



SIVA SIVANI DEGREE COLLEGE

(Affiliated to Osmania University)

UG Block Vensai Projects, Kompally, Secunderabad, Telangana - 500100.



Cycle-1 NAAC Accreditation 2023

Criteria 2 – Teaching- Learning and Evaluation

2.3 Teacher- Learning Process

2.3.1: Student centric methods, such as experiential learning, participative learning and problem solving methodologies are used for enhancing learning experiences using ICT tools

Submitted to



National Assessment and Accreditation Council

Teaching – Learning Process

**B.Sc.(MSCs, MSDs,
MECs and
Nutrition)**



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CRITERION - 2

Teaching-Learning and Evaluation

2.3.1 Student centric methods, such as experiential learning, participative learning and problem-solving methodologies are used for enhancing learning experiences using ICT tools

2.3.1 – Teaching-Learning Process- BSc (MSCs, MECs, DS, Nutrition)

CONTENTS

S. No	Sub-section
I.	ICT TOOLS
II.	COMMUNICATIVE TOOLS
III.	ELECTRONIC RESOURCES
IV.	TEACHING LEARNING METHODS



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I. INFORMATION AND COMMUNICATION TECHNOLOGY

TOOLS

ICT (Information and Communication Technology) has significantly disrupted traditional teaching methodologies by introducing interactive and dynamic learning approaches. It enables personalized learning experiences, promotes collaboration, and provides access to a wealth of resources. The shift towards online platforms, interactive software, and multimedia tools has transformed the education landscape.

S. No	ICT ENABLED TEACHING METHODOLOGY	TOTAL
1	Classrooms with Smart Boards	16
2	Seminar Hall with Smart Boards	02
3	Computer Labs	06
4	Internet connection	1 Gbps
5	Projector classrooms	22

1. CLASSROOMS WITH SMART BOARDS

At Siva Sivani Degree college modern classrooms equipped with 16 smart boards integrates interactive technology to enhance the learning experience. The room typically features a large, electronic smart board that functions as a touch-sensitive display and it is included with windows operating system. Faculty can project educational content, diagrams, PPT and multimedia directly onto the board, allowing for dynamic lessons. Smart boards enable interactive engagement, allowing students to participate in activities, solve problems, and collaborate digitally. Faculty can annotate content, save notes, and easily share resources with the class. This technology fosters a more immersive and interactive learning environment, catering to diverse learning styles.



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The classroom is equipped with audio-visual systems for clear communication, and students might use devices laptops to interact with the smart board. Overall, the integration of smart boards transforms traditional teaching methods.

Sample picture of classroom with smart boards



2.SEMINAR HALL WITH SMART BOARDS

Siva Sivani Degree College's seminar hall is a technologically advanced space designed to facilitate engaging presentations and interactive learning experiences. The hall is equipped with a state-of-the-art smart board, seamlessly integrating technology into the academic environment.

The seminar hall features a large display, functioning as an interactive smartboard. This technology allows presenters to deliver dynamic and visually compelling lectures, incorporating multimedia elements, diagrams, and interactive content. It enhances the overall learning experience by promoting engagement and participation.

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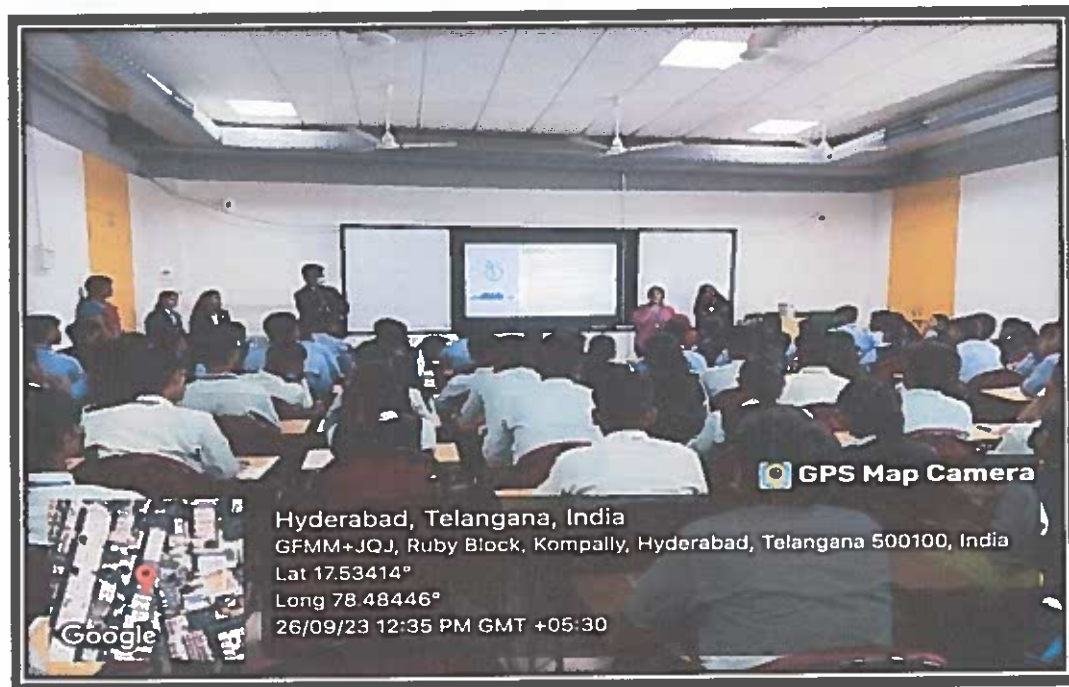
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With audio-visual systems in place, the seminar hall ensures clear communication and effective delivery of presentations. The layout is designed to optimize visibility for all attendees, ensuring that every corner of the hall provides a clear view of the smart board. The integration of the smart board encourages collaborative learning, enabling presenters and participants to interact with content in real-time. Whether it's a faculty member delivering a

lecture or a guest speaker sharing insights, the smart board enhances the impact of presentations and discussions.

Overall, Siva Sivani Degree College's seminar hall with a smart board is a modern and versatile space that embraces technology to foster interactive and immersive learning experiences during seminars, lectures, placements and various academic events.

Sample picture of Seminar Hall with Smart Board



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3.COMPUTER LABS

Siva Sivani Degree College's computer labs are dedicated spaces designed to provide students with comprehensive computing facilities for academic and research purposes. These labs are advanced lab equipped with cutting-edge hardware configured to meet diverse computing needs.

Seamlessly integrated into a robust local area network (LAN) and Wi-Fi the labs facilitate efficient communication between computers and provide internet access for collaborative projects and online resources. A comprehensive suite of software applications, including specialized tools for relevant courses, enriches the computing environment.

The layout prioritizes functionality and comfort with ergonomic furniture, proper spacing, and wiring arrangements. Security measures, including restricted access and surveillance, ensure the labs' integrity, and a dedicated help desk provides technical support for hardware or software issues.

Software's are installed in the lab like MS-Office 2016, Tally. C, C++, Java, Python etc., We at lab are using 2 types of operating systems i.e., Ubuntu and WINDOWS 10.

Sample pictures of fully equipped Computer Lab with Wi-Fi and LAN connection with 1Gbps



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4. INTERNET CONNECTION

Siva Sivani degree college campus is equipped with WiFi to provide internet access across various areas. This allows students, faculty, and staff to connect their devices to the internet wirelessly. The WiFi coverage typically extends to classrooms, libraries and common areas. It facilitates online research, communication, and access to educational resources.

The network often prioritizes security, employing authentication processes to protect user data. With a focus on high-speed connectivity, these campuses aim to facilitate seamless communication, research, and online learning. Technical support services are typically available to assist with any connectivity issues or inquiries.

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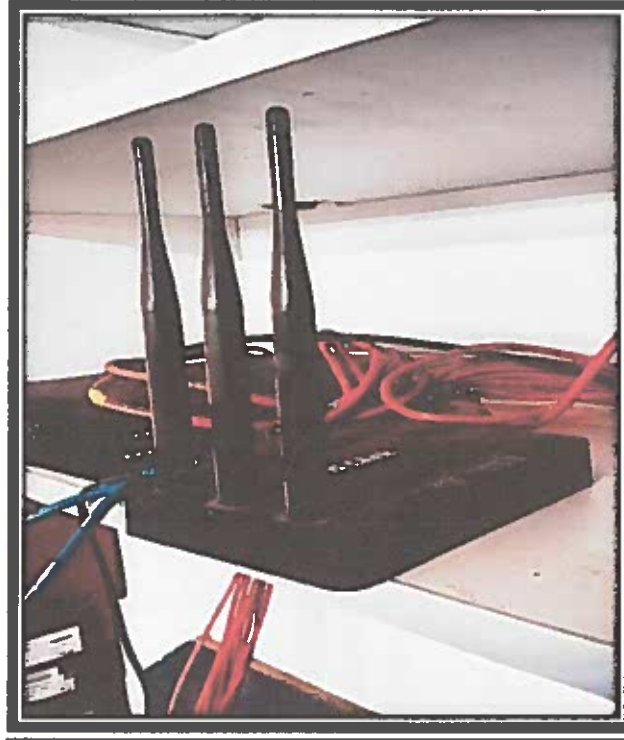
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Sample picture of Internet Connection with Wi-Fi router



5.PROJECTOR CLASSROOMS

At Siva Sivani degree college projector classroom typically refers to a learning space equipped with a multimedia projector system with LAN. This setup includes a projector connected to a computer or other media source, allowing instructors to display content on a large screen for the benefit of the entire class. It enhances the teaching and learning experience by enabling the projection of presentations, videos, and other educational materials. Projector classrooms are commonly used in educational institutions to facilitate interactive and visually engaging lessons.

These classrooms are designed to enhance the educational experience by providing a dynamic and visual approach to teaching, catering to various learning styles.





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Sample pictures of classrooms with projector



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II. COMMUNICATIVE TOOLS

Communicative tools encompass a variety of instruments facilitating information exchange. These can range from traditional methods like face-to-face communication to modern digital platforms such as messaging apps, emails, and video conferencing tools. Effective communicative tools enable seamless interaction, fostering collaboration and understanding among individuals or groups.

Different Communicative tools are used to facilitate communication between the faculty and the students such as

COMMUNICATIVE TOOLS

- a. Announcements through the College Website tools
- b. Communication group mail
- c. Class-wise WhatsApp groups
- d. Placement Community Group
- e. CAMU Software App

a. Announcements through the College Website tools

Announcements on Siva Sivani degree college website are vital for communicating information such as academic updates, events, administrative notices, and deadlines. These messages are regularly updated to provide timely and relevant information to the entire college community. They may be categorized for easy navigation, ensuring clarity and conciseness. Announcements often include links to additional resources and may be archived for reference to historical information. To access specific details about announcements on a particular college's website, students can explore the dedicated section or contact the college's administrative office for guidance.

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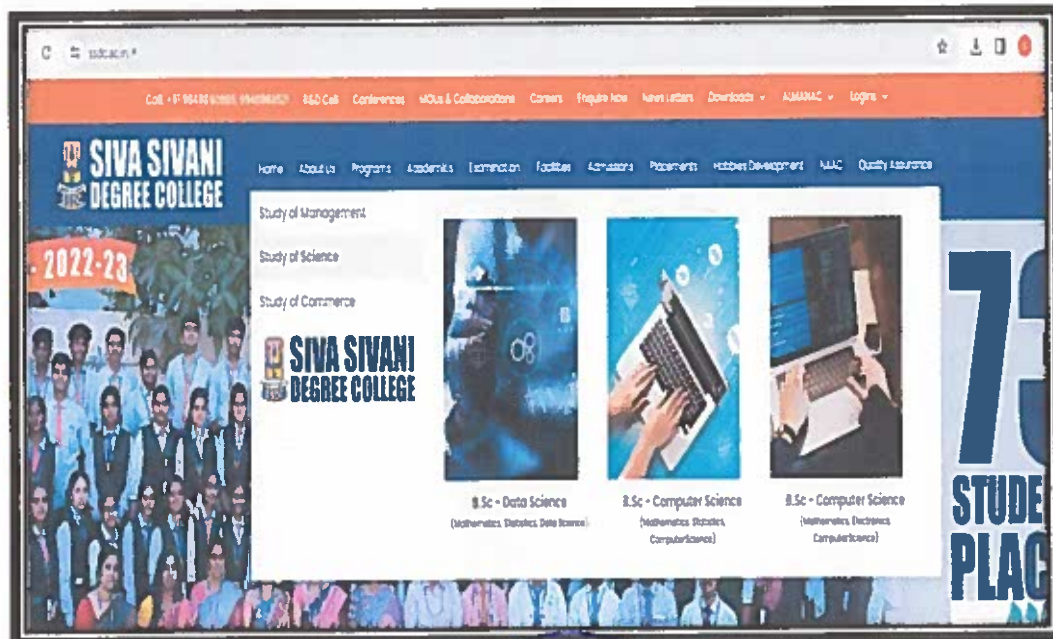
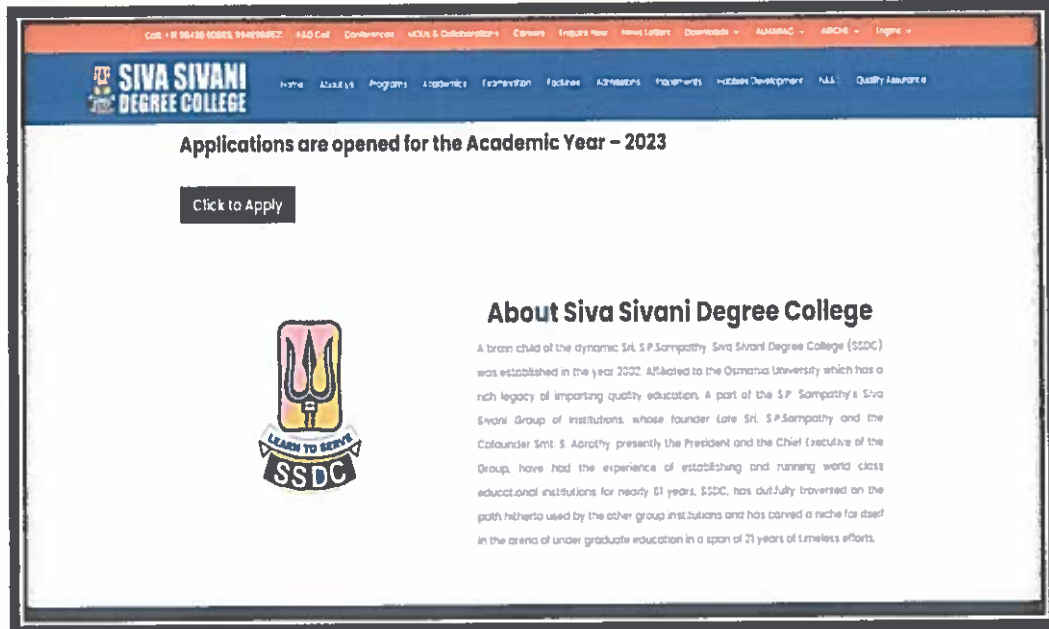


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Sample pictures of College Website

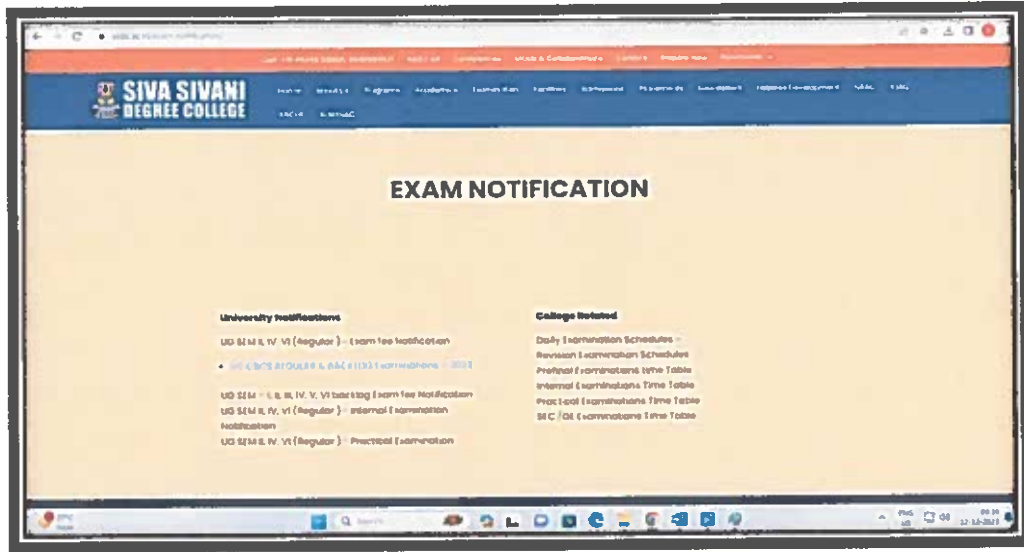


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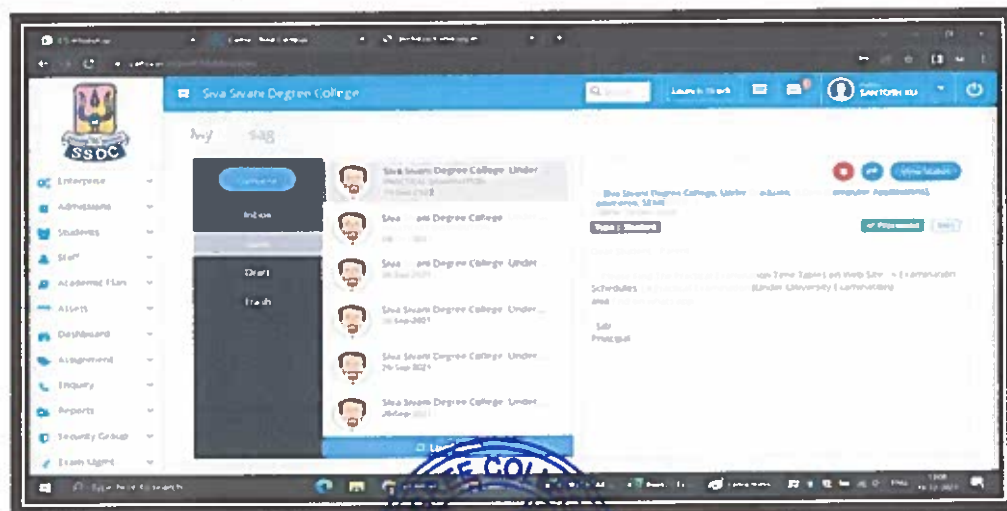


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b. Communication Group mail:

A college group email serves as a formal channel for targeted communication within a specific segment of the academic community. It facilitates the distribution of official announcements, updates, and information relevant to the group's members. This communication method allows for discussions, replies, and inquiries, fostering a collaborative environment. Group emails also contribute to archived records, enabling members to reference past communications easily. Overall, college group emails enhance the efficiency and organization of information flow within the designated segment of the college community.



