



The South Indian Association's  
**The S.I.A. College of Higher Education**  
Affiliated to University of Mumbai  
ReAccredited B+ by NAAC  
P-88, MIDC Residential Area Dombivli Gymkhana Road,  
Near Balaji Mandir, Dombivli (East), 421203.

Date: 29/11/2023

### SIATechlink

### Project Completed during Academic Year 2022-2023

#### 1. E-Sanchalan (Examination update)

- The E-Sanchalan software updated for entering marks for all examination.
- This is linked with teacher's workload and subject taught for the semester.
- The mark-sheet is appearing in soft format where the teachers can enter marks for internal, external and practical examination.
- It is capable of handling data for various regular as well as ATKT examinations.

#### 2. SIA-Attendance

- The teachers need to enter lecture wise attendance in the system.
- They should also enter what is the cut off percentage below which they will be considered as defaulters.
- Automatically the reports mentioned in the objectives will be generated for a specific period of time as given as input by the user.
- The teacher prepares the teaching plan before the beginning of the semester deciding what topics to cover in which month. So while entering attendance she also confirms what part of the portion is covered in the lecture. Based on the lectures, topic taught, teaching plan is automatically generated specifying both how many lectures were planned, how many lectures actually took. In this way we are able to check whether we are adhering to the teaching plan prepared by the teacher.

SIATechlink-Head

(Tejaswini Shinkhan)



Principal  
PRINCIPAL

The S.I.A. College of Higher Education  
DOMBIVLI (E)

Screenshots:

### 1. E-Sanchalan (Examination update)

The screenshot shows the 'Attendance Application' section of the Online E-Sanchalan system. The user is logged in as TEJASWINI SHIVSHARAN. The dashboard includes a sidebar with navigation options: Dashboard, INPUT, PROCESS, REPORTS, NAAC, ACTIVITIES, and ATTENDANCE. The main content area lists the following options under 'Attendance Application Forms':

- Syllabus/Unit Entry Form
- Topic Entry Form
- Sub-Topic Entry Form
- Practical Batches
- Attendance Entry Form
- Exam Marks Entry
- Attendance Subject-Wise Report
- Attendance Overall Report

The screenshot shows the 'Marks Entry' section of the Online E-Sanchalan system. The user is logged in as TEJASWINI SHIVSHARAN. The interface includes a sidebar with navigation options: Dashboard, INPUT, PROCESS, REPORTS, NAAC, ACTIVITIES, and ATTENDANCE. The main content area displays a table for entering marks for the exam '1318 FYIT Regular Semester-I October-2023 [2023]'. The subject is '202300401002 Digital Logic and Applications'. The table has columns for Roll No, Seat No, Exam ID, and marks for questions Q1 through Q10, plus a Total column. A dropdown menu for 'Marks' is open, showing options: External, Select, Internal, External, and Practical.

Roll No	Seat No	Exam ID	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Total
IF23001	23410005	1318	10	8	8	7	8	0	0	0	0	0	41
IF23002	23410017	1318	15	11	3	6	0	0	0	0	0	0	35
IF23003	23410069	1318	8	15	15	5	0	0	0	0	0	0	43
IF23004	23410087	1318	15	10	6	6	3	0	0	0	0	0	40
IF23005	23410073	1318	15	9	7	0	3	0	0	0	0	0	34



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## 2. SIA-Attendance

**Subjectwise Report**

Select Year: 2023-24 | Select Semester: 1

Select Subject: FVT-Digital Logic and Applications | Select Division: All

Lecture Type: Theory | From Date: 2023-07-01 | To Date: 2023-11-29

**Generate Report** **View Report**

Lect.ID	Date	Type	Time	Division
14567	25-07-2023	Theory	11:50AM-12:40PM	B
14568	26-07-2023	Theory	11:00AM-11:50AM	B
14108	26-07-2023	Theory	11:50AM-12:40PM	A
14569	27-07-2023	Theory	11:00AM-11:50AM	B

**Teaching Plan**

Select Year: 2023-24 | Select Semester: 1

Select Subject: FVT-Digital Logic and Applications | Division: All

Lecture Type: Theory | **Create Teaching Plan** **View Report**

Planned Month	Taken Month	Course Outcome	Topic	Sub-Topic	Lecture Planned	Lecture Taken	Methodology Planned	Methodology Used
July	July	Apply number conversion techniques in real digital systems	UNIT 1 Digital Systems and Binary numbers	Introduction to Number systems, Positional Number systems, Conversions (converting	6	6	Problem Solving	InteractiveParticipative



