DAVU-LMS: A Customized Learning Management System for DAV University


"Transforming Dreams into Achievements: Elevate Your Teaching/Learning Experience with DAVU-LMS"

1. Introduction

The DAV University Learning Management System (DAVU-LMS) stands as a pioneering initiative in transforming digital education and assessment management at DAV University. Customized from the open-source Moodle platform, DAVU-LMS is specifically designed to align with the university's academic goals and institutional requirements.

Serving a user base of over 180 faculty members and more than 4500 students, and hosting more than 1200 courses, DAVU-LMS is a robust, flexible, and efficient system. It offers comprehensive features to enhance the teaching-learning experience, streamline examination processes, and ensure academic integrity.
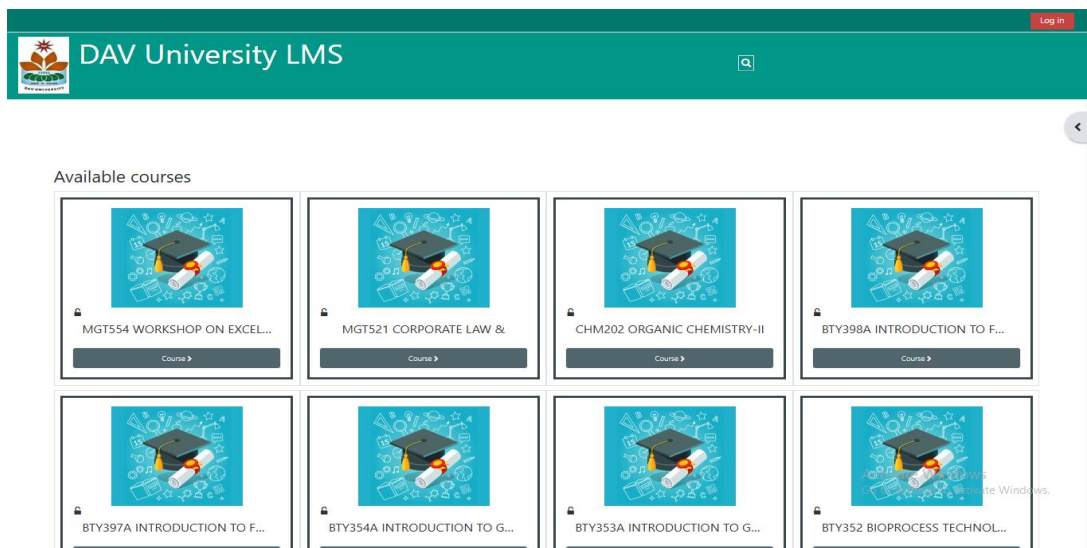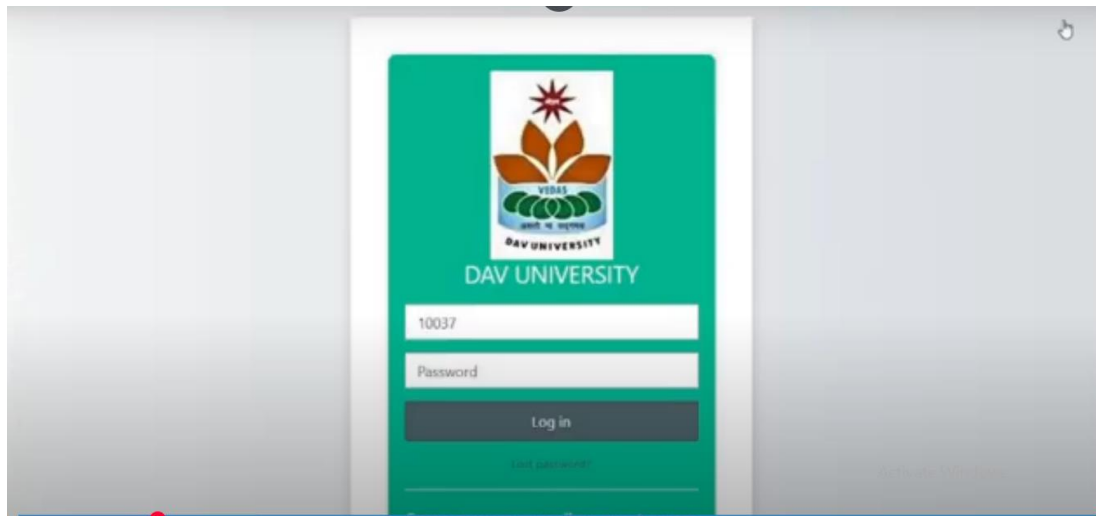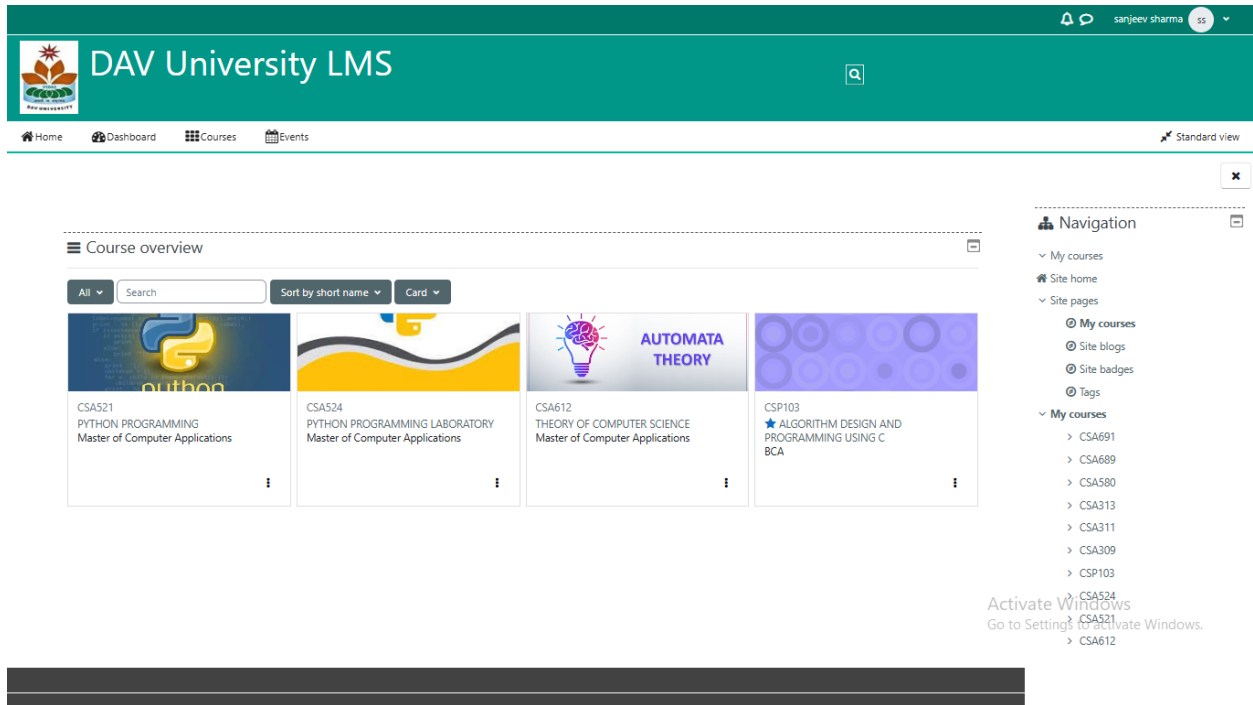

