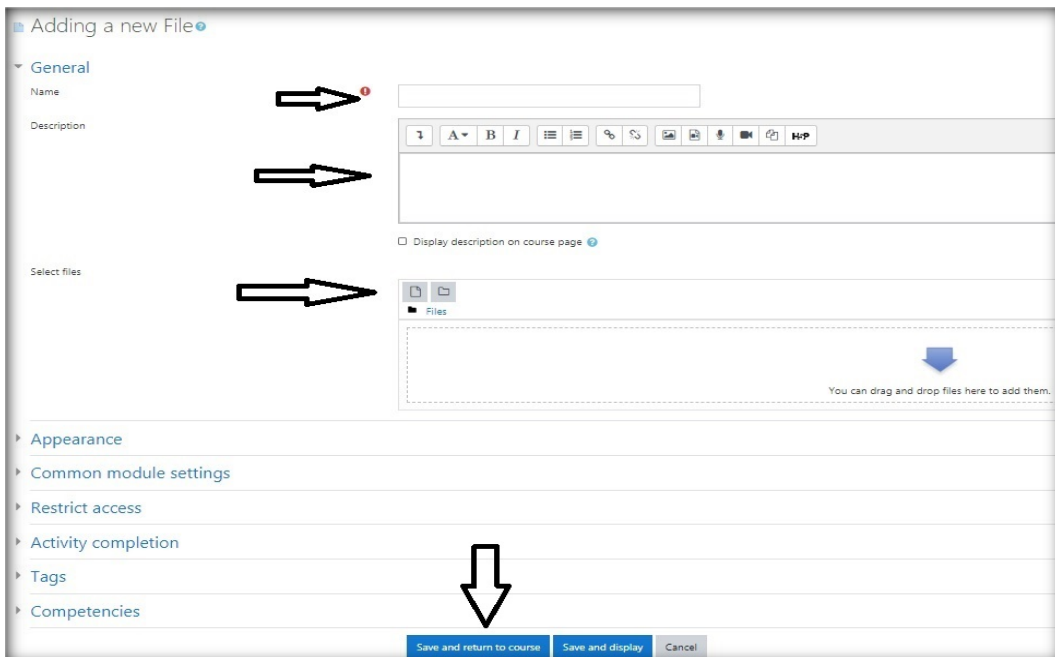
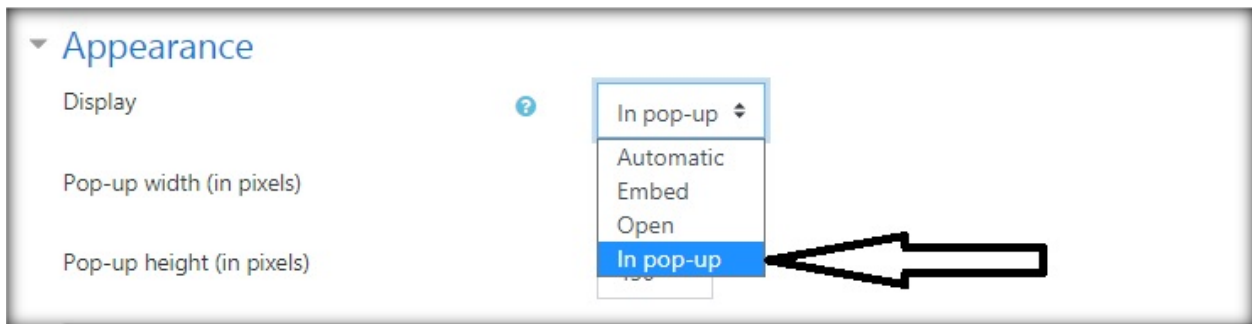


#### 2.1.4.2.1 Selecting the resource type from the list and click the add button





2.1.4.2.2 Select the appearance from the editing page and select Popup option from the list, so the URL link will get opened in the new pop-up window.



# SAMPLE COURSE PAGE IN KJLMS

← → ↻ kristujayantilms.com/course/view.php?id=533

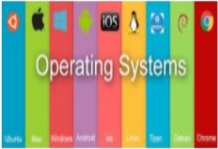
KRISTU JAYANTI COLLEGE (AUTONOMOUS) - Affiliated to Bengaluru North University English (en)

## BCA204A33 Operating System Concepts and Unix / Linux

Home / Courses / FACULTY OF SCIENCES / Department of Computer Science (UG) / BACHELOR OF COMPUTER APPLICATIONS - BCA / BCA III Semester 2019-2022 / OS

- OS
- Participants
- Badges
- Competencies
- Grades
- General
- Unit - 1 Lecture 1
- Unit - 1 Lecture 2
- Unit - 1 Lecture 3
- Unit - 1 Lecture 4
- UNIT TEST -1
- Unit - 2 Lecture 1
- Unit - 2 Lecture 2
- Unit - 2 Lecture 3
- Unit - 2 Lecture 4
- Unit - 2 Lecture 5
- Unit - 2 Lecture 6
- Unit - 2 Lecture 7
- Unit - 2 Lecture 8

+ Announcements

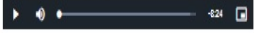


Course Objective:  
To acquire the fundamental knowledge of the operating system architecture, components and various operations performed by the operating system.

Course Outcomes:  
After completing this course, the student will be able to:

- compare batch, time sharing, real time and distributed operating systems.
- explain system calls and services, virtual machines, file access and file allocation methods.
- demonstrate CPU scheduling, disk scheduling, page replacement algorithms and process synchronization.
- analyze the critical section problems, deadlocks and storage management.
- design Shell Scripts using Unix tools and utility commands.

+ Operating System Concepts and Unix / Linux - Click here to download the Syllabus



+ Add an activity or resource

+ Unit - 1 Lecture 1

In this lecture, we will be discussing the following topics.

What is an OS?

# COURSE CONTENT PAGE

## Unit - 1 Lecture 2 Edit ▾

In this lecture, we will be discussing about the following topics.

- Simple Batch Systems
- Multi-programmed Batched Systems
- Time Sharing Systems

**Lesson Content Page - Activity**

- Unit - 1 Introduction to Operating Systems Edit ▾
- Video - Batch Processing System Edit ▾

**URL Page Resource**

[Add an activity or resource](#)

---

## Unit - 1 Lecture 3 Edit ▾

In this lecture, we will be discussing the following topics.