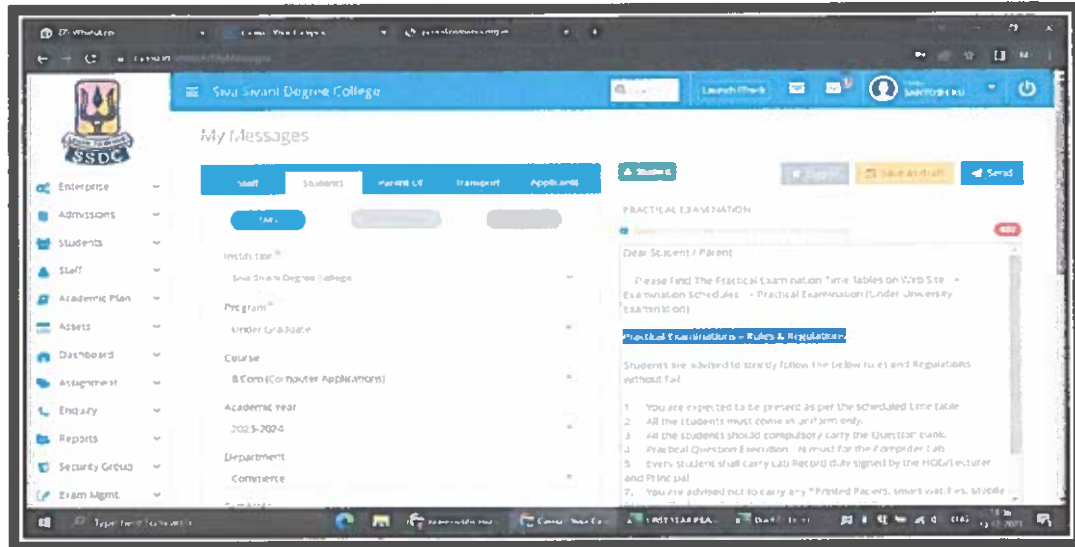
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c. Class-wise WhatsApp groups

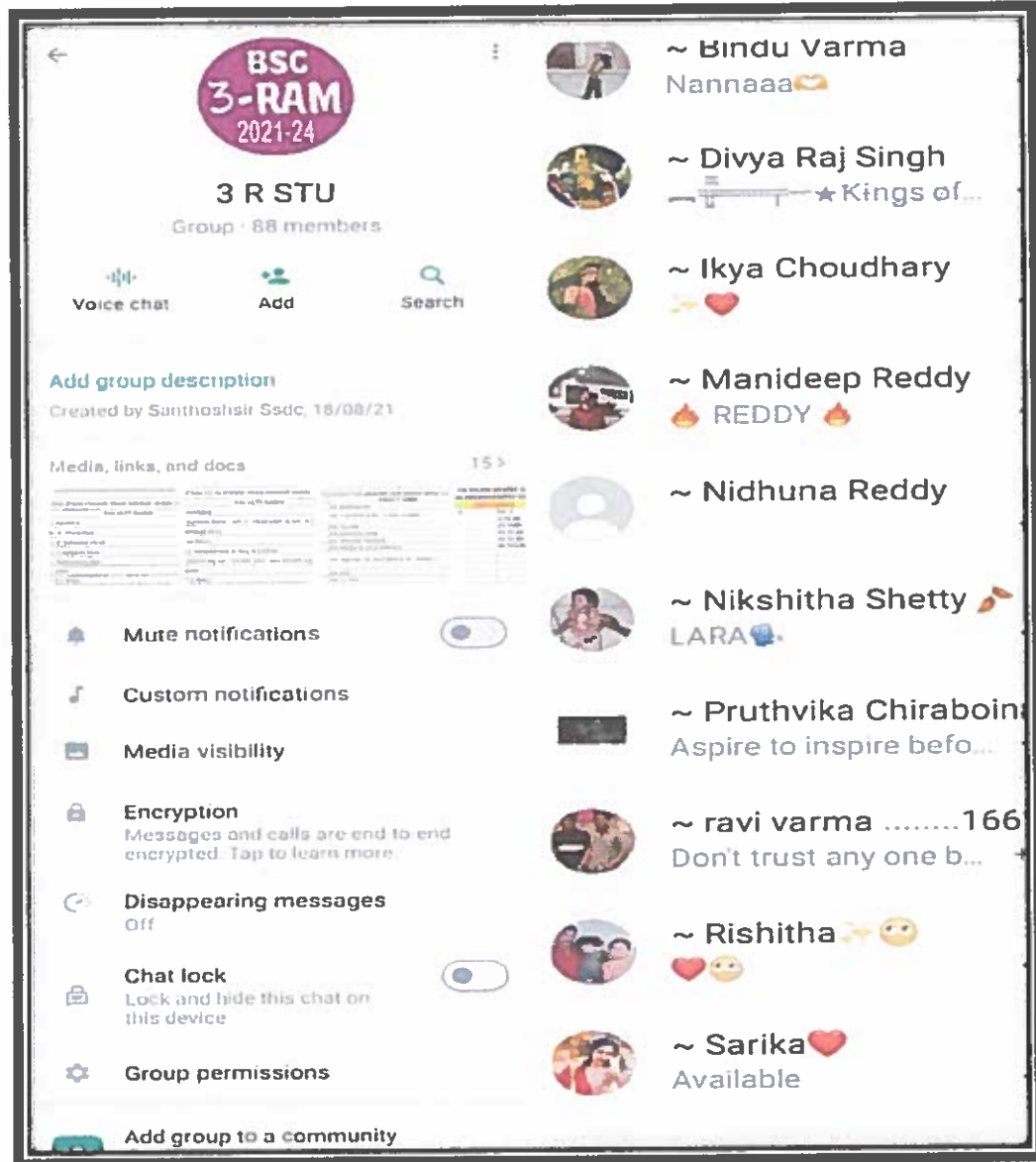
A students WhatsApp group serves as a virtual space for members of a particular academic community to communicate and share information. College created students WhatsApp group to communicate regarding attendance, notifications, holiday circulars, internal and exam dates and assignment submission dates.

The group covers a variety of topic, including academic queries, event announcements, and general discussions. The nature of the group often promotes quick and formal communication to the students. It's a platform that fosters a sense of community and facilitates the exchange of important information in a convenient and real-time manner.





Sample Screenshot of Student's WhatsApp Group



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**BSC
3-CVR
2021-24**




~ Chotu ❤️
Busy


3 CVR STU
Group · 88 members




~ Harshi.. 😊
Jai sri krishna 🙏



Voice chat



Add



Search

Group description
Created by Santhoshsir Ssdc, 18/08/21

Links, and docs


NAME	YEAR GROUP	SECURITY NAME
...
...

NAME	YEAR GROUP	SECURITY NAME
...
...


Mute notifications

Custom notifications


Media visibility




~ kajaldhanan
Everybody does



~ KAVYA SURAK
❤️



~ M Srikar Reddy
Busy



~ Manhith M...
Available

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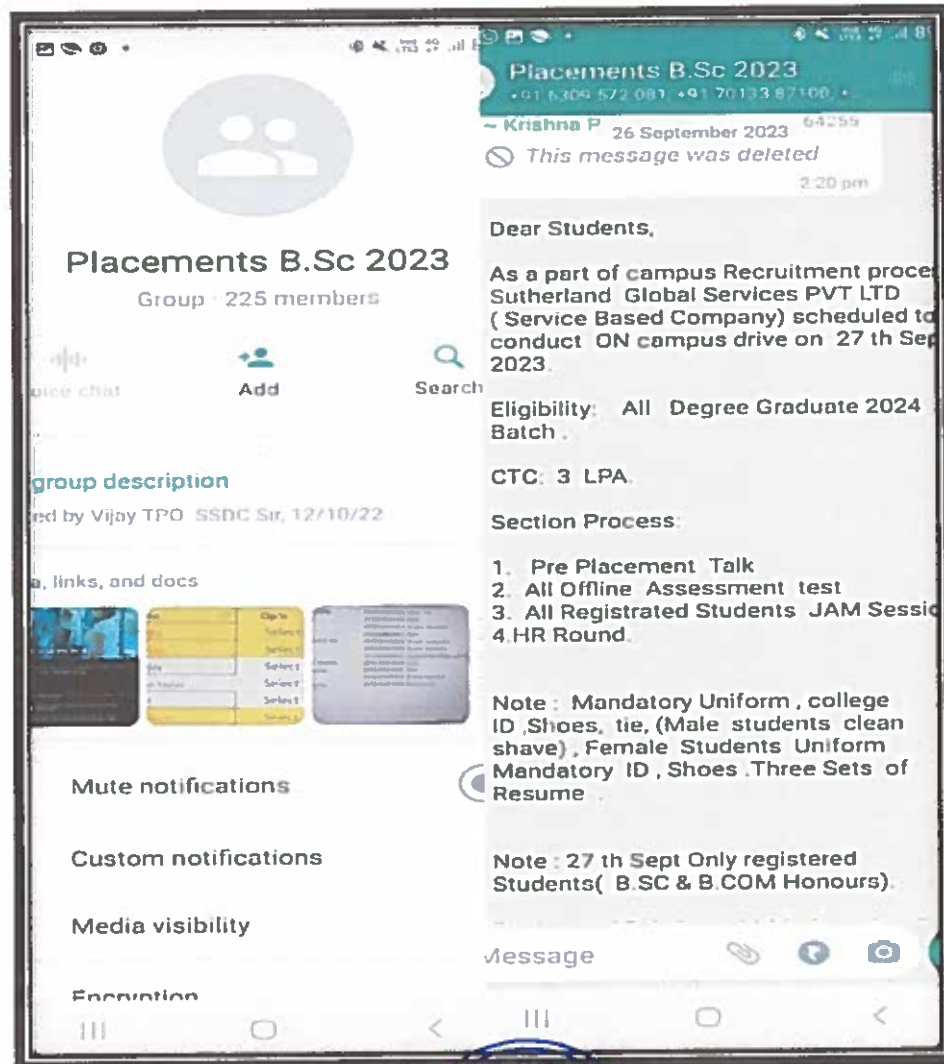
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d. Placements Community Group

At Siva Sivani Degree College, the placement cell is a major attraction. The endeavor of our college is to empower graduates to stand on their own feet. We have a dynamic team lead by efficient persons to help place as many students as possible in various organizations. The placement cell is an impetus of the college spearheading it and enabling it to stand on the top. There are outgoing students in this group, where all the important news regarding placement drives are posted.

Sample screenshot of Placements WhatsApp group



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e. CAMU Software app

Siva Sivani Degree College benefits significantly from CAMU, an advanced integrated SIS and LMS system. This comprehensive solution optimizes the entire student life cycle, offering essential features such as seamless attendance tracking, hourly timetables, student information, and a virtual classroom environment for enhanced learning experiences. The incorporation of outcome-based education (OBE) and the choice-based credit system (CBCS) aligns with modern educational standards, ensuring a dynamic and adaptable curriculum.

CAMU's attendance tracking feature aids in monitoring student engagement, while robust analytics provide valuable insights for informed decision-making. Moreover, the system supports accreditation processes, contributing to the college's commitment to academic excellence and quality assurance. With CAMU, Siva Sivani Degree College experiences a holistic and streamlined approach to education management, fostering a conducive environment for both students and educators.

Sample picture of CAMU Software app



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Sample picture of student attendance in CAMU mobile app



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3.ELECTRONIC RESOURCES

Siva Sivani Degree College prioritizes electronic resources to enrich the learning experience. With a comprehensive digital library, e-learning platforms, and access to online databases, students and faculty benefit from extensive research materials, interactive learning tools, and virtual labs. These resources foster innovation, facilitate collaborative learning, and ensure a contemporary educational environment, empowering students to excel in their academic pursuits.

E Learning Sources

List of Video Lectures developed by the Faculty Members Online lecture videos are uploaded through SIVA SIVANI DEGREE COLLEGE CHANNEL.

S. No	Course name	Subject	Name of the faculty	Online Link
1	B. Sc	C++	Mr.C. Santhosh Kumar Reddy	https://www.youtube.com/watch?v=TWmiwcdvM1A
2	B. Sc	C++	Mr.C. Santhosh Kumar Reddy	https://www.youtube.com/watch?v=W9hFhrv0E-4
3	B. Sc	DBMS	Mr.C. Santhosh Kumar Reddy	https://www.youtube.com/watch?v=1-yPiU9TWTa&t=491s
4	B. Sc	Web Technologies	Mrs. Manjula	https://www.youtube.com/watch?v=9HzXY-8GupA
5	B. Sc	DBMS	Mr.C. Santhosh Kumar Reddy	https://www.youtube.com/watch?v=CPpIfn4tGWA
6	B. Sc	C++	Mr.C. Santhosh Kumar Reddy	https://www.youtube.com/watch?v=MpJxAMyGimM
7	B. Sc	DBMS	Mr.C. Santhosh Kumar Reddy	https://www.youtube.com/watch?v=-KaS2L_Sdw0
8	B. Sc	DBMS	Mrs. Manjula	https://www.youtube.com/watch?v=gN87aY0ZwXY
9	B. Sc	Networks	Mr.PM Naidu	https://www.youtube.com/watch?v=RzFzYTDMO-s
10	B. Sc	Networks	Mr.PM Naidu	https://www.youtube.com/watch?v=wkPJQmQGKTA





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4. TEACHING LEARNING METHODS

- Experiential Learning
- Participative Learning

a. Experiential Learning

Index of Experiential Learning

S. No	Activity	Total
1	Workshops <ul style="list-style-type: none">• Workshop on Ms Excel• Workshop on Word• Workshop on C Programming• Workshop on Data Science- Beginners Perspective• Workshop on Machine Learning• Workshop on Ms Excel• Workshop on Leet Code• Workshop on Artificial intelligence and machine learning	8
2	Seminars <ul style="list-style-type: none">• Seminar on Cyber Security & Ethical Hacking• Seminar on Career Development	2
3	Training Sessions <ul style="list-style-type: none">• Training on Amazon Web Services	1
4	Mini Projects	1
5	Major Projects	1
6	Certification Courses <ul style="list-style-type: none">• Internal Certification• External Certification	2

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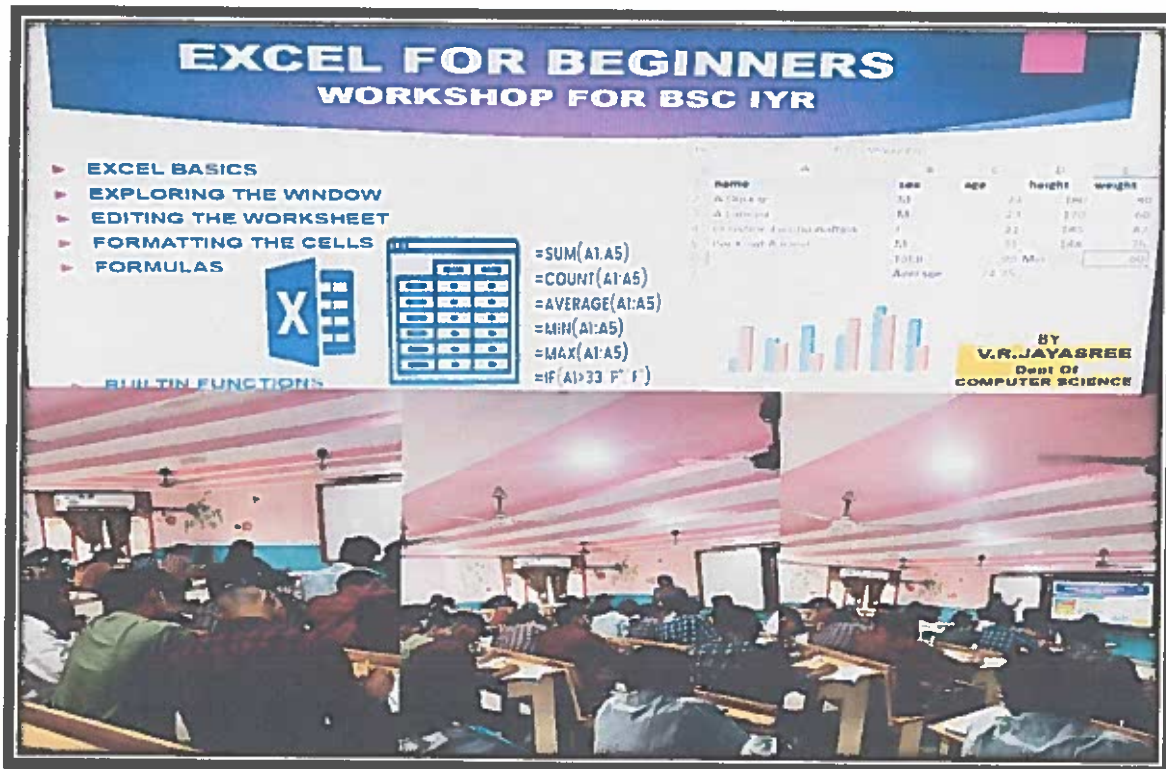
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Workshop on MS Excel:

An internal workshop was conducted on Excel. In this session a detailed explanation was given about worksheets, workbooks, tables and pivot tables, dashboards, charts, fonts, filter methods, sorting, goal seeking methods, annova method, protection methods for workbook and worksheets, printing a document, alignment, adjustments etc. Post the workshop, students practiced the explained concepts in lab.

