

**GSSS**GEETHA SHISHU
SHIKSHANA SANGHA(R)**INSTITUTE OF ENGINEERING
AND TECHNOLOGY FOR WOMEN***(Affiliated to Visvesvaraya Technological University, Belagavi. Approved by AICTE New Delhi & Govt. of Karnataka)***KRS ROAD, METAGALLI | MYSURU - 570 016 | KARNATAKA | INDIA****Phone :** 0821 - 2581304,4257304 / 2977306 **Fax :** 0821 - 2581305 **Email :** gsssegg@yahoo.co.in, principal@gss.edu.in **Web :** www.geethashishu.in

Best Practices II

Title of the Practice

Fostering Growth by Offering Real-Time Application Development Opportunities to Students on Campus

Objectives of the Practice:

- **Enhance Practical Skills:** The primary objective of this practice is to equip students with hands-on experience by integrating real-time problem-solving skills.
- **Bridge Theory and Application:** To integrate theoretical knowledge with practical applications by encouraging students to work on real-time projects that address institutional needs.
- **Develop Critical Thinking:** To foster creativity, innovation, and analytical skills by presenting students with real-time challenges that require effective solutions.
- **Contribute to Institutional Development:** To develop projects that are directly used by the department or institution, thereby enhancing institutional processes and systems.

The Context: Traditional learning methods often focus on theoretical knowledge, with limited exposure to practical applications. In programming and technology-related fields, students benefit most when they can apply concepts in real-world scenarios. To bridge the gap between theory and practice, this initiative was designed to offer students the opportunity to work on projects directly related to departmental or institutional needs. **These projects not only align with the curriculum but also contribute to the on-going development and functioning of the college, creating a symbiotic relationship between learning and operational improvement.**

Evidence of Success: The success of this practice is evident in the numerous real-time projects developed and deployed by students that are currently being used by the institute which are listed below:

1. GENESIS- GSSS Enthusiastic & Excellent Student Staff Information

System – An ERP to digitalize most of the Department requirements

Students / Staff Contributors for this ERP for the Modules in use:

- Lavanya Prakash Rudraswamimath (4GW18CS036) and Likhitha S D (4GW18CS037)- developed a Course Materials Management System Module
- Amrutha P(4GW18CS005) and Naidile S (4GW18CS058) - Student Achievement Management System Module
- Pavithra L.R (4GW18CS067) and Prathiksha S (4GW18CS072) - PO's and PSO's based Feedback Management System Module
- Pooja M R (4GW18CS068), Shrivani S (4GW18CS102) – MOOC Course Management
- Adithi P, 4GW19CS001, Student Project Management System
- Kavyashree A, 4GW19CS043, Kavana.A 4GW19CS041 - AICTE activity point management
- Soujanya P Desai (4GW19CS106)and Sushmitha H K (4GW19CS112) – Student Profile Management
- Shilpa, (4GW20CS406)- Faculty Profile Management
- Kruthika MN and Madhushree S, CSE, - Result Analysis Module
- Ananya Kadium (4GW21CI004) (AIML) Gunashree P (4GW21CI012) (AIML),Chaithra M N (4GW21CI009) (AIML) - Search bar for Student Achievements
- Harshitha BG (4GW21CI013-AIML), Harshitha KM -(4GW21CI014-AIML) - Univeristy Question Paper Upload
- Access to All Report with View Counts - Dr. Manjuprasad B
- (ISE) Department Inventory Management System - Deepthi Prakash (4GW19IS017), Lavanya R (4GW19IS031), Monisha B (4GW19IS040), Moulya G (4GW19IS041)
- (ISE) Advanced Framework for Placement Automation System Nanditha S (4GW18IS044), Pranitha S (4GW18IS048), Rachana M L (4GW18IS049), Rachana Vijay (4GW19IS050)

- All these modules are Integrated and Deployed by Dr. Manjuprasad B, Professor, Dept. of CSE(AI&ML)
- Technical Support and Deployment Assistance by Mr. Mahadevappa N, System Analyst and his Team