- Personal Computer Systems
- Distributed Systems
- Types of Distributed Systems
- Real-Time Systems

- Unit - 1 Introduction to Operating Systems Edit ▾
- Video - Real-Time Operating Systems Edit ▾

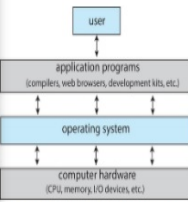


# LESSON CONTENT PAGE

## UNIT I - LECTURE I - INTRODUCTION

Hello, in this lecture we will be discussing the different views of what an operating system is and will also be discussing the difference between kernel and distributions and the fundamental managements in the operating system. First let us discuss about the different views of an operating system. In the simple term operating system is defined as a program that is running at all times on the computer usually we call it as Kernel. The other globally accepted definition is, a program that acts as an interface between the computer user and the computer hardware. Basically the operating system manages the computer hardware and controls and coordinates the use of the hardware among various application programs.

Now let's see how the operating system is working, a computer system can be divided into four components like the core hardware kernel, the application / system utility program and the user. If you see that figure you will understand now the hardware is the central Processing Unit then we have memory then we have the input output devices they provide the basic computing resources for the system. Application programs such as word processor, spreadsheet, compiler and web browsers define the way in which these resources are used to solve the user's computing problems. ok so if you see the diagram in the figure it depicts, the core is the hardware the next level is going to be the operating system or what we call kernel the core component of the operating system on the top we have the application program on top of the application program you have the users. Then the operating system provides the means for proper use of these resources in the operations of the computer system.

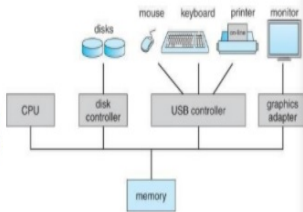


The hardware is a bare machine, they can't do anything without the intervention of the operating system. Operating system controls and coordinates each and every hardware device. The main objectives of the operating system is convenience and efficiency. What do you mean by convenience, it is nothing but the user friendly environment and allows the system resource to be used in an efficient manner say for example PC operating system.

Now let us move on to, what is the difference between the kernel and the distribution, when we talk about the kernel, kernel is nothing but the core of an operating system, so when we say core what do you mean by that, the basic management for example, process management memory management, device management, file management then network management. We need to write code for these management programs all together in a collection we call them as Kernel. Now when we come to the distribution / distributions are nothing but some features to the kernel on top as a utility software. For example if you go to kernel.org you can find the current Linux kernel version, you can download that kernel and you can modify it and you can go for a general public licence and you can call the operating system in your name. when you talk about the operating system you should be clear about what is the kernel I am using for this particular distribution. To find the linux kernel version in the distribution, there is a specific Linux / Unix command "uname -r"

### Computer System Organization:

A modern general-purpose computer system consists of one or more CPUs and a number of device controllers connected through a common bus that provides access to shared memory. Each device controller is in charge of a specific type of device (for example, disk drives, audio devices, or video displays). The CPU and the device controllers can execute in parallel, competing for memory cycles. To ensure orderly access to the shared memory, a memory controller synchronizes access to the memory.



When the system is powered up or rebooted it needs to have an initial program to run. This initial program, or **bootstrap program**, tends to be simple. Typically, it is stored within the computer hardware in read-only memory (ROM) or electrically erasable programmable read-only memory (EEPROM), known by the general term **firmware**. It initializes all aspects of the system, from CPU registers to device controllers to memory contents. The bootstrap program must know how to load the operating system and how to start executing that system. The bootstrap program must locate the operating-system kernel and load it into memory. Once the kernel is loaded and executing, it can start providing services to the system and its users. Some services are provided outside of the kernel, by system programs that are loaded into memory at boot time to become **system processes**, or **system daemons** that run the entire time the kernel is running.

### Highlights:

- A **Kernel** is a central component of an operating system. It acts as an interface between the user applications and the hardware.
- **Bootling** is a start-up sequence that starts the operating system of a computer when it is turned on.
- A **Bootstrap** is the program that initializes the Operating System (OS) during start-up which initiates the smaller program that executed a larger program such as the OS

Finally let us discuss about how we can classify the Operating System:

- **Multi-users:** is the one that concede two or more users to use their programs at the same time. Some of OS permits hundreds or even thousands of users simultaneously.
- **Single-User:** just allows one user to use the programs at one time. **Multiprocessors:** Supports opening the same program more than just in one CPU. **Multitasking:** Allows multiple programs running at the same time.
- **Single-tasking:** Allows different parts of a single program running at any one time.
- **Real time:** Responds to input instantly. Operating systems such as DOS and UNIX, do not work in real time.

## CHALLENGE QUESTION:

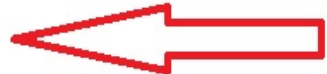
## Unit 1 - Introduction to Operating Systems ?

Preview Edit Reports Grade essays **CHALLENGE QUESTION PAGE**

\_\_\_\_\_ helps OS to create and delete processes.

- Device Management
- Memory Management
- File Manipulation
- Process Management

Submit





### 3. KJLMS Students Access

KJLMS can be accessed through the URL – [kristujayantilms.com](http://kristujayantilms.com). KJLMS can be accessed by the students through their valid authenticated login credentials provided by the Site Administrator.

#### 3.1 Students Access Features

- Change Password Option
- Student Profile Access
- Messages and Notification
- Course Access
- Dashboard Control

##### 3.1.1 Change Password Option

Students are enrolled in KJLMS through the Manual enrollment. Site Admin can enroll the students to the site through the upload user option in Site Administrator. Following is the navigation: **Site Administration->user->upload users**. The default setting for the force password change is given by the Admin.

Kristu Jayanti College  
AUTONOMOUS Bengaluru  
Reaccredited 'A' Grade by NAAC | Affiliated to Bengaluru North University

sampuser

.....

Remember username

Log in

Cookies must be enabled in your browser

Enter the valid username & password

3.1.1.1 To change the password, students should provide the current password credentials in the current password text box and then they should provide the New password and confirm the same in the next given box.