S. No	Class	Activity	Faculty	Date	No of Students
1	BSC-1 R	WORKSHOP ON MS EXCEL	Ms. VR Jayasree	08/08/2023	55

Sample Pic of Excel workshop



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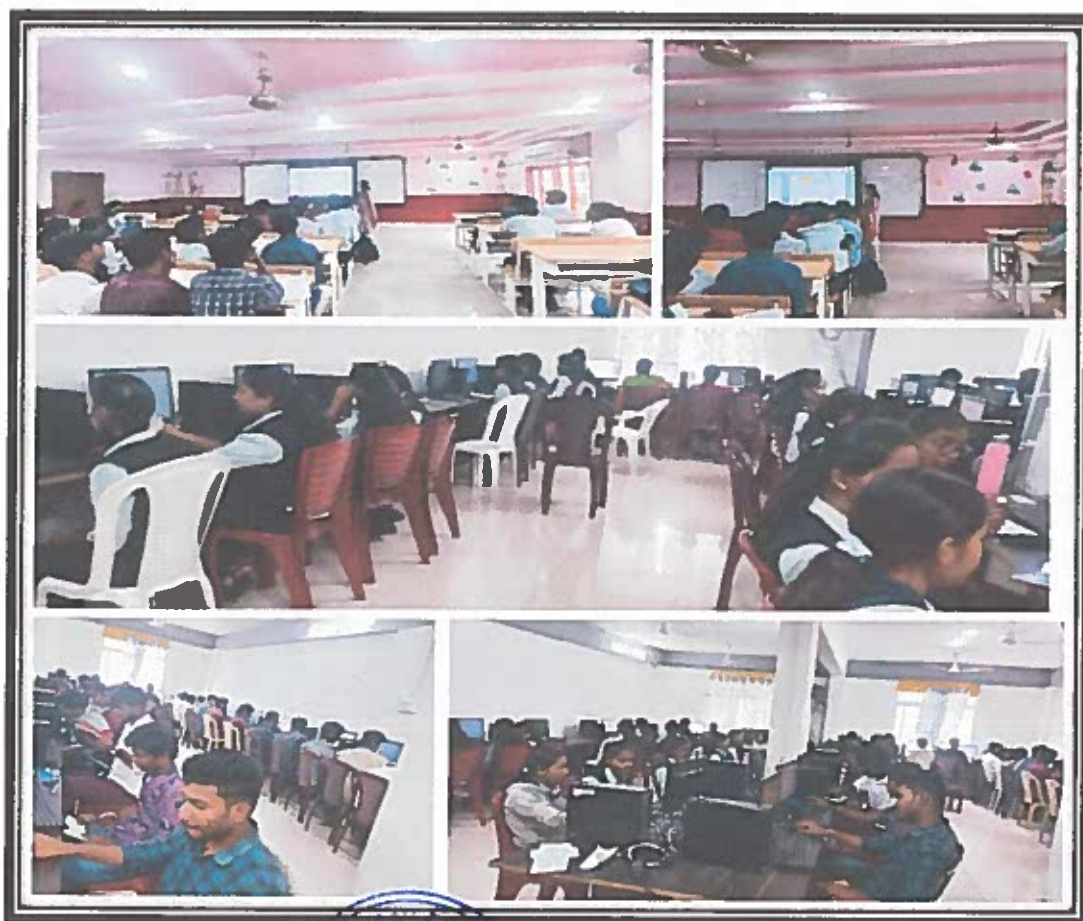
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Workshop on MS WORD:

An internal workshop was conducted on MS Word, with detailed explanation to create customized documents, save document, edit documents, designing documents, creation of tables, newsletters and mailing list. Also explained the features like spell and grammar check, templates, formatting features and more. Its purpose is to allow the students to create documents like letters, reports, resumes and academic papers.

S. No	Class	Activity	Faculty	Date	No of Students
2	BSC(CVR)-I	WORKSHOP ON MS WORD	Ms. Ramadevi	11/08/2023	50

Sample Pic of students attending MS WORD workshop followed by lab session



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Workshop On C-Language:

An internal workshop was conducted on C Programming. Session started with introduction to programming, introduction to C, comparing C with Python, basic C Programming Syntax, Basic C Programming fundamentals, C Tokens, C Operators Loops, Arrays, Strings, Functions. Students implemented the concepts in practice with some example programs.

S. No	Class	Activity	Faculty	Date	No of Students
3	BSC 2 DS-B	WORKSHOP ON C PROGRAMMING	Mr. Pavan	18/7/2023	50

Sample Pic of students attending workshop on C programming



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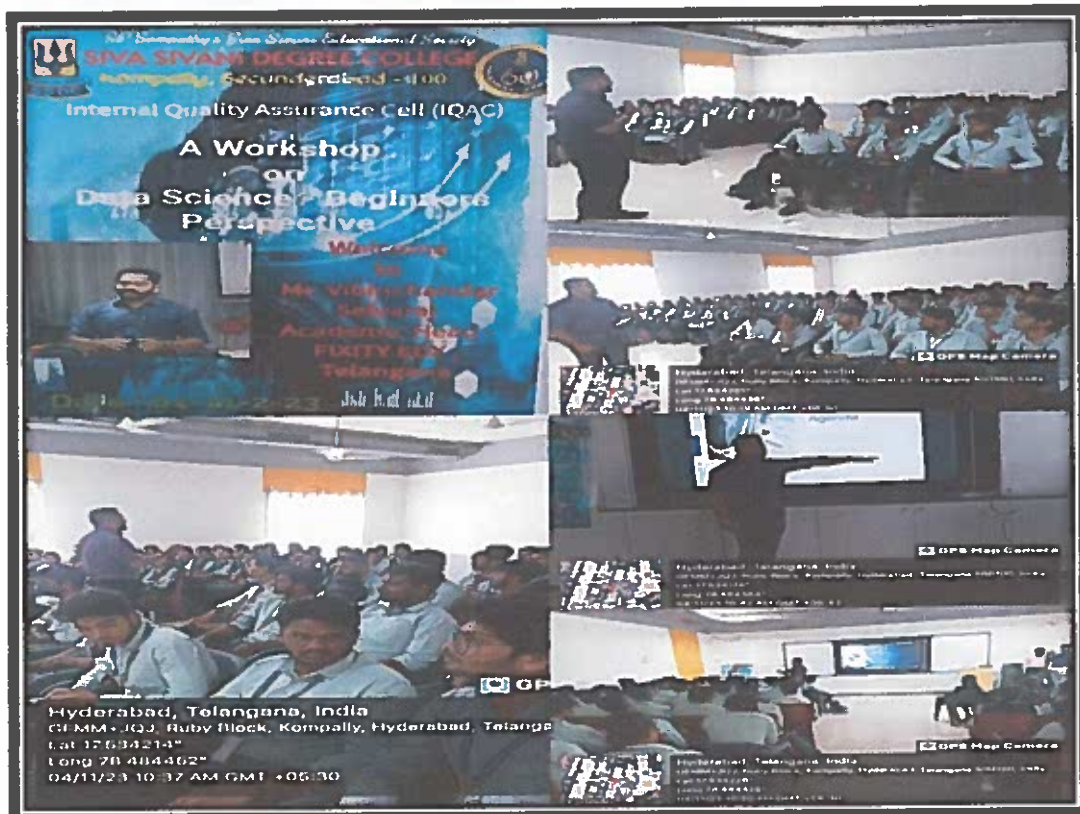
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Workshop on Data Science -Beginners Perspective

An external workshop was conducted on Data Science-Beginners Perspective by our Guest lecturer Mr. Vibinchandar Selvaraj, Academics Head-Fixity EDX. In this workshop it covered topics like introduction to Data Science, its importance, career opportunities in DS, about Data Analyst and Data Scientist, their skills and roles and also about Machine Learning Engineer, Big Data Engineer, Business Intelligence Analyst and more.

S. No	Class	Activity	Faculty	Date	No of Students
4	BSC(DS) II YEAR	WORKSHOP ON DATASCIENCE- BEGINNERS PERSPECTIVE	VIBINCHANDAR SELVARAJ	04/11/2023	60

Sample Pic of students attending workshop



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Workshop on Machine Learning.:

An internal workshop was conducted on Machine learning. In this session it was discussed about machine learning and gave a detailed description about it, also discussed the real time application of machine learning and the job opportunities present in the real world on machine learning. Discussed different types of machine learning like Supervised learning, Unsupervised learning, Reinforcement learning.

S. No	Class	Activity	Faculty	Date	No of Students
5	BSC-II YEAR	WORKSHOP ON MACHINE LEARNING	Ms. B. LATHA	17/08/2023	60

Sample Pic of Machine learning workshop



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S. No	Class	Activity	Faculty	Date	No of Students
6	BSC-I YEAR	WORKSHOP ON MS EXCEL	Ms. RAMADEVI.P	18/08/2023	45

Sample pic of Excel workshop



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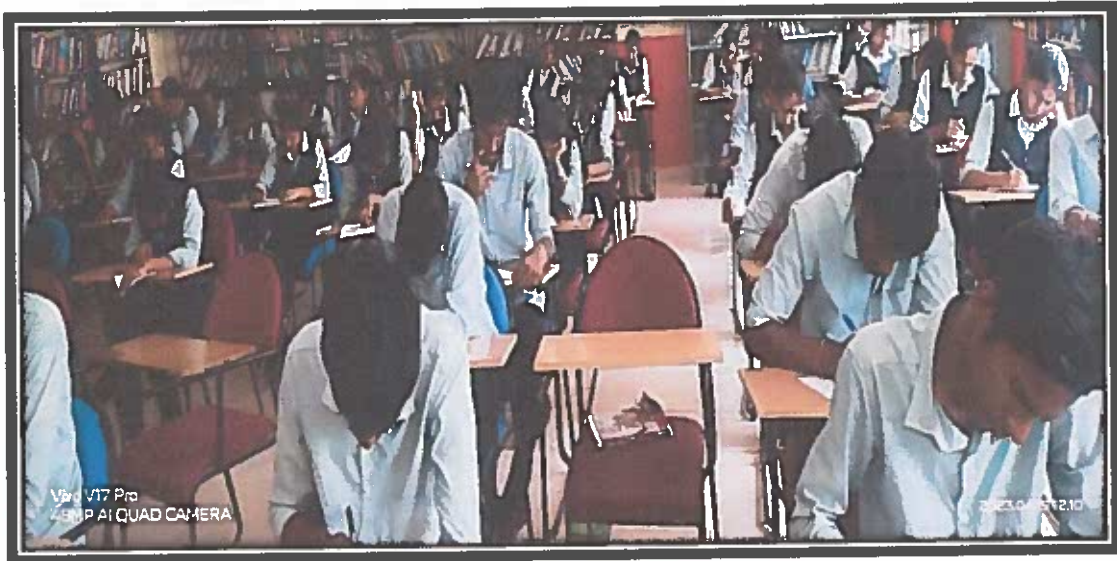
Workshop on Leet Code:

A workshop was conducted on Leet code by corporate trainer Mr. Naresh and our faculty. It is a coding contest to improve coding knowledge of student, it is a 4-day training program where students were given a list of programs to analyse the logic. Students were trained on various coding techniques of Python programming and Cloud Computing. Students wrote the coding of various programs given. After that presentations were given by the students, explained in detail the various logics applied to the programs.

At the end of the session students were awarded with certificates.

S. No	Class	Activity	Faculty	Date	No of Students
7	BSC-II YEAR	WORKSHOP ON LEET CODE	Ms. MADHAVI.S	08/02/2023 to 11/02/2023	100

Sample picture of students practicing program logic and explaining their program's logic



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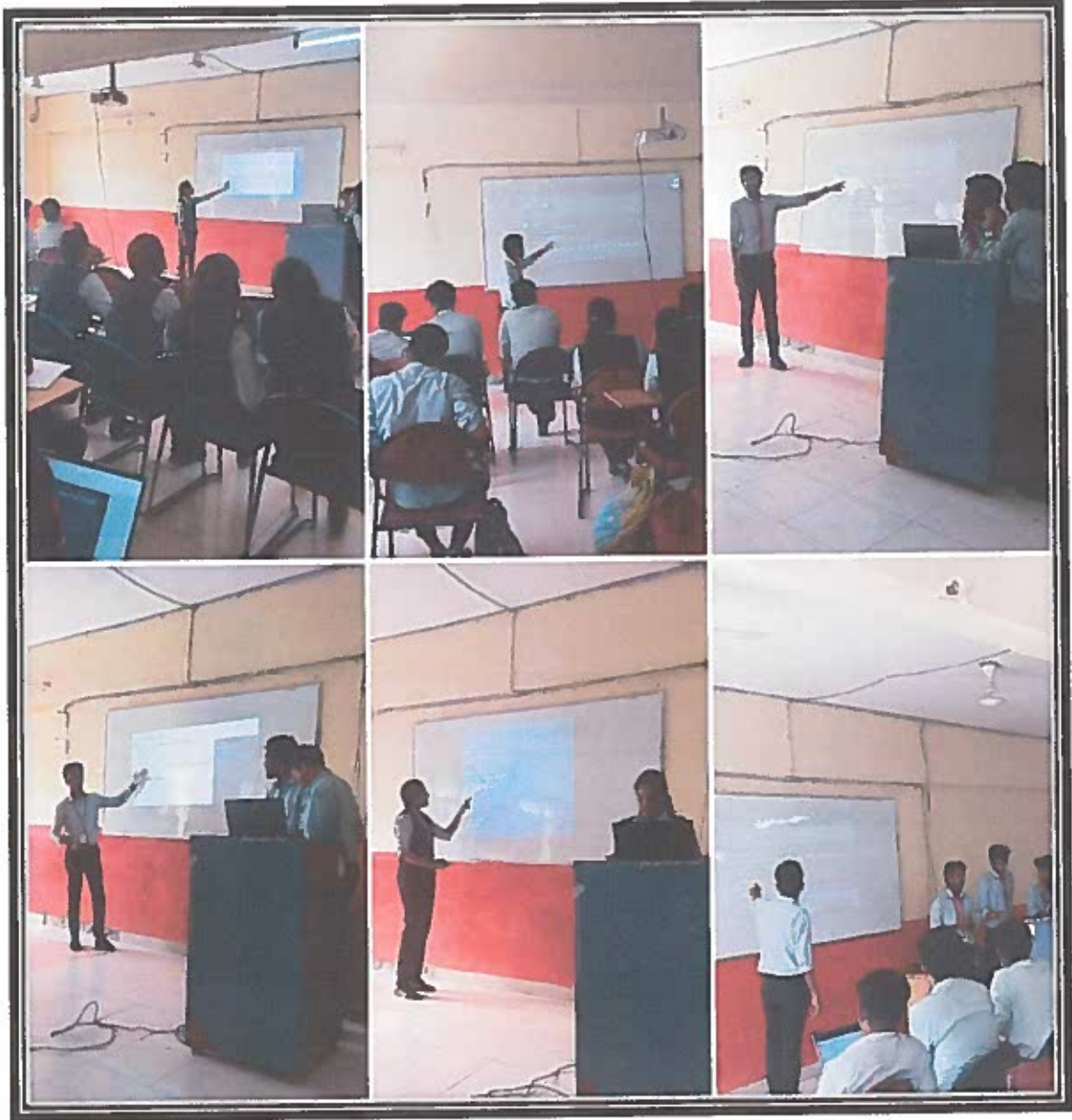
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Sample pic of student receiving certificate from Principal madam after the workshop



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Workshop on AI and Machine Learning:

A workshop was conducted on AI and Machine Learning by corporate trainer. In this session, explained the concepts of application development and problem specific solutions, improved decisions by understanding AI/ML models and practical insights, skill diversification. AI encompasses various subfields, including machine learning (ML) and deep learning, which allow systems to learn and adapt in novel ways from training data. It has vast applications across multiple industries, such as healthcare, finance, and transportation.

S. No	Class	Activity	Faculty	Date	No of Students
8	BSC-II YEAR	WORKSHOP ON ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING	EXTERNAL-CORPORATE TRAINER	15/04/2023	100

Sample Pic of students attending AI workshop



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Seminar on Cyber Security and Ethical Hacking:

A Seminar was conducted on cybersecurity and ethical hacking by corporate trainer, Mr. Kartikeya Kumar. In this session it was explained clearly about securing online data, user authentication, and privacy protection. It also focused on cyber threats, methods used by hackers and created awareness about importance of cyber security. Ethical hackers focus on identifying and resolving security vulnerabilities, while cybersecurity experts aim to protect networks and data from unauthorized access. The tools, techniques and preventive measures to secure systems and data.

S. No	Class	Activity	Faculty	Date	No of Students
1	BSC-I YEAR	SEMINAR	KARTIKEYA KUMAR	18/04/2023	100

Sample pic of seminar welcome banner

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KOMPALLY SECUNDERABAD

Welcomes you to

A Seminar on
Cyber Security & Ethical Hacking

18th April, 2023

Speaker
Mr. Kartikeya Kumar
HRBP Consultant | Analyst | International Trainer



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Sample picture of Seminar session conducted by corporate trainer



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Seminar on Career Development:

A Seminar was conducted on Career development for final year students by Mrs Dilys Marvin. In this session it was explained clearly about how to create career path and professional life. It included assessing, how students are now, compared to where they want to be and creating a plan to get there. How to choose occupation or profession in their career, what kind of training programs needed, what are best sources before taking up career decision by proper research on the internet, newspapers and meet with people.

S. No	Class	Activity	Faculty	Date	No of Students
2	BSC-III YEAR	SEMINAR-CAREER DEVELOPMENT	MRS.DILYS MARVIN	22/02/2023	100

Sample pictures of students attending seminar on career development



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Training session on AWS:

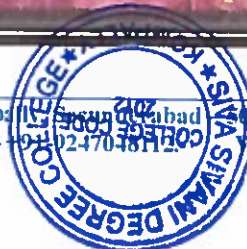
A Training session was conducted on AMAZON WEB SERVICES by Mr.Sai Krishna,Cloud and Devops Engineer.It was a 8 day session .Session started with basic introduction and importance of Cloud services and employment opportunities.It enabled the students to gain knowledge on how to manage resources in cloud computing and cloud storage. Later he explained the complete training modules . Students raised some doubts and they shared views. The training program was concluded by doubts session and the feedback given by the students.

Class	Activity	Faculty	Date	No of students
B.Sc III Year	Training Session (AMAZON WEB SERVICES)	MR.SAI KRISHNA	2/09/2023	30

Sample pic of welcome banner of Training session



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Sample pic of students attending the training session



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List of registered student's mail-id's

NO	HALL TICKET	NAME	CLASS
1	201221467001	KARTHIK.Y	BSC 3R
2	201221467009	VIGNESH BABU	BSC 3R
3	201221467013	KAVITHA GUNTUR	BSC 3R
4	201221467015	SANDHYA KOYYANA	BSC 3R
5	201221467018	B. KRISHNA MOHAN REDDY	BSC 3R
6	201221467020	ADITHYA REDDY.P	BSC 3R
7	201221467022	MADHUKAR.G	BSC 3R
8	201221467026	DAKSHITHA REDDY.M	BSC 3R
9	201221467031	BHAVANA MADDI	BSC 3R
10	201221467032	ADITHYA MADALA	BSC 3R
11	201221467033	KISHORE.D	BSC 3R
12	201221467035	THARUN	BSC 3R
13	201221467037	N.JAHANAVI SANTOSHINI	BSC 3R
14	201221467043	SHREYA.A	BSC 3R
15	201221467044	SMRITHI CHANDA	BSC 3R
16	201221467045	CHITRA PRIYA.JVS	BSC 3R
17	201221467046	SATYA	BSC 3R
18	201221467047	REVATHI.M	BSC 3R
19	201221467049	SRIJA.K	BSC 3R
20	201221467057	NANDINI.R	BSC 3R
21	201221467059	DEEPIKA.S	BSC 3R
22	201221467065	SUPRIYA.P	BSC 3R
23	201221467067	PRANAY KUMAR REDDY.G	BSC 3R
24	201221467070	AMISHA KUMARI	BSC 3R
25	201221467071	MOHAMMED ISMAIL	BSC 3R
26	201221467072	PATIL VIJAY KUMAR	BSC 3R
27	201221467073	HEMA CHANDANA.K	BSC 3R
28	201221467075	MOUNIKA.G	BSC 3R
29	201221467090	JYOTHI.K	BSC 3CVR
30	201221474017	MANOJ KUMAR	BSC 3CVR

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MINI PROJECTS

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Mini Projects:

The primary objective of mini-projects at Siva Sivani Degree College is to apply theoretical knowledge to practical scenarios, fostering hands-on experience and problem-solving skills. These projects, as a part of academic curriculum aim to cultivate a deep understanding of programming languages, algorithms, and software development methodologies. By engaging in mini-projects, students refine their ability to design, implement, and test software solutions, encouraging creativity and innovation in tackling real-world challenges. Additionally, these projects encourage teamwork, time management, and effective communication skills. Ultimately, they serve as a bridge between theoretical learning and real-world applications, empowering students to develop robust, functional, and scalable solutions within the realm of computer science.