Screenshots: DAVU-LMS Login Page

2. Key Features of DAVU-LMS

2.1 User-Friendly Interface

DAVU-LMS presents a clean and intuitive interface, making it accessible and easy to navigate for both instructors and students.

Faculty View

Screenshot: DAVU-LMS Dashboard (Faculty and Student View)

2.2 Course Management

Teachers can design rich, engaging courses using various content formats like documents, videos, links, and interactive activities. These resources are organized within weekly or topic-based modules.

🔔 💬   sanjeev sharma   SS ▾

THEORY OF COMPUTER SCIENCE

🔍

🏠 Home   🗗 Dashboard   ⊞ Courses   📅 Events   ⛓ This course   ⚙ ▾   ✖ Standard view

CSA612

Course   Settings   Participants   Grades   Reports   More ▾

❯ General   Collapse all

⌄ Automata Theory and Regular Languages

🔗   DFA for language having strings starting with ab

🔗   Finite Automata with output

This video contains an overview of finite automata with outputs (Moore and Mealy machines)

🔗   Operations on Regular Languages

This video contains an overview of Union, Intersection and Complement operations in Regular languages.

🔔 💬   sanjeev sharma   SS ▾

NATURAL LANGUAGE PROCESSING

🔍

🏠 Home   🗗 Dashboard   ⊞ Courses   📅 Events   ⛓ This course   ⚙ ▾   ✖ Standard view

CSA691

Course   Settings   Participants   Grades   Reports   More ▾

❯ General   Collapse all

❯ Topic 1

❯ Topic 2

⌄ Topic 3

🔲   Word sense disambiguation introduction

This chapter contains the basic definition of SWD and commonly used approaches.