Samp User Message

[Home](#) / [Dashboard](#) / [Preferences](#) / [User account](#) / [Change password](#)

You must change your password to proceed. ×

## Change password

Username sampuser

The password must have at least 8 characters, at least 1 digit(s), at least 1 lower case letter(s), at least 1 upper case letter(s), at least 1 non-alphanumeric character(s) such as \*, -, or #

Current password !  Type the current password

New password !  Give the new password

New password (again) !  Confirm the new password which was given above



Save changes

Click Save Changes



Samp User Message

[Home](#) / [Dashboard](#) / [Preferences](#) / [User account](#) / [Change password](#)

Password has been changed



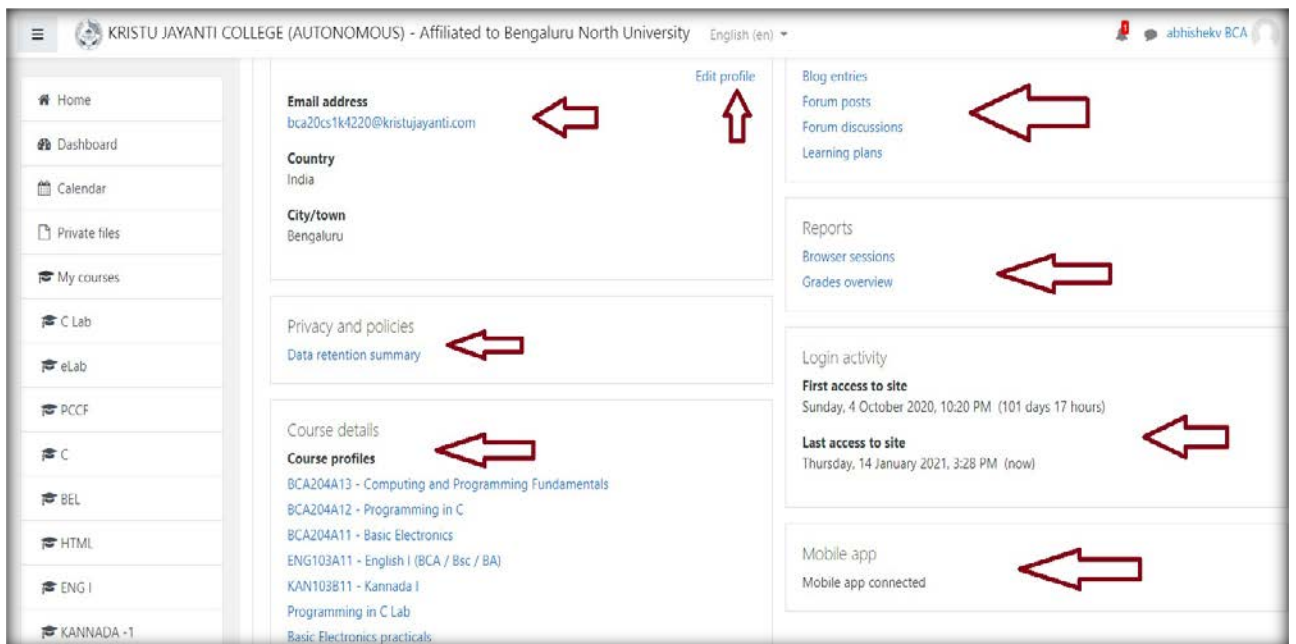
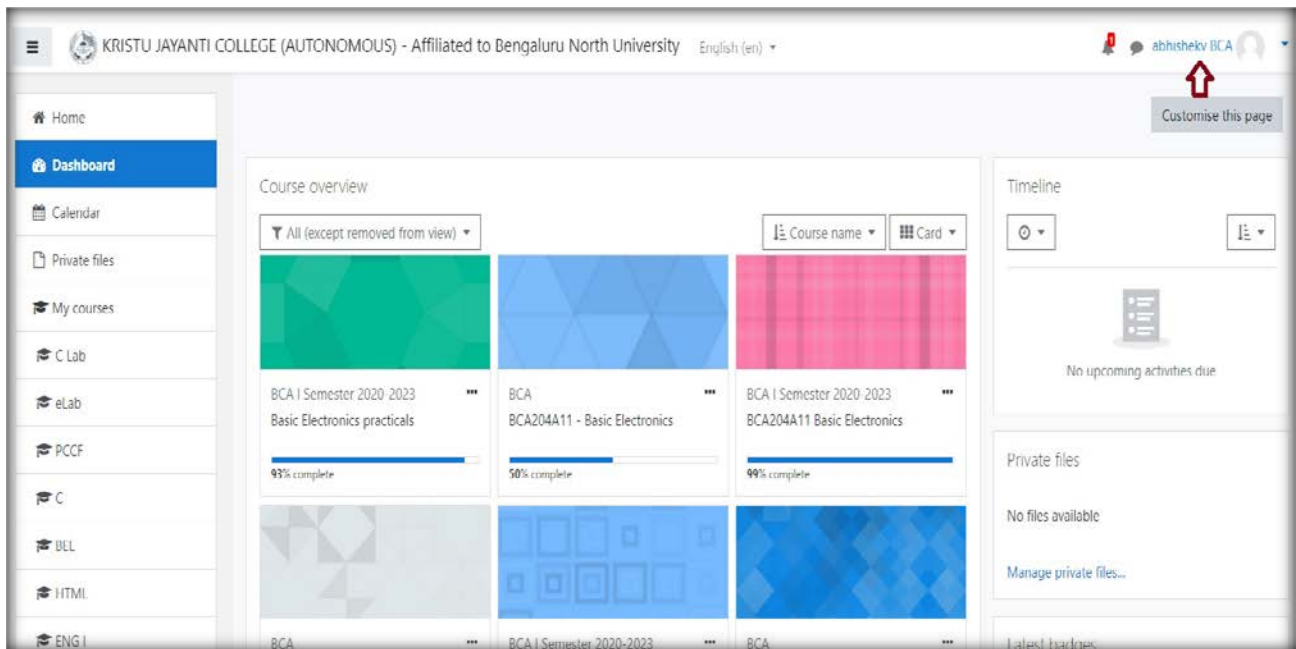
Continue

