



National Education Society (R.) Jawaharlal Nehru New College of Engineering, Shivamogga



(Approved by AICTE, New Delhi, Certified by UGC 2f & 12B, Accredited by NAAC-'B', UG programs: CE, ME, EEE, ECE, CSE, ISE, ETE PG Programs: MBA, accredited by NBA: 1.7.2022 to 30.6.2025, Recognized by Govt. of Karnataka and Affiliated to VTU, Belagavi)

INTERNAL QUALITY ASSURANCE CELL (IQAC)

JAMS software for Administration:

JAMS (JNNCE Automation and Management Software) is an inhouse software developed by a team of faculty, It is used for digitization of various activities including administration. Administration features included are:

- (i) Employee Biometric management

Every employee needs to put biometric 4 times a day as per the defined norms. The biometric data is captured by JAMS software and gives reports to Principal in their login. Sample snapshot for Principal to monitor biometric of employees. It has options to generate reports for a range of dates. Further HODs are also given access to check their department staff biometric details.

The screenshot shows the 'Biometric Data Management' interface. It includes a search bar, a date range selector (Start Date: 21-08-2023, End Date: 21-08-2023), and a dropdown for 'Type' (Punch Details). Below the search form, the employee details are displayed: Name: SUNIL M D, Designation: Assistant Professor. A table shows the biometric data for this employee on 2023-08-21.

Sl. No.	Date	IN-1	OUT-1	IN-2	OUT-2	IN-3	OUT-3	Forenoon Staying Hours	Afternoon Staying Hours	Total Stay	Forenoon Deviation	Afternoon Deviation	Total Deviation	Remarks
1	2023-08-21	08:15:08	14:24:10	14:31:04	17:33:05			05:09:02	03:52:04	08:11:06				Full Day

Leave Management

In this module, employees can check their available leaves, apply leave and cancel leave. Applying leave requires proper alternate arrangement to be done. Further sufficient leave balance should be available for applying leaves. All the processes are automated in the software. Once an employee applies for leave, request is forwarded to HOD who can accept or reject with proper reason. Once accepted by HOD, it gets forwarded to Principal who can also accept/reject with reason. Each actions are communicated to employees via SMS/Telegram notifications. Leave balance is automatically managed. HODs can track their department employee leave records and Principal can see the entire college leave data. Sample snapshot of an interface of Leave Management to Employee:


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JAMS- Leave Management

My Alternate Arrangement Others Alternate Arrangement Class Exchange Request Class Exchange Apply Leave Track Leave Status

Leave Type	Applied	Accepted	Availability
CL	0	3	12
CML	0	0	120
EL	0	0	150
ML	0	0	0
OOD	0	0	0
PL	0	0	0
RH	0	0	2
SCL	0	3	27

Holidays and RH

Type	Date	Reason
RH	01-01-2023	NEW YEARS DAY
Holiday	26-01-2023	REPUBLIC DAY

From Date: dd-mm-yyyy
To Date: dd-mm-yyyy
Reason: Give Reason for Leave its compulsory
Apply Leave

(iii) Academic Administration

Academic module has been well structured and defined comprehensively in the JAMS Academic Module. This module includes all the academic activities carried out by a faculty during a semester. This includes lesson planning, defining COs, mapping COs with PO and PSO, defining Minutes of Meeting of a course, regular periodic execution, uploading Question Banks, Notes and materials, planning and executing of content beyond syllabus, recording innovative teaching pedagogies, Attendance Management, IA Management, OBE process outcomes like CO-PO-PSO Attainment and many others. Planning and execution of Internships, Projects and Seminars are also included in this module. Further each action goes through different approval levels with HOD and Principal. For Question paper acceptance, scrutiny process is also automated. A snapshot indicating the usage of Academic module is:


JAMS Attendance Entry and Management

Regular Class Regular Class(Oth TT) Special Class View Marked Dates Attendance Register Search Filter Online Class Attendance

Subject: -Select-

Date: dd-mm-yyyy Slot: -Select- Show

Attendance Sent By Email Mark All Absent Show Attendance


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(iv) Employee increments and promotions