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## The S.I.A College of Higher Education

### ATTAINMENT OF TEACHING PLAN

Lecture Planned: 61    Lecture Taken: 57    Attainment % : 93

Month	Course Outcome	Topic	Sub-Topic	Lecture Planned	Lecture Taken	Methodology Planned	Methodology Taken	Links	Remarks
July	Apply number conversion techniques in real digital systems	UNIT 1 Digital Systems and Binary numbers	Introduction to Number systems, Positional Number systems, Conversions (converting between bases), Non positional number systems, Unsigned and Signed binary numbers, Binary Codes, Number representation and storage in computer system.	6	5	Problem Solving	Interactive/Participative	Topic continued Topic continued	
August	Apply number conversion techniques in real digital systems	UNIT 1 Digital Systems and Binary numbers	Introduction to Number systems, Positional number systems, Conversions (converting between bases), Non positional number systems, Unsigned and Signed binary numbers, Binary Codes, Number representation and storage in computer system.	6	28	Problem Solving	Interactive/Participative	Topic continued Topic continued	
August	Apply number conversion techniques in real digital systems	UNIT 1 Logic gates and Logic Circuits	Basic and Universal Gates	6	2	Problem Solving	Interactive	Topic continued Topic continued	
September	Apply number conversion techniques in real digital systems	UNIT 1 Logic gates and Logic Circuits	Basic and Universal Gates	6	1	Problem Solving	Interactive	Topic continued Topic continued	
September	Solve boolean algebra expressions	UNIT 2 Boolean Algebra and Logic Gates	Introduction, Postulates of Boolean Algebra, Two Valued Boolean Algebra, Principle of Duality, Basic Theorems of Boolean Algebra, Boolean Functions and	6	11	Problem Solving	Interactive	Topic continued	

*Handwritten signature*





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P-88, MIDC Residential Area Dombivli Gymkhana Road,  
Near Balaji Mandir, Dombivli (East), 421203.

Date: 15/03/2022

To

The Principal  
The S.I.A. College of Higher Education

Sub: Proposal to update the examination software for assessment marks entry

Dear Mam


I, Mr.Sunil Gaonkar , would like to propose a update in Examination software. I would like to propose the update in existing examination software. The E-Sanchalan software updated for entering marks for all examination. This is linked with teacher's workload and subject taught for the semester. The mark-sheet is appearing in soft format where the teachers can enter marks for internal, external and practical examination. It is capable of handling data for various regular as well as ATKT examinations.

I would like to involve Mr. Harshad Gupta in the development of this software.

Thanking you

Regards



  
Mr.Sunil Gaonkar  
Admin Department,  
The S.I.A.College of Higher Education



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Near Balaji Mandir, Dombivli (East), 421203.

Dated: 22/03/2022

To  
Mr. Sunil Gaonkar

Sub: Acceptance of the Proposal for updating the examination software for assessment marks entry

Mam

With reference to your letter, I hereby approve your request to start working on for updating the examination software for assessment marks entry

Regards

Principal

The S.I.A. College of Higher Education

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**DOMBIVLI (E)**



To



The South Indian Association's  
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Affiliated to University of Mumbai  
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P-88, MIDC Residential Area Dombivli Gymkhana Road,  
Near Balaji Mandir, Dombivli (East), 421203.

Dated: 7/07/2022

To

The Principal

The S.I.A. College of Higher Education

Sub: Request for the update in examination software for assessment marks entry

For Demonstration and trial run

Dear Mam

I request you to give permission for implementing update the examination software for assessment marks entry for Demonstration and trial run.

Thanking you

Regards





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P-88, MIDC Residential Area Dombivli Gymkhana Road,  
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To

Date: 06/08/2022

Mr. Sunil Gaonkar,

Sub: Implement the update the examination software for assessment marks entry

Mam

This is to inform you that you your trial run is successful and you can now go ahead and implement the update the examination software for assessment marks entry Software in the college

Regards

*Padmaj*  
Principal



The S.I.A. College of Higher Education

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**SIA TechLink**

(IT Development Division)

The S.I.A. College of Higher Education, Dombivli (E)