🔲   WSD 2

This is research article and contains introduction about selection restriction based approach (special case of dictionary based approach)
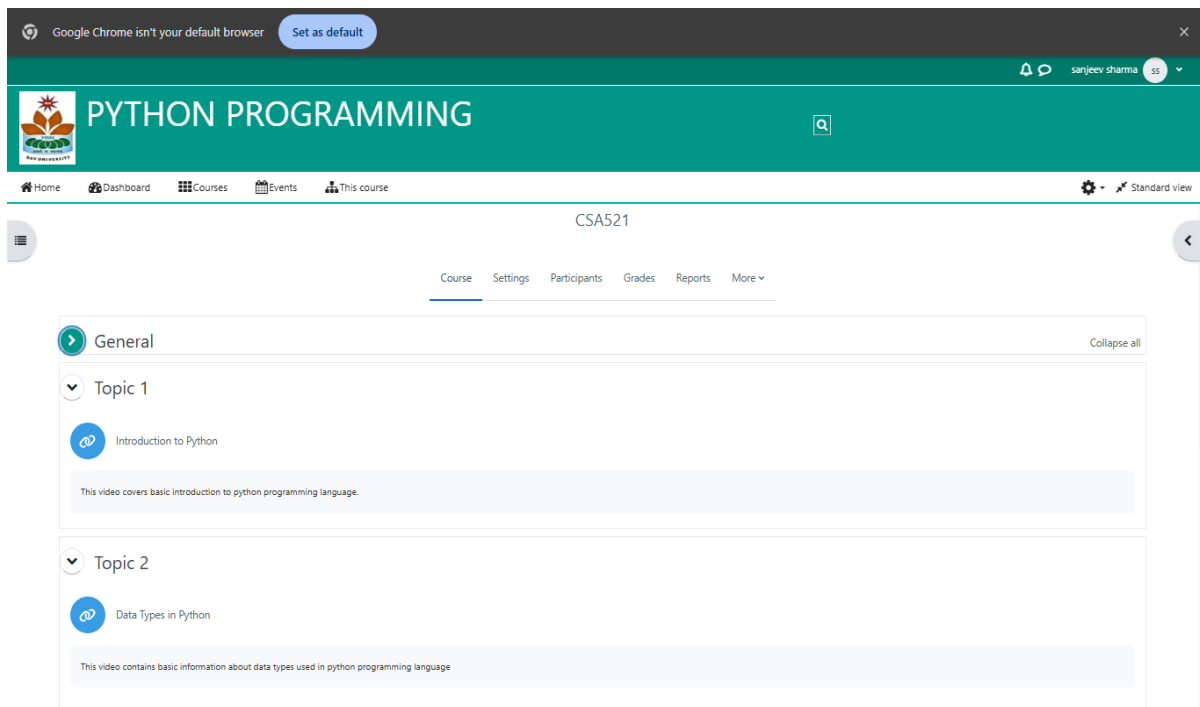
Screenshot: Course Homepage with Weekly Modules and Resources

2.3 Communication Tools

The platform supports forums, wikis, chat rooms, and group messaging to promote interaction and collaborative learning.

Screenshot: Active Forum Discussion Page

3. Examination Management System
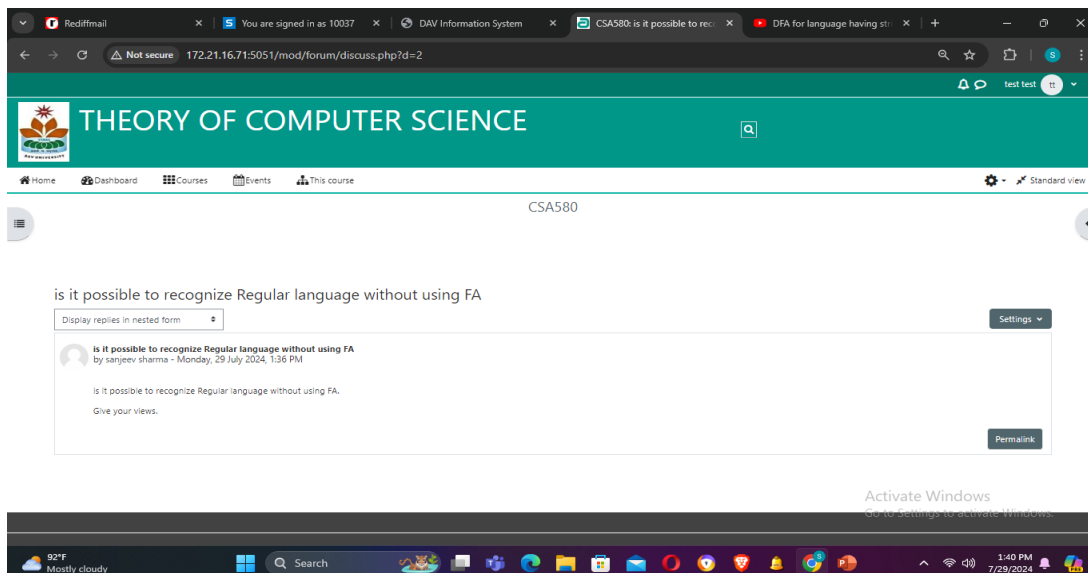
DAVU-LMS revolutionizes the examination system with seamless integration of assignments and quizzes. These features are designed to support remote learning and hybrid classrooms with robust integrity and fairness.

