



MANAV RACHNA INTERNATIONAL INSTITUTE OF RESEARCH AND STUDIES

(Deemed to be University under Section 3 of the UGC Act, 1956)

MRIIRS Aravali Campus: Sector-43, Delhi Surajkund Road, Faridabad, Phone: +91-129-4198100 (30 lines)

Key Indicator 2.5

Current Manual of Examination Automation System with screenshots highlighting the automated examination processes via i-cloud EMS




Registrar

i-cloud EMS Manual



AREA OF OPERATION:-

Examination



Table of Contents

List of Contents	Page No.
1. Introduction to i-Cloud EMS	1
2. Student Course Registration	2
3. Examination Module: Introduction	61
4. Admit Card (Hall Ticket) Generation	67
5. Re-appear form application	77
6. Result Processing:	
6.1 Continuous Internal Assessment – Marks Uploading	80
6.2 Cut-list generation	86
6.3 Submission of End Semester Examination Marks by Faculty Members	89
6.4 Uploading of answer scripts and conduct of examination open house for onscreen verification of evaluated answer scripts by students	93
6.5 Generation of Grade Card	108
7. Computation of Program Outcomes (POs) / Program Specific Outcomes (PSOs) and Course Outcomes (COs) attainment	
7.1 Introduction	113
7.2 Adding PO/PSO statements	116
7.3 Adding CO statements	121
7.4 CO & PO mapping report	127
7.5 Direct Attainment of COs	133
7.6 Direct Attainment of POs/PSOs	156
7.7 Indirect Attainment of COs and POs/PSOs	157

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iCloud EMS

1. Introduction

In order to reduce paper-based activities and speed up overall academic processes in Manav Rachna, a cloud-based EMS is being used which aims at automating majority of academics tasks at Manav Rachna. Manav Rachna International Institute of Research and Studies (MRIIRS) has subscribed to a comprehensive EMS (Education Management System) which provides integrated solution to enhance and digitize the processes like Admissions, Fee, Student's academic life cycle, Transport, Hostel, Feedback, Grievance, Recruitment , HR processes and other administrative operations in the university through its web mobile based applications.