Screenshot of GENESIS

The screenshot shows the GENESIS dashboard with a dark blue sidebar on the left containing navigation links: Dashboard, Gate Pass, MOOC Course, Participation, Course Materials, AICTE Activity Point, Project, Internship / Seminar Report, VTU Result Details, and About GENESIS. The main content area features a search bar and a user profile for A.R. GARGI VADLIYA. The dashboard includes several widgets: 'TOTAL MOOC COURSE' with a value of 0, 'EXTRA CURRICULAR ACTIVITY' with a value of 2, 'Formats' with a link to 'AICTE Activity Points Updated Report Format Internship on Innovation Templates and Ideas', and a 'LINK TO GENESIS' widget showing 'Since 2023 91 Times'. Below these are 'Materials' and 'Previous Year Reports' sections with buttons for 'Course Materials', 'University / Model Question Paper', 'Main Project', 'Mini Projects', and 'AICTE Activity Points'.

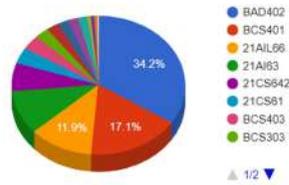
This screenshot displays a table titled 'Course Material Uploaded by Faculty'. It includes a search bar and a 'Show' dropdown set to 10 entries. The table lists various course materials with columns for Code, Subject, Scheme, Faculty, and File. Each entry has a 'View and Download' link.

Code	Subject	Scheme	Faculty	File
19CS72	BIG DATA ANALYTICS	2018	Mrs Sheetalakshmi C M	View and Download
19CS72	BIG DATA AND ANALYTICS	2018	Mr Rajashakar	View and Download
19CS734	USER INTERFACE DESIGN	2018	Lavanya	View and Download
19CS741	DIGITAL IMAGE PROCESSING	2018	Mr Rajath AN	View and Download
19CS741	DIGITAL IMAGE PROCESSING	2018	Mr Rajath AN	View and Download
19CS742	NETWORK MANAGEMENT SYSTEM	2018	Mrs AshaRani M	View and Download
18EE754	ELECTRICAL ENERGY CONSERVATION AND AUDITING	2018	Mr BHARTHESH PATIL	View and Download

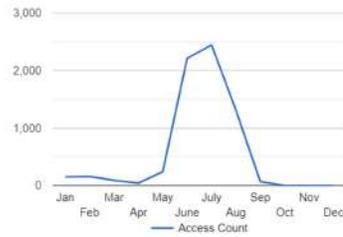
This screenshot shows a table titled 'AICTE Activity Points Reports (Since 2022 Graduating Batch)'. It includes a search bar and a 'Show' dropdown set to 5 entries. The table lists activity reports with columns for Sl. No., USN, Guide, and five columns for activity points (1-5), plus a 'File' column. Each entry has a 'View' link.

Sl.	USN	Guide	1	2	3	4	5	File
1	4GW19CS027	Mr Ravi Kumar VG	Awareness on the importance and ways of best out of waste and afforestation	Awareness programme on the importance of education	Awareness programme on Covid-19 prevention	Awareness programme on CoWIN App		View
2	4GW19CS089	Dr. Roopashree HR	Blog post on pollution and travelling blog	Swachh bharat abhiyan	Gardening			View
3	4GW19CS085	Mrs Khateoja A	Awareness about organ donation in rural area	Best out of waste	Awareness about gardening and indoor gardening			View
4	4GW19CS013	Dr. Gururaj KS	Facilitating hundred percent digital money transaction	Awareness program on the importance of Education	Awareness program on Cleanliness			View
5	4GW19CS032	Mrs Khateoja A	Students Achievements Management System	Awareness programme on Importance of swachh bharat	Awareness on home planting using wastes			View