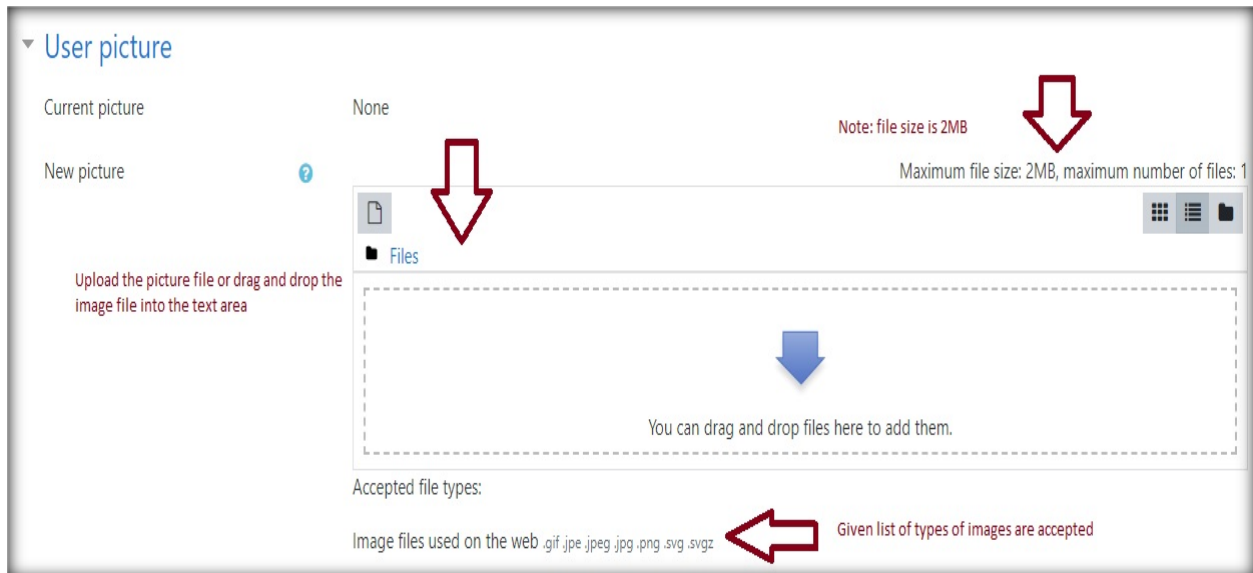
### 3.1.2 Student Profile Access

Students are given the privilege to change their profile page, this process will allow the students to become familiar with the options available in order to personalize their environment.

#### 3.1.2.1 Editing the Profile page

Students can edit their profile from the home page itself by clicking the name at the top of the page.



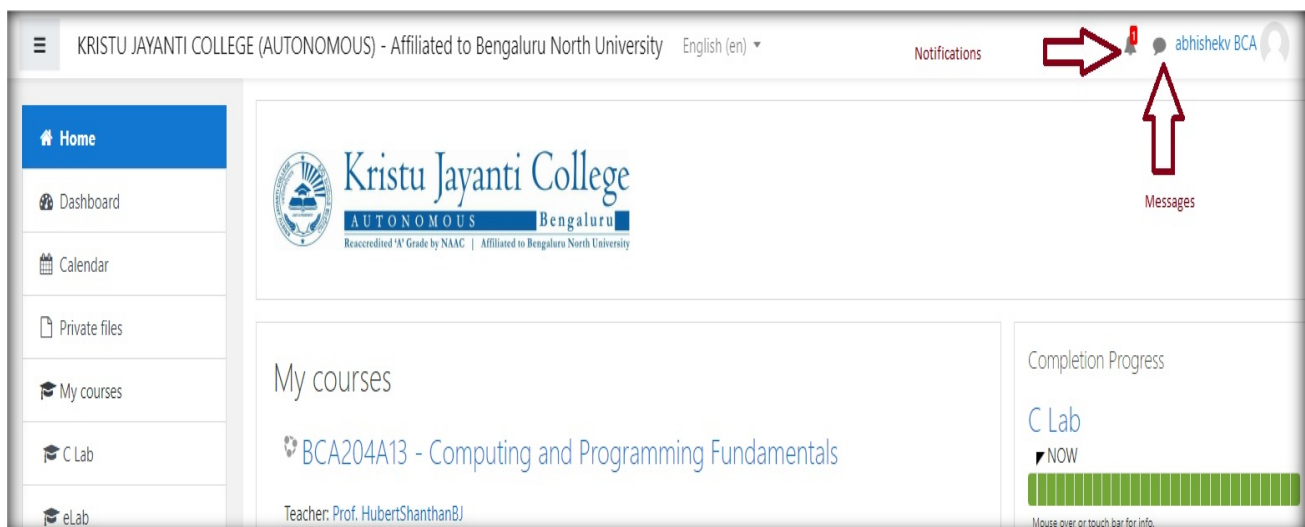


### 3.1.3 Messages and Notifications

KJLMS can alert the students when they have a new messages from the teacher or from the other participants. Notification related to the Forum post, chat activity and graded assignment can be received by the students.

#### 3.1.3.1 Accessing the Messages and the Notifications

Students can the notification and the messages from the home page itself by clicking the notification bell icon and the message icon next to it at the top of the page.



Notifications

abhishekv BCA

You have upcoming activities due  
24 days 19 hours ago [View full notification](#)


ress

nta

info.

info.

[See all](#)



Notifications

You have upcoming activities due  
24 days 19 hours ago

You have upcoming activities due  
24 days 19 hours ago

Hi abhishekv,

You have upcoming activities due:

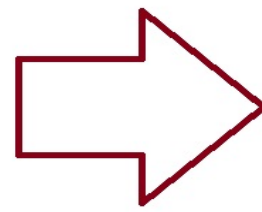
Type Conversions closes

**When: Monday, 21 December 2020, 11:59 PM**

Course: BCA204A12 Programming in C

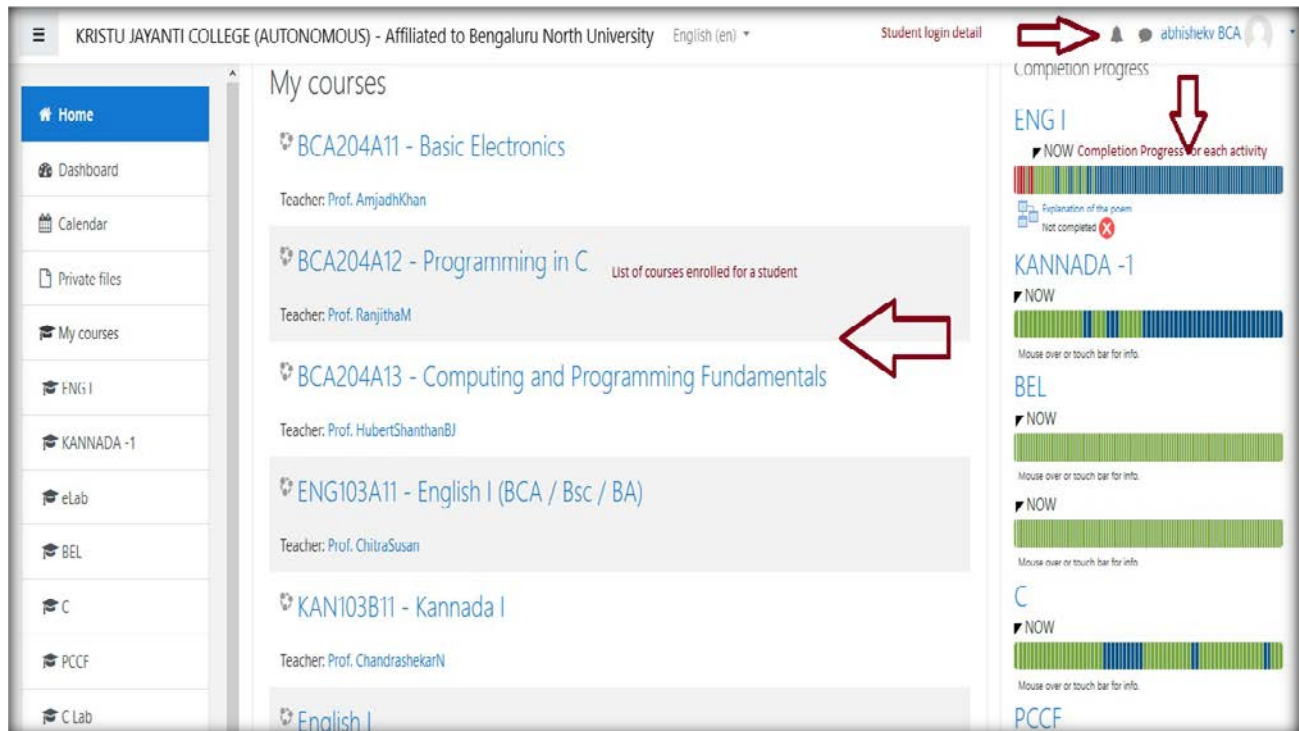
[Go to activity](#)

Was this helpful?



### 3.1.4 Course Access

Students can access the enrolled courses when they are enrolled by either the administrator or by the course teachers. In KJLMS, only the enrolled courses will get displayed in the front page of the students landing page after their successful login.



The screenshot shows the student dashboard for KRISTU JAYANTI COLLEGE (AUTONOMOUS) - Affiliated to Bengaluru North University. The main content area is titled "My courses" and lists several enrolled courses:

- BCA204A11 - Basic Electronics (Teacher: Prof. AmjadhKhan)
- BCA204A12 - Programming in C (Teacher: Prof. RanjithaM) - This course is highlighted with a red arrow pointing to it from the right.
- BCA204A13 - Computing and Programming Fundamentals (Teacher: Prof. HubertShanthanBJ)
- ENG103A11 - English I (BCA / Bsc / BA) (Teacher: Prof. ChitraSusan)
- KAN103B11 - Kannada I (Teacher: Prof. ChandrashekarN)
- English I (Teacher: Prof. ChandrashekarN)

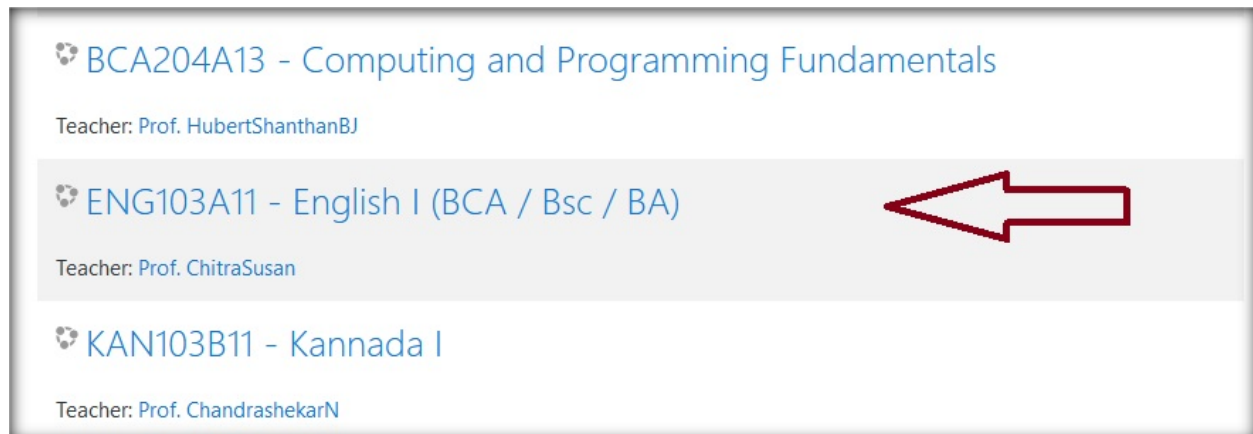
On the right side, there is a "Completion Progress" sidebar showing progress bars for various courses:

- ENG I: NOW Completion Progress for each activity. A red arrow points to the progress bar.
- KANNADA -1: NOW. Progress bar is mostly green.
- BEL: NOW. Progress bar is mostly green.
- C: NOW. Progress bar is mostly green.
- PCCF: NOW. Progress bar is mostly green.

The top navigation bar includes "Student login detail" and the user's name "abhishekv BCA".

#### 3.1.4.1 Course Content Page Access

From the list of courses, students can access the course content by selecting the respective courses from the front page.



This is a close-up view of the course list from the previous screenshot. The courses listed are:

- BCA204A13 - Computing and Programming Fundamentals (Teacher: Prof. HubertShanthanBJ)
- ENG103A11 - English I (BCA / Bsc / BA) (Teacher: Prof. ChitraSusan) - A red arrow points to this course from the right.
- KAN103B11 - Kannada I (Teacher: Prof. ChandrashekarN)



From the selected course, students can access the course content and the related resource files and the assigned activities.

KRISTU JAYANTI COLLEGE (AUTONOMOUS) - Affiliated to Bengaluru North University English (en) abhishekv BCA

ENG I

Participants

Badges

Competencies

General

Unit I Lecture 1: Background study of Oscar Wilde and The Selfish Giant

Unit I Lecture 2: Additional discussions on "The Selfish Giant"

Unit I Lecture 3: Background study of "At Harrow and Cambridge"

Unit I Lecture 4:

I GENERAL ENGLISH (BA, B. Sc, BCA)

Your progress

Completion Progress

NOW

Making requests Not completed

**GENERAL ENGLISH I (BA, B.Sc, BCA)**

**Learning Objectives:**

- To attune young minds to concerns and issues which have a broad and wide scope of use and application to life.
- To cut across the history of creative expression in focusing primarily on the core values that governs human lives.

