



**SADHU VASWANI MISSION'S**  
**St. Mira's College For Girls, Pune**  
**Autonomous (Affiliated to Savitribai Phule Pune University)**  
**Reaccredited by NAAC- A Grade, cycle 4**  
**[ARTS, COMMERCE, SCIENCE ,BSc(Computer Science), BBA, BBA(CA)]**  
**6,Koregaon Road,Pune-411001. [INDIA]**  
**Ph./Fax: 26124846; Email: [info@stmirascollegepune.edu.in](mailto:info@stmirascollegepune.edu.in)**  
**NAAC 4<sup>th</sup> Cycle – A Grade**

**PU/PN/AC/015/(1962)**  
**College Code:- 013**

## **4.1 Physical Facilities**

### **4.1.1**

**The Institution has adequate infrastructure and other facilities for**

**ICT – enabled facilities such as smart class, LMS etc.**

#### **Description**

##### **LMS Usage Reports**

- Studium LMS



**SADHU VASWANI MISSION'S**  
**St. Mira's College For Girls, Pune**  
**Autonomous (Affiliated to Savitribai Phule Pune University)**  
**Reaccredited by NAAC- A Grade, cycle 4**  
**[ARTS, COMMERCE, SCIENCE ,BSc(Computer Science), BBA, BBA(CA)]**  
**6,Koregaon Road,Pune-411001. [INDIA]**  
**Ph./Fax: 26124846; Email: [info@stmirascollegepune.edu.in](mailto:info@stmirascollegepune.edu.in)**  
**NAAC 4<sup>th</sup> Cycle – A Grade**

**PU/PN/AC/015/(1962)**  
**College Code:- 013**

## Studium LMS

### Learning Management System -

- **Attendance and online lectures-** PG department is using the Attendance and lecture downloading feature.
- **Assignments** - Online assignments/ formative exams are taken via studium where question papers are created and students have a visibility of the same
- **Study Material** - All the study materials are shared via faculties for the respective subjects to enhance teaching-learning process.
- **Examination** - End Term, Formative exams , and backlog exams are created using Studium for result generation and accreditation process.
- **Marksheet, Hall ticket and Exam forms** are created and are visible to student side for Pre-Examination Process.

### Accreditation process-

- **OBE** - All the exams are considered for attainment calculations and CO final Attainment and PO final attainment is calculated via Studium for all departments of UG and PG.
- **Course file generation** - Using syllabus and session plan, we can generate end to end course File which consists of CO , CO-PO mapping, session plan and Assessment Plan for all the courses of UG and PG department
- **SAR report** can be generated for entire Academic Year.



**SADHU VASWANI MISSION'S**  
**St. Mira's College For Girls, Pune**  
**Autonomous (Affiliated to Savitribai Phule Pune University)**  
**Reaccredited by NAAC- A Grade, cycle 4**  
**[ARTS, COMMERCE, SCIENCE ,BSc(Computer Science), BBA, BBA(CA)]**  
**6,Koregaon Road,Pune-411001. [INDIA]**  
**Ph./Fax: 26124846; Email: [info@stmirascollegepune.edu.in](mailto:info@stmirascollegepune.edu.in)**  
**NAAC 4<sup>th</sup> Cycle – A Grade**

**PU/PN/AC/015/(1962)**

**College Code:- 013**

- **Feedback** - Feedback can be taken via system for Course Indirect Attainment and Program indirect attainment.

### Workshop and Trainings -

- Training on CO addition, its mapping and the philosophy behind OBE was taken multiple times for setting Quality assurance process.
- Creation of question paper, taking attendance, recording online lectures , sharing study materials were included as a part of the implementation training process.
- Virtuals and In-Person visits are often conducted for streamlining Implementations