3.1 Online Assignments Management

- Faculty can create individual or group assignments.
- Set deadlines and control late submissions.
- Receive student submissions directly through the platform.
- Assess using detailed rubrics.

🏠 Home   Dashboard   Courses   Events   This course   Standard view

Automata Theory and Regular Languages

Assignment 1 : Design a DFA that accept the language over {0,1} and has string length 2   Mark as done
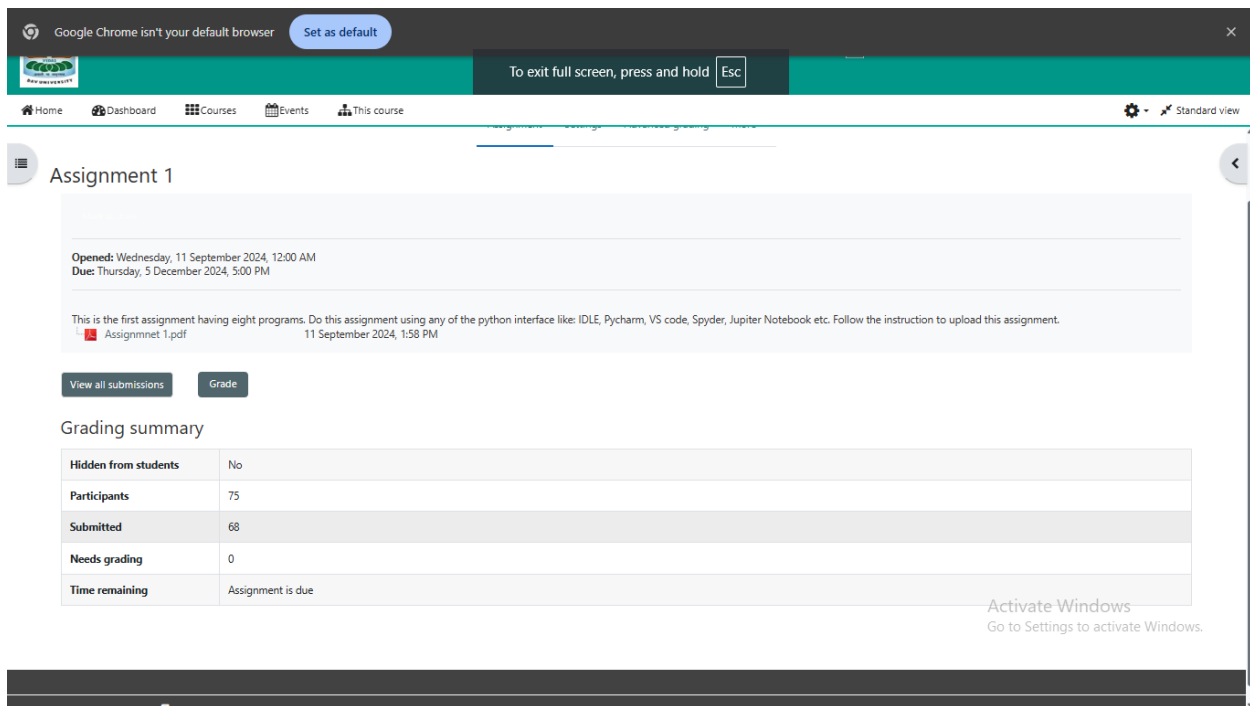
Opened: Sunday, 28 July 2024, 12:00 AM

Due: Sunday, 4 August 2024, 12:00 AM

Draw neat and clean transition state diagram.

Write transitions used in this DFA.

Write transition table.

Write at least one test case to test your DFA (one for accepting the string and other for rejecting the string)

Context Free Grammars and Push Down Automata

Linear Bounded Automata (LBA) and Turing Machine

Activate Windows
Go to Settings to activate Windows.

92°F
Mostly cloudy   Search   1:16 PM
                                                                     7/29/2024

Screenshot: Assignment Creation Page

Google Chrome isn't your default browser   Set as default   ✕

To exit full screen, press and hold Esc

🏠 Home   Dashboard   Courses   Events   This course   ⚙   Standard view

Assignment 1

Opened: Wednesday, 11 September 2024, 12:00 AM
Due: Thursday, 5 December 2024, 5:00 PM

This is the first assignment having eight programs. Do this assignment using any of the python interface like: IDLE, Pycharm, VS code, Spyder, Jupiter Notebook etc. Follow the instruction to upload this assignment.
📄 Assignmnet 1.pdf   11 September 2024, 1:58 PM

[View all submissions]   [Grade]

Grading summary

Hidden from students	No
Participants	75
Submitted	68
Needs grading	0
Time remaining	Assignment is due

Activate Windows
Go to Settings to activate Windows.

