



Curriculum Implementation and Assessment Norms (CIAAN)

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Abstract:

The Maharashtra State Board of Technical Education (MSBTE) is an autonomous board of education in the state of Maharashtra India. It designs and implements diploma, post diploma and advanced diploma programs to affiliated institutions. The board was established in 1963 to cater the increasing needs of affiliated institutions and their students. MSBTE always tries to provide quality education to the admitted students in affiliated colleges. For ensuring the quality work from affiliated colleges every year MSBTE asks for the different types of reports from the colleges.

Keywords: Affiliated, Assessment, CIAAN, Curriculum, D-Formats, Norms.

I. INTRODUCTION

Curriculum is the total plan of intent designed and implemented with predetermined goals. The scientific based curriculum designed by MSBTE covers these aspects in its curriculum documents. The quality of diploma pass outs as expected by the industries is reflected in the form of knowledge, skills, abilities and attitudes acquired by the students. While designing the curriculum for diploma program, such knowledge and skills to be developed in students have been identified. The teaching - learning process adopted provides a key to development of knowledge, skills and attitudes amongst the students. Providing opportunities to the students in acquiring the desired skills is the key factor in implementing the curriculum. To ensure effective implementation of the curriculum, there is a need of establishing a mechanism at the state level and institute level. Proper monitoring through internal and external committees is expected to provide guidance and support in improving the implementation. The purpose of the students' assessment is to guide them in improving their performance. This assessment has to be based on appropriate criteria as applicable to different subjects

This section elaborates the philosophy adopted in Curriculum Design, the mechanism for curriculum implementation and approach for assessment of students' performance. We are going to develop a web application which will consists of facility to prepare the different reports for MSBTE such as -

- D1. Teaching Plan.
- D2. Laboratory Assignment / Project Plan (LP).
- D3. Progressive Assessment of Practical
- D4. Internal /External Assessment of Practical.
- D5. Progressive Assessment of Theory.
- D6. Analysis of Term End Examination Result
- D7. Details of Industrial / Vacation Training.
- D8. Details of expert Lecture.
- D9 . Details of Placements.
- D10 . Details of Staff / Faculty Training.

- D11. Details of Resources Development.
- D12. Details of Co-Curricular Activities.
- D13. Details of Extra-Curricular Activities.
- D14. Students Feedback .
- D15. Facilities Available In Department.

II.WORKING OF PROJECT:

Modules to be implemented:-

The proposed system has to be divided into two parts

- A) Admin
- B) End User

A) Admin:

Admin part will be developed into web based technologies like HTML, CSS, PHP and will consist of following modules-

1) Security:

In this module login facility will be provided to the admin. Only authorized person can access this admin panel.

2) Master Module:

In this module facility will be provided for inserting and managing the details of faculties and students and academic year calendar.

3) User Management:

In this module facility will be provided to check the number of registered user and to manage them.

4) Reports:

In this module facility will be provided to create the different types of reports.

B) End User:

The second part of the project will be useful for the traffic police and have to be implemented in Android platform. This part will be consists of the modules like-

1) Teaching plan:

In this module facility will be provided to prepare theory and practical teaching plan.

2) Time table:

In this module facility will be provided to prepare time table for internal and external examination.

1. Teaching Plan

The screenshot shows a web interface for inserting a teaching plan. At the top, there are navigation tabs: Program, Course, Batches, Subject, and Experiment. On the left, there is a logo of the institution and a sidebar menu with 14 items, including 'Teaching Plan' (D1), 'Laboratory Assignment / Project Plan (LP)' (D2), 'Progressive Assessment Practices' (D3), 'Internal / External Assessment of practical' (D4), 'Progressive Assessment of Theory' (D5), 'Analysis of term end examination Result' (D6), 'Details of Industrial/vocational Training' (D7), 'Details of Expert lecture' (D8), 'Details of placement' (D9), 'Details of staff / Faculty Training' (D10), 'Details of Resources Development' (D11), 'Details of co-curricular Activities' (D12), 'Details of extra-curricular Activities' (D13), and 'Facilities Available in Department' (D14). The main form area is titled 'Insert Teaching Plan' and contains the following fields: Academic Year (text input), Program Name (text input), Course Name (text input), Course Code (text input), Semester (text input), Chapter No Allocated Hours (text input), CO (text input), COO (text input), UO (text input), Title/Details (text input), Plan (text input), Actual Execution (text input), Teaching Method/media (text input), and Remarks (text input). A 'Submit' button is located at the bottom of the form.