Sample of mini project's details

BSc (DS) II Year

S. No	ROLL NUMBER	STUDENT NAME	PROJECT NAME
1	2	UTTAM KUMAR	AI DESKTOP ASSISTANT
2	3	SUBRATH	DEFINITION GPT
3	4	K. JAYANTH	TIME TABLE MANAGEMENT SYSTEM
4	5	PAVAN SAI	HOTEL MANAGEMENT SYSTEM
5	6	SRI NIKITHA	QUIZ MASTER
6	7	RISHITHA	ATTENDENCEMANAGEMENT SYSTEM
7	8	KAVYA.B	INVENTORY MANAGEMENT SYSTEM
8	10	HARSHITHA. D	EXAM HALL SEATING ARRANGMENT
9	11	PAVANI.T	RESTAURANT BILL MANAGEMENT SYSTEM
10	13	SRI HARSHA.S	QUIZ MASTER
11	14	AKHILA.P	EMPLOYEE PAYMENT MANAGEMENT SYSTEM
12	15	BINDHUJA.D	AIRLINE TICKET RESERVATION
13	16	KODANDARAM	COLLEGE AUTOMATION SYSTEM

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14	17	AJAY.CH	LIBRARY MANAGEMENT SYSTEM
15	18	SAI VISHAL.P	MUSICPLAYLIST MANAGEMENT
16	19	SURYA.A	LIBRARY MANAGEMENT SYSTEM
17	20	KEERTHI.V	AIRLINE TICKET RESERVATION
18	21	TEJASWI	STUDENTATTENDENCE MANAGEMENT SYSTEM
19	22	AMRUTHA	RAILWAY RESERVATION
20	23	NAVYA SRI	STUDENTATTENDENCE MANAGEMENT SYSTEM
21	24	SRI LIKITHA	EMPLOYEE PAYMENT MANAGEMENT SYSTEM
22	26	MANJULA	RESTAURANT BILL MANAGEMENT SYSTEM
23	27	AMITHA	STUDENT INFORMATION SYSTEM
24	28	SNEHA	MEDICAL STORE MANAGEMENT
25	30	PUJITHA	INVENTORY MANAGEMENT SYSTEM
26	31	BHAVYA SRI	ATTENDENCEMANAGEMENT SYSTEM
27	32	MEGHANA.T	MEDICAL STORE MANAGEMENT
28	33	NITHYA SANTHOSHINI	STEGANOGRAPHY
29	34	VIVEK	FEE MANAGEMENT
30	35	ANILKUMAR	FEE MANAGEMENT
31	36	HARSHAVARDHAN	MUSICPLAYLIST MANAGEMENT
32	37	SHOBITH	DEFINITION GPT
33	38	SAI SURAJ	HOTEL MANAGEMENT SYSTEM
34	39	GNANESHWAR	OPEN CHAT
35	40	BHARGAVA SAI	DEFINITION GPT
36	41	VARUN	TIME TABLE MANAGEMENT SYSTEM
37	43	SHIVA NANI	OPEN CHAT
38	44	KARTHIK	AI DESKTOP ASSISTANT
39	45	NIKHIL	INVENTORY MANAGEMENT SYSTEM
40	46	VIGNESH GOUD	INVENTORY MANAGEMENT SYSTEM
41	47	PAVANI.S	RAILWAY RESERVATION
42	48	NEHA KUMARI	STUDENT INFORMATION SYSTEM
43	49	G.MEGHANA	STEGANOGRAPHY
44	50	CH.SNEHA	EXAM HALL SEATING ARRANGMENT
45	51	SREEKAR	COLLEGE AUTOMATION SYSTEM

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B.Sc. (MSCs) II Year

S.NO	ROLL NUMBER	STUDENT NAME	PROJECT NAME
1	1	DEEKSHITH	EXAMINATION RESULTS
2	11	RAKSHITHA	HOTEL MANAGEMENT SYSTEM
3	52	UPENDHAR	STUDENT ATTENDANCE
4	53	UDAY KIRAN	STUDENT ATTENDANCE
5	54	VENKATESHWAR	MEDICAL STORE MANAGEMENT
6	55	RAMA RAO	COLLEGE AUTOMATION SYSTEM
7	56	BADRINATH	EMPLOYEE MANAGEMENT SYSTEM
8	57	ADISHEKAR	EXAMINATION RESULTS
9	58	MALAVIKA	HOSPITAL MANAGEMENT
10	59	SUPRIYA	HOTEL MANAGEMENT SYSTEM
11	60	SRAVANI	BANK MANAGEMENT SYSTEM
12	61	NAVYA SRI	BANK MANAGEMENT SYSTEM
13	62	SANJANA	BLOOD BANK MANAGEMENT
14	63	KAVYA	HOSPITAL MANAGEMENT
15	64	RAVINDRA	ONLINE QUIZ
16	65	ROSHAN	ECOMMERCE WEBSITE
17	66	AJAY	EMPLOYEE MANAGEMENT SYSTEM
18	67	BALAJI	LIBRARY MANAGEMENT
19	68	SRI VARSHITHA	STUDENT INFORMATION SYSTEM
20	69	VINAY	COLLEGE MANAGEMENT
21	70	PRIYANKA	AIR TICKET RESERVATION
22	71	SIRI RAJESHWARI	AIRLINE TICKET RESERVATION
23	72	SRAVANI	INVENTORY MANAGEMENT SYSTEM
24	73	YASHWANTH	E COMMERCE
25	74	RAHUL	RAILWAY MANAGEMENT SYSTEM
26	76	SAI TEJA	HOSPITAL MANAGEMENT
27	77	MALLIKARJUN	
28	78	HARIKA	INVENTORY MANAGEMENT SYSTEM
29	79	GANESH KUMAR	PYTHON QUIZZ
30	80	SHIVA PRASAD	EMPLOYEE MANAGEMENT SYSTEM
31	81	ANAND	ECOMMERCE WEBSITE
32	82	ANIRUDH	HOSPITAL MANAGEMENT

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33	83	HAAJRA SULTHANA	STUDENT INFORMATION SYSTEM
34	84	MAHESH	EMPLOYEE MANAGEMENT SYSTEM
35	85	LOKESH	LIBRARY MANAGEMENT
36	87	SHIVA SHANKAR	ONLINE QUIZ
37	88	SHAIK NAJEEB HEJAZI	EMPLOYEE MANAGEMENT SYSTEM
38	89	AKHIL	EMPLOYEE MANAGEMENT SYSTEM
39	90	NEHA	BANKING MANAGMENT
40	91	RAMYA	BLOOD BANK MANAGEMENT
41	92	TEJASHWINI	FEE MANAGEMENT
42	93	SANJANA	BANKING MANAGMENT
43	94	LEELA NAGA SURENDRA	ONLINE QUIZZ
44	95	KRISHNA CHAITHANYA	MEDICAL STORE MANAGEMENT
45	96	SANTHOSH GOUD	RETAIL BRAND OPTIMISATION
46	97	VIGNESH	COLLEGE MANAGEMENT
47	98	PRAKASH PANDEY	PYTHON QUIZZ
48	100	KARTHIK	RAILWAY MANAGEMENT SYSTEM

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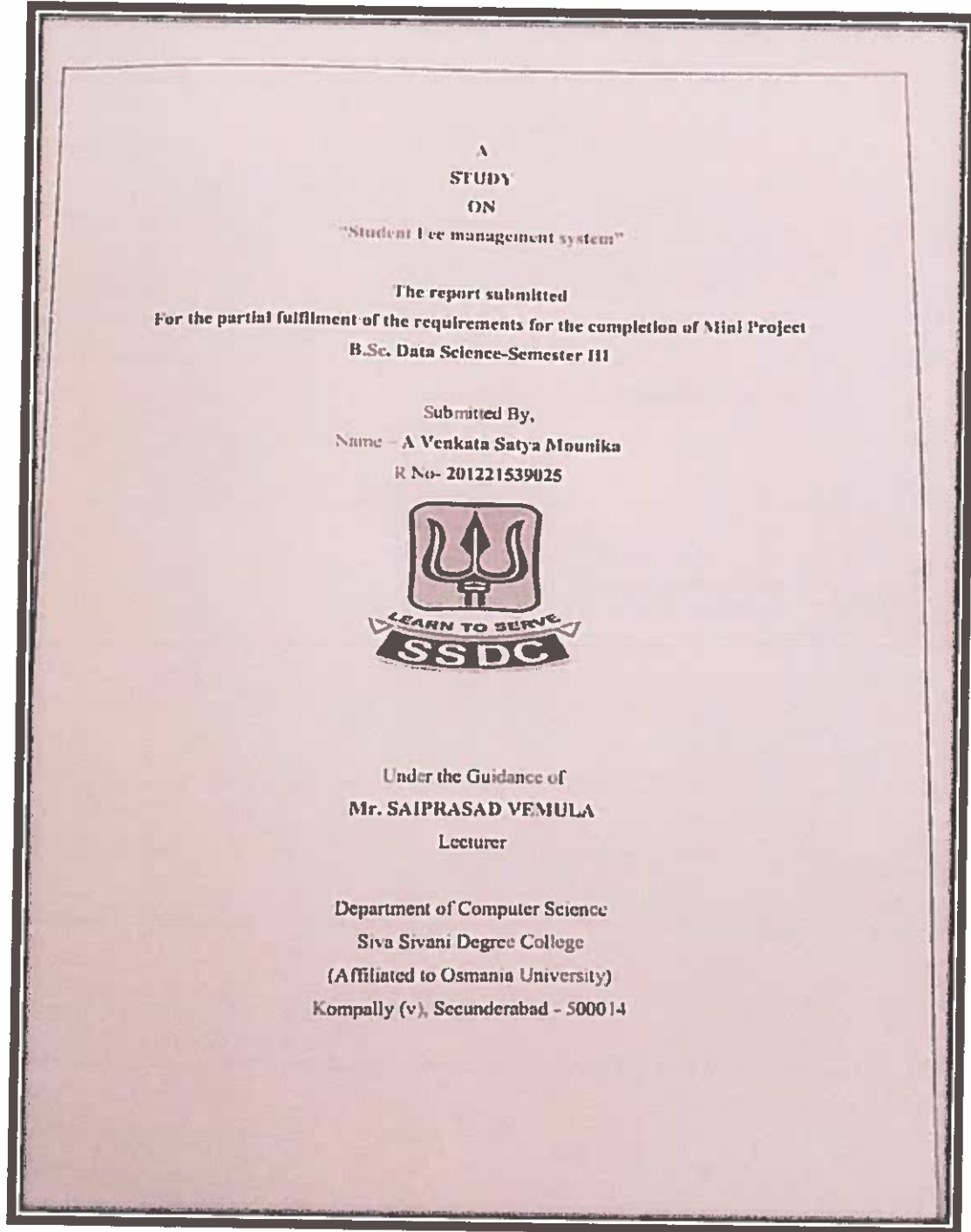
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Sample Picture of Mini Project:



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DECLARATION

I, **A. VENKATA SATYA MOUNIKA**, a student of B.Sc. Data Science, III Semester of SIVA SIVANI DEGREE COLLEGE, hereby declare that, the Mini project titled "STUDENT FEE MANAGEMENT SYSTEM" is an original work done by me under the guidance and supervision of Mr. SAIPRASAD VEMULA, Lecturer, Department of Computer Science, SIVA SIVANI DEGREE COLLEGE, SECUNDERABAD

Further, I state that this project work is the result of my own efforts and have not plagiarized or submitted the same work for the award of any other certificate

In case this undertaking is found incorrect, I accept that my project work will be rejected.

Mounika

Name: **A. Venkata Satya Mounika**
Roll No: **201221539025**

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ACKNOWLEDGEMENT

The success of this min project is credited to people who have helped me and I find that it is my duty to convey acknowledgement and sincere thanks to them.

I take much pleasure to express my deep sense of gratitude and thankfulness to My Mini project guide **Mr. SAIPRASAD VEMULA**, Lecturer, **SIVA SIVANI DEGREE COLLEGE** for the valuable guidance and constant co-operation throughout my Mini project work, which helped me to gain more knowledge and develop my practical thinking.

I am thankful to the Principal **Mrs. P. Mamatha**, for her cooperation throughout the completion of my mini project and for providing the necessary lab equipment.

I also express my deepest gratitude to my parents.

Mounika

Name: **A. Venkata Satya Mounika**
Roll No: **201221539025**





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MAJOR PROJECTS

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Major Projects:

The aim of Major Projects at Siva Sivani Degree college is to merge theoretical knowledge with practical skills in computer science, enabling students to apply their learning to real world scenarios, solving problems and demonstrate their capabilities within the field. By focussing on these aspects students can not only deepen their understanding of computer science but also acquire practical skills. Major projects hold significant importance in the academic curriculum of Siva Sivani Degree College. Major projects often involve research, analysis, and presentation skills, preparing students for real-world challenges. Completing major projects also showcases a student's capability and commitment, which can be valuable for future academic or career opportunities.

Sample of major project's details BSc (MSCs&MECs) III Year

S.NO	HALL TICKET	NAME	PROJECT TITLE
1	201220474007	BOKKA NIHARIKA REDDY	ACCIDENT DETECTION AND ALERT SYSTEM
2	201220467095	MAREDDY RAKSHITHA REDDY	ACCIDENT DETECTION AND ALERT SYSTEM
3	201220474026	ETTABOINA PAVITHRA	ARTIFICIAL INTELLIGENCE AND COVID 19 DEEP LEARNING APPROACHES FOR DIAGNOSIS AND TREATMENT
4	201220474031	GUDALA BHARGAVI	ARTIFICIAL INTELLIGENCE AND COVID 19 DEEP LEARNING APPROACHES FOR DIAGNOSIS AND TREATMENT
5	201220467094	MAMATHA RAVATH RAJPUTH	BIRDS SPECIES IDENTIFICATION USING DEEP LEARNING
6	201220467099	KAMISETTI NANDINI	BIRDS SPECIES IDENTIFICATION USING DEEP LEARNING
7	201220467084	AKULA ADITHYA	BLOCKCHAIN BASED CERTIFICATE VALIDATION
8	201220467096	BANGARVADI SANTHOSH	BLOCKCHAIN BASED CERTIFICATE VALIDATION
9	201220467100	PANUGANTI CHANDANA	BLOCKCHAIN FOR SECURING IOT DATA
10	201220474038	BIJJARAM VIJAY KUMAR REDDY	CARTOON OF IMAGE
11	201220474030	DWARAPUDI HEMANTH KUMAR	CARTOON OF IMAGE

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12	201220474014	ALLAM SHIVA SUBRAMANYAM	CONSTRUCTION SITE ACCIDENT ANALYSIS USING TEXT MINING AND NLP
13	201220474036	A PRANAY KUMAR YADAV	CONSTRUCTION SITE ACCIDENT ANALYSIS USING TEXT MINING AND NLP
14	201220474016	PANJALA NITHISHA	CREDIT CARD FRAUD DETECTION USING RANDOM FOREST ALGORITHM
15	201220467088	POREDDY ANUSHA	CREDIT CARD FRAUD DETECTION USING RANDOM FOREST ALGORITHM
16	201220467076	CHILUKURI GANESH	CRIME HOTSPOT
17	201220467081	SURNIDA SAI KIRAN	CRIME HOTSPOT
18	201220474018	CHIKURTHI SRAVANI	CROP YIELD PREDICTION USING MACHINE LEARNING
19	201220474022	GUMMADIDALA PRAVALLIKA	CROP YIELD PREDICTION USING MACHINE LEARNING
20	201220474023	GANUGU LOKESH	CRYPTOCURRENCY PRICE ANALYSIS WITH AI
21	201220474027	VANAM NARESH BABU	CRYPTOCURRENCY PRICE ANALYSIS WITH AI
22	201220474008	CHAPPIDI DURGA MAHESH	DISEASE PREDICTION USING MACHINE LEARNING
23	201220474011	PULI SAI SUDHIR GOUD	DISEASE PREDICTION USING MACHINE LEARNING
24	201220474040	KOTTE SURYA KIRAN	FAKE IMAGE DETECTION
25	201220474042	KAMMARI SACHIN KUMAR	FAKE IMAGE DETECTION
26	201220467091	RYKALA YASWITHA	FAKE NEWS DETECTION USING MACHINE LEARNING
27	201220467092	RYKALA AKANKSHA	FAKE NEWS DETECTION USING MACHINE LEARNING
28	201220467077	POLAMONI THARUN YADAV	GENDER AND AGE CLASSIFICATION USING CNN
29	201220474046	BADDAM VINITH REDDY	GENDER AND AGE CLASSIFICATION USING CNN
30	201220474017	E AKSHITHA	HANGMAN GAME
31	201220474020	KONGANI DEVAYANI	HANGMAN GAME
32	201220467082	U S SRI DHANVY	HOTEL BILLING SYSTEM
33	201220467093	BABU KUMMARI HARISH	HOTEL BILLING SYSTEM
34	201220467079	VARAGANTI AKSHIKA	HUMAN ACTIVITIES DETECTION
35	201220467098	NEHA DEVGADE	HUMAN ACTIVITIES DETECTION
36	201220467090	D AMULYA	IMAGE BASED QUESTIONS AND ANSWERING SYSTEM