Due: Friday, 1 March 2024, 3:00 PM

Introduction to computer graphics using C programming language :

- **Initializing graphics (graphics mode and graphics driver)**
- **Using graphics header file**
- **Using inbuild graphics functions like getmaxx(), getmaxy(), putpixel(), getpixel(),setcolor(), getcolor() etc.**

Init_Graphics.mp4   1 March 2024, 10:22 AM

View all submissions   Grade

Grading summary

Hidden from students	No
Participants	40
Submitted	29
Needs grading	25
Time remaining	Assignment is due

Screenshots: Student Submission Page

Assignment 1

Back   Download all submissions

Submissions

Grading action   Choose...

First name   All A B C D E F G H I J K L M N O P Q R S T U V W X Y Z
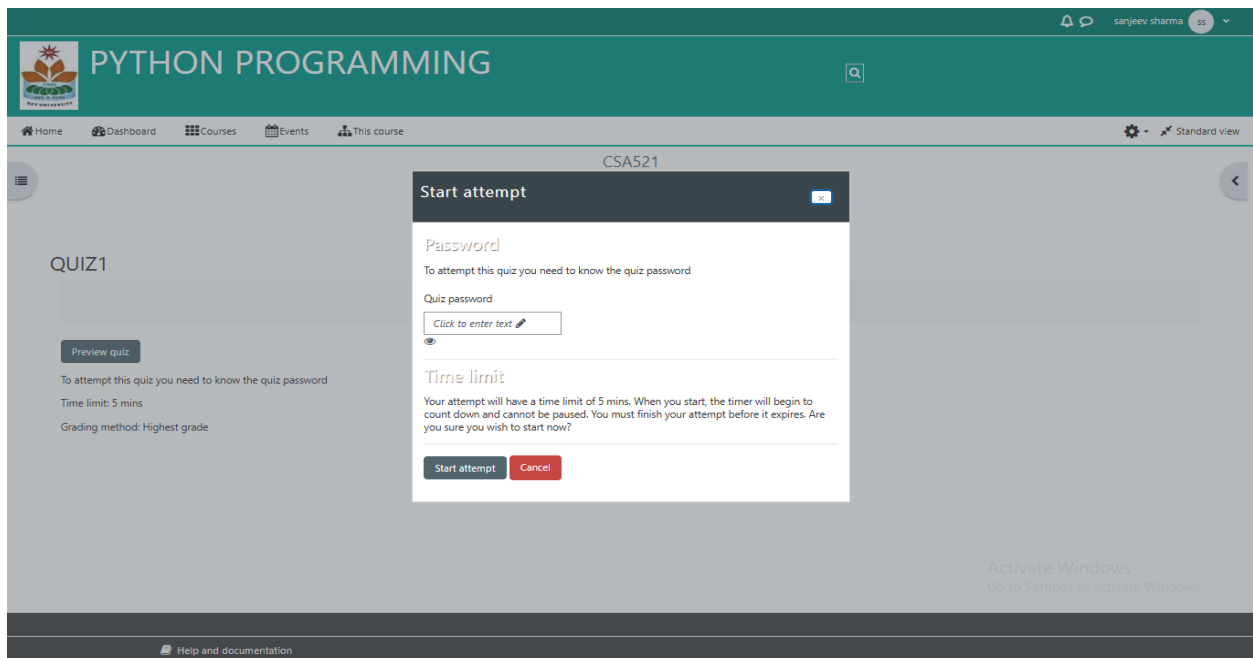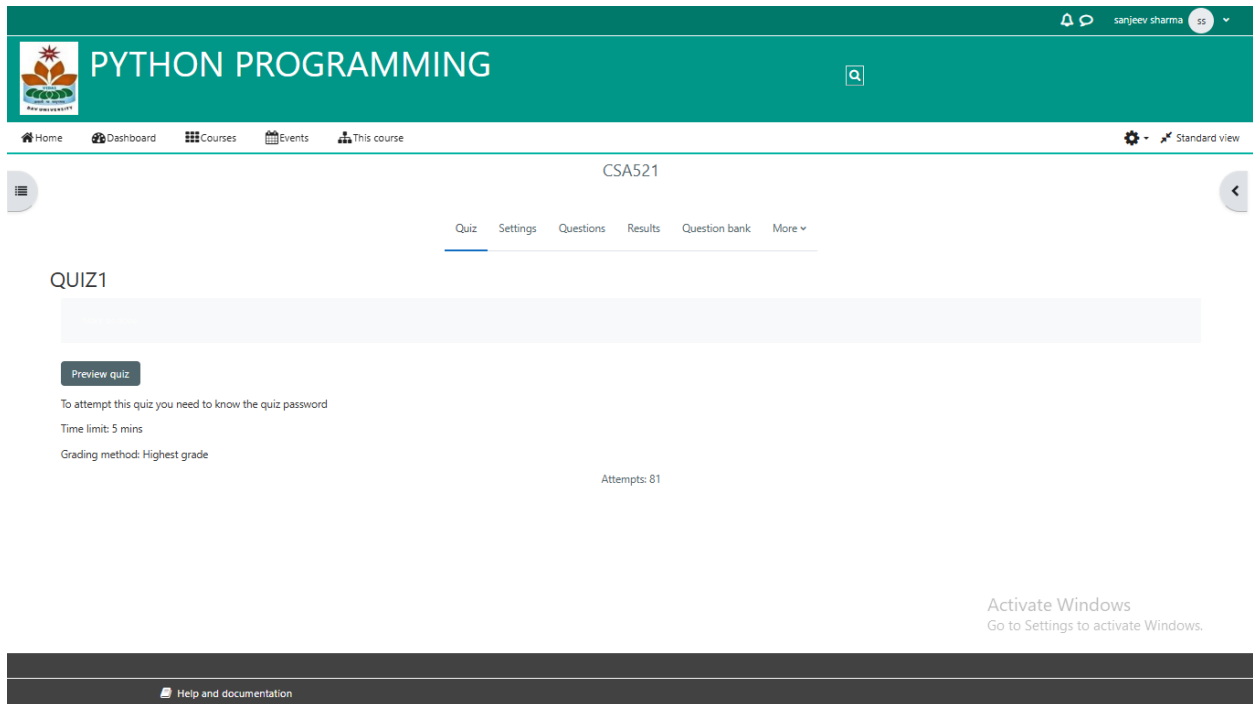Last name   All A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