**Learning Outcomes:**

After successful completion of the course, the student will be able to:

- demonstrate ability to identify nuances of prose and poetry
- develop the skill to appreciate prose and poetry
- state the basic concepts of grammar and its usage
- develop communicative skills and become competent users of English in real life situations

Index of I GE (BA, BSc)

The file contains the lessons and the respective lecture numbers for ease of access.

I GE Textbook

Course Content Page display

## Unit I Lecture 1: Background study of Oscar Wilde and The Selfish Giant

In this lesson, we will discuss how the Victorian society influenced Oscar Wilde in writing his famous fables which beheld layers of meanings. Oscar Wilde the writer will also be discussed.

### TO DO:

- Once the background is discussed, the students are expected to read the attached PDF of the prescribed chapter and put in your individual thoughts on the forum.
- A short animated [movie](#) on the chapter is also uploaded for a better understanding.

### Victorian Literature and Oscar Wilde

The lesson consists of :

- A glimpse of the Victorian era and the life of Oscar Wilde
- Multiple Choice Questions

### PPT on The Selfish Giant



### The Selfish Giant pdf- FLIPPED CLASS

## Unit I Lecture 1: Background study of Oscar Wilde and The Selfish Giant

In this lesson, we will discuss how the Victorian society influenced Oscar Wilde in writing his famous fables which beheld layers of meanings. Oscar Wilde the writer will also be discussed.

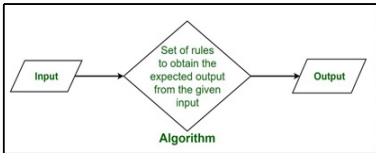

### TO DO:

- Once the background is discussed, the students are expected to read the attached PDF of the prescribed chapter and put in your individual thoughts on the forum.
- A short animated [movie](#) on the chapter is also uploaded for a better understanding.

 <a href="#">Victorian Literature and Oscar Wilde</a>		<a href="#">Lesson Content Activity</a>	<input checked="" type="checkbox"/>
The lesson consists of :			
1. A glimpse of the Victorian era and the life of Oscar Wilde			
2. Multiple Choice Questions			
 <a href="#">PPT on The Selfish Giant</a>		<a href="#">Added Resource for the supportive reading</a>	<input checked="" type="checkbox"/>
 <a href="#">The Selfish Giant pdf- FLIPPED CLASS</a>			<input checked="" type="checkbox"/>

### 3.1.4.2 Lesson Content Page Access

Students can access the lesson content page from the enrolled course page. Flipped Class room concepts has been implemented by providing the access to the Lesson Activity.

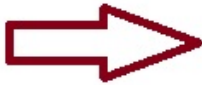
<p><b>Algorithm</b></p> <p>A step by step process of solving a problem is called as an algorithm. Algorithm refers to a set of rules/instructions that step-by-step define how a work is to be executed upon in order to get the expected results.</p> <div data-bbox="207 1350 581 1501"></div> <p><b>Properties of an Algorithm</b></p> <ol style="list-style-type: none"><li>1. Input</li><li>2. Output</li><li>3. Definiteness</li><li>4. Fineness</li><li>5. Effectiveness</li></ol> <p><b>Designing an Algorithm</b></p> <ol style="list-style-type: none"><li>1. Define the problem</li><li>2. Defining the constraints of the problem that must be considered while solving the problem.</li><li>3. The input to be taken to solve the problem.</li><li>4. The output to be expected when the problem the is solved.</li><li>5. The solution to this problem, adhering to the given constraints.</li></ol>		<a href="#">Inside the Lesson Content Page</a>
---	---	--

After every page of a reading content, there will be a couple of challenge questions to check the knowledge gained by the students.

# Algorithm and Flowchart ?

Preview Edit Reports Grade essays

The symbol  denotes



Challenge Question

- Terminal
- Connector
- Decision
- I/O

Submit



## BCA204A12 Programming in C

Home / My courses / C / Unit - 1 : Lecture - 8 Input and Output in C / Unit - 1 Summary

Resource Content Display

### Unit - 1 Summary

1 of 11 Automatic Zoom



UNIT 1: Introduction Programming in C

#### OVERVIEW OF C

C is a general-purpose, procedural computer programming language developed in 1972 by Dennis M. Ritchie at the Bell Telephone Laboratories to develop the Unix operating system. C is a very popular programming language because it is simple, efficient and reliable. C has now become a widely used professional language for various reasons.

- Easy to learn
- Structured language
- It produces efficient programs.
- It can handle low-level activities
- It can be compiled on a variety of computer platforms.

It is considered to be a middle level language since it has the features of both the low level and the high level languages. Some examples of the use of C is used to develop Operating

Unit - 1 Summary

Given a privilege to download, to save the file and to take the print

1 of 11 Automatic Zoom

UNIT 1:Introduction Programming in C

### OVERVIEW OF C

C is a general-purpose, procedural computer programming language developed in 1972 by Dennis M. Ritchie at the Bell Telephone Laboratories to develop the Unix operating system. C is a very popular programming language because it is simple, efficient and reliable. C has now become a widely used professional language for various reasons.

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- It can handle low-level activities
- It can be compiled on a variety of computer platforms.

It is considered to be a middle level language since it has the features of both the low level and the high level languages. Some examples of the use of C is used to develop Operating Systems, Language compilers, Assemblers, Text Editors, Network Drivers, Data Bases,

Name of the file

Related Question Bank


Unit 1-Class PPT

Jump to...