Please find some images regarding the same -

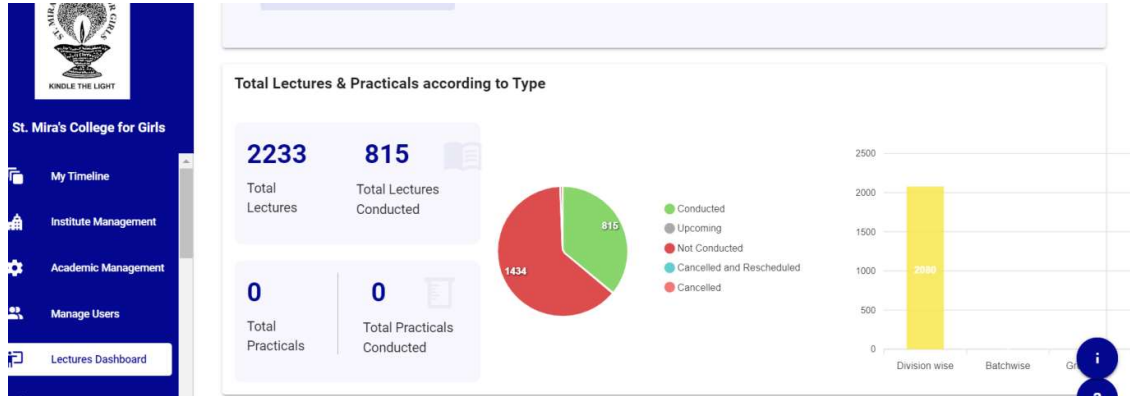
Roll Number	Name	Remarks	Total Attended	Total Lectures	Percentage
<input checked="" type="checkbox"/>	5901	KARISHMA BHOSALE	3	0	0
<input checked="" type="checkbox"/>	5902	Nikita Shinde	3	0	0
<input type="checkbox"/>	5903	SANIYA SAYED	0	0	0
<input type="checkbox"/>	5904	Sneha Gawde	0	0	0
<input checked="" type="checkbox"/>	5905	SAKSHI SHIRKE	3	0	0
<input checked="" type="checkbox"/>	5906	DHANVANTARI LATAMBALE	1	0	0

Attendance Report



**SADHU VASWANI MISSION'S**  
**St. Mira's College For Girls, Pune**  
**Autonomous (Affiliated to Savitribai Phule Pune University)**  
**Reaccredited by NAAC- A Grade, cycle 4**  
**[ARTS, COMMERCE, SCIENCE ,BSc(Computer Science), BBA, BBA(CA)]**  
**6,Koregaon Road,Pune-411001. [INDIA]**  
**Ph./Fax: 26124846; Email: [info@stmirascollegepune.edu.in](mailto:info@stmirascollegepune.edu.in)**  
**NAAC 4<sup>th</sup> Cycle – A Grade**