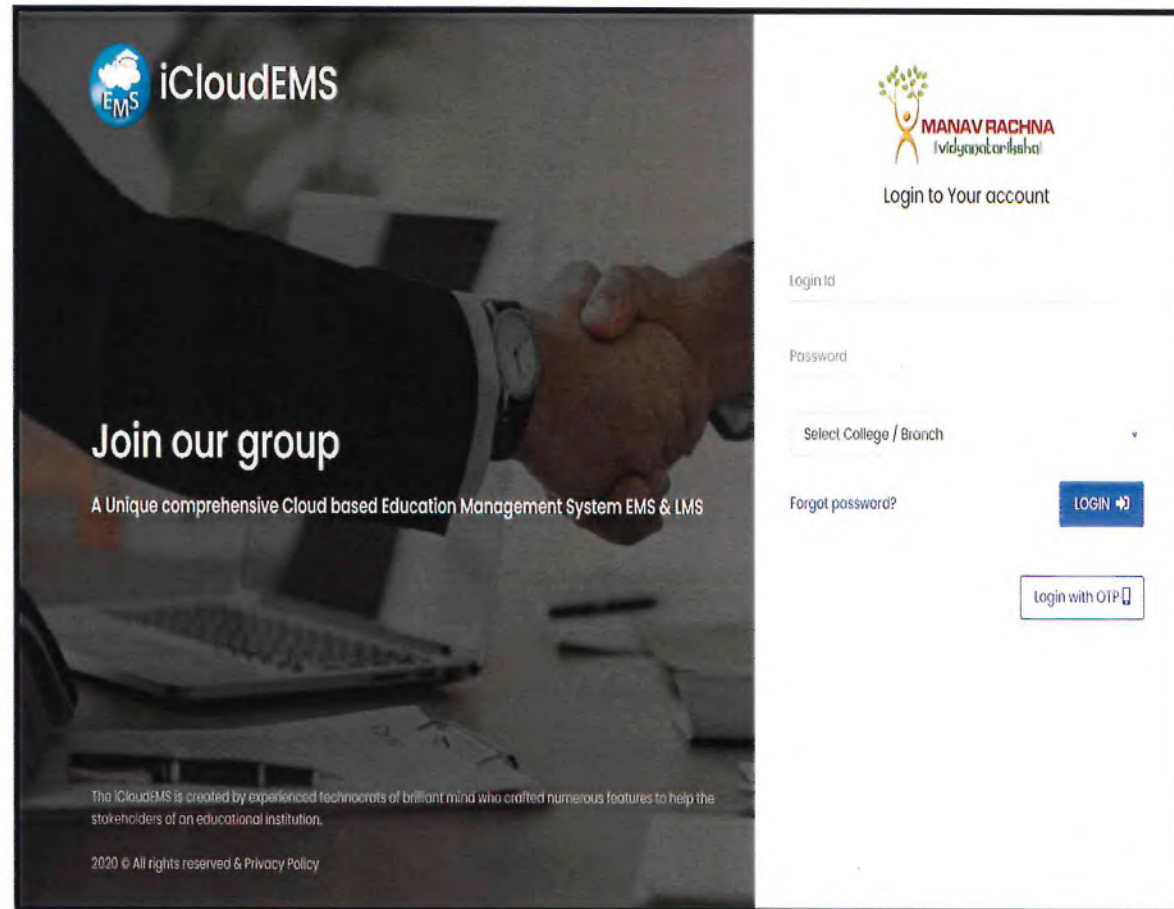


Figure 1: Login Page

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2. Student Course Registration

Introduction:

- There are multiple things that are part of student course registration like course creation, course program mapping, time table creation, course approval etc.
- The activities that are integrated to each other and are related to student course registration are handled by Timetable coordinators of various departments. Other higher level activities like course approval, session plan approval is done by Head of Department.
- The Staff members who are assigned the role of timetable coordinator are responsible of creating the courses with proper nomenclature as per study schemes, course programming mapping, group forming, course allotment, time table creation etc.
- Other activities like creation of session plan, marking of class attendance, assigning assignments and content uploading are performed by the respective subject teachers.