<b>THE SOUTH INDIAN ASSOCIATION'S THE S.I.A. COLLEGE OF HIGHER EDUCATION (Affiliated to Mumbai University) NAAC Re-Accredited "B+" Grade Academic Year 2022-23</b>				
<b>Project Name</b>	E-Sanchalan Assesment marks entry (Examination update)			
<b>Guide Name</b>	Mr. Sunil Gaonkar,Mr.Harshad Gupta			
<b>Background</b>	Assesment marks entry is a very delicate and time consuming process. There is always a need for a dedicated staff to enter the marks for various examinations. The software has to provide a window to enter the marks exam-wise for the every assesment the faculty member has done according to his/her workload allotment.			
<b>Objectives</b>	To automize examination assessment marks entry through login sessions.			
<b>Scope of Work</b>	This form facilitate the faculty members to enter marks for internal,external and practical types of evaluation for which assessment has done by that faculty members.It is capable of handling data for various regular as well as ATKT examinations.			
Key Stake Holders				
Client	The S.I.A. College of Higher Education			
Project Manager	Mr. Sunil Gaonkar			
TimeFrame				
Modules	Description of Work	Start Date	End Date	No. of Days
Online payment facility through payment gateway	<p>Online payment facility through payment gateway is an update in E-Sanchalan for online payment system.</p> <p>The E-Sanchalan payment system will share payment link via an email on student's registered mail ids.</p> <p>These links easily accepts payment in online mode without any complications. The link will get expired if payment will not done within specified time. The user can set limit to accept payments through link. The software allow to upload bank transaction report and generate fees collection report date wise.</p>	3/3/2022	5/5/2022	60



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*The S.I.A. College of Higher Education, Dombivli (E)*

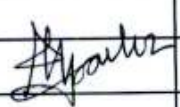

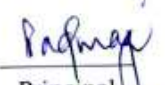

Assessment Marks entry form for faculty members in respective subjects	This form facilitate the faculty members to enter marks for internal,external and practical types of evaluation.It is capable of handling data for various regular as well as ATKT examinations.	6/6/2022	6/7/2022	30
	Total days			90



### SIA TechLink

(IT Development Division)

The S.I.A. College of Higher Education, Dombivli (E)

<b>Technology Used</b>	SQL Server 2012, ASP.Net		
<b>Hardware</b>	Assessment. Mark entry form for Faculty.		
<b>Project Members Details</b>			
	Name		
1	Mr. Sunil Gaonkar		
2	Mr. Harshad Gupta		
<b>Approval Signatures</b>			
Client		 Principal <b>PRINCIPAL</b>	 Project Manager

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P-88 MIDC Residential Area, Dombivli Gymkhana Road, Near Balaji Mandir, Dombivli(E)  
Email: office@thesiacollege.com Website:thesiacollege.com

Dated: 01/07/2022

To

The Principal  
The S.I.A. College of Higher Education

Sub: Request for proposal to update the Attendance Software

Dear Mam

I, S. Sai Sree, working as an Assistant Professor in the Department of Information Technology and Mathematics propose update the attendance software where the teachers can their entire syllabus, plan their lectures and enter the attendance along with the topics taught. This will facilitate automatic generation of Teaching Plan.

Thanking you

Regards



S. Sai Sree  
Assistant Professor  
Dept of IT





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P-88 MIDC Residential Area, Dombivli Gymkhana Road, Near Balaji Mandir, Dombivli(E)

Email: office@thesiacollege.com Website:thesiacollege.com

To

Dated: 15/07/2022

Mrs. S. Sai Sree  
Assistant Professor  
Dept of IT

Sub: Acceptance of Project Proposal

Mam

With reference to your letter, I here by approve your request to update the attendance software for college use.

Regards

*Padmanj*  
Principal

The S.I.A. College of Higher Education

**PRINCIPAL**

**The S.I.A. College of Higher Education  
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Email: [office@thesiacollege.com](mailto:office@thesiacollege.com) Website: [thesiacollege.com](http://thesiacollege.com)

Dated:14/10/2022

To

The Principal  
The S.I.A. College of Higher Education

Sub: Request for project Demonstration and trial run of updated attendance software

Dear Mam

The attendance software has been successfully updated the attendance software . I request you to give me a date for project demonstration and starting of the trial run on 15<sup>th</sup> October 2022.