**PU/PN/AC/015/(1962)**  
**College Code:- 013**



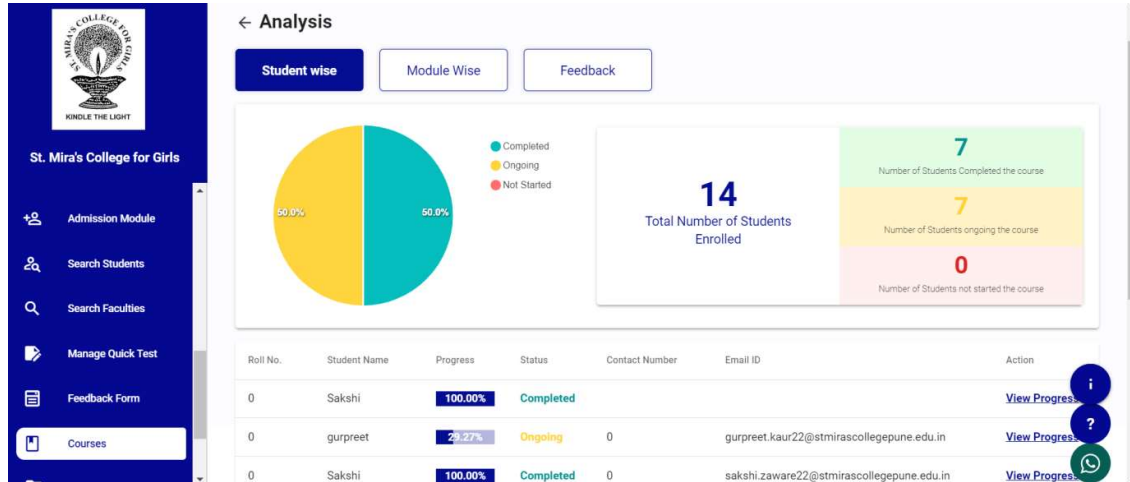
Qn No	Sub Qn No	Question Statements and Section Names	Marks	
		Computer Instrumentation	30	
Q1		Solve any 5 Out of 7	15	
		Any 5		
	Q1.a	Draw the symbol of - MOSFET and LED	3	CO 1 - Recall the basic knowledge of semiconductors
	Q1.b	Define CMRR for an opamp.	3	CO 1 - Recall the basic knowledge of semiconductors
	Q1.c	Summarize the working of PIR sensor	3	CO 2 - Explain the working principle of sensors
	Q1.d	Differentiate between AD 590 and LM 35 temper	3	CO 2 - Explain the working principle of sensors
	Q1.e	In an inverting op-amp, given that $R_f = 5K\Omega$	3	CO 1 - Recall the basic knowledge of semiconductors
	Q1.f	<p>Give three applications of ultrasonic sensors	3	CO 3 - Classify different types of ADC and DAC
	Q1.g	<p>Draw the circuit for R-2R DAC</p>	3	CO 4 - Apply the knowledge above to understand DAC

Question paper creation and mapping to CO



**SADHU VASWANI MISSION'S**  
**St. Mira's College For Girls, Pune**  
**Autonomous (Affiliated to Savitribai Phule Pune University)**  
**Reaccredited by NAAC- A Grade, cycle 4**  
**[ARTS, COMMERCE, SCIENCE ,BSc(Computer Science), BBA, BBA(CA)]**  
**6,Koregaon Road,Pune-411001. [INDIA]**  
**Ph./Fax: 26124846; Email: [info@stmirascollegepune.edu.in](mailto:info@stmirascollegepune.edu.in)**  
**NAAC 4<sup>th</sup> Cycle – A Grade**

**PU/PN/AC/015/(1962)**  
**College Code:- 013**



PG credit Courses for self paced courses

Semester 1		Course Code	Course Name	Internal	External	Total Credits	Grade	Grade Point	Grade Point Average
		BMAJCS123120	Introduction to C Programming	15	23	38	2	A	16
		BMAJCS123121	Database Management System	13	28	41	2	A+	18
		BMAJCS123122	Computer Science Practical	20	30	50	2	O	20
		OE1-12306	Descriptive statistics	20	26	46	2	O	20
		OE2-12309	Fundamentals of Computer System	18	29	47	2	O	20
		BSVSCSM12301	Number Theory and Matrix Algebra	14	16	30	2	B+	14
		BSSECCSM12301	Mathematics Practical using 'C' Language	15	14	29	2	B+	14
		BSVECSTA12301	Statistics Practical I	20	24	44	2	A+	18
		ACUAECENG12301	English for Skill Based Communication-Level 1	15	19	34	2	B+	14
		CIKS12301	Ancient Indian Mathematics	12	12	24	2	C	10
		ACUCCSPO12301	Health, Physical Education, Recreation and Sports	28	0	28	2	B+	14
Semester 2		Course Code	Course Name	Internal	External	Total Credits	Grade	Grade Point	Grade Point Average



**SADHU VASWANI MISSION'S**  
**St. Mira's College For Girls, Pune**  
**Autonomous (Affiliated to Savitribai Phule Pune University)**  
**Reaccredited by NAAC- A Grade, cycle 4**  
**[ARTS, COMMERCE, SCIENCE ,BSc(Computer Science), BBA, BBA(CA)]**  
**6,Koregaon Road,Pune-411001. [INDIA]**  
**Ph./Fax: 26124846; Email: [info@stmirascollegepune.edu.in](mailto:info@stmirascollegepune.edu.in)**  
**NAAC 4<sup>th</sup> Cycle – A Grade**