Unit - 1 : Question Bank

## Unit-4:Lecture-1 Structures

### Understanding the need for structures and its usage in programming


- Structures-Declaration & Initilaization
- Read more on structures 

---

## Unit - 4 : Lecture-2 Structures(contd...)

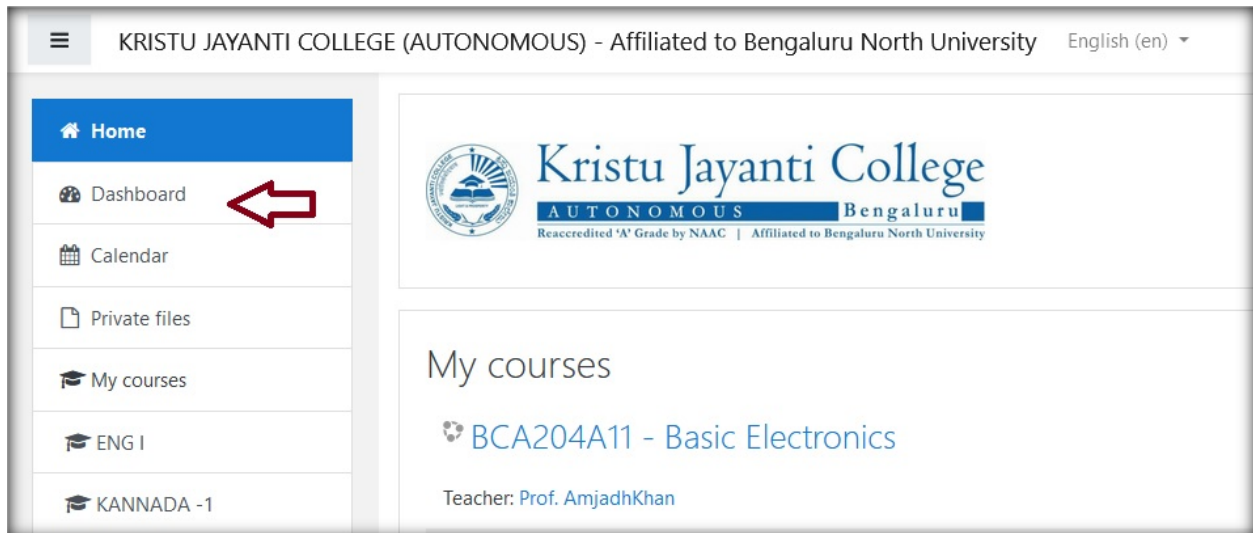
URL link to access the content outside the course content page

### Knowing on usage of arrays with structures

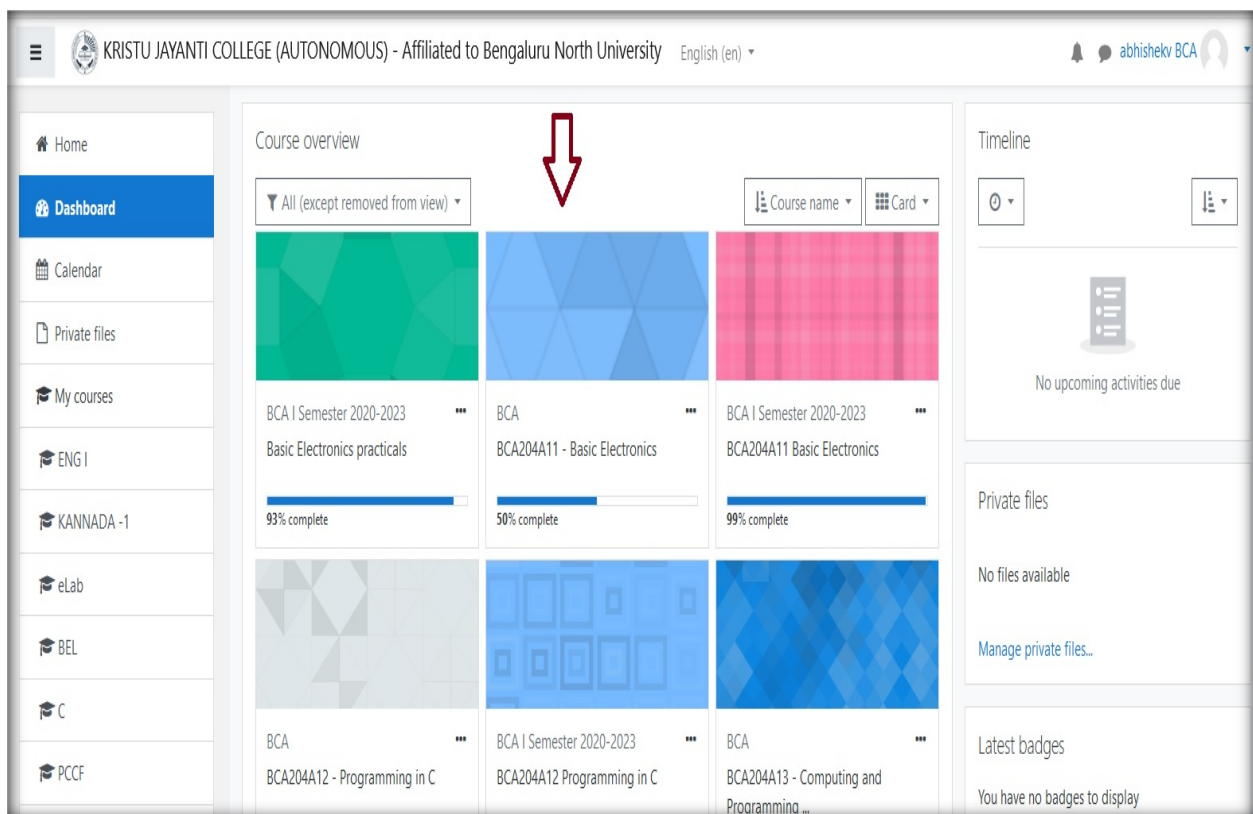
- Arrays & Structures
- Explore more on array of structures in wikipedia 

### 3.1.5 Dashboard Control

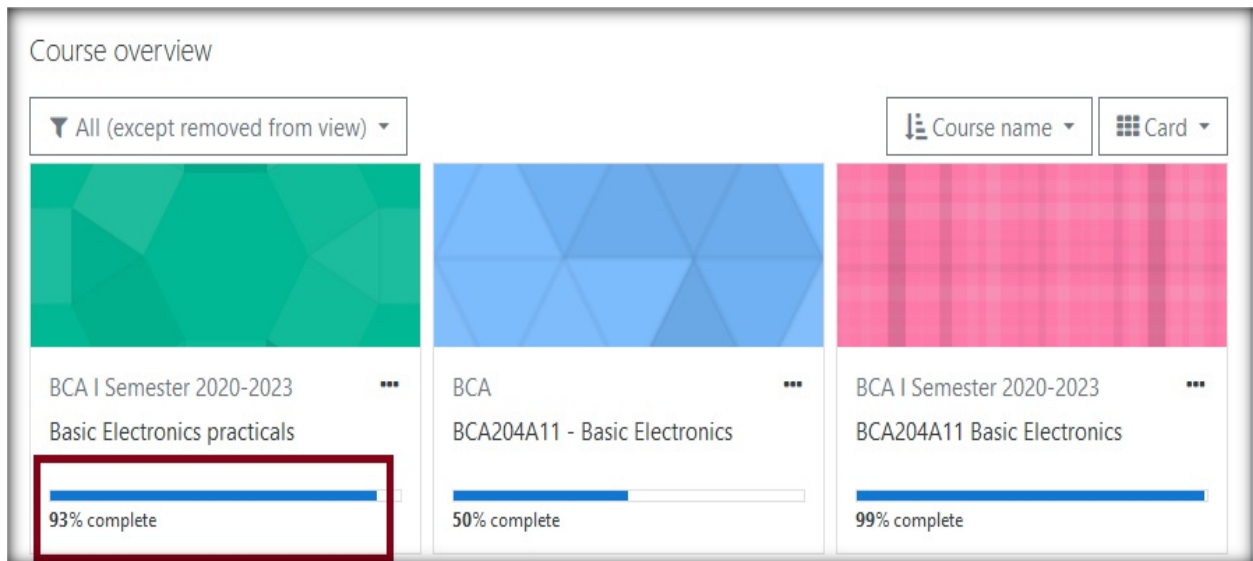
Dashboard is the personal page for each student, where they can customize and view their enrolled courses and outstanding tasks.