1 2 3 4 5 6 7 »

Select	User picture	First name / Last name	Username	ID number	Status	Grade	Edit	Last modified (submission)	File submissions	Submission comments	Last modified (grade)	Feedback comments	Annotate PDF	Final gr
☐	MJ	Megha_1 Jasrotia	12402582		Submitted for grading Graded	Grade 80.00 / 100.00	Edit ⌄	Wednesday, 4 December 2024, 4:09 PM	Megha(12402582).pdf 4 December 2024, 4:09 PM	Comments (0)	Friday, 3 January 2025, 1:50 PM			80.00 /
☐	AD	Arti Devi	12401480		Submitted for grading Graded	Grade 80.00 / 100.00	Edit ⌄	Wednesday, 18 September 2024, 3:41 PM	Arti (12401480).pdf 18 September 2024, 3:41 PM	Comments (0)	Friday, 3 January 2025, 1:50 PM			80.00 /
☐	K.	Komal .	12401431		Submitted for grading Graded	Grade 80.00 / 100.00	Edit ⌄	Wednesday, 11 September 2024, 3:58 PM	komal (12401431).docx 11 September 2024, 3:58 PM	Comments (0)	Friday, 3 January 2025, 1:51 PM			80.00 /
☐	C.	Cherry .	12401322		Submitted for grading	Grade 80.00 / 100.00	Edit ⌄	Monday, 16 September 2024, 4:19	Cherry(12401322).pdf 16 September 2024, 4:19 PM	Comments (0)	Friday, 3 January 2025,			80.00 /

Screenshot: Evaluation Interface

3.2 Conducting Secure Online Quizzes

- Safe Exam Browser (SEB) integration ensures security.
- Shuffle questions and answers to prevent cheating.
- Restrict quiz access to particular students or groups.

Screenshot: Quiz Settings Page

Screenshot: Student View during Quiz

4. Question Bank

DAVU-LMS hosts a versatile question bank allowing instructors to create and reuse questions across courses.

Supported question types include:

- Multiple Choice
- True/False
- Matching
- Short Answer
- Essay
- Numerical
- Calculated
- Drag and Drop
- Embedded Answers (Cloze)
- Random Short-Answer Matching
- Select Missing Words
- Description

COMPUTER GRAPHICS AND MULTIMEDIA

Home · Dashboard · Courses · Events · This course

Standard view

> CSA309 > Question bank > Questions

Course · Settings · Participants · Grades · Reports · More

Questions

Question bank

Select a category: Default for CSA309 (49)

The default category for questions shared in context 'CSA309'.