**PU/PN/AC/015/(1962)**  
**College Code:- 013**

Marksheet for FY students



**St. Miras College for Girls, Pune**  
**AUTONOMOUS, Affiliated to Savitribai Phule Pune University , 6, Koregaon Road,**  
**Pune 411001**

**EXAMINATION FORM**

<b>Program Name</b> BSc COMPUTER SCIENCE	<b>Exam Name</b> EXTERNAL SEM I EXAMINATION 2024-2025
<b>Personal Details</b> <b>Name:</b> EKTA JAT <b>Contact Number:</b> 0 <b>Gender:</b> Female <b>Roll Number:</b> 5401 <b>Exam Seat Number:</b>	Attach your photo here

**Applied Subjects Information**

Subject Code	Subject Name
ACUAECENG12301	English for Skill Based Communication-level 1
BSIKS12301	Ancient Indian Mathematics
BSMAJCS124120	Fundamentals of C Programming
BSMAJCS124121(P)	Computer Science Practical-C Programming
BSMINELE12401	Digital Logic
BSMINELE12402(P)	Practical in Digital Logic
BSMINMAT12401	Linear Algebra and Applications
BSMINMAT12402(P)	Mathematics Practical using C and Scilab
BSSECSA12401(P)	Descriptive Statistics for Data Analytics
BSVECPES2401	Practices and Ethics for Software Engineering
OE2-12306	Basics of Mathematics and Statistics

**Instructions/Declarations for the candidate:**

1. Students must carefully check their examination form before downloading .
2. Student must submit examination form to the examination cell on scheduled date and time .
3. Kindly contact examination cell in case of any queries.

**Student**



**HOD**



**SADHU VASWANI MISSION'S**  
**St. Mira's College For Girls, Pune**  
**Autonomous (Affiliated to Savitribai Phule Pune University)**  
**Reaccredited by NAAC- A Grade, cycle 4**  
**[ARTS, COMMERCE, SCIENCE ,BSc(Computer Science), BBA, BBA(CA)]**  
**6,Koregaon Road,Pune-411001. [INDIA]**  
**Ph./Fax: 26124846; Email: [info@stmirascollegepune.edu.in](mailto:info@stmirascollegepune.edu.in)**  
**NAAC 4<sup>th</sup> Cycle – A Grade**

**PU/PN/AC/015/(1962)**  
**College Code:- 013**

Exam Form via Studium

	<b>St. Miras College for Girls, Pune</b>		
	AUTONOMOUS, Affiliated to Savitribai Phule Pune University , 6, Koregaon Road, Pune 411001		
<b>EXTERNAL SEM I EXAMINATION 2024-2025 HALL TICKET</b> <b>Department: BSc COMPUTER SCIENCE</b>			
Exam seat number	Roll Number	Attach your photo here	
	5401		
<b>Full Name: EKTA JAT</b>			
<b>Mother Name: Santosh</b>			
<b>Semester</b>	<b>Subject Code</b>	<b>Subject Name</b>	<b>Type of Exam</b>
Semester 1 2024-2025	ACUAECENG12301	English for Skill Based Communication-level 1	SEE(External)
Semester 1 2024-2025	BSIKS12301	Ancient Indian Mathematics	SEE(External)
Semester 1 2024-2025	BSMINMAT12402(P)	Mathematics Practical using C and Scilab	SEE(External)
Semester 1 2024-2025	BSVECPES2401	Practices and Ethics for Software Engineering	SEE(External)
Semester 1 2024-2025	BSMINMAT12401	Linear Algebra and Applications	SEE(External)
Semester 1 2024-2025	OE2-12306	Basics of Mathematics and Statistics	SEE(External)
Semester 1 2024-2025	BSMAJCS124120	Fundamentals of C Programming	SEE(External)
Semester 1 2024-2025	BSMINELE12402(P)	Practical in Digital Logic	SEE(External)
Semester 1 2024-2025	BSMINELE12401	Digital Logic	SEE(External)
Semester 1 2024-2025	BSSECSTA12401(P)	Descriptive Statistics for Data Analytics	SEE(External)
Semester 1 2024-2025	BSMAJCS124121(P)	Computer Science Practical-C Programming	SEE(External)
<b>Instructions to the candidates regarding Hall Ticket:</b>			
1. ENTRY TO THE EXAMINATION HALL IS NOT ALLOWED WITHOUT THE HALLTICKET.			
2. STUDENTS MUST VERIFY THEIR SUBJECT DETAILS ON THE HALLTICKET .			
3. FOR ANY QUERIES STUDENT MUST CONTACT EXAMINATION CELL.			
Signature Of the Student	<b>Student Sign</b>	<b>St. Mira's College for Girls</b>	