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37	201220467078	VASAVI	IMAGE BASED QUESTIONS AND ANSWERING SYSTEM
38	201220467087	MOLUGURI SHASHANK	IMAGE CAPTION GENERATOR USING CNN AND LSTM
39	201220467097	PEETALA ROHITH SAI VENKATA SUBHASH	IMAGE CAPTION GENERATOR USING CNN AND LSTM
40	201220474006	DHATRIKA AKASH	INDIAN SPORTS CLUB
41	201220474021	KUTHADI PRANITH	INDIAN SPORTS CLUB
42	201220474002	NIKHIL DESHPANDE	IPL MATCH PREDICTION
43	201220474024	RACHAPALLY NIKHIL	IPL MATCH PREDICTION
44	201220474010	M PRIYANKA	MACHINE LEARNING BASED APPROACHES FOR DETECTING COVID-19 USING CLINICAL DATA
45	201220474044	ADHI PRAVALIKA YADAV	MACHINE LEARNING BASED APPROACHES FOR DETECTING COVID-19 USING CLINICAL DATA
46	201220474012	N. SHESHWANTH KUMAR	MACHINE LEARNING BASED PREDICTION OF HOUSE PRICING
47	201220474033	MANCHI SAI TEJA	MACHINE LEARNING BASED PREDICTION OF HOUSE PRICING
48	201220474001	B. VIVEKANANDA REDDY	PRICE TRACKER USING WEB SCRAPING
49	201220474039	ABHISHEK KUMAR SINGH	PRICE TRACKER USING WEB SCRAPING
50	201220474004	KVVS SAI PHANENDRA	RESELLING CAR PRICE PREDICTION USING MACHINE LEARNING
51	201220474013	R PAVAN KUMAR	RESELLING CAR PRICE PREDICTION USING MACHINE LEARNING
52	201220474041	D.SANTOSH REDDY	SIGN LANGUAGE RECOGNITION USING CONVOLUTIONAL NEURAL NETWORKS
53	201220474045	AKULA SAI VAMSHI	SIGN LANGUAGE RECOGNITION USING CONVOLUTIONAL NEURAL NETWORKS
54	201220474003	TH. SANJEEV KUMAR	STOCK MARKET TREND USING KNN
55	201220474028	MARAM SRINIVAS REDDY	STOCK MARKET TREND USING KNN
56	201220474005	PULIMAMIDI SNEHA	STRESS DETECTION IN IT PROFESSIONALS BY IMAGE PROCESSING AND MACHINE LEARNING
57	201220474009	PREETHI KUMARI	STRESS DETECTION IN IT PROFESSIONALS BY IMAGE

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			PROCESSING AND MACHINE LEARNING
58	201220474032	MANCHI SAI KRISHNA	SUPER MARKET BILLING SYSTEM USING WEBCAM
59	201220474050	CHENNURI ROHITH REDDY	SUPER MARKET BILLING SYSTEM USING WEBCAM
60	201220474025	SINGROL BINEETH KUMAR	SUSPICIOUS ACTIVITY DETECTION
61	201220474037	M NIBIN ABRAHAM	SUSPICIOUS ACTIVITY DETECTION
62	201220474029	R. BHARGAV VARMA	TRAFFIC PREDICTION FOR INTELLIGENT TRANSPORTATION SYSTEM USING MACHINE LEARNING
63	201220474047	KAMUNI SAI PAVAN	TRAFFIC PREDICTION FOR INTELLIGENT TRANSPORTATION SYSTEM USING MACHINE LEARNING
64	201220474015	THORLIKONDA SURAJ KUMAR	USING OF ARTIFICIAL NEURAL NETWORKS TO IDENTIFY FAKE PROFILES
65	201220474043	BUSHIMI VENU	USING OF ARTIFICIAL NEURAL NETWORKS TO IDENTIFY FAKE PROFILES
66	201220474034	B.KARTHIK YADAV	VEHICLE NUMBER PLATE DETECTION USING OCR
67	201220474048	RITESH KUMAR JHA	VEHICLE NUMBER PLATE DETECTION USING OCR
68	201220467089	SIRVI ASHOK KUMAR	YOU TUBE SPAM DETECTION USING MACHINE LEARNING
69	201220467085	K VEERA NAGA PRASAD	YOU TUBE SPAM DETECTION USING MACHINE LEARNING

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Sample Picture of Major Projects

A
STUDY
ON
"PRICE TRACKER USING WEB SCRAPING"
*A Project Report Submitted in Partial Fulfillment of the Requirement for the
award of the Bachelor Degree of
B.Sc (MECs)*
Submitted by
Bendram Vivekananda Reddy
(201220474001)



Under the guidance of
Mrs. S Madhavi
LECTURER
DEPARTMENT OF COMPUTER SCIENCE



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Prof. M. KAMALAKAR
 Executive Vice President

M. MADHATHA
 Principal

SAILESH SAMPATHY
 Vice President & Dy. Chief Executive
DEEPIKA SAMPATHY
 Associate Vice President

Date: 22/5/23

CERTIFICATE

This is to certify that the project work titled " PRICE TRACKER USING WEB SCRAPING " has been submitted by MR. BENDRAM VIVEKANANDA REDDY bearing the Hall ticket Number 201220474001 of final year to Osmania University in partial fulfillment of the requirements for the award of the Degree of B.Sc (MECS) is a bonafide research work carried out by him under the guidance and supervision of Mrs. S. Madhavi, Lecturer, Dept. of Computer Science for the academic year 2022-2023.

Madhavi
INTERNAL EXAMINER
 Mrs. S. MADHAVI
 Lecturer



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B. Ketha
 25/5/23
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A
STUDY
ON

"IPL MACTH PREDICTION"

*A Project Report Submitted in Partial Fulfilment of the Requirement for the
award of the Bachelor Degree of*

B.Sc. (MECs)

Submitted by

NIKHIL DESHPANDE

201220474002



Under the guidance of
Mrs. S MADHAVI
LECTURER

DEPARTMENT OF COMPUTER SCIENCE



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Executive Vice President

P.MAMATHA

Principal

SARLESH SAMPATHY
 Vice President & Dy. Chief Executive

DEEPIKA SAMPATHY

Associate Vice President

Date: 24/05/2023

CERTIFICATE

This is to certify that the project work titled " IPL MATCH PREDICTION " has been submitted by **MR. NIKHIL DESHPANDE** bearing the Hall ticket Number **201220474002** of final year to Osmania University in partial fulfillment of the requirements for the award of the Degree of B.Sc (MECS) is a bonafide research work carried out by him under the guidance and supervision of Mrs. S. Madhavi, Lecturer, Dept. of Computer Science for the academic year 2022-2023.

Madhavi
INTERNAL EXAMINER
 Mrs. S. MADHAVI
 Lecturer



[Signature]
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 (S.No.118-427-1000/1000/1000)

B. Katta
25/5/23

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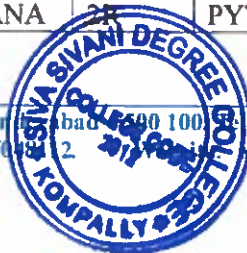
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Online Certification courses:

Online certification courses at Siva Sivani Degree College aim to offer a convenient and flexible way to acquire new skills and credentials. These courses cover a wide array of subjects, allowing individuals to enhance their knowledge in various fields, advance their careers, or even switch professions. With diverse platforms and reputable institutions offering these programs, online certification courses provide accessible and cost-effective opportunities for continuous learning and professional development. College encouraged students to attend different courses like Python, Cyber Security, Advance Excel and other courses. There are around 112 students registered for this program, completed their courses and certified by different institution like University of Mary land GUVI, Skill India and IT Desk etc.

S.No	HALL TICKET	NAME	CLASS	COURSE
1	201222539018	CHEBELLI AJAY KUMAR	2DS A	PYTHON
2	201222539018	CHEBELLI AJAY KUMAR	2 DS A	OTHER COURSES
3	201222539022	D.HARSHITHA	2 DS A	PYTHON
4	201222539070	POTHUGANTI SREEKAR	2 DS A	CYBER SECURITY
5	201222539050	CHENNA SNEHA	2 DS A	PYTHON
6	201222474002	CHUKKATEJAS HWINI	2CVR	PYTHON
7	201222467050	CHENCHALA KAVYA	2R	PYTHON
8	201222467056	KANDI BHAVANI	2R	PYTHON
9	201222539070	M.PRIYANKA	2DS B	CYBER SECURITY
10	201222467056	M.RAKSHITHA	2R	CYBER SECURITY
11	201222467059	MEDI PALLAVI	2R	PYTHON
12	201222467049	BHAVANI KUMMARI	2R	PYTHON
13	201222467088	MOUNIKA RAULO	2R	PYTHON
14	201222467006	BINDESHWARI GIRI	2CVR	CYBER SECURITY
15	201222467088	T.SATHVIKA	2R	PYTHON
16	201222467082	R. CHANDANA	2R	PYTHON

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17	201222467065	YEMBADI SATHWIKA	2R	PYTHON
18	201222474011	KONDU KEERTHI	2CVR	PYTHON
19	201222467065	YEMBADI SATHWIKA	2R	PYTHON
20	201222467019	POOJA DUDHATE	2CVR	CYBER SECURITY
21	201222467054	NIKHITHA MADDHURI	2R	PYTHON
22	201222467089	TALUPULA ASHMITHA	2CVR	PYTHON
23	201222474023	AMULYA VADLA	2CVR	CYBER SECURITY
24	201222467035	JAGGANNAGARI SATHVIKA REDDY	2R	PYTHON
25	201222467019	POOJA DUDHATE	2CVR	CYBER SECURITY
26	201222467063	MD.NEHA	2R	PYTHON
27	201222467063	MD.NEHA	2R	PYTHON
28	201222467065	MUNISHETTY HARSHITHA	2R	PYTHON
29	201222539005	ARUTLA ROSHAN	2 DS B	PYTHON
30	201222539071	PSIRI RAJESHWARI	2 DS B	PYTHON
31	201222467010	VEERANJANEY ULU BOYINA	2R	PYTHON
32	201222467091	GEETHA	2R	PYTHON
33	201222474024	SRI SPOORTHI YANGAM	2CVR	PYTHON
34	201222467029	G. NIKITHA YADAV	2R	PYTHON
35	201222539084	SHIVA SHANKAR	2 DS B	PYTHON
36	201222467043	K. SOWMYA	2R	PYTHON
37	201222467085	SAMANTHULA PAVANI	2R	PYTHON
38	201222467040	S. PAVANK	2R	PYTHON
39	201222467067	MUSKAN SINGH	2R	PYTHON
40	201222539088	PAVAN SAI	2 DS A	OTHER COURSES

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41	201222589068	SAI VISHAL	2 DS A	PYTHON
42	201222539095	V YASHWANTH	2 DS B	PYTHON
43	201222467021	SIKATI ABHINAYA	2R	PYTHON
44	201222467021	SIKATI ABHINAYA	2R	PYTHON
45	201222467014	CHINAPANA SUPRIYA	2R	PYTHON
46	201222539030	VARUN YADAV	2DS A	PYTHON
47	201222467018	CHAMANTHIK URI LAKSHMI DURGA	2R	PYTHON
48	201222467066	RICHITHA	2R	PYTHON
49	201222467092	V AJAY KUMAR	2R	PYTHON
50	201222539039	K. RAVINDRA KUMAR	2 DS B	PYTHON
51	201222467001	ABHISHEK	2R	PYTHON
52	201222539046	ANAND MACHHA	2 DS B	PYTHON
53	201222467044	NIKHILESH REDDY	2R	PYTHON
54	201222467009	AINDHRIKA	2R	PYTHON
55	201222467044	NIKHILESH REDDY	2R	PYTHON
56	201222467009	AINDHRIKA	2R	PYTHON
57	201222467020	MANI KUMARI	2R	CYBER SECURITY
58	201222467052	BHAGYASREE	2R	PYTHON
59	201222467081	RASHMITA SI	2CVR	CYBER SECURITY
60	201222467011	KOTTAKALAP UDI PAVANI	2R	PYTHON
61	201222474016	NACHARAM MANISHA	2CVR	PYTHON
62	201222467061	NACHARAM SRAVANI	2R	PYTHON
63	201222539073	P.AKHILA	2 DS A	PYTHON
64	201222467057	M.HARIPRIYA	2R	PYTHON
65	201222467057	M.HARIPRIYA	2R	OTHER COURSE
66	201222467071	NARLA POOJITHA	2R	PYTHON
67	201222539039	K. RAVINDRA KUMAR	2 DS B	PYTHON

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68	201222539081	SUBRATH SENAPATI	2 DS A	PYTHON
69	201222539082	SHAIK NAJEEB HEJAZI	2 DS B	PYTHON
70	201222467078	PREETHI	2R	PYTHON
71	201222539025	DUDIMETLA MAHESH	2 DS B	PYTHON
72	201222467072	PAMIREDDY DIVYA SREE	2R	PYTHON
73	201222539011	METTU. RAKSHITHA REDDY	2 DS B	OTHER COURSES
74	201222467091	GEETHA	2R	OTHER COURSE
75	201222467093	E.RAJESH REDDY	2CVR	PYTHON
76	201222539095	V YASHWANTH	2 DS B	PYTHON
77	201222467077	K.BALAMURAL I KRISHNA	2CVR	PYTHON
78	201222467067	MUSKAN SINGH	2R	PYTHON
79	201222539050	CHENNA SNEHA	2 DS A	OTHER COURSE
80	201222467021	SIKATI ABHINAYA	2R	PYTHON
81	201222467040	SHAMANTHAL A PAVANI	2R	PYTHON
82	201222467016	RAVI KIRAN REDDY	2R	PYTHON
83	201222467088	MOUNIKA RAULO	2R	OTHER COURSES
84	201222539039	K. RAVINDRA KUMAR	2 DS B	PYTHON
85	201222467045	KODEPAKA MUKESH KUMAR	2R	PYTHON
86	201222467049	BHAVANI KUMMARI	2R	OTHER COURSES
87	201222539018	CHEBELLI AJAY KUMAR	2 DS A	OTHER COURSE
88	201222467014	CHINAPANA SUPRIYA	2R	OTHER COURSE
89	201222474002	CHUKKATEJAS HWINI	2CVR	PYTHON
90	201222467096	KARNAM VINAY KUMAR	2CVR	PYTHON

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91	201222467088	T.SATHVIKA	2R	OTHER COURSES
92	201222467040	SAMANTHULA PAVANI	2R	OTHER COURSES
93	201222467052	BHAGYASREE	2R	PYTHON
94	201222467056	MAILARAM RAKSHITHA	2R	OTHER COURSES
95	201222467056	MAILARAM RAKSHITHA	2R	CYBER SECURITY
96	201222467010	VEERANJANEY ULU YADAV	2R	PYTHON
97	201222467037	PRIYANKA	2R	CYBER SECURITY
98	201222467093	E.RAJESH REDDY	2CVR	OTHER COURSES
99	201222467066	G. RICHITHA	2R	EXCEL FOR BEGGINERS
100	201222467066	G. RICHITHA	2R	OTHER COURSES
101	201222467066	GANNARAPU RICHITHA	2R	OTHER COURSES
102	201222539006	B.AJAY	2 DS B	PYTHON
103	201222467071	NARLA. POOJITHA	2R	OTHER COURSE
104	201222467057	M.HARIPRIYA	2R	CYBER SECURITY
105	201222467056	M. RAKSHITHA	2R	CYBER SECURITY
106	201222467093	E. RAJESH REDDY	2CVR	PYTHON
107	201222539015	B KAVYA	2 DS A	OTHER COURSE
108	201222467065	M.HARSHITHA	2R	PYTHON
109	201222539059	N. VENKATESHW AR REDDY	2 DS B	PYTHON
110	20122253947	M KARTHIK GOUD	2 DS A	OTHER COURSE
111	201222539030	VARUN	2 DS A	PYTHON
112	201222539059	PITLA SUPRIYA	2 DS B	PYTHON

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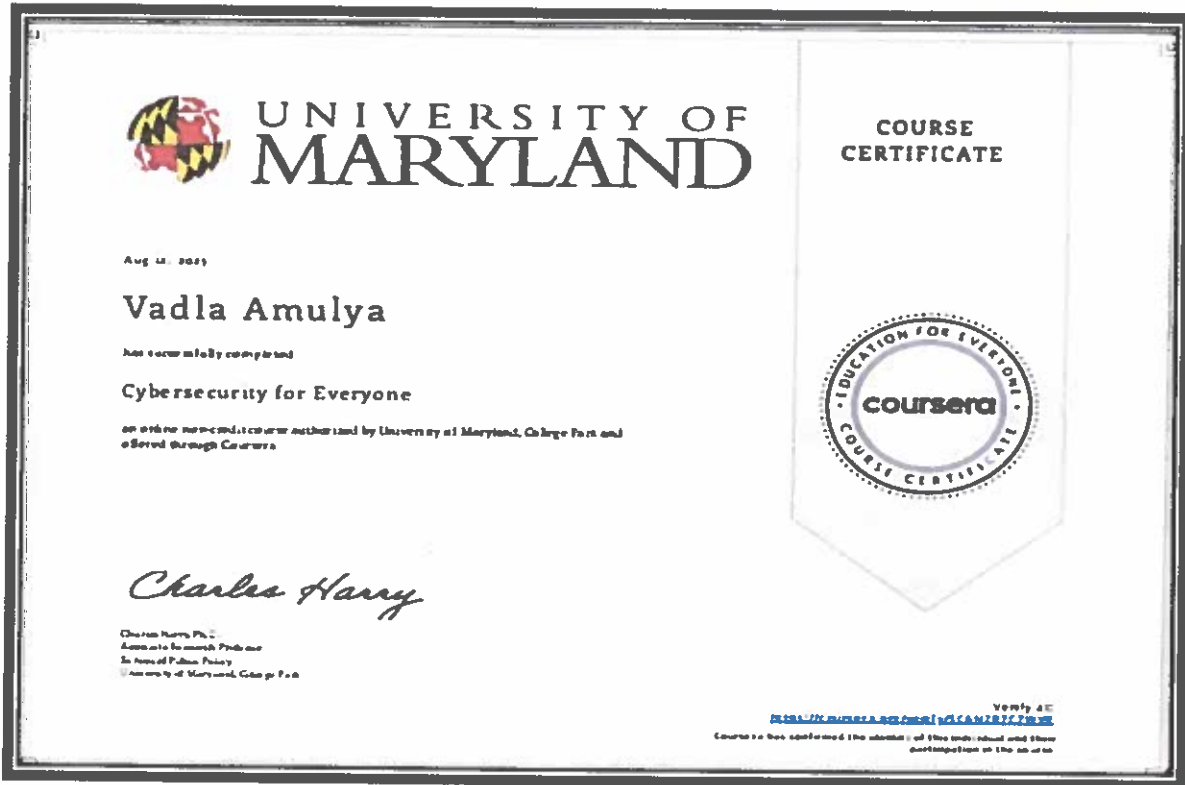


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INTERNAL CERTIFICATION COURSES

At Siva Sivani Degree College various Internal Certification Courses for BSc students were conducted by corporate trainers on different courses like R-Programming, Python with AI and ML, Python with GUI, Python with Data Analytics and Advance MS Office. These courses hold significant importance as they serve as additional avenues for students to acquire specialized knowledge, skills, and expertise in specific areas beyond their regular academic curriculum. These courses offer practical and industry-oriented learning experiences, often focusing on niche subjects or skill sets relevant to various career paths. Certificate courses enhance students' profiles, making them more competitive in the job market by showcasing their commitment to continuous learning and professional development. They also provide opportunities for networking, mentorship, and practical application of theoretical concepts, empowering students to explore diverse interests and broaden their career prospects. Around 371 students enrolled for these courses and benefited.