No tag filters applied

Filter by tags...

Show question text in the question list? No

Search options
☐ Also show questions from subcategories
☑ Also show old questions

Create a new question ...

	Question Question name / ID number	Actions	Status	Version	Created by First name / Last name / Date	Comments	Needs checking?	Facility index	Discriminative efficiency	Usage	Last used	Modified by First name / Last name / Date
☐	A curve that actually pass through the control points is called:	Edit	Ready	v1	sanjeev sharma 3 May 2024, 10:34 AM	0	-	N/A	N/A	0	Never	sanjeev sharma 3 May 2024, 10:34 AM
☐	Axonometric projection is a type of .... projection	Edit	Ready	v1	sanjeev sharma 3 May 2024, 10:31 AM	0	-	N/A	N/A	0	Never	sanjeev sharma 3 May 2024, 10:31 AM

To exit full screen, press and hold Esc

Home · Dashboard · Courses · Events · This course

Standard view

☐ Also show questions from subcategories
☑ Also show old questions

Create a new question ...

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☐	A curve that actually pass through the control points is called:	Edit	Ready	v1	sanjeev sharma 3 May 2024, 10:34 AM	0	-	N/A	N/A	0	Never	sanjeev sharma 3 May 2024, 10:34 AM
☐	Axonometric projection is a type of .... projection	Edit	Ready	v1	sanjeev sharma 3 May 2024, 10:31 AM	0	-	N/A	N/A	0	Never	sanjeev sharma 3 May 2024, 10:31 AM
☐	Axonometric projection is a type of .... projection	Edit	Ready	v1	sanjeev sharma 3 May 2024, 10:34 AM	0	-	N/A	N/A	0	Never	sanjeev sharma 3 May 2024, 10:34 AM
☐	Cavalier projection is a type of .... projection	Edit	Ready	v1	sanjeev sharma 3 May 2024, 10:34 AM	0	-	N/A	N/A	0	Never	sanjeev sharma 3 May 2024, 10:34 AM
☐	Depth-sorting method for removing hidden surfaces is:	Edit	Ready	v1	sanjeev sharma 3 May 2024, 10:31 AM	0	-	N/A	N/A	0	Never	sanjeev sharma 3 May 2024, 10:31 AM
☐	Display file is used in:	Edit	Ready	v1	sanjeev sharma 3 May 2024, 10:31 AM	0	-	N/A	N/A	0	Never	sanjeev sharma 3 May 2024, 10:31 AM
☐	Fast Phong shading speed up the Phong shading by:	Edit	Ready	v1	sanjeev sharma 3 May 2024, 10:31 AM	0	-	N/A	N/A	0	Never	sanjeev sharma 3 May 2024, 10:31 AM
☐	For animation, the phosphorus used should have:	Edit	Ready	v1	sanjeev sharma 3 May 2024, 10:31 AM	0	-	N/A	N/A	0	Never	sanjeev sharma 3 May 2024, 10:31 AM
☐	Frame buffer is located on:	Edit	Ready	v1	sanjeev sharma 3 May 2024, 10:31 AM	0	-	N/A	N/A	0	Never	sanjeev sharma 3 May 2024, 10:31 AM
☐	Gouraud shading technique of surface rendering suffers from:	Edit	Ready	v1	sanjeev sharma 3 May 2024, 10:31 AM	0	-	N/A	N/A	0	Never	sanjeev sharma 3 May 2024, 10:31 AM
☐	In Bresenham's Line drawing algorithm iterations are done for:	Edit	Ready	v1	sanjeev sharma 3 May 2024, 10:31 AM	0	-	N/A	N/A	0	Never	sanjeev sharma 3 May 2024, 10:31 AM
☐	In Bresenham's Line drawing algorithm iterations are done for:	Edit	Ready	v1	sanjeev sharma 3 May 2024, 10:35 AM	0	-	N/A	N/A	0	Never	sanjeev sharma 3 May 2024, 10:35 AM
☐	In cabinet projection, the direction of projection makes an ....angle with...	Edit	Ready	v1	sanjeev sharma 3 May 2024, 10:34 AM	0	-	N/A	N/A	0	Never	sanjeev sharma 3 May 2024, 10:34 AM
☐	In cavalier projection, the direction of projection makes an ....angle ...	Edit	Ready	v1	sanjeev sharma 3 May 2024, 10:34 AM	0	-	N/A	N/A	0	Never	sanjeev sharma 3 May 2024, 10:34 AM
☐	In Cohen-Sutherland line clipping algorithm a line is completely outside the ...	Edit	Ready	v1	sanjeev sharma 3 May 2024, 10:34 AM	0	-	N/A	N/A	0	Never	sanjeev sharma 3 May 2024, 10:34 AM
☐	In Cohen-Sutherland line clipping algorithm a line is inside				sanjeev sharma							sanjeev sharma

Screenshot: Question Bank Interface Showing Categories and Questions

5. Gradebook Management

The Gradebook feature acts as a central repository for all grading and performance tracking.