Figure.1. Teaching Plan

2. Laboratory Assignment / Project Plan (LP).

The screenshot shows a web interface for inserting a laboratory assignment or project plan. It features the same navigation tabs and sidebar menu as Figure 1. The main form area is titled 'Insert Lab Assignment Plan' and contains the following fields: Academic year (text input), Program (text input), Course (text input), Course code (text input), Semester (text input), Name of faculty (text input), Batches (text input), CO (text input), PRG (text input), Name Of Experiment/Assignment/Sheet/job/project Activity (text input), Planned date (text input), Actual date (text input), and Remarks (text input). A 'Submit' button is located at the bottom of the form.

Figure.2. Laboratory Assignment / Project Plan (LP).

4. Internal /External Assessment of Practical.

Program Course Batches Subject Experiment

Dashboard | View Records | Logout

End Semester Examination Assessment Of Practicals(External / Internal)

Academic Year:

Program Name:

Course:

Course Code:

Semester:

Name Of Faculty:

MarksMax:

MarksMin:

Date Of Examination:

EnrollmentNo:

Name Of Student:

ExamSeat No:

Marks Obtained In Oral As Per TE Scheme:

Figure.3. Internal /External Assessment of Practical.

7. Details of Industrial / Vacation Training.

Home | View Records | Logout

Insert Details of industrial visit/vacational training

Academic Year:

Program:

Name of industry&contact details:

Semester:

Course Name:

Name of coordinator:

Date of conduction of activity:

No of beneficiaries:

Relevance to PO's&PEO's:

Figure.4. Details of Industrial / Vacation Training.

8. Details of expert Lecture.

Project: EDDON

Program Course Batches Subject Experiment

Dashboard | [View Records](#) | [Logout](#)

Details Of Expert Lectures

Academic Year:

Program Name:

Name Of Expert Contact Details:

Topic:

CourseCode&CO No:

Semester:

Name Of Coordinator:

Date Of Conduction Of Activity:

No Of Beneficiaries:

Relevance To PO&PEO:

Forms Format

- D1:Teaching Plan
- D2:labarotory Assignment / project plan(LP)
- D3:progressive Assessment Practicals
- D4:Internal / External Assessment of practical
- D5:progressive Assessment of theory
- D6:Analysis of term end examination Result
- D7:Details of Industrial/vacational Training
- D8:Details of Expert lecture
- D9:Details of placement
- D10:Details of staff / Faculty Training
- D11:Details of Resources Development
- D12:Details of co-curricular Activities
- D13:Details of extra-curricular Activities
- D14:facilities Available in Department

Figure.5. Details of expert Lecture.

9. Details of Placements.

Program Course Batches Subject Experiment

Dashboard | [View Records](#) | [Logout](#)

Insert details of placement

Academic Year:

Program:

Name of industry:

No of students placed:

Salary offered:

Forms Format

- D1:Teaching Plan
- D2:labarotory Assignment / project plan(LP)
- D3:progressive Assessment Practicals
- D4:Internal / External Assessment of practical
- D5:progressive Assessment of theory
- D6:Analysis of term end examination Result
- D7:Details of Industrial/vacational Training
- D8:Details of Expert lecture
- D9:Details of placement
- D10:Details of staff / Faculty Training
- D11:Details of Resources Development
- D12:Details of co-curricular Activities
- D13:Details of extra-curricular Activities

Figure.6. Details of Placements.

10. Details of Staff / Faculty Training.

Program Course Batches Subject Experiment

Dashboard | View Records | Logout

Details Of Faculty/Staff Training

Academic Year:

Program Name:

Name Of Staff/Faculty:

Details Of Training:

Duration Of Training:

Organizing Body:

Organizing Institute:

Relevance With PEO&PO&CO with CourseCode:

D1:Teaching Plan
D2:laboratory Assignment / project plan(LP)
D3:progressive Assessment Practicals
D4:Internal / External Assessment of practical
D5:progressive Assessment of theory
D6:Analysis of term end examination Result
D7:Details of Industrial/vacational Training
D8:Details of Expert lecture
D9:Details of placement
D10:Details of staff / Faculty Training
D11:Details of Resources Development
D12:Details of co-curricular Activities
D13:Details of extra-curricular Activities
D14:facilities Available in Department

Figure.7. Details of Staff / Faculty Training

11. Details of Resources Development.

Project: CIAAN

Program Course Batches Subject Experiment

Home | View Records | Logout

Insert details of resources development

Academic Year:

Program:

Details of resources:

Relevance to PEO/CO with coursecode:

Budget allocated:

Budget utilized:

D1:Teaching Plan
D2:laboratory Assignment / project plan(LP)
D3:progressive Assessment Practicals
D4:Internal / External Assessment of practical
D5:progressive Assessment of theory
D6:Analysis of term end examination Result
D7:Details of Industrial/vacational Training
D8:Details of Expert lecture
D9:Details of placement
D10:Details of staff / Faculty Training
D11:Details of Resources Development
D12:Details of co-curricular Activities
D13:Details of extra-curricular Activities

Figure.8. Details of Resources Development

12. Details of Co-Curricular Activities

Program Course Batches Subject Experiment

Dashboard | [View Records](#) | [Logout](#)

Insert Details Of Co-Curricular Activity

Academic Year:

Program:

Type of activity and details:

Date:

Name of participating student:

Organizing body and institute:

Awards:

Level:

Relevance to PEO/PO/CO with coursecode:

Forms Format

- D1:Teaching Plan
- D2:laboratory Assignment / project plan(LP)
- D3:progressive Assessment Practicals
- D4:Internal / External Assessment of practical
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- D7:Details of Industrial/vacational Training
- D8:Details of Expert lecture
- D9:Details of placement
- D10:Details of staff / Faculty Training
- D11:Details of Resources Development
- D12:Details of co-curricular Activities
- D13:Details of extra-curricular Activities

Figure.9. Details of Co-Curricular Activities

13. Details of Extra-Curricular Activities.

Project: CLAN

Program Course Batches Subject Experiment

Home | [View Records](#) | [Logout](#)

Insert Details Of Extra-Curricular Activity

Academic year:

program:

Type of activity:

Date:

Name of participating:

Organizing body and institute:

Award

Level:

Relevance to PEO/CO with coursecode:

Forms Format

- D1:Teaching Plan
- D2:laboratory Assignment / project plan(LP)
- D3:progressive Assessment Practicals
- D4:Internal / External Assessment of practical
- D5:progressive Assessment of theory
- D6:Analysis of term end examination Result
- D7:Details of Industrial/vacational Training
- D8:Details of Expert lecture
- D9:Details of placement
- D10:Details of staff / Faculty Training
- D11:Details of Resources Development
- D12:Details of co-curricular Activities
- D13:Details of extra-curricular Activities
- D14:facilities Available in Department

Figure.10. Details of Extra-Curricular Activities.

15 . Facilities Available In Department.