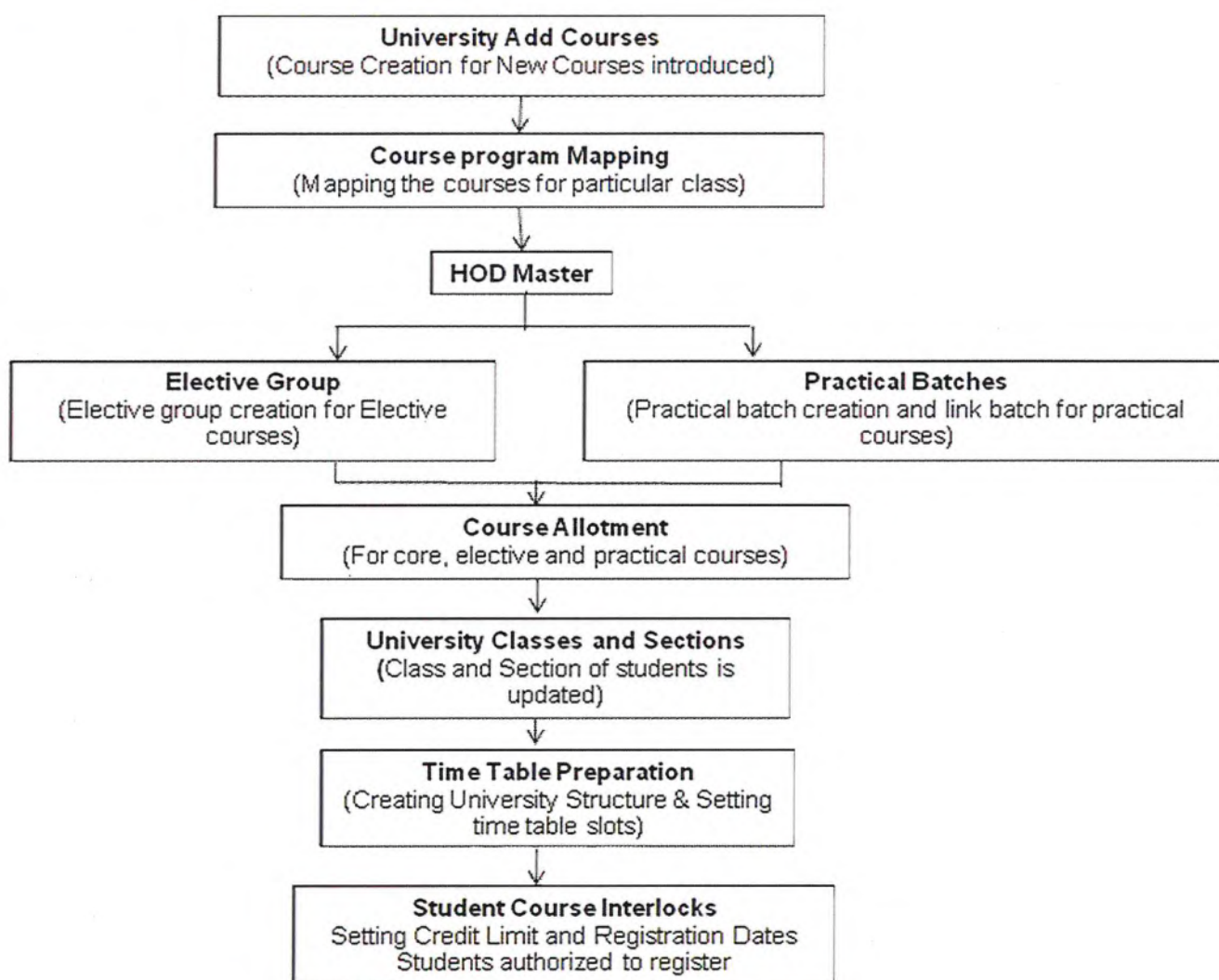


Figure 2.1: Process Flowchart of Student Course Registration

May



- For the commencement of the semester in the beginning following activities are executed at the EMS Coordinator and HOD end:
 - a. Course Creation
 - b. Course Program Mapping
 - c. Course Registration by Students
 - d. Assigning Sections to the students for the semester to be commenced
 - e. Creation of Practical/Elective Batches of the students
 - f. Course Allotment to faculty members
 - g. Creating Timetable & Alternate Arrangements (if any)
 - h. Course Approval (performed at HoD level)

STEP 1: COURSE CREATION –

- All the courses that are a part of the curriculum are created as per their baskets mentioned in the scheme. The system facilitates to use the same courses for the next batch if the same course is being taught.
- If any new course is being introduced then it can be added through the tab “University Add Courses” in Settings at the EMS Coordinator level.

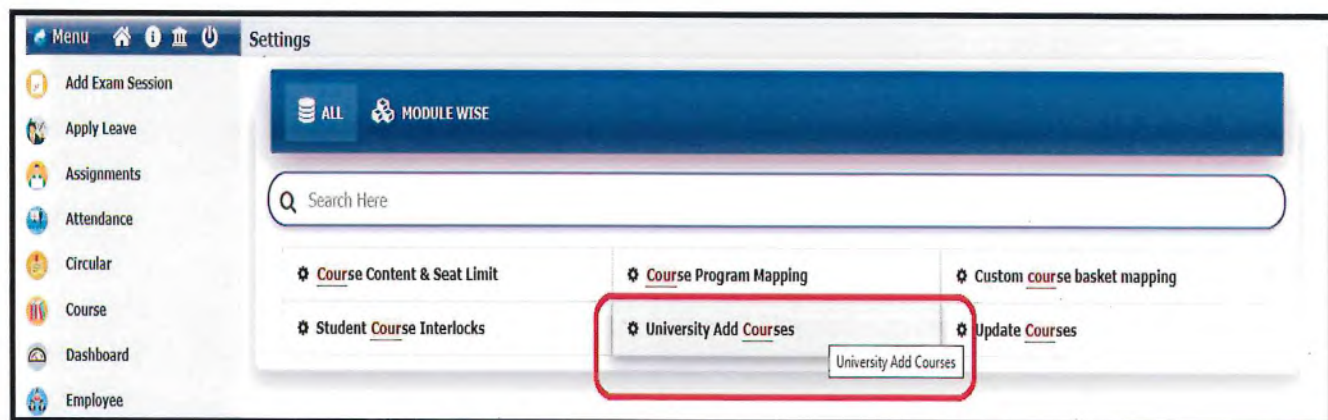


Figure 2.2: Snapshot of Course Creation Window

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Settings [Settings](#) [All Courses](#) Menu

All Course New Course

Select Department: Department of Computer Science & Engineering

Program: Select Programme

Specialization: Select Specialization

Search Back

Figure 2.3: Selection of course list- department wise

Show All entries Export to Excel

Search:

SR No.	Class	Section	Course	Course Code	Course Basket type	Lecture Type	Credit	Is Open Course	Course Short Name	Load/week(hr)	Edit
1	B.Tech. CSE	Sem I	introduction to open source software	CS-104	Genl	PP	2	1	IOSS	2	-
2	B.Tech. CSE	Sem I	mathematics-I	BSC-MA-101	CORE	PP	4	1	Math-I	5	-
3	B.Tech. CSE	Sem I	chemistry-I	BSC-CH-101	CORE	PP	4	1	Chem-I	5	-
4	B.Tech. CSE	Sem I	programming for problem solving	ESC-CS-101	CORE	PP	3	1	PPS	3	-
5	B.Tech. CSE	Sem I	workshop/manufacturing practices	ESC-ME-102	CORE	PP	3	0	W/MP	1	-
6	B.Tech. CSE	Sem I	workshop/manufacturing practices	ESC-ME-102	CORE	PP	3	1	W/MP	1	-
7	B.Tech. CSE	Sem I	semiconductor physics	BSC-PH-104	CORE	PP	4	1	SemIC Phys	4	-
8	B.Tech. CSE	Sem I	mathematics for computer science & engineering-II	BSC-MA-201	CORE	PP	4	1	Math-II (CSE)	4	-
9	B.Tech. CSE	Sem I	chemistry	BCH-100	CORE	PP	4	1	Chemistry	4	-
10	B.Tech. CSE	Sem I	programming for problem solving	BCS-101	CORE	PP	4	1	PPS	3	-

Figure 2.4: List of Courses along with their details

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Figure 2.5: New Course Adding button

Adding a new Course to a Class

Select Department :	-Select-	
Select Program :	-Select-	
Select Class :	-Select-	
Course Type :	Regular	
Is Open Course :	<input type="radio"/> Yes <input checked="" type="radio"/> No	
Teaching Scheme :	L: <input type="text" value="0"/>	T: <input type="text" value="0"/>
	P: <input type="text" value="0"/>	Credits: <input type="text"/>
Evaluation Scheme :		
Course Name :	<input type="text"/>	
Course Short Name :	<input type="text"/>	
Course Code :	<input type="text"/>	
Lecture Type :	PR - PR- Practical	
Load Per Week(hrs) :	<input type="text"/>	
	hr/week	
Academic Basket Category/Level :	-select-	

Figure 2.6: Adding a new course window

Unkey



STEP 2: COURSE PROGRAM MAPPING –

- From the list of the courses, the courses as per the study scheme offered in upcoming semester and class are mapped through 'Course Program Mapping' window.
- All the courses i.e. core (both lectures and tutorials), electives, practical etc are mapped to the semester.
- Course list is present on the left side under "Course Pool" from where required courses are moved to right side under "Already Mapped Courses" list.