This process has been defined inline with the HR manual given by the NES Management. An employee for academic increment is required to obtain an API score. (API: Academic Performance Indicator). This API spans faculty participation in workshops, delivering expert lectures, involvement in outreach activities, getting Project Grants, conference and journal publications, patents, research inclination, examination results and teaching feedback. This process is automatic and API score card is transparent and visible to all faculty. Hence HR administration with respect to increments and promotions is digitized. A snapshot of API score card generated by the JAMS software is shown below:

The screenshot shows the JAMS software interface. On the left is a dark sidebar with navigation options: JAMS, MANJUNATH P, Logout, Academic, Profile, Notice & Circulars, Principal, and Dean Academic. The main content area displays the API score card for the year 2023. It includes a search bar, a dropdown for 'CAY: 2022-23-Even', and buttons for 'Compute', 'Download Appraisal', and 'Review Document'. The section is titled 'Teaching, Min Score: 55' and contains a table with the following data:

Sl. No.	Performance Indicator	Scored	Maximum Score	Remarks
1	Innovative Teaching	Manual	30	
2	Results	30	30	For Academic Year 2022-23-Even, Subject: 18EC61, Dept:ECE, Section:A %FCD:50, %FC:78, %SC:84, %PASS:99 For Academic Year 2022-23-Odd, Subject: 18EC71, Dept:ECE, Section:B %FCD:54, %FC:76, %SC:99, %PASS:100 Average FCD%=62, Average FC%=78, Average SC%=87 and Average_Pass%=100
3	Feedback	21	30	For Academic Year 2022-23-Even, Subject: 18EC61, Dept:ECE, Section:A Feedback %:92.96 For Academic Year 2022-23-Odd, Subject: 18EC71, Dept:ECE, Section:B Feedback %:88.80 Average Feedback%=91

(v) Mentoring and Hostel Management

Every student is allotted a mentor who keeps track of the academic activities of a student. Mentor tracks performance of the student, interacts with the student regularly and all the interactions with mentees is recorded in the software. HODs and Principal can check the regularity of the interactions between mentor and mentee. Further software has been extended to provide Hostel Admissions, Room allocation, Hostel fee payment and other hostel administrative activities. A snapshot of mentor monitoring is shown below:


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JAMS
MANJUNATH P
Logout
Academic
Profile
Notice & Circulars
Principal
Dean Academic

Search Profile: CAV : 2022-23-Even
Check Mentor Meeting's Data | Mentor Meeting Reports | Download Reports

Meeting Reports

Academic Year:
2022-23 Even

SATHYANARAYANA S V
MANJUNATH P
SHETTY PRAMOD KUMAR
SUNIL M D
UJWALA S S
NALINA S B
AJAY SETUR P
SHANATH S M
ABHJEET N
DARSHAN K V
ANIL KUMAR J
SHEELA S
ROOPA S S
PRADEEPA S C
HARSH T S
PREMA K N
SMITHA S M
SUMATHI K
SHWETHA H R


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Student Admission and support:

Student Admission is captured in JAMS software. Admission process is managed with various roles like data entry operators, scanning personnel, report generators and others. Admission module has various supporting features like Data Entry of the admitted student, printing challens, capturing photo, viewing admission details and statistics, scanning and uploading of various supporting documents. A snapshot for recording new admission details is as follows:

The screenshot displays the JAMS software interface for recording new admission details. The interface is divided into a sidebar and a main content area. The sidebar on the left contains the following navigation options: Logout, Admin, Data Entry, Photo, View, and Scan. The main content area is titled "Management" and features a "New Admission Data Entry" form. The form includes the following fields and options:

- Admission Number: Search Admission No. (with Search and Print buttons)
- Name (as per SSLC): PUC/12th/Diploma/Degree Register No.
- Admission Type: Radio buttons for BE-Regular, BE-Lateral, BE-Change of College, M.Tech, MBA, MCA, Kannadiga, Non-Kannadiga, Hyderabad, Non-Hyderabad, Rural, and Non-Rural.
- Date of Admission: dd-mm-yyyy
- Payment Type: Full Payment (dropdown menu)

A snapshot of photo capturing module is as follows:


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The screenshot shows the 'Enter Student Details' form in the JAMS system. The form has the following elements:

- Navigation menu on the left: JAMS, MOHAN H G, Logout, Admin, Data Entry, Photo, View, Scan.
- Form title: Enter Student Details
- Fields: Name, PUC/12th/Diploma/Degree Register No., Admission Number.
- Buttons: Generate Admission No., Start Camera, Stop Camera.
- Camera Selection: Web Camera (selected), Mobile Front Camera, Mobile Back Camera.
- Preview window: A placeholder for the student's photo with a 'Take Photo' button.