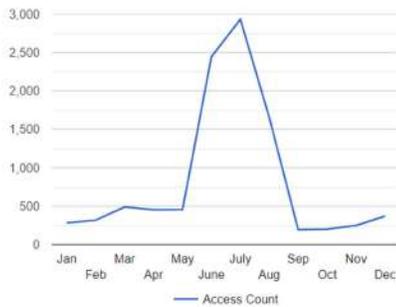
2023-24: Number of access based on Subject



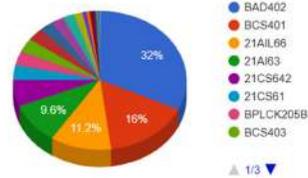
Number of access based on Month - 2024:



Number of access based on Month Since 2021:



Since 2022: Number of access based on Subject



Student Project Evaluation

BID	Name	USN	Title	Type	Subject	Guide	Operation
2023B04	LAWANYA R	4GW19IS031	Smart inventory management using machine learning	Final Year Project	Computing	Dr. Manjuprasad B	View -Mapping- Evaluate-
2023B12	NANDITHA S	4GW19IS044	Advanced Framework for Student Placement Automation System	Final Year Project	Computing	Dr. Manjuprasad B	View -Mapping- Evaluate-
B04	MANASI N S	4GW18CS043	Campus Club Management and News Recommendation System using Web Scraping	Final Year Project	Machine Learning	Dr. Manjuprasad B	View -Mapping- Evaluate-
B31	Nameera Banu	4GW19CS409	Using LoRa technology to monitor and control sensors in the green house	Final Year Project	IoT	Dr. Manjuprasad B	View -Mapping- Evaluate-

Student Mini-Project

BID	Name	USN	Title	Type	Subject	Guide	Operation
2023AIMLB01	SAHANA K R	4GW21CI037	IA Question Paper Review System	DBMS-MINI-PROJECT	DBMS	Dr. Manjuprasad B	View
2023AIMLB02	ANANNYA PS	4GW21CI002	Text Summarizer	ML Mini	Machine Learning	Dr. Manjuprasad B	View
2023AIMLB03	SUSHMITHA G	4GW21CI049	Department Dashboard SAINA	DBMS-MINI-PROJECT	DBMS	Dr. Manjuprasad B	View
2023AIMLB03	RAZIA ROSHAN	4GW21CI035	Online No Due Management	DBMS-MINI-PROJECT	DBMS	Dr. Manjuprasad B	View

Your Course Materials

Subject	Code	Sem	Scheme	Academic Year	Dept	File	Status	Action
Machine Learning - Module 5 Full	21AI63	6	2021	ODD 2024	AIML	📄	Course Material Approved	🗑️
Operating System - M1 2023 Batch	BCS303	3	2022	ODD 2024	AIML	📄	Course Material Approved	🗑️
RMI	21RMI56	5	2021	ODD 2023	AIML	📄	Course Material Approved	🗑️
RMI	21RMI56	5	2021	ODD 2023	ISE	📄	Course Material Approved	🗑️
RM Module 1 and 2	21RMI56	5	2021	ODD 2023	AIML	📄	Course Material Approved	🗑️
Operating System	BCS303	3	2022	ODD 2023	AIML	📄	Course Material Approved	🗑️
Operating System	BCS303	3	2022	ODD 2023	AIML	📄	Course Material Approved	🗑️
RMI- Module 2 3 4	RMI	5	2022	ODD 2023	AIML	📄	Course Material Approved	🗑️

2. B.E Management Admission and Hostel Registration 2024-25

Login

Candidates are requested to Register and Login to fill the relevant data for the B.E Management Admission 2024-25
Please ensure correct Email & Mobile Number for further updates

Forgot Password

New User **SignUp Now**

Login

Candidates are requested to Register and Login to fill the relevant data for the

Smt.Rukminiyamma Girls Hostel
Hostel Registration 2024-25

Kindly Note:

Hostel Facility available for Students residing outside 100 KMs radius

Hostel Seat allotment subject to conditions

Forgot Password

3. On Campus Temple Seva Booking with auto email Notification



ಓಂ ನಮಃ ಶಿವಾಯ
Lord Parameshwara Seva Booking
03 ದಿನಗಳ ಮುಂಚಿತ ಸೇವಾ ಬುಕ್ಯಿಂಗ್ ಅಗತ್ಯವಿದೆ

< 2024 / 09 >

S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30					

Slot Available Date Booked

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4. Hostel Mess Bill Generation

Current Active Student - Total 618

A Block - Total 36 B Block - Total 82 C Block - Total 219 D1 Block - Total 62 D2 Block - Total 204 DDM - Total 0/30

Show: 10 entries Search:

SLNo.	USN	Name	Room	Department	Current Balance	Edit	Vacate
1	4GW22IS404	RAMYA S S	A-002	IS	971	Edit	Vacate
2	4GW22EC424	SONALI SHANKAR BHAGAI	A-002	EC	2093	Edit	Vacate
3	4GW22EC407	DANESHWARI G MANIYAL	A-002	EC	3781	Edit	Vacate
4	4GW21CS018	BHOOMIKA K P	A-003	CS	1253	Edit	Vacate
5	4GW21EC065	KEERTHANA B K	A-003	EC	1283	Edit	Vacate
6	4GW22BA061	NANDITHA M	A-211	MBA	9090	Edit	Vacate

5. Bulk ID Card Generating Application using Web Technology

6. **Online Examination System** : Customized FOSS examination application for conducting various online test for MBA Entrance

7. **Many minor contribution using Technology has been contributed by Students and Faculty**

8. Regal Volta is a four wheeler electric vehicle can carry up to 600kg(Dead weight of 300kg) of weight with range of 60-80kms in single charge with a cost of 10 paise per kilometer.



Problems Encountered and Resources Required: One of the primary challenges faced during the implementation of this practice was ensuring that students had adequate exposure to real-world problems and sufficient guidance to handle complex projects.

Other Challenges:

- **Limited Project Scope:** Students successfully developed projects that addressed specific cases, but these solutions were not comprehensive enough to handle all scenarios.
- **Inadequate Testing for Edge Cases:** Students struggled to test all possible scenarios required by the client, which limited the reliability of their solutions.
- **Access to Business APIs:** Students faced challenges in obtaining access to essential business APIs, such as WhatsApp and SMS services, which are critical for their projects.
- **Time Constraints:** Due to time limitations, students were only able to create prototypes rather than fully deployable solutions, hindering the overall impact of their projects.
- **Complex Deployment Training:** Students found it difficult to acquire the necessary skills for deploying complex applications, highlighting the need for more training in this area.

Resources Required:

Technical Infrastructure:

- **Development Tools and Software:** Access to programming languages, integrated development environments (IDEs), and version control systems (e.g., Git, GitHub).
- **Servers and Hosting:** Resources for hosting applications and deploying real-time projects, such as cloud services (e.g., AWS, Google Cloud, or Microsoft Azure).
- **Database Access:** Databases and management systems for storing and managing project-related data (e.g., MySQL, PostgreSQL).

Mentorship and Guidance:

- **Faculty Mentorship:** Dedicated faculty members or industry experts to guide students throughout the project lifecycle, including design, development, and deployment phases.
- **Workshops and Training:** Regular training sessions on relevant tools, technologies, and best practices for project development and deployment.

Testing and Debugging Tools:

- **Test Environments:** Access to testing platforms where students can simulate different scenarios and test their applications for edge cases and real-world use.
- **Debugging Tools:** Debugging software and tools to help students identify and resolve issues efficiently.

Financial and Institutional Support:

- **Funding:** Budget allocation for tools, software licenses, cloud services, and other resources required for successful project execution.
- **Institutional Backing:** Support from the administration to encourage collaboration between departments, providing access to institutional data or systems where necessary for project integration.

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