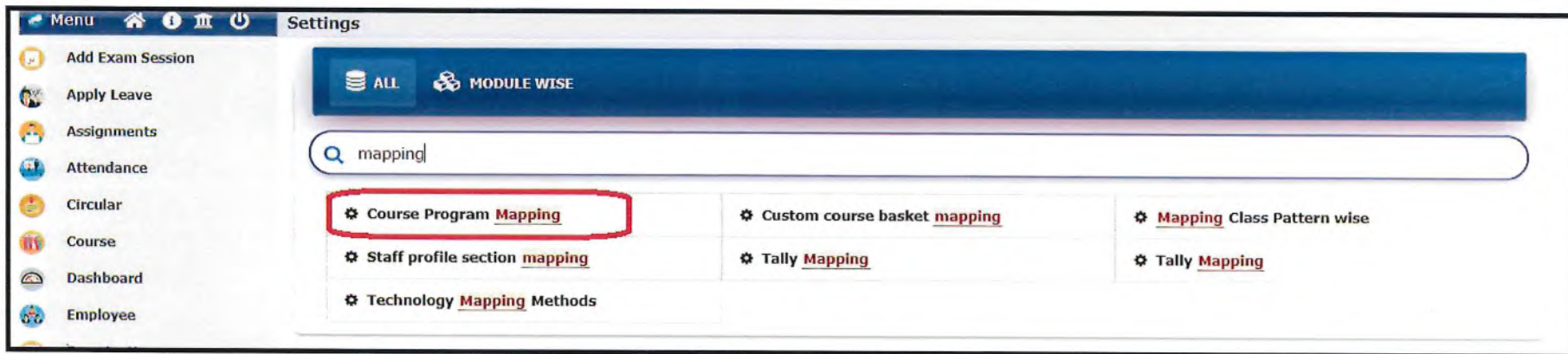


Figure 2.7: Course Program Mapping Setting

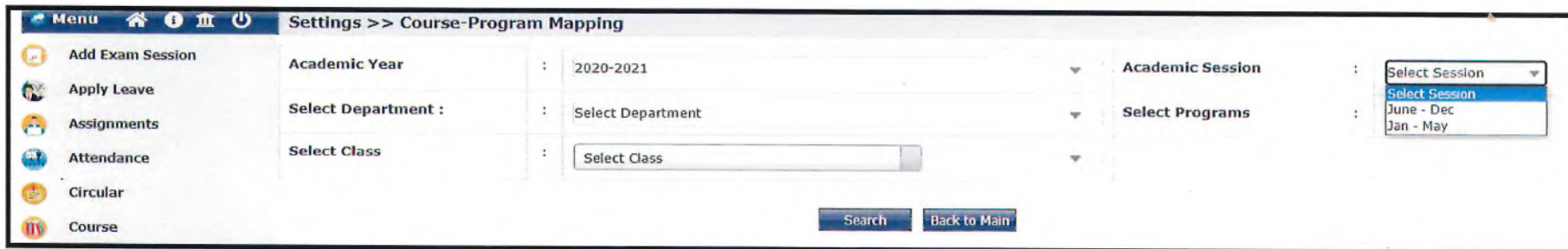


Figure 2.8: Selection of required filters

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Menu Settings >> Course-Program Mapping

Add Exam Session
 Apply Leave
 Assignments
 Attendance
 Circular
 Course
 Dashboard
 Employee
 Examinations
 Feedback
 Fees
 Grievance Complaint
 Hostel
 ID Card
 Lead Management
 Leave Management
 LMS
 Online Exam
 Payroll
 Performances
 Pre-Admission
 Proctor

Academic Year : 2020-2021
 Select Department : Department of Computer Science & Engineering
 Select Class : B.Tech CSE-Sem 3
 Academic Session : June - Dec
 Select Programs : B.Tech - Computer Science & Engineering 005

Search

Search..

Selected Parameter for Mapping

Department :	Department of Computer Science & Engineering	Class :	B.Tech CSE Sem 3	Academic Year :	2020-2021
--------------	--	---------	------------------	-----------------	-----------

Course Pool	Add or Remove Course	Already mapped Course
<input type="checkbox"/> applied mathematics-iii (MA-341A)--TUT--(General)	<input type="button" value="Add >>"/>	<input checked="" type="checkbox"/> data structures & algorithms [BCS-DS-301]--TUT--(CORE)
<input type="checkbox"/> data structures and algorithms TUT (CS-302)--TUT--(General)	<input type="button" value="Remove Mapping"/>	<input checked="" type="checkbox"/> object oriented programming [BCS-DS-302]--PP--(CORE)
<input type="checkbox"/> applied mathematics-iii (MA-341A)--PP--(General)		<input checked="" type="checkbox"/> data structures & algorithms [BCS-DS-301]--PP--(CORE)
<input type="checkbox"/> statistical computing lab (CS-333)--PR--(CORE)		<input checked="" type="checkbox"/> digital electronics and circuits [BEC-DS-322]--PP--(CORE)
<input type="checkbox"/> constitution of india (BHM-MC-001)--TUT--(CORE)		<input checked="" type="checkbox"/> cyber law & ethics [BHM-001]--PP--(CORE)
<input type="checkbox"/> Research & Innovation Catalyst-I (RIC-300)--TUT--(CORE)		<input checked="" type="checkbox"/> data structures & algorithms lab [BCS-DS-351]--PR--(CORE)

Figure 2.9: Mapped Courses for Semester

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STEP 3: COURSE REGISTRATION –

- All the mapped courses are visible at student's portal for registration from where they have to "Apply" for all the core courses and desired elective courses.
- For this activity a specify time window is provided to students that is decided by competent authorities and set by EMS Coordinators on the system. This is done through "Student Course Interlock" option available under "Settings".