### Course overview page in the Dashboard

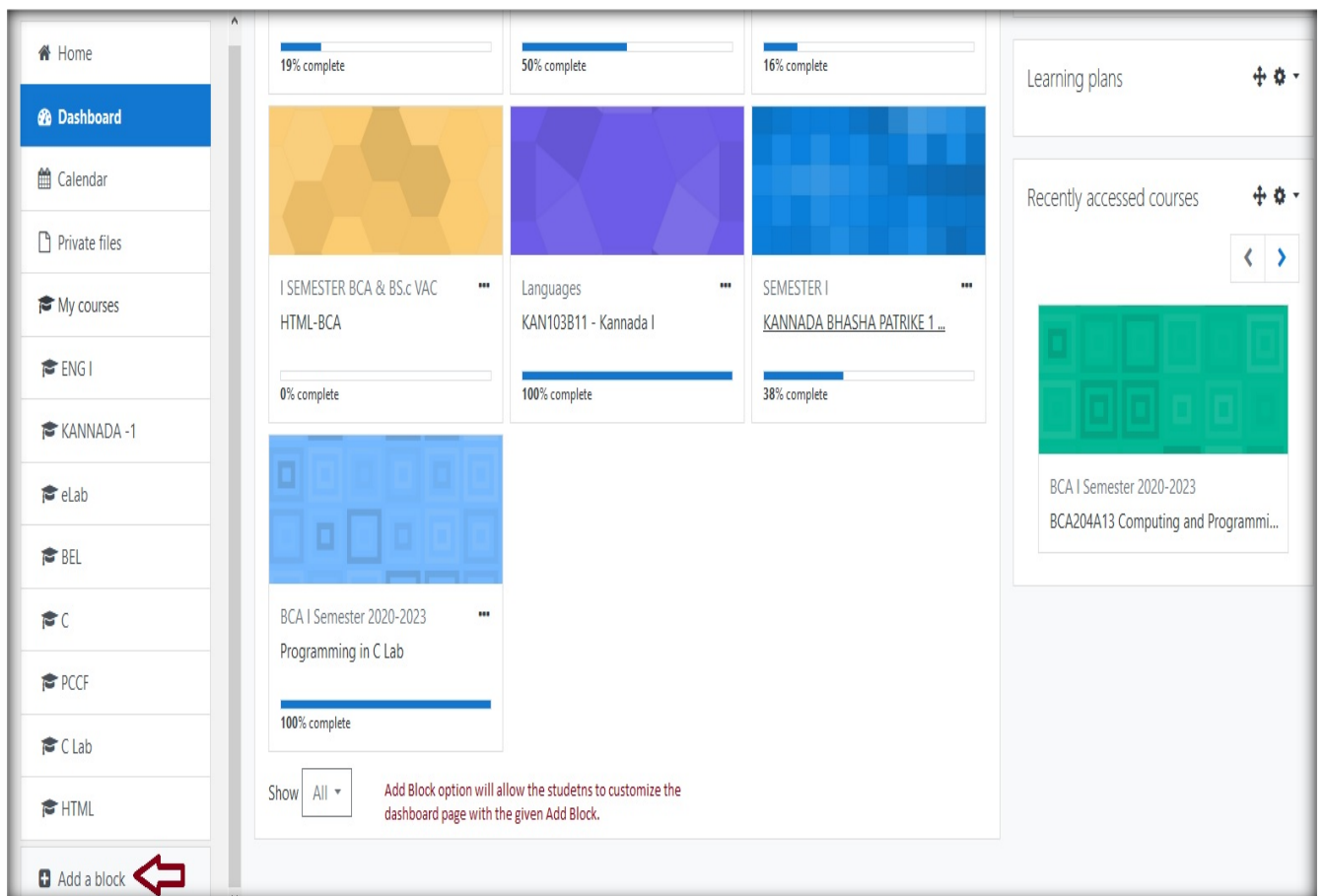


Dashboard access gives the opportunity to the students to view the progress of their course activity completion percentage.



### 3.1.5.1 Dashboard Customization

Students are allowed to customize the dashboard with respect to the view and Added Blocks.



KRISTU JAYANTI COLLEGE (AUTONOMOUS) - Affili...

Home

Dashboard

Calendar

Private files

My courses

ENG I

KANNADA -1

eLab

BEL

C

PCCF

C Lab

19% complete

I SEMESTER BCA & BS.c VAC  
HTML-BCA

0% complete

BCA I Semester 2020-2023  
Programming in C Lab

100% complete

Add a block

- Administration
- Comments
- Completion Progress
- Courses
- Global search
- HTML
- Latest announcements
- Latest badges
- Logged in user
- Mentees
- Navigation
- Poll

List of Blocks

Course overview

My courses

All (except removed from view)

Course name

Card

Added Course Block into the Dashboard Page

BCA I Semester 2020-2023  
Basic Electronics practicals  
93% complete

BCA  
BCA204A11 - Basic Electronics  
50% complete

BCA I Semester 2020-2023  
BCA204A11 Basic Electronics  
99% complete

- BCA204A11 - Basic Electronics
- BCA204A12 - Programming in C
- BCA204A13 - Computing and Programming Fundamentals
- ENG103A11 - English I (BCA / Bsc / BA)
- KAN103B11 - Kannada I
- English I
- KANNADA BHASHA PATRIKE 1 KAN103B11
- Basic Electronics practicals
- BCA204A11 Basic Electronics
- BCA204A12 Programming in C
- BCA204A13 Computing and Programming Fundamentals
- Programming in C Lab
- HTML-BCA