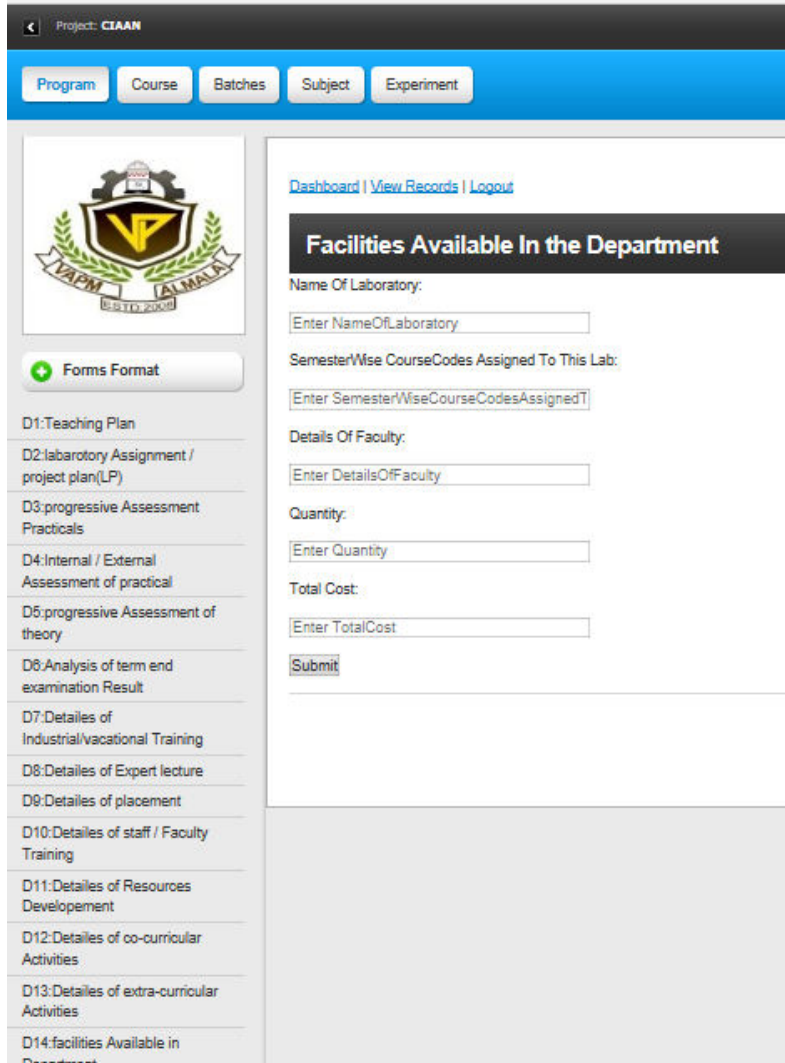


Figure.11. Facilities Available In Department

III. PROJECT FLOW:

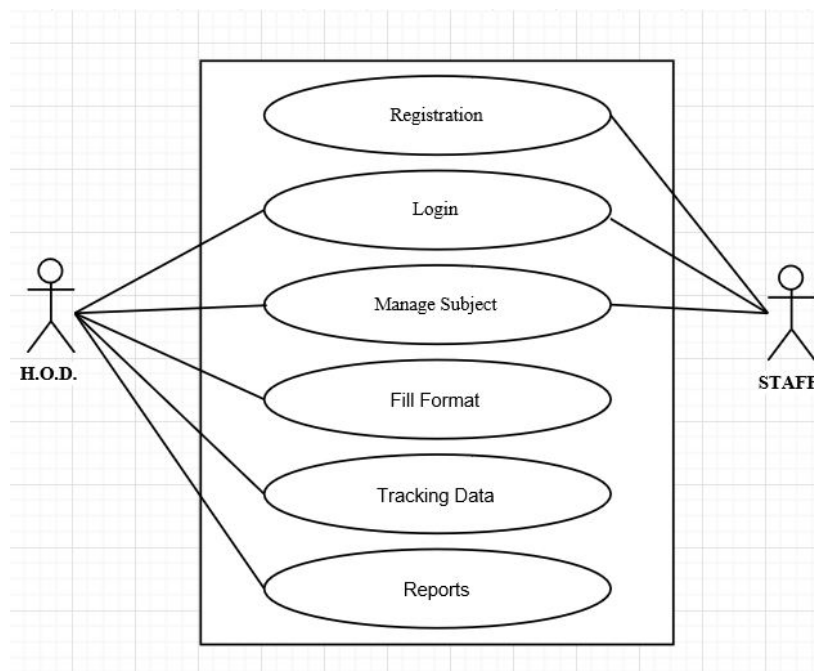


Figure.12. Use-Case Diagram

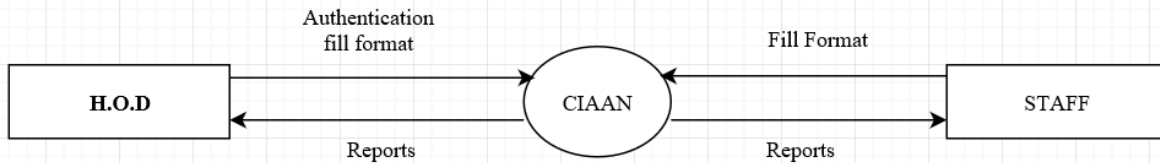


Figure.13. DFD level 0 Diagram

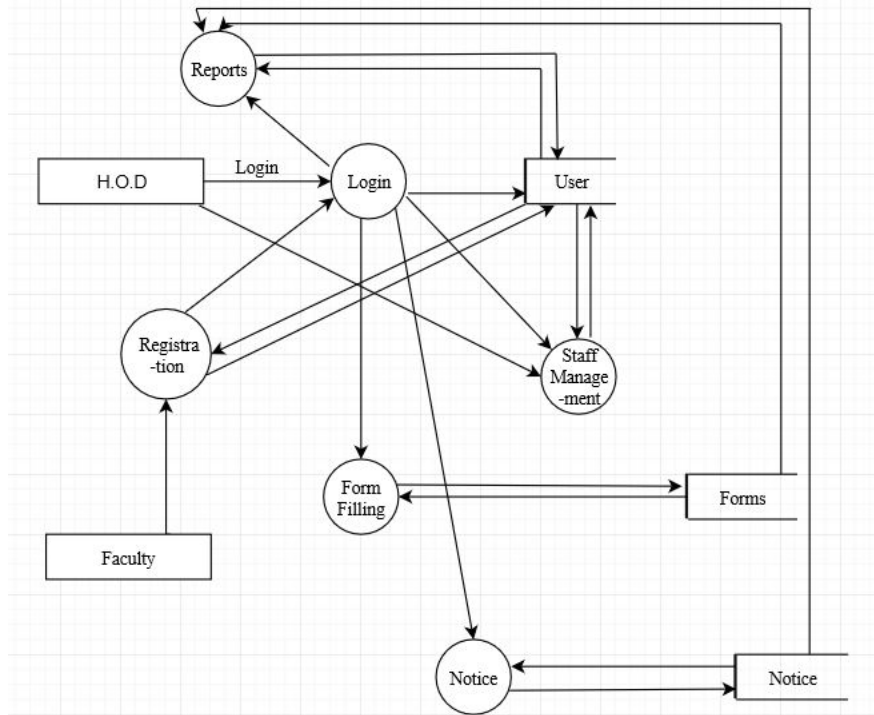


Figure.14. DFD level 1 Diagram

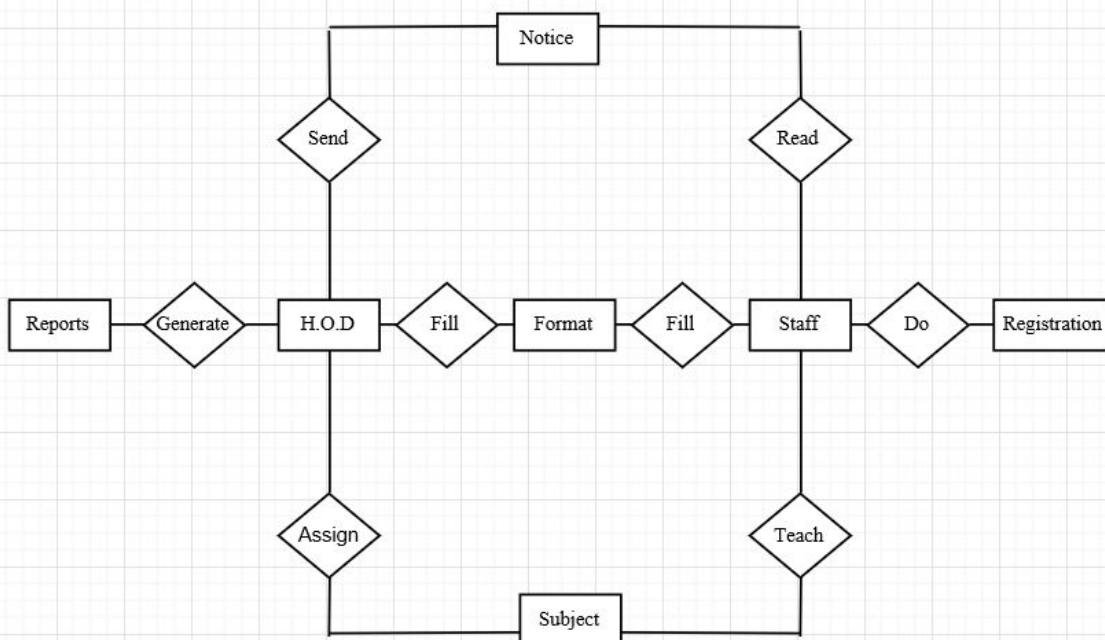


Figure.15. Entity Relationship Diagram

IV. FUTURE SCOPE:

With the help of our software it will be easy for the institute which grows into a large scale institute to maintain and handle the record, as everything will be online.

V. ADVANTAGES:

- 1) Easy to maintain records as everything is in the form of soft copy
- 2) Prevents the repetitive and manual work for each table
- 3) No need to maintain hard copies of the records therefore saves time and space
- 4) As everything is online and application based therefore making it much faster and easier way to view and edit the table

VI. CONCLUSION:

We have covered multiple points on how our application will make the Record maintenance system much easier to handle and to maintain. We recommend using this application on the institution level as it is time saving and much faster than traditional manual method.

VII. ACKNOWLEDGEMENT:

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VIII . REFERANCES:

[1] <http://www.studytonight.com/dbms/overview-ofdbms.php>

[2] <http://msbte.org.in/file/CIAAN%20Norms%202017.pdf>