S.NO	CLASS	COURSE NAME	DURATION	INSTITUTE	FACULTY	No. of students Registered
1	BSC(MSCS)III	R-PROGRAMMING	18/01/2023 - 16/02/2023	FOCUS	Mr. SURENDAR	69
2	BSC (MSCS)/MECS III	PYTHON WITH AI AND ML	01/07/2022 - 30/07/2022	ONE IT	Mr. SRIKANTH	69
3	BSC (MSCS)II	PYTHON WITH GUI	30/01/2023 - 28/02/2023	FOCUS	Mr. NARESH	68
4	BSC(MSCS)/MECS II	PYTHON WITH DATA ANALYTICS	19/12/2022 - 20/01/2023	FOCUS	Mr. SANTOSH	69
5	BSC (MSCS) I	ADVANCE MS OFFICE	16/08/2022 - 20/09/2022	ONE IT	Mr. NANDA KUMAR	96
			TOTAL			371

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Sample Picture of Certificate of completion :



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PARTICIPATIVE LEARNING

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PARTICIPATIVE LEARNING

Participative learning, also known as interactive or active learning, involves engaging students directly in the learning process. It encourages collaboration, discussion, and hands-on activities, fostering a dynamic learning environment. This approach contrasts with traditional lecture-style teaching, aiming to promote critical thinking, problem-solving, and a deeper understanding of the subject matter through active student involvement.

This includes the following various activities given below:

S. No	Activity
1	Group Discussion
2	JAM
3	Debate
4	Presentations
5	Situational Talks
6	Collage
7	Coding and Decoding
8	Aptitude
9	Communicative English
10	Technical Skills

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GROUP DISCUSSIONS:

At Siva Sivani Degree College, Group Discussions (GDs) are instrumental in preparing students for the dynamic challenges of the professional world. A pivotal element in the recruitment process, GDs serve as a structured platform for evaluating candidates' communication, collaboration, and presentation skills within a group dynamic. Typically involving 6 to 15 participants, these discussions focus on specific to picture or problems relevant to contemporary industry demands.

The emphasis at Siva Sivani Degree College goes beyond assessing mere knowledge; GDs play a vital role in gauging interpersonal skills, teamwork, and the ability to think critically under pressure. By integrating GDs into the academic framework, the college ensures that students not only excel in their respective fields but also cultivate the essential soft skills sought by employers. This strategic approach aligns with the college's commitment to holistic education, empowering students to navigate and succeed in a competitive professional landscape.

Description: (Activity duration: 1 hour)

Session – 1: 15 minutes for preparation of points such as lead (Core Point), Content points of the given topic, with highlights and low lights, along with 2 closure points

Session – 2: 35 Minutes – Each group is provided by an observer to conduct GD. Each group is given 5 minutes for Discussion, followed by Evaluation based on leadership skills, confidence, body language, Communication Skills, content of the topic, eye contact, Team Work, & logical thinking Etc., along with closure

Session – 3: 10 Minutes – Finally given feedback to students for their further improvement and progress.

Outcome: Every group member interpersonal and interactive skills are enhanced along with good communication skills and also all the groups participated by maintaining the decorum.

Sample Group Discussion Topics

- Online Exams- Pro or Con?
- Open Book Exam

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- Should the Practice of Yoga be made Mandatory in Schools?
- Should Uniforms be Mandatory at Educational Institutions?
- Is MBA necessary to be Successful in Business?
- Skill vs. Concept
- The Impact of Technology on Employment
- Work-Life Balance is a Myth.
- Will Automation and Artificial Intelligence reduce or increase Jobs
- Lessons that the world learned from the Covid-19 pandemic
- 5G and its impact on the Indian and global economy.
- Artificial intelligence decision making -Pros and Cons.
- Drone technology-future of this technology (Pros & Cons)
- Android vs IOS
- Digital Privacy
- Job Creation in rural areas.
- Non-Fungible Tokens (NEFTs)
- Electric Vehicles
- Web 3.0(advancements)

Sample Schedule of Group Discussions:

S. No	Class	No of Participants	Faculty Coordinator
1	II DS	48	Ms. Swapna
2	I DS	40	Ms. Srivalli
3	I DS	40	Ms. Srivalli
4	I CVR	60	Ms. Safina
5	I CSE	48	Mr. Ravi
6	III CVR	46	Ms. Sirisha
7	I CVR	48	Ms. Madhavi
8	III R	40	Ms. Ramadevi
9	I R	45	Ms. Madhavi
10	I CSE	42	Ms. Sirisha



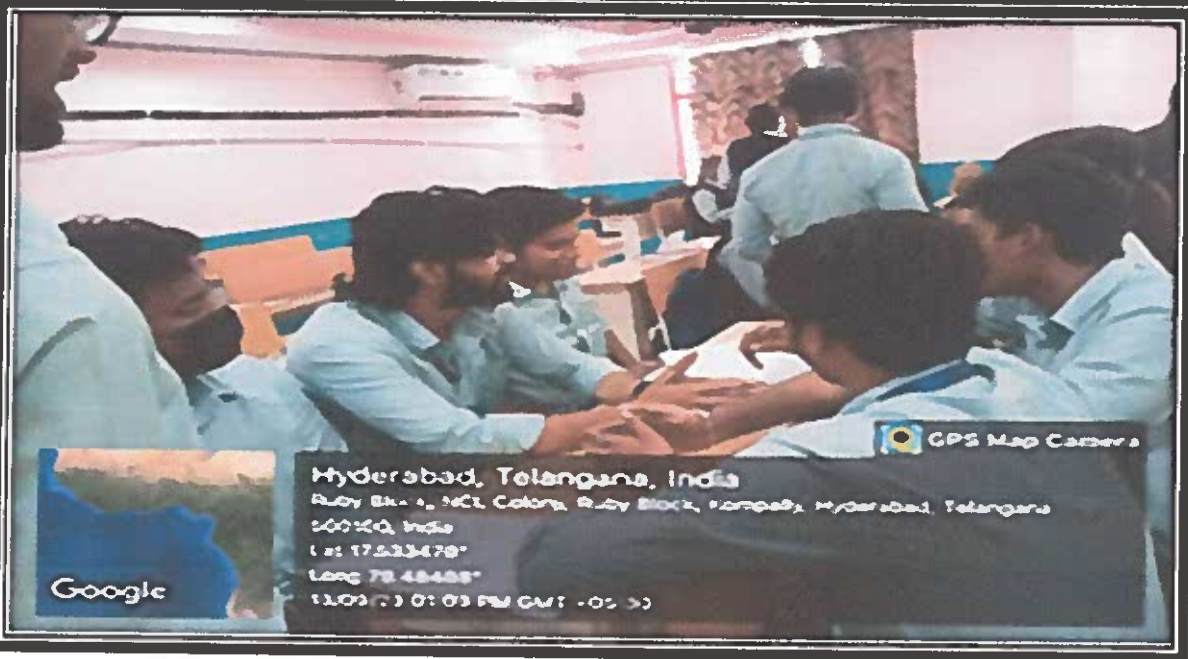


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Sample picture of group discussion



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Sample picture of evaluation sheet:

22/9/23 SIVA SIVANI DEGREE COLLEGE

Group Discussion Evaluation Sheets

Group No: 3 Evaluation Name: Mounika

Participants Name	Roll No	Initiation	Content	Body Language	Communication skills	Leadership Skills	Time Management	Conclusion	Remark
Madhu	90		2	2		2	2		8
K. Harika	71	2	2	2		2	2		10
B. Hemalatha	68		2	2		2	2		8
musali	49		2	2	2	2	1		9
Manohar	03		2	2		2			6
Harith	01		2	2		2			6
Hema sundi	31		2	2		2		2	8
Jayanth	23		2	2		2			6
Akhil	06		2	2	1				5

JUST A MINUTE(JAM)

At Siva Sivani Degree College, the "Just a Minute" (JAM) speaking exercise stands as a dynamic tool for honing students' spontaneous communication skills. This engaging activity involves participants speaking on a given topic for one minute, navigating the challenge of avoiding hesitation, repetition, or deviation. Beyond being a fun and interactive exercise, JAM serves a dual purpose: to enhance quick thinking and articulate thoughts persuasively while adhering to the time constraint.

Siva Sivani Degree College recognizes the significance of these skills in academic and professional spheres. JAM sessions not only foster confidence in students' ability to express ideas on the spot but



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also contribute to their overall communication proficiency. By integrating such exercises, the college emphasizes a holistic approach to skill development, ensuring that students are well-equipped to face diverse communication challenges in their academic journey and future careers.

Description:

Session – 1: Each student is presented with different topic, provided with 30 seconds of time to think on the topic and one minute time is given to speak spontaneously.

Session – 2: Duration: 35 Minutes: Each student one after the other speak on the given topic for a minute.

Session – 3: Evaluation of each student is done based on their hand gestures, body language, confidence levels, fillers and pauses, anxiety levels, stage fear, communication skills and Time management.

Session – 4: Duration 10 Minutes: Finally, feedback is given to students for further improvement and progress.

Outcome: Students exhibit their potential and thought process with spontaneity with their confidence, by utilizing the given time appropriately and overcome their stage fear.

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Sample of Just a Minute Topics

- Online vs Offline classes.
- A Memorable moment.
- My favourite subject/topic.
- Bad experience.
- College Life.
- School Days.
- My Best friend
- Corruption.
- Pollution.
- Mobile usage.
- Men vs women.
- Unemployment.
- Tell about your village.

Sample Schedule of JAM sessions:

S.no	Class	No of Participants	Faculty Coordinator
1	II CVR	50	Ms. Swapna
2	I DS	42	Ms. Srivalli
3	I DS	35	Ms. Srivalli
4	II DS B	35	Ms. Safina
5	III DS A	45	Ms. Madhavi
6	I R	56	Ms. Madhavi
7	I R	55	Ms. Madhavi
8	II DS A	40	Ms. Ramadevi
9	III R	44	Ms. Swapna
10	I CVR	45	Ms. Ramadevi

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Sample Picture of JAM session



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Sample Picture of Evaluation Sheet

JAM SESSION EVALUATION SHEET

Faculty Name: S Madhavi Class: 3 DS-A Date: 10-8-23

Roll no	Name	Body language (2m)	Content (2m)	Time management (2m)	Communication (2M)	Conclusion (2M)	Total (10M)
012	K Sumanth	1	1	2	1	1	7
003	Raglava	2	1	1	1	1	6
006	Venkatesh	1	2	1	1	2	6
010	Praneeth Kumar	1	1	2	1	2	6
015	Gajathi	2	1	1	1	1	6
017	Shaik Siddika	1	1	2	1	1	6
019	M Rabul	2	1	1	2	1	7
020	Ashutosh	1	1	1	2	1	6
021	Pruthvi	2	2	1	1	2	8
023	Ruchika	1	1	1	1	1	5
023	Eshwar	2	1	1	2	1	7
024	Adikya	1	1	1	2	1	6
027	Prajanna	2	1	2	1	1	7
029	Deepthi	1	2	1	1	2	7
029	Deepthi	1	1	1	1	1	5
031	T. Sandhya	2	1	1	1	1	6
032	K. Priyanka	1	1	2	1	1	6
037	Shivani	1	1	1	1	1	5
037	Sakshi	2	1	1	1	1	6
038	Speethika	1	1	2	1	1	6
040	Sr. Lakshmi	2	1	1	1	1	6
041	Shatan Tesa	1	1	2	1	1	6
042	Varun	1	1	2	1	1	6



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DEBATE:

At Siva Sivani Degree College, debates serve as dynamic forums for students to articulate and defend their perspectives on various topics. Following a structured format with opening statements, rebuttals, cross-examinations, and closing statements, participants engage in intellectual discourse. The college's debate culture likely contributes to the development of critical thinking, research prowess, and effective communication skills among students. Covering diverse subjects, these debates foster intellectual exploration and provide a platform for constructive dialogue. Siva Sivani Degree College's approach to debates is likely a valuable educational tool, encouraging students to analyse, articulate, and defend their ideas in a challenging and supportive environment.

Description:

Session 1: 15 mins Introduction- Student are presented with a topic, given few minutes of time to think on the topic and time is given to present their opinions

Session 2: 20 mins- Participants- the speakers on the Affirmative team presents arguments in support of the resolution and the other speakers on the opposing team presents arguments opposing the Resolution

Session 3: 15 mins Evaluation- debaters are evaluated based on the ability to form balanced, informed arguments and to use reasoning and evidence.

Session 4: 10 mins Feedback- Feedback was given to motivate, encourage, and challenge the debaters.

Outcomes:

Debate helped learners to see the power of deploying rational, reasoned arguments and compelling evidence in action. It enables them to elucidate their standpoint through utilizing rhetorical eloquence. It instills in debaters a great sense of poise and confidence. It teaches them the skills of researching, organizing, and presenting information in a compelling fashion.

Sample of Debate topic

- A college degree is essential for getting a good job.
- Education should be privatized.
- Education should focus on maths and science rather than music and art.
- Does Technology control us?
- Privacy concerns in the era of smart homes.

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- Impact of social media on mental well-being.
- The impact of 5G technology on global connectivity.
- Robotics advancements in healthcare, manufacturing, and beyond.
- Cybersecurity measures in the face of evolving digital threats.
- Will robots replace teachers in the classroom?
- Should technology be used to enhance human abilities?
- Do you think technology is making the world a better place or a worse place?
- Is artificial intelligence something we should fear or embrace?
- Should we spend more money on education through technology or by employing more school teachers?
- What are some of the benefits of using technology in classrooms?
- What are some of the drawbacks of using technology in classrooms?
- Money spent to explore the other planets: is it worth it?
- Are websites necessary for organizations
- Technology is making us dumber. Agree or disagree?
- Is online education as good as traditional offline education?

Sample Schedule of debate sessions:

S. No	Class	No. of Participants	Faculty Co-ordinator
1	III R	55	Ms. Jayasree
2	I CVR	56	Ms. Madhavi
3	I R	58	Ms. Madhuri
4	III CVR	54	Ms Shirisha
5	I DS	53	Ms Ramadevi
6	II DS	55	Ms Satyakala
7	II CVR	54	Ms Latha
8	II R	58	Ms Leena
9	III DS	56	Ms Gouthami
10	III R	42	Ms. Shebin

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Sample picture of Debate



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Sample picture of evaluation sheet

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DEBATE SESSION - EVALUATION SHEET

CLASS: B.Sc. IYR

S.NO	NAME	HALLTICKET NO	CONTENT	BODY LANGUAGE	COMM. SKILLS	TIME MGMT	CONCLUSION	TOTAL	REMARKS
1	B. hanish	201223467008	4.5	4.5	5	4.5	5	28.5	
2	B. sankar	201223467013	5	5	4.5	5	-	19	
3	L. Manisha	201223467018	4.5	5	4.5	5	-	19	
4	Susredas	201223467009	3	2	4	5	-	14	
5	G. Akhil	201223467030	4.5	4.5	4.5	3	-	18.5	
6	Ramadevi	201223467038	4.5	5	4.5	5	5	24	
7	Vishal J.	201223467046	3	3.5	2.5	4	-	13	
8	praveen Kumar Reddy	201223467051	4	3.5	4.5	2.5	-	15.5	
9	Ashwatha	201223467067	3	2	3	4	-	12	
10	prabach R.T.	201223467078	2	3.5	4.5	3	-	13	

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DEBATE SESSION - EVALUATION SHEET

CLASS: B.Sc. IYR

S.NO	NAME	HALLTICKET NO	CONTENT	BODY LANGUAGE	COMM. SKILLS	TIME MGMT	CONCLUSION	TOTAL	REMARKS
1	P. Karthik	201223467079	4.5	3	2.5	4	-	14	
2	S. Anshu Kumar	201223467091	3	3	4	3	-	13	
3	vishnu vardhan	201223467095	5	5	5	4.5	5	26.5	
4	Sahil Kumar	201223467086	2.5	3.5	3.5	2.5	-	12	
5	T. Shaomika	201223467099	3.5	3.5	4	3	-	14	
6	M. Anvisha	201223467065	5	4	3	2	-	14	
7	hima Sundara Rao	201223467107	4	4	3	4	-	15	
8	V. Anand. Karishma	201223467106	4	5	5	5	5	24	
9	K. vijay Kumar	201223467065	3.5	3.5	3.5	3.5	-	14	
10	Sri Tarshal	201223467053	3	2.5	3.5	2	-	11	

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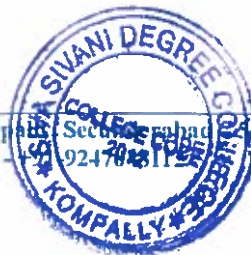
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PRESENTATIONS

At Siva Sivani Degree College, presentations span a diverse array of topics, fostering a culture of exploration and learning across disciplines. Students deliver presentations on subjects ranging from technology and science to humanities, arts, and social sciences. In the realm of technology, students showcase innovations in software development, artificial intelligence, and emerging tech trends, igniting discussions on the future of these fields. College encourages students to present on contemporary issues, encouraging critical analysis and innovative solutions. Through these presentations, we cultivate a rich intellectual environment, where diverse ideas converge, encouraging collaboration and holistic learning among students and faculty. Presentations were conducted on various topics related to mathematics, statistics, computer science, general and current affairs.