Viewing of admission statistics is as follows:

The screenshot displays the 'Downloaded Admission Data' interface. It includes a dropdown for 'Select Admission Year' set to '2023-24' and a 'View Admission Stats' button. Below is a table showing admission statistics by branch.

Branch Wise								
Branch	Type	Male	Female	Overall Total	Govt	CQ	MNGT	Total Vs Intake
AIML	Regular	21	14	35	4	13	15	32
GDS	Regular	19	7	26	3	6	17	26
CIVIL	Regular	24	10	34	1	0	32	33
CSE	Regular	54	56	109	16	42	44	102
ECE	Regular	31	34	65	3	16	44	62
EEE	Regular	14	21	35	0	1	33	34
ISE	Regular	40	45	85	10	27	43	80
MECH	Regular	16	0	16	0	0	15	15
RAI	Regular	20	7	27	2	4	21	27
TCE	Regular	12	24	36	1	0	34	35
MBA	Regular	6	2	8	0	0	8	8
BE	Regular	251	217	468				
MBA	Regular	6	2	8				

Further each data entered is stored as a log and can be audited. The IP Address and login who changed each piece of data is stored.


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Students are given a login credentials in JAMS software. They have various features like checking attendance, IA scores, exam results, applying for electives, downloading Notes and materials, checking IA and exam seating arrangements, management of projects, internships and technical seminar work and giving feedbacks.

A snapshot for student login with supporting features is as follows:

Examination:

Since the college is affiliated to university, it is entrusted to ensure smooth conduct of examinations. Examination process involves preparing student appearing list, preparing exam schedules, allotment of Invigilators, Relievers and IDC for exam conduction and preparing bill. All these processes are automated in JAMS software. Interfaces for preparing and managing student appearing list is given to examination section login. They also upload and maintain exam schedules. Further they are given interface to generate seating arrangement of the students to the exam. Based on the rooms required and load of the faculty being uploaded, automatically allotment is done by the software. Once all the examination duties are complete, a bill is generated. Different reports like B-Forms which contains students allotted roomwise, Question paper indent which generates the number of question papers required for each subject, student seating arrangement and others. Further students are able to check their rooms and desk number 2 hours before exam starts.

Sample snapshot of appearing list management interface is:


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The screenshot shows the 'Exam Appearing List' interface. It includes a search bar for student profiles, a dropdown for the current year (2023-23-Even) and semester (2023-23-Odd), and an 'Add' button. Below these is a table with columns for USN, Subject Code, Appearing Type, Edit, and Delete. The table contains six rows of data.


USN	Subject Code	Appearing Type	Edit	Delete
4JN13EE015	10EE74	appear	[Edit]	[Delete]
4JN13EE030	10EE34	appear	[Edit]	[Delete]
4JN13EE030	10EE45	appear	[Edit]	[Delete]
4JN13EE030	10EE54	appear	[Edit]	[Delete]
4JN13EE030	10EE54	appear	[Edit]	[Delete]
4JN13EE030	10EE54	appear	[Edit]	[Delete]

Sample snapshot of exam schedule management is:

The screenshot shows the 'Exam Session Management' interface. It includes a search bar for student profiles, a dropdown for the current year (2023-23-Even) and semester (2023-23-Odd), and an 'Add' button. Below these is a table with columns for Date, Timings, Subject Code, Session Type, Edit, and Delete. The table contains six rows of data.

Date	Timings	Subject Code	Session Type	Edit	Delete
2023-05-15	2:00-5:00	17ME01	noon	[Edit]	[Delete]
2023-05-15	2:00-5:00	17FCA1	noon	[Edit]	[Delete]
2023-05-10	2:00-5:00	10CE01	noon	[Edit]	[Delete]
2023-05-10	2:00-5:00	10EE01	noon	[Edit]	[Delete]
2023-05-10	2:00-5:00	10EE01	noon	[Edit]	[Delete]
2023-05-10	2:00-5:00	10EE01	noon	[Edit]	[Delete]

Sample snapshot of examination duty allotment and maintenance is:


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Sample snapshot for generating various reports for examination conduction:


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