Thanking you

Regards

S. Sai Sree  
Assistant Professor  
Dept of IT





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Email: office@thesiacollege.com Website:thesiacollege.com

Dated:14/10/2022

To

The Principal  
The S.I.A. College of Higher Education

Sub: Request for project Demonstration and trial run of updated attendance software

Dear Mam

The attendance software has been successfully updated the attendance software . I request you to give me a date for project demonstration and starting of the trial run on 15<sup>th</sup> October 2022.

Thanking you

Regards



S. Sai Sree  
Assistant Professor  
Dept of IT



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P-88 MIDC Residential Area, Dombivli Gymkhana Road, Near Balaji Mandir, Dombivli(E)

Email: [office@thesiacollege.com](mailto:office@thesiacollege.com) Website: [thesiacollege.com](http://thesiacollege.com)

Dated: 03/07/2018

To

Mrs. S. Sai Sree  
Assistant Professor  
Dept of IT & Mathematics

Sub: Implement the attendance Software

Mam

This is to inform you that you your trial run is successful and you can now go ahead and implement the updated attendance Software in the college

Regards

  
Principal

The S.I.A. College of Higher Education

**PRINCIPAL**

**The S.I.A. College of Higher Education  
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**SIA TechLink**

(IT Development Division)

The S.I.A. College of Higher Education, Dombivli (E)

<p align="center"><b>THE SOUTH INDIAN ASSOCIATION'S THE S.I.A. COLLEGE OF HIGHER EDUCATION (Affiliated to Mumbai University) NAAC Re-Accredited "B+" Grade Academic Year 2022-23</b></p>				
<b>Guide Name</b>	MRS. S. SAI SREE			
<b>Background</b>	Teachers had to enter the attendance in excel sheet and they were finding it difficult to calculate the attendance percentage, defaulter's list and so on. Also, the teaching plan needs to be manually prepared.			
<b>Objectives</b>	<p>To Generate Subjectwise attendance list            To Generate Classwise attendance list            To Generate Defaulter's list            To Generate Teaching plan</p>			
<b>Scope of Work</b>	<p>The teachers need to enter lecture wise attendance in the system. They should also enter what is the cut off percentage below which they will be considered as defaulters. Automatically the reports mentioned in the objectives will be generated for a specific period of time as given as input by the user. The teacher prepares the teaching plan before the beginning of the semester deciding what topics to cover in which month. So while entering attendance she also confirms what part of the portion is covered in the lecture. Based on the lectures, topic taught, teaching plan is automatically generated specifying both how many lectures were planned, how many lectures actually took. In this way we are able to check whether we are adhering to the teaching plan prepared by the teacher.</p>			
<b>Key Stake Holders</b>				
Client	The SIA College of Higher Education			
Project Manager	MRS. S. SAI SREE			
<b>TimeFrame</b>				
Modules	Description of Work	Start Date	End Date	No. of Days



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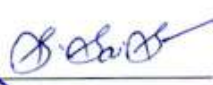
Attendance Entry	<p>A form was created to get the attendance of the students of a particular course, and subject.</p> <p>The teacher should check the checkbox if the student is present. And then save the information.</p> <p>It needs to be coded correctly to verify no two teachers can enter attendance for the same date and time if the subjects they are entering are compulsory on the other hand if it is optional subjects, then it should be allowed to enter their attendance.</p> <p>This validation needs to be provided in the system.</p> <p>To view the reports, they have to select from date and to date and select whether they want to view subject wise report or <del>overall classwise report for attendance</del></p>	16/06/2018	10/7/2018	25 days
Syllabus Entry	<p>Through forms such as syllabus entry, topic entry and sub topic entry the teachers enters the syllabus into the software also mentioning on which month the topic would be covered in how many lectures. So while entering attendance the teacher will also select what topic was covered in the lecture.</p>	1/9/2022	21/9/2022	20 days
Teaching Plan	<p>The teaching plan is generated automatically once the teacher selects the semester and subject as all the data required is already entered through syllabus entry and attendance entry</p>	26/9/2022	12/10/2022	17 days



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(IT Development Division)

The S.I.A. College of Higher Education, Dombivli (E)

<b>Technology Used</b>	MICROSOFT SQL SERVER 2012, .NET FRAMEWORK		
<b>Hardware</b>	Intel i5 processor, 4GB RAM		
<b>Project Members Details</b>			
Class	Name	Roll No.	Contact Nos.
MSC IT	MR. HARSHAD GUPTA		9867933233
<b>Approval Signatures</b>			
Client	 Principal <b>PRINCIPAL</b>	 Project Manager	

The S.I.A. College of Higher Education  
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