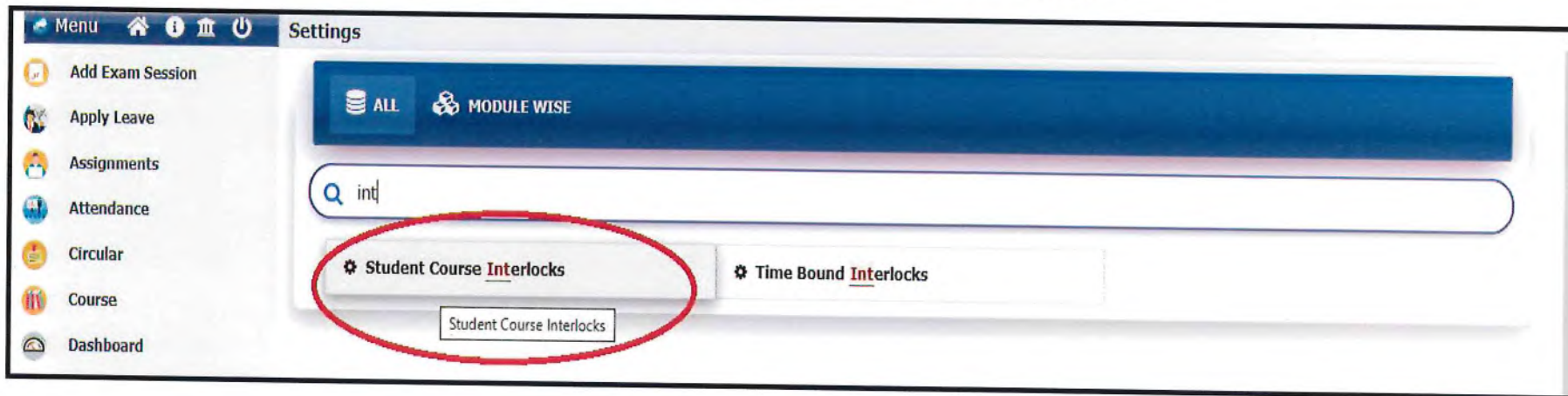


Figure 2.10: Settings showing Student Course Interlocks

- There are 5 sub-settings that can be performed in "Student Course Interlock" :
 - i. Requisites – The user can set pre-requisites, co-requisites and anti-requisites through this tab.
 - ii. Credit Limit – The registration window for students along with the credit limit value offered to them as per the study scheme is set under credit limit.
 - iii. Event Attendance limits – To set the maximum number of event attendance any student can be benefitted with is set through event attendance limit. (Done either by Registrar Office or by Administrator)
 - iv. Course Authorization – The list of students who belong to particular class is displayed from which the time table coordinators can select the students who are allowed to do registration for the upcoming semester.
 - v. Basket-wise Limit – This setting enable the restriction on credits offered under various course baskets like Generic Electives, Open electives etc.

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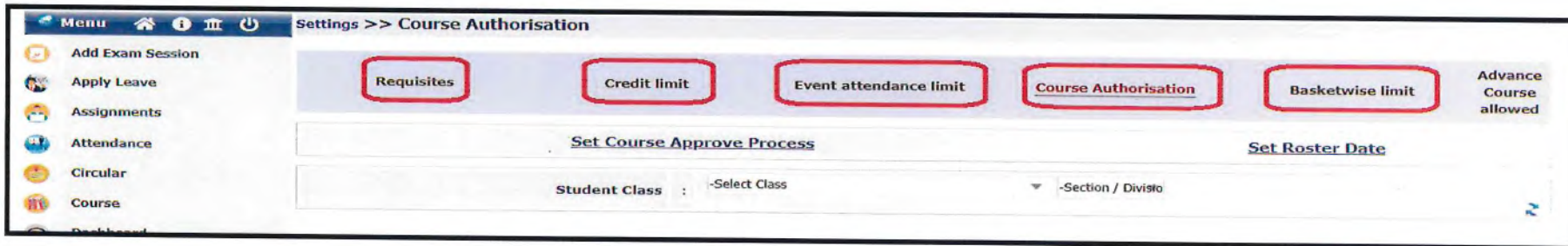