**SADHU VASWANI MISSION'S**  
**St. Mira's College For Girls, Pune**  
**Autonomous (Affiliated to Savitribai Phule Pune University)**  
**Reaccredited by NAAC- A Grade, cycle 4**  
**[ARTS, COMMERCE, SCIENCE ,BSc(Computer Science), BBA, BBA(CA)]**  
**6,Koregaon Road,Pune-411001. [INDIA]**  
**Ph./Fax: 26124846; Email: [info@stmirascollegepune.edu.in](mailto:info@stmirascollegepune.edu.in)**  
**NAAC 4<sup>th</sup> Cycle – A Grade**

**PU/PN/AC/015/(1962)**  
**College Code:- 013**

**NBA - SAR- BSC , UG**

Sr	Assessment Title	Type	Total Marks	Avg Marks	Threshold in %	% Range of marks						
						0-10%	11-20%	21-30%	31-40%	41-50%	51-60%	61-70%
1	FY BSC INTERNAL EXAM 2023-2024. FINAL	Formative	20	13.31	70	2	0	0	1	9	18	1
2	FY BSC EXTERNAL EXAM 2023-2024 FINAL	Summative	30	13.51	70	5	0	0	46	12	9	
3	Blacklock External Exam FY Sem 1 AY 2023-2024	Summative	30	9.5		1	2	0	4	1	0	

OBE exam distribution on the basis of threshold

**NBA - SAR- BSC , UG**

CO	Direct Attainment	Indirect Attainment	Final Attainment	Target	Gap	Justification
C01	1.4	-	1.4	-	1.4	-
C02	1.4	-	1.4	-	1.4	-
C03	1.4	-	1.4	2	-0.6	-
C04	1.4	-	1.4	2	-0.6	-

Gap Analysis table



**SADHU VASWANI MISSION'S**  
**St. Mira's College For Girls, Pune**  
**Autonomous (Affiliated to Savitribai Phule Pune University)**  
**Reaccredited by NAAC- A Grade, cycle 4**  
**[ARTS, COMMERCE, SCIENCE ,BSc(Computer Science), BBA, BBA(CA)]**  
**6,Koregaon Road,Pune-411001. [INDIA]**  
**Ph./Fax: 26124846; Email: [info@stmirascollegepune.edu.in](mailto:info@stmirascollegepune.edu.in)**  
**NAAC 4<sup>th</sup> Cycle – A Grade**