5.1 Efficient Grade Management

- Faculty can input and modify grades.
- Students can view grades and feedback.

Screenshot: Gradebook Overview Page (Faculty View)

6. Administrative Flexibility
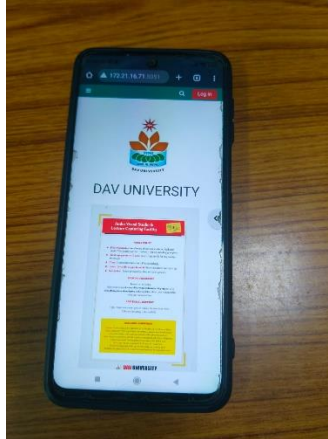
Administrators can:

- Manage user roles and permissions.
- Customize themes and branding.
- Monitor overall system usage and reports.
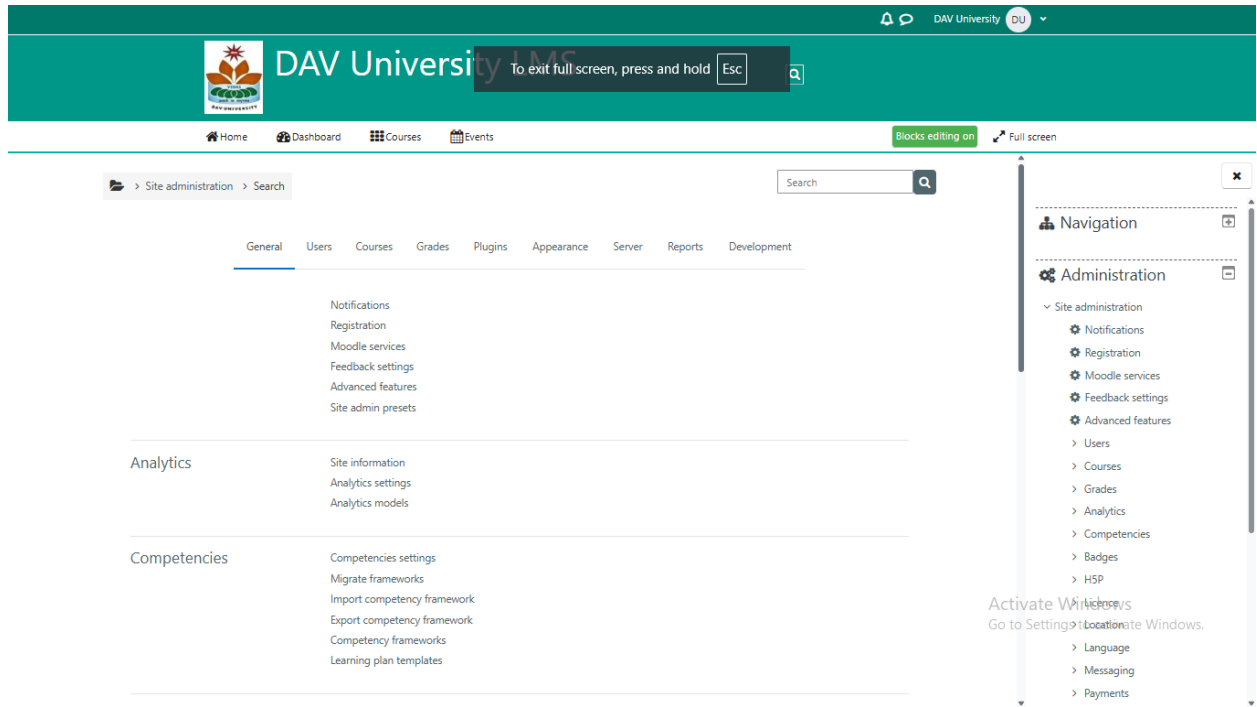
Screenshot: Admin Dashboard Showing User Management & Settings

7. Mobile Accessibility

DAVU-LMS is fully responsive and accessible on mobile devices via browser or Moodle mobile app, ensuring learning on-the-go.

Screenshot: DAVU-LMS Mobile View on Smartphone

8. Conclusion

DAVU-LMS represents a significant leap toward digital education excellence at DAV University. With its user-centric design, robust assessment tools, and powerful analytics, the platform not only simplifies the teaching-learning process but also elevates academic integrity and efficiency.

As we continue to refine and expand the capabilities of DAVU-LMS, it stands as a model of how technology can effectively support modern education, ensuring that both faculty and students thrive in a digital-first academic environment.