Figure 2.11: Student Course Interlock Window

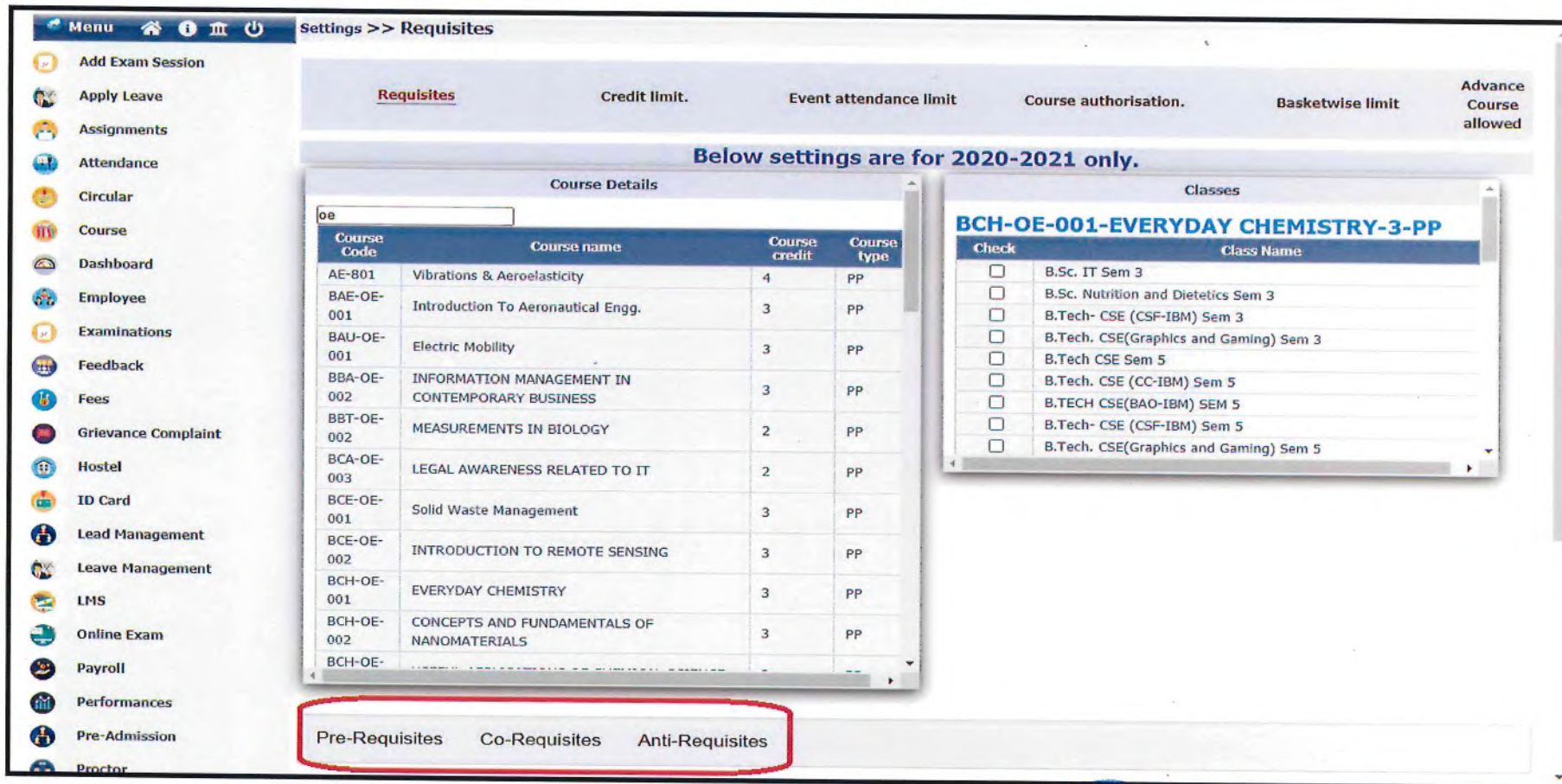
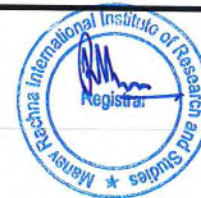


Figure 2.12: Setting of Pre/Co/Anti- Requisites

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Menu Settings >> Credit limit

[Requisites](#) **Credit limit** [Event attendance limit](#) [Course Authorisation](#) [Basketwise limit](#) [Advance Course allowed](#)

Department: Department of Automobile Engineering Program: B.Tech. Automobile Engineering 002 [SEARCH](#)

Sr.no	Class Name	Semester	Credit Limit	From date	To date
1	Auto Alumni	Alumni	30	2020-06-03	2020-06-10
2	B.Tech. Automobile	Sem 1	Credit limit		
3	B.Tech. Automobile	Sem 2	Credit limit		
4	B.Tech. Automobile	Sem 3	30	2020-05-14	2020-05-19
5	B.Tech. Automobile	Sem 4	Credit limit		
6	B.Tech. Automobile	Sem 5	30	2020-05-14	2020-06-15
7	B.Tech. Automobile	Sem 6	Credit limit		
8	B.Tech. Automobile	Sem 7	30	2020-05-14	2020-06-15
9	B.Tech. Automobile	Sem 8	Credit limit		
10	old B.Tech Auto II shift	Sem 8	Credit limit		

Figure 2.13: Credit Limit Window

Menu Settings >> Credit limit

[Requisites](#) [Credit limit](#) **Event attendance limit** [Course Authorisation](#) [Basketwise limit](#) [Advance Course allowed](#)

Department: Department of Aeronautical Engineering Program: B.Tech. - Aeronautical Engineering 001 [SEARCH](#)

Sr.no	Class Name	Semester	Event Capping Limit
1	Aero Alumni	Alumni	Capping Li
2	OLD FEE STUDENT	OLD	Capping Li
3	B.Tech. Aeronautical	Sem 1	Capping Li
4	B.Tech. Aeronautical	Sem 2	Capping Li
5	B.Tech. Aeronautical	Sem 3	30
6	B.Tech. Aeronautical	Sem 4	Capping Li
7	B.Tech. Aeronautical	Sem 5	0
8	B.Tech. Aeronautical	Sem 6	Capping Li
9	B.Tech. Aeronautical	Sem 7	Capping Li
10	B.Tech. Aeronautical	Sem 8	Capping Li