Sample schedule of Presentations

S.no	Class	No of Participants	Faculty Coordinator
1	III CVR	40	Ms Sirisha
2	I DS	35	Mr Siva Prasad
3	I DS	40	Ms. Aswini
4	II DS B	30	Ms. Mamatha
5	II CVR	45	Mr. Santosh
6	I CVR	50	Ms. Madhavi
7	I R	55	Ms. Madhavi
8	III R	45	Mr P Srinivas Rao
9	II DS A	40	Ms. Sandhya
10	I CSE	40	Mr Siva Prasad



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Sample picture of Presentations



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Sample pic of evaluation sheet

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 PRESENTATION - EVALUATION SHEET

S.NO	STUDENT NAME	ROLL NO	TOPIC	CONTE NT	SLIDE DESGIN	COMM SK	TIME MGT	LOGICAL ANALYSIS	CONCLUSION	TOTAL
1	B. Nikitha	001	Mental health	3	4	4	4	4	3	22
2	M. Saja	002	mental health	4	4	4	4	3	3	22
1	Sneha	006	mental values	2	3	4	3	2	2	16
2	Neeha	007	mental values	2	3	4	3	2	3	17
1	manoj	017	Online shopping	4	4	3	4	3	4	20
2	aditya	032	Online shopping	4	4	4	4	4	4	24
1	Jyotsna	038	Mobile banking	3	3	3	3	3	3	18
2	Karthik	045	Mobile banking	3	3.5	3	3.5	3	3	19
1	Nutan	015	Crypta currency	4	3	2	3	3	4	19
2	Shiva	016	Crypta currency	2	4	3	3	3	4	20
1	Rohith	012	artificial intelligence	5	5	5	5	5	5	25
2	aparna	028	artificial intelligence	5	5	5	5	5	5	25
1	Gayatri	035	Digital marketing	4	3	3	3	2	4	19
2	Devi	036	Digital marketing	3	4	4	4	4	2	21

SITUATIONAL TALK:

Conducting a situational talk for our college students involved creating a structured discussion around a specific topic or scenario. The session began with an introduction to the topic and its importance. Students were given time to deliberate on the situation and encouraged to share their thoughts, experiences, and opinions. Keeping track of time to stay on schedule, key points of the talk were summarized and assessed. Students were given the opportunity to ask questions or seek clarification on any points discussed. The talk was conducted in an engaging and respectful atmosphere encouraging diverse perspectives, and ultimately contributing to their learning and personal growth.

Outcomes:

The situation is successfully resolved and addressed by students, ambiguities or uncertainties in the situation are clarified. Consensus or agreement is reached among involved parties. Informed



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decisions are made based on shared information. A clear plan of action is developed to tackle the situation.

Sample schedule of Situational talk

S.no	Class	No of Participants	Faculty Coordinator
1	I CVR	40	Ms Sirisha
2	III DS	35	Mr Siva Prasad
3	I DS	40	Ms. Aswini
4	II DS B	30	Ms. Mamatha
5	II CVR	45	Mr. Santosh
6	III CVR	50	Ms. Madhavi
7	I R	55	Ms. Madhavi
8	III R	45	Mr P Srinivas Rao
9	II DS A	40	Ms. Sandhya
10	III R	40	Mr Siva Prasad



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Sample picture of situational talk



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Kompally, Medchal-Malkajgiri (Dt)-500100



S. P. Sampathy's Siva Sivani Educational Society (2906/97)
SIVA SIVANI DEGREE COLLEGE
(Affiliated to Osmania University)



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COLLAGE

A collage is a creative composition made by combining various materials such as photographs, images, text, and other elements to create a visually cohesive piece. At Siva Sivani Degree College, collages are used as a form of artistic expression or as a project in certain courses. The process typically involves arranging and adhering different elements onto a surface, allowing for a diverse range of interpretations and styles. Collages can serve educational purposes, encouraging students to explore creativity, visual communication, and storytelling through the thoughtful arrangement of disparate elements.

Sample picture of collage competitions



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CODING & DECODING

Coding is a process in which a word or a series of numbers are encrypted in a specific code or pattern, designed based on a specific set of rules. On the other hand, decoding is the opposite process that aims to decrypt a particular code into its original form based on finding a common pattern or structure. At Siva Sivani Degree College, the main objective of conducting coding and decoding sessions is to equip the students with a strong foundation in coding, error correction methods and essential for various mathematical applications.

Sample schedule of Coding and Decoding sessions:

S. No	Class	No of Participants	Faculty Coordinator
1	II DS	55	Ms. RamaDevi
2	II CVR	55	Mr. Pavan
3	II DS B	46	Ms. Madhavi
4	III R	57	Ms. RamaDevi
5	II R	56	Ms. RamaDevi
6	III CVR	55	Ms. Jayasree
7	II DS A	56	Ms. RamaDevi
8	III R	55	Mr Venkatesh
9	III CVR	58	Ms. RamaDevi
10	III DS B	45	Mr. Pavan



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Sample picture of coding decoding training session



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APTITUDE:

At Siva Sivani Degree College, the focus on aptitude encompasses multifaceted areas, nurturing students' cognitive abilities and problem-solving acumen. The institution conducts comprehensive sessions covering quantitative aptitude, delving into mathematical concepts such as arithmetic, algebra, geometry, and data interpretation. These sessions aim to bolster students' numerical agility, crucial for various competitive exams and real-world problem-solving scenarios. Simultaneously, logical reasoning sessions are designed to hone critical thinking, pattern recognition, and deductive skills. Through puzzles, syllogisms, and logical deductions, students cultivate the ability to analyze information systematically and make informed decisions. Through these varied aptitude sessions, Siva Sivani Degree College endeavours to equip students with a versatile skill set, enhancing their preparedness for competitive exams, interviews, and professional challenges while fostering a holistic and well-rounded education.

Sample schedule of Aptitude:

S.no	Class	No of Participants	Faculty Coordinator
1	III R	44	Ms. Sandhya
2	I DS A	46	Ms. Mamatha
3	III DS A	37	Mr. Krishna Mohan
4	I CVR	38	Mr D. Srinivas Rao
5	III DS B	37	Mr. P. Srinivasa Rao
6	I CSE	44	Ms. Sandhya
7	II DS B	44	Ms. Sandhya
8	III CVR	43	Mr D. Srinivas Rao
9	II DS	38	Ms. Kruthi
10	II R	49	Ms. Sandhya

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Mamatha

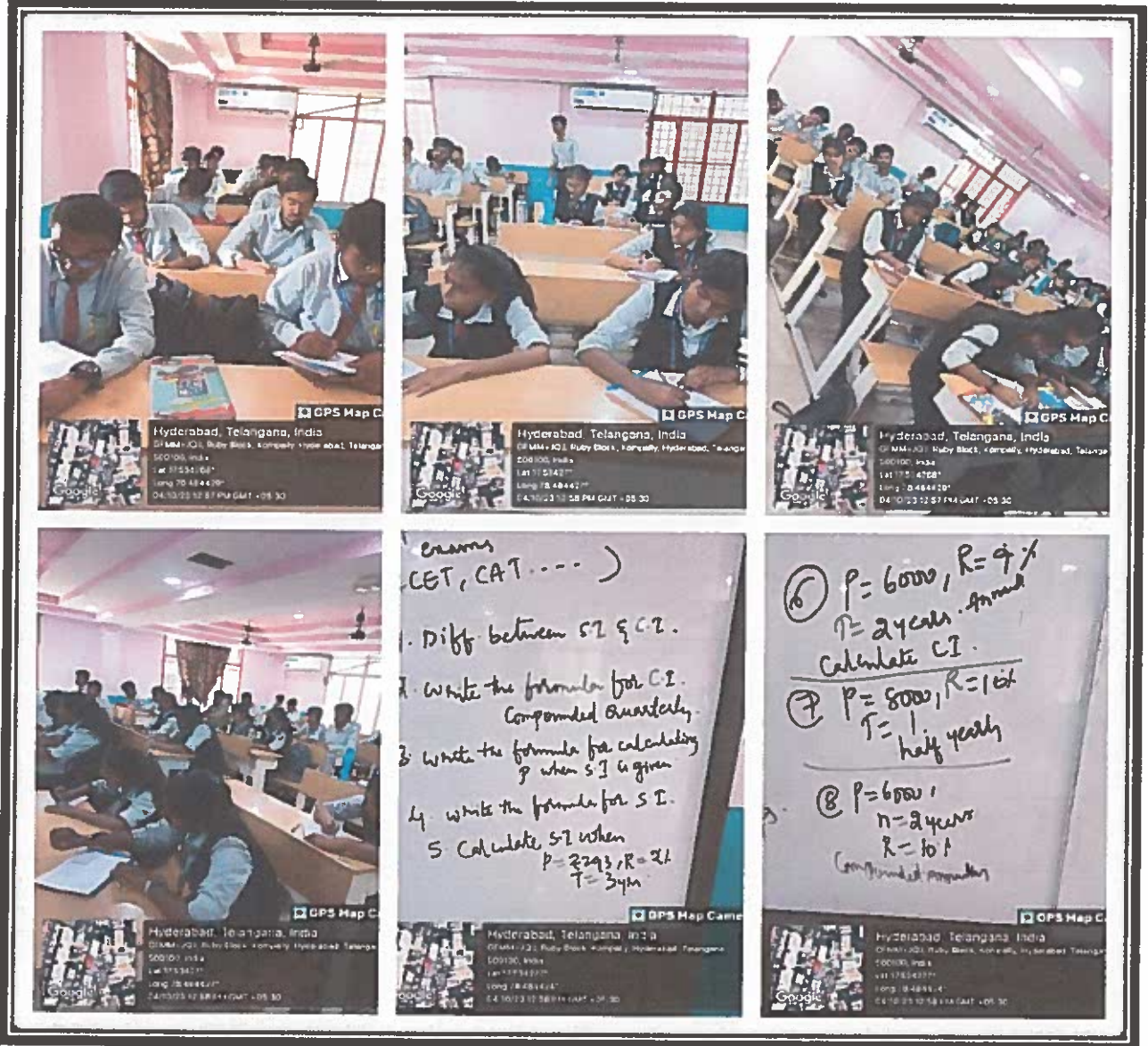
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Sample picture of aptitude training session



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COMMUNICATIVE ENGLISH:

At Siva Sivani Degree College, Communicative English forms an integral part of the curriculum, emphasizing proficiency in spoken and written English. The institution offers structured sessions designed to enhance students' language skills, focusing on grammar, vocabulary, comprehension, and effective communication.

These sessions aim to cultivate a strong foundation in English grammar, enabling students to express themselves accurately and fluently. Through interactive exercises and practical applications, students develop a robust grasp of grammatical rules and usage. Vocabulary enhancement sessions facilitate the expansion of students' word bank, equipping them with an extensive range of words and expressions for effective communication. Emphasis is placed on contextual usage and understanding nuances in various contexts.

Comprehension exercises are integrated to sharpen students' reading skills, enabling them to understand and analyze diverse texts, articles, and passages. This fosters critical thinking and enhances their ability to extract information effectively. Oral communication sessions encourage students to articulate ideas confidently and coherently. Through discussions, debates, and presentations, students refine their public speaking skills, fostering self-assurance and clarity in expression. Additionally, writing exercises focus on various formats such as essays, reports, and formal letters, aiming to improve students' written communication abilities. Attention is given to structuring, coherence, and effective conveyance of ideas. Furthermore, practical application modules offer opportunities for real-life scenarios, enabling students to apply their communicative English skills.



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Sample schedule of Communicative English sessions

S.no	Class	Activity name	No of Participants	Faculty Coordinator
1	III CVR	CORRECTION OF SENTENCES	60	Ms. Sharon Ann
2	III R	INTRODUCING YOURSELF	55	Mr. Laxman
3	III CVR	INTRODUCING YOURSELF	56	Mr. Laxman
4	III R	VERBAL	55	Ms. Eunice
5	I DS	COMPREHENSION PASSAGES	56	Mr. Laxman
6	III DS A	INTRODUCING YOURSELF	57	Ms. Eunice
7	III DS B	OBJECTIVE QUESTIONS	55	Mr. Laxman
8	III DSA	ESSAY WRITING	56	Mr. Laxman
9	III CVR	ESSAY WRITING	55	Ms. Shebin
10	III R	ESSAY WRITING	57	Mr. Laxman



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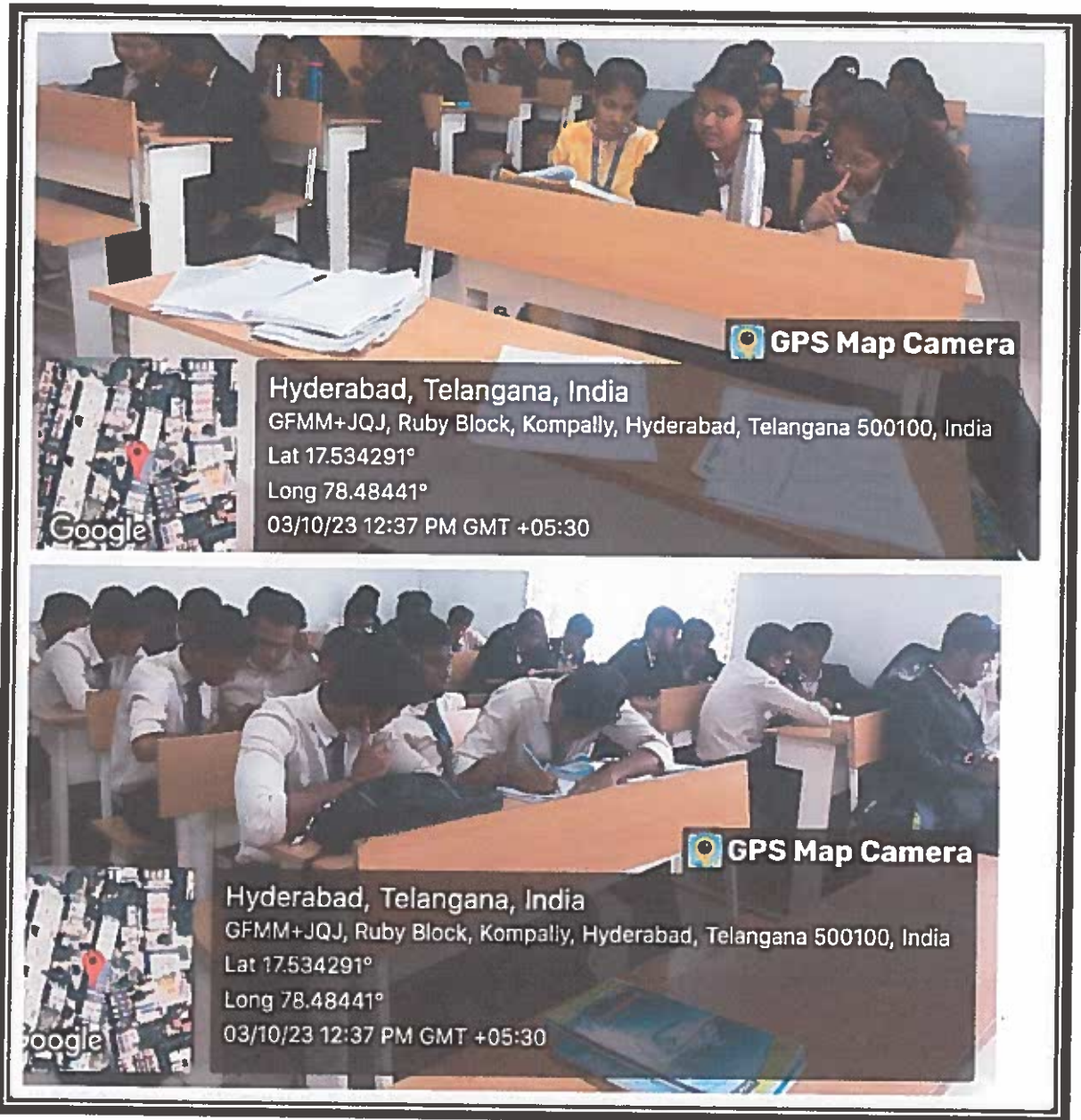


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Sample picture of Communicative English:



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TECHNICAL QUESTIONS:

Siva Sivani Degree College fosters a dynamic learning environment for BSc students in computer science by integrating technical questions that encompass various aspects of computer languages. Technical questions align with the curriculum, fosters a deeper understanding of computer languages, programming concepts, data structures, and various aspects of computing technology. The objective of incorporating technical questions for BSc students at Siva Sivani Degree College is to facilitate a comprehensive learning experience, preparing students not only for academic success but also for future careers in the dynamic and evolving field of computer science.

Sample schedule of Technical Questions session:

S. No	Class	No of Participants	Faculty Coordinator
1	II CVR	62	Ms. RamaDevi
2	II DS A	43	Mr Venkatesh
3	II DS B	43	Ms. RamaDevi
4	II CVR	56	Ms Jayasree
5	II DS A	41	Ms. RamaDevi
6	II DS B	40	Ms. RamaDevi
7	II CVR	51	Ms. Madhavi
8	II DS A	41	Mr. Venkatesh
9	II DS B	43	Ms. Jayasree
10	II CVR	56	Ms. RamaDevi

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Sample Picture of Technical Questions Session



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PROBLEM SOLVING METHODS

The problem-solving methods at Siva Sivani Degree College involve fostering creativity and innovation. Students are encouraged to think outside the box, considering unconventional solutions. The approach integrates technology and research, ensuring a holistic understanding of complex issues. Communication skills are also emphasized, as effective problem-solving often requires collaboration and the ability to articulate ideas. Through a dynamic and adaptive framework, Siva Sivani Degree College aims to equip students with versatile problem-solving skills applicable across disciplines.

In perspective of management students at Siva Sivani Degree College, problem-solving methods are tailored to address challenges encountered in the dynamic business environment. These methods emphasize strategic thinking, data-driven decision-making, and effective communication. Students learn to analyze and collaborate with peers to develop comprehensive solutions. The curriculum integrates real-world business scenarios, providing practical insights and preparing students to navigate complexities in various industries.

PROBLEM SOLVING METHODS

- Lab Records
- Assignments

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Lab Records:

Lab records at Siva Sivani Degree College serve as crucial documentation, encapsulating experiments' procedural details, observations, and conclusions. They aid in reinforcing theoretical concepts by applying them practically, promoting structured scientific methodology. These records act as references for future studies, ensuring accuracy and facilitating verification of experimental outcomes. Faculty assessment of lab records evaluates students' comprehension, adherence to protocols, and analytical skills. Encouraging meticulous record-keeping nurtures professionalism, preparing students for professional settings where maintaining accurate documentation is paramount. Overall, lab records foster a holistic learning environment, enhancing students' practical knowledge, scientific inquiry skills, and readiness for future academic and professional pursuits. We provide more than 200 programs and we make them to practice in lab to improve their technical skills.