**PU/PN/AC/015/(1962)**  
**College Code:- 013**

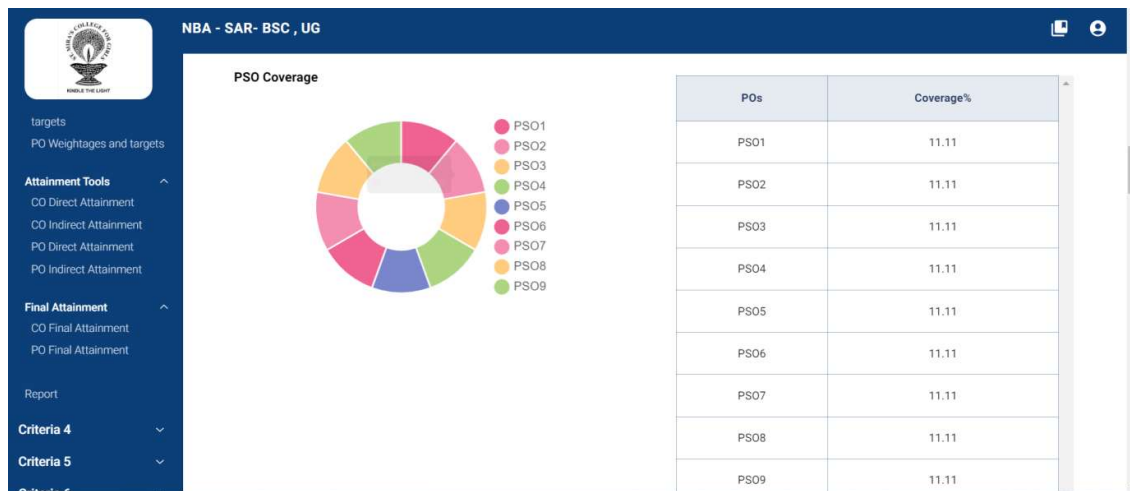
**NBA - SAR- BSC , UG**

PSO4: Gain interdisciplinary knowledge through various open elective courses from other disciplines and Indian knowledge system.  
 PSO5: Demonstrate project management skills using various Computer Science methodologies.  
 PSO6: Develop creativity, innovative and data analytical skills through critical and analytical thinking.  
 PSO7: Understand computing activities by effective communication through writing reports, design documentation and make presentations.  
 PSO8: Develop an awareness and identify solutions for the optimum usage of economic and environmental resources to attain sustainability.  
 PSO9: Apply ethical principles committing to societal and professional ethics and responsibilities of Computer science practice.

**Program Articulation Matrix(All courses mapping with PSO)** Show Credit

Sl. No	Course Code	Course Name	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PSO7	PSO8	PSO9
3	OE1-12306	Descriptive statistics	-	-	-	-	-	-	-	-	-
4	BSVSCCSM12301	Number Theory and Matrix Algebra	3	3	2	2	1	1	1	1	1
5	BMAJCS123122	Computer Science Practical	3	2.66	2.33	1	1.83	1.66	1	1	1.33
6	ACUCCSP012301	Health, Physical Education, Recreation and Sports	1	1	1	1.75	1	1.5	1.25	1	1
7	BBA123123	Introduction to C	3	3	3	3.25	3.25	3.5	1.5	1	1

PSO wise attainment calculations



PSO coverage



**SADHU VASWANI MISSION'S**  
**St. Mira's College For Girls, Pune**  
**Autonomous (Affiliated to Savitribai Phule Pune University)**  
**Reaccredited by NAAC- A Grade, cycle 4**  
**[ARTS, COMMERCE, SCIENCE ,BSc(Computer Science), BBA, BBA(CA)]**  
**6,Koregaon Road,Pune-411001. [INDIA]**  
**Ph./Fax: 26124846; Email: [info@stmirascollegepune.edu.in](mailto:info@stmirascollegepune.edu.in)**  
**NAAC 4<sup>th</sup> Cycle – A Grade**

**PU/PN/AC/015/(1962)**  
**College Code:- 013**

**PSO Final Attainment**

POS	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PSO7	PSO8	PSO9
PSO Direct Attainment	0.75	0.62	0.6	0.56	0.5	0.57	0.51	0.49	0.47
PSO Indirect Attainment									
<b>Final Attainment</b>	<b>0.75</b>	<b>0.62</b>	<b>0.6</b>	<b>0.56</b>	<b>0.5</b>	<b>0.57</b>	<b>0.51</b>	<b>0.49</b>	<b>0.47</b>
Target Attainment	-	-	-	-	-	-	-	-	-
Gap	0.75	0.62	0.6	0.56	0.5	0.57	0.51	0.49	0.47
Justification	-	-	-	-	-	-	-	-	-

PSO Final Attainment



PSO Attainment Graphical representation