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Sample picture of record:



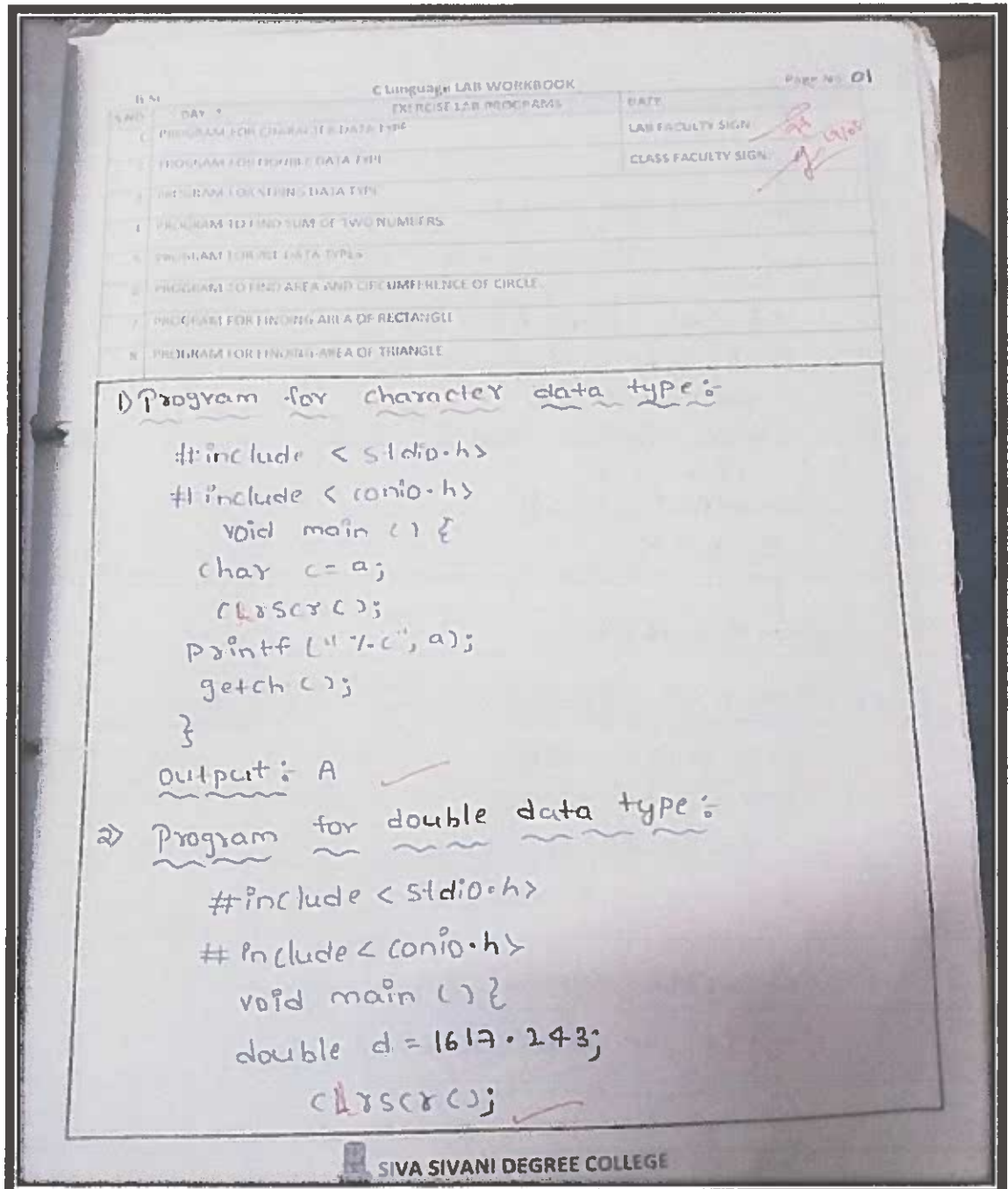
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Sample picture of lab work





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Assignments:

Assignments serve several important objectives in academics.

It Emphasize the application of management concepts to real-world scenarios. Assignments for management students aim to develop analytical skills, foster critical thinking, and enhance communication skills. They provide an opportunity to apply theoretical knowledge to real-world scenarios, bridging the gap between theory and practice. By presenting challenges, assignments evaluate students' understanding of management principles and their ability to communicate well-structured solutions. Additionally, assignments promote time management skills through clear deadlines, preparing students for the complexities of the business world.

Description.

- 1. Assessment of Understanding:** Assignments help instructors gauge students' comprehension of course material. They provide a means to assess whether students can apply concepts learned in class to practical situations or problems.
- 2. Skill Development:** Completing assignments allows students to develop and enhance various skills, including critical thinking, problem-solving, research, and writing. These skills are essential for academic success and future professional endeavours.
- 3. Application of Knowledge:** Assignments provide opportunities for students to apply theoretical knowledge to real-world scenarios. This application reinforces understanding and helps bridge the gap between theory and practice.

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STATISTICS

ASSIGNMENT

Name : D. TEJASHWINI

Class : B.Sc. data science II B

Rollno : 201222539092

Subject : statistics

College : Siva Sivani degree college, Kompally.

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1) CRITERIA FOR GOOD ESTIMATION

An estimator is said to be good estimator if it satisfies the following.

(i) Unbiasedness

(ii) Sufficiency

(iii) consistency

(iv) efficiency

(1) Unbiasedness

Let t be a statistic with a function of sample observations x_1, x_2, \dots, x_n and θ be a population parameter in a distribution with the density function $f(x, \theta)$ then the statistic t is said to be an 'unbiased estimator' for population parameter θ , if the expected value of a statistic is a parameter of the population i.e. expectation of statistic is equal to the parameter.

$$E(\text{statistic}) = \text{parameter}$$

$$E(t) = \theta$$

then t is an unbiased estimator for θ the following three cases exist

$$E(t) \neq \theta$$

then t is a biased estimator of θ

$E(t) > \theta$, then t is a positively biased estimator for θ

$E(t) < \theta$, then t is a negatively biased estimator for θ

(2) consistency

Let t be a statistic and θ be a parameter of population with pdf $f(x, \theta)$ where $x = x_1, x_2, \dots, x_n$ then t is said to be consistent parameter for θ

$$\text{if } P[|t_n - \theta| < \epsilon] \rightarrow 1 \text{ as } n \rightarrow \infty$$





By Chebyshev's inequality, we have

$$P[|\bar{X} - \mu| \geq k\sigma] \leq \frac{1}{k^2}$$

$$\text{if } k\sigma = \epsilon \Rightarrow k = \frac{\epsilon}{\sigma}$$

$$\text{Now equating on both sides } \Rightarrow k^2 = \frac{\epsilon^2}{\sigma^2}$$

$$\frac{1}{k^2} = \frac{\sigma^2}{\epsilon^2}$$

$$P[|\bar{X} - \mu| \geq \epsilon] \leq \frac{\sigma^2}{\epsilon^2}$$

$$P[|\bar{X} - \mu| \geq \epsilon] = \frac{\text{Var}(\bar{X})}{\epsilon^2}$$

$$\text{Here, } P[|\bar{X} - E(\bar{X})| \geq \epsilon] \leq \frac{\text{Var}(\bar{X})}{\epsilon^2}$$

$$\text{Now put } \bar{X} = t_n(\mathcal{X})$$

$$\left[\begin{aligned} \mu &= E(\bar{X}) \\ &= \sum_{x=1}^{\infty} x p(x) \end{aligned} \right]$$

$$\left[\begin{aligned} \mu &= \int_{-\infty}^{+\infty} x f(x) dx \end{aligned} \right]$$

$$\therefore P[|t_n(\mathcal{X}) - E(t_n(\mathcal{X}))| \geq \epsilon] \leq \frac{\text{Var}(t_n(\mathcal{X}))}{\epsilon^2}$$

$$\epsilon^2 \rightarrow 0 \text{ as } n \rightarrow \infty$$

(3) Sufficiency

Let X be a random variable which is either discrete (or) continuous with density function where ' θ ' is at least one parameter which is known as $t_n(\mathcal{X})$ is a statistic said to be sufficient estimator for population parameter ' θ ', if the probability density function and statistic is independent from population parameter ' θ '

$$\text{i.e. } P\{f(\mathcal{X}, \theta) / t_n(\mathcal{X})\} = \frac{P\{f(\mathcal{X}, \theta) \cap t_n(\mathcal{X})\}}{t_n(\mathcal{X})}$$

$$\therefore t_n(\mathcal{X}) > 0$$





then $t_1(I)$ is statistic and it is sufficient estimator of ' θ '

(3) Efficiency

Let t_1, t_2 are any two statistics defined from a population and ' θ ' be atleast one parameter which is known, then statistics t_1, t_2 are said to be efficient estimator of ' θ ', which is population parameter if

$$E = \text{eff} \left(\frac{t_1}{t_2} \right) = \frac{\text{var}(t_1)}{\text{var}(t_2)}$$

then following three cases exists

case (i) if $E = 1$, $\frac{\text{var}(t_1)}{\text{var}(t_2)} = 1$

$$\text{var}(t_1) = \text{var}(t_2)$$

then, t_1, t_2 are called asymptotically efficient estimator for ' θ '

case (ii) if $E > 1$, $\frac{\text{var}(t_1)}{\text{var}(t_2)} > 1$, $\text{var}(t_1) > \text{var}(t_2)$

' t_2 ' is more efficient than ' t_1 '

case (iii) if $E < 1$, $\frac{\text{var}(t_1)}{\text{var}(t_2)} < 1$, $\text{var}(t_1) < \text{var}(t_2)$

in the case ' t_1 ' is more efficient than ' t_2 '





(2) METHOD OF ESTIMATING ESTIMATORS

From the criteria of point estimation we know that if a statistic will be given, we can find whether of it is unbiased or consistent or sufficient or efficient estimator but sometimes statistic will not be given in this case we may find an estimator for unknown population parameter ' θ ' for this following method of estimator estimator for population parameter ' θ ' are using:

- 1) Method of moments
- 2) Maximum likelihood estimator (MLE)
- 3) Interval estimator

* Method of moments

The method of moments is an initial method to estimate the moment estimator for population parameter. It first it was introduced by Karl Pearson. Let us consider a population with density function

$$f(x, \theta) ; \quad i=1, 2, \dots, n$$

where θ_i is atleast one parameter which where is unknown by this method of moments we can find i th sample moment about origin

$$u'_i = \int_{-\infty}^{+\infty} x^i \cdot f(x) dx ; \text{ continuous random variables}$$

$$u'_i = \sum_{x=1}^{\infty} x^i \cdot P(x=x) ; \text{ discrete random variables}$$

where $f(x)$ is pdf & $P(x=x)$ is pmf after computing these sample moments they are

(u'_1, u'_2, u'_3, u'_4) replace them by central moments about mean by avoiding the first moment $u_1 = 0$ which





give moment estimator for $\theta_i (i=1, 2, \dots, r)$ respectively. where by computing sample moments estimating the moments for population parameter ' θ ' is called method of moments.

Advantages of method of moments

- The method of moments is not applicable if the sample moments do not exist.
- If the population parameter have more than one estimator under the two conditions to estimate estimator for the population parameter.

* Maximum likelihood estimator

Let x_1, x_2, \dots, x_n are 'n' identically independently distributed (iid's) random samples drawn from a parent population with density function $f(x, \theta)$ and its JPDF (JPDF) is the product of two marginal density function allowed

$$\begin{aligned} (i) \quad L = f(x, \theta) &= f(x_1, x_2, \dots, x_n, \theta) \\ &= [f(x_1) \cdot f(x_2) \cdot f(x_3) \cdot \dots \cdot f(x_n), \theta] \\ &= \prod_{i=1}^n f(x_i, \theta); \text{ where } x_i \text{ are iid's} \end{aligned}$$

where L is the likelihood function now to find the maximum likelihood estimator for ' θ ' where θ may group of parameter

$$\text{where } \theta = (\theta_1, \theta_2, \dots, \theta_r)$$

By the maximum-likelihood principle partially differentiate w.r. to θ .

$$\begin{array}{l} \frac{\partial L}{\partial \theta_i} = 0, \\ \text{(or)} \\ \frac{d \log L}{d \theta_i} = 0 \quad \text{--- (1)} \end{array} \quad \left. \begin{array}{l} \frac{\partial^2 L}{\partial \theta_i^2} < 0 \\ \text{(or)} \\ \frac{\partial^2 \log L}{\partial \theta_i^2} < 0 \quad \text{--- (2)} \end{array} \right\}$$





eqs (1) & (2) are called likelihood eqs. which are used to estimate values of the parameter $\theta; (i=1, 2, 3, \dots, n)$
Estimating the value of unknown population parameter θ by likelihood function and mini-max principle or solving two likelihood eqs known as method of maximum likelihood estimation (MLE)

* Interval Estimation

from the criteria of point estimation and method of estimation such as method of moments and maximum likelihood estimation, it is clear that a point estimation $\hat{\theta}$ is obtained for unknown population parameter θ with the same density function.

$f(x; \theta)$ for the given population, but, sometimes the point estimator cannot determine population parameter θ cannot determined which is known.

In this case, we try to know the interval estimator for unknown population parameter.

for this let us consider a population x_1, x_2, \dots, x_n are 'n' independent random sample drawn from sample with same density function $f(x; \theta)$ where θ unknown and T_1, T_2 are statistics are said to be interval estimator for the population parameter θ at $(1 - \alpha)$ level of significance, if

$$P[T_1 \leq \theta \leq T_2] = 1 - \alpha$$

$$1 - P[T_1 \leq \theta \leq T_2] = \alpha$$

(i.e) the value of unknown parameter θ lies in a certain interval which is known as confidence interval with some level of significance α

where T_1 and T_2 are statistics which are lower





and upper limits respectively for the confidence limits (sometimes, confidence limits also called as confidence intervals)

3) State & prove Spearman's Rank Correlation statement: let 'n' individuals with two quality characteristics with their respective ranks x_i and y_i ; then the Spearman's rank correlation is given by the formula

$$r = \text{KOR} \left[\sqrt{2} \frac{1 - \frac{\sum_{i=1}^n d_i^2}{n(n^2-1)}}{n+1} \right] \quad d_i = x_i - y_i$$

Proof: let 'n' individuals A_1, A_2, \dots, A_n with their ranks in characteristics equally designed (i.e)

Individuals	A_1	A_2	A_3	...	A_n
Ranks (x_i) in 1 st characteristic	1	2	3	...	n
Ranks (y_i) in 2 nd characteristic	1	2	3	...	n

By the def of r^{th} moment about origin

$$M_r' = E(x^r) = \frac{1}{n} \sum_{i=1}^n x_i^r$$

if $r=1$

$$\begin{aligned} E(x) &= \frac{1}{n} \sum_{i=1}^n x_i \\ &= \frac{1}{n} [1+2+3+\dots+n] \end{aligned}$$





$$= \frac{1}{2} \left[\frac{n(n+1)}{2} \right]$$
$$= \frac{n+1}{2} = \bar{x}$$

Similarly, $\bar{y} = \frac{n+1}{2}$

if $n=2$

$$u_1 = f(x^1) = \frac{1}{n} \sum_{i=1}^n x_i^2$$
$$= \frac{1}{n} \left[\sum_{i=1}^n x_i^2 \right]$$
$$= \frac{1}{n} [1^2 + 2^2 + 3^2 + \dots + n^2]$$
$$= \frac{1}{n} \left[\frac{n(n+1)(2n+1)}{6} \right]$$
$$u_2 = \frac{(n+1)(2n+1)}{6}$$

variance $\sigma^2 = u_2 - (u_1)^2$

$$u_2 = \frac{(n+1)(2n+1)}{6} - \left(\frac{n+1}{2} \right)^2$$
$$= \frac{(n+1)(2n+1)}{6} - \frac{(n+1)^2}{4}$$
$$u_2 = \sigma^2 = \frac{2(2n+1)(n+1) - 3(n+1)^2}{12}$$
$$= \frac{2(2n^2 + n + 2n + 1) - 3(n^2 + 1 + 2n)}{12}$$
$$= \frac{4n^2 + 2n + 4n + 2 - 3n^2 - 3 - 6n}{12}$$
$$= \frac{n^2 - 1}{12} = u_2 = \sigma^2$$

similarly $\sigma_y^2 = \frac{n^2 - 1}{12}$



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We consider $d_i = x_i - y_i$
adding and subtracting \bar{x} and \bar{y}
 $d_i = x_i - y_i + \bar{x} - \bar{x} + \bar{y} - \bar{y}$
 $d_i = (x_i - \bar{x}) - (y_i - \bar{y}) + (\bar{x} - \bar{y})$

$$[\because \bar{x} = \frac{\sum x_i}{n}; \bar{y} = \frac{\sum y_i}{n}]$$

Now squaring on both and taking \sum on both over $i=1, 2, \dots, n$

$$\sum_{i=1}^n d_i^2 = \sum_{i=1}^n \{ (x_i - \bar{x}) - (y_i - \bar{y}) \}^2$$

Multiply $\frac{1}{n}$ on both

$$= \frac{1}{n} \sum_{i=1}^n d_i^2 = \frac{1}{n} \sum_{i=1}^n \{ (x_i - \bar{x}) - (y_i - \bar{y}) \}^2$$

$$= \frac{1}{n} \sum_{i=1}^n d_i^2 = \frac{1}{n} \sum_{i=1}^n (x_i - \bar{x})^2 + \frac{1}{n} \sum_{i=1}^n (y_i - \bar{y})^2 - 2 \sum_{i=1}^n (x_i - \bar{x})(y_i - \bar{y})$$

$$= \frac{1}{n} \sum_{i=1}^n d_i^2 = \sigma_x^2 + \sigma_y^2 - 2 \text{cov}(x, y)$$

$$[\because \sigma = \frac{\text{cov}(x, y)}{\sigma_x \cdot \sigma_y}] \quad [\because \int \sigma_x \sigma_y = \text{cov}(x, y)]$$

$$= \frac{1}{n} \sum_{i=1}^n d_i^2 = \sigma_x^2 + \sigma_y^2 - 2 \int \sigma_x \cdot \sigma_y \quad [\because \sigma_x \cdot \sigma_y]$$

$$= \frac{1}{n} \sum_{i=1}^n d_i^2 = \sigma_x^2 + \sigma_y^2 - 2 \int \sigma_x \cdot \sigma_y \quad [\because \sigma_x^2 = \sigma_y^2 = \frac{\sigma^2}{2}]$$

$$= \frac{1}{n} \sum_{i=1}^n d_i^2 = 2\sigma^2 - 2 \int \sigma^2$$

$$= \frac{1}{n} \sum_{i=1}^n d_i^2 = 2\sigma^2 (1 - \int)$$

$$= \frac{1}{n} \sum_{i=1}^n d_i^2 = \sigma^2 \left[\frac{\sigma^2 + 1}{\sigma^2} \right] (1 - \int)$$

$$= \frac{1}{n} \sum_{i=1}^n d_i^2 = \frac{\sigma^2 - 1}{\sigma} (1 - \int)$$

$$= (1 - \int) = \frac{6 \sum_{i=1}^n d_i^2}{n(n^2 - 1)}$$





$$r = 1 - \frac{c \sum d_i^2}{n(n^2 - 1)}$$

Case (i) if $-1 \leq r < 0$; negative correlation

Case (ii) if $0 < r \leq 1$; positive correlation

Case (iii) if $r = 0$, uncorrelation

JL