Figure 2.14: Event Attendance Capping

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Menu Settings >> Course Authorisation

[Requisites](#)
 [Credit limit](#)
 [Event attendance limit](#)
 [Course Authorisation](#)
 [Basketwise limit](#)
 [Advance Course allowed](#)

[Set Course Approve Process](#)
 [Set Roster Date](#)

Student Class : B.Tech. Aeronautical Sem 3 3 AE

Note - Credit limit not set for this class / semester. Institute level credit set to

Note :-
 1)If checkbox is checked then student will See Add &Finalised Button.
 1)If checkbox is checked then student Allowed the max credit course().

Sr.No	Roll No/Reg No	Student Name	Student Allow For Course Registration		Student Allow Max() Credit.	
			<input type="checkbox"/> Check All	<input type="checkbox"/> Check All	<input type="checkbox"/> Check All	<input type="checkbox"/> Check All
1	1/19/FET/BAE/001	Kavya chauhan	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2	1/19/FET/BAE/002	Samridhi Mehta	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3	1/19/FET/BAE/005	Yashraj Jotiba Musale	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4	1/19/FET/BAE/004	Siddhartha Gahlot	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5	1/19/FET/BAE/006	Kunal Bhardwaj	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6	1/19/FET/BAE/011	Raghav Arora	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7	1/19/FET/BAE/012	MANJEET SINGH	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8	1/19/FET/BAE/009	Vishal Vats	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9	1/19/FET/BAE/007	Akshita Singh Jadoun	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10	1/19/FET/BAE/010	SHIVAM RAJPOOT	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11	1/19/FET/BAE/008	Pratham Dawar	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
12	1/19/FET/BAE/014	Prema Thapa	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
13	1/19/FET/BAE/015	Anish Yadav	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

submit Cancel

Figure 2.15: Course Authorization

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Menu Settings >> Basketwise limit

Requisites
 Credit limit
 Event attendance limit
 Course Authorisation
 Basketwise limit
 Advance Course allowed

Department: Department of Computer Science & Engineering ▼
 Program: B.Tech - Computer Science & Engineering 005 ▼
 Academic Basket: CORE-20.00 ▼

Validation type:
 Count based Credit based

Note: Validation Type once set will not changed later. Only Min and Max value will get changed later.

Sr.no	Class Name	Overall Max Credit	Validation Type	Min	Max
1	B.Tech CSE Alumni Alumni	(Default)		<input type="text"/>	<input type="text"/>
2	B.Tech. CSE Sem 1	(Default)		<input type="text"/>	<input type="text"/>
3	B.Tech. CSE Sem 2	(Default)		<input type="text"/>	<input type="text"/>
4	B.Tech CSE Sem 3	(Default)	creditbased	19.50	19.50
5	Not in Use Sem 3	(Default)		<input type="text"/>	<input type="text"/>
6	B.Tech CSE ITIM sem 4	(Default)		<input type="text"/>	<input type="text"/>
7	B.Tech. CSE Sem 4	(Default)		<input type="text"/>	<input type="text"/>
8	B.Tech CSE Sem 5	(Default)	creditbased	19.50	19.50
9	B.Tech. CSE Sem 6	(Default)		<input type="text"/>	<input type="text"/>
10	B.Tech. CSE Sem 7	(Default)	creditbased	19.00	19.00
11	B.Tech. CSE Shift-2 Sem 7	(Default)		<input type="text"/>	<input type="text"/>
12	B.Tech. CSE Sem 8	(Default)		<input type="text"/>	<input type="text"/>
13	B.Tech. CSE Shift-2 Sem 8	(Default)		<input type="text"/>	<input type="text"/>

Figure 2.16: Basket-wise limit

- Once all the values under all relevant fields are entered by the timetable coordinator, allowed students are able to proceed with their registration process.
- The students when apply for the subject are able to modify their registration before their registration for that subject is approved, and in case, the change is required after approval, they need to take special permission.

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Note:- Ma Finalise Registration

B.Tech CSE Sem 3

B.Tech CSE Sem 3

B.Tech. CSE Sem 2

B.Tech. CSE Sem 1

Note:- Please click on above classes to view the registered courses.

Basket Name : CORE v

Total approved credit : 0
Total registered credit : 19.5
Basket Weightage : 20.00
Basket Credits : 0

Maximum Basket Credits : 20

<p style="background-color: #0070c0; color: white; padding: 2px;">Course Code : BCS-DS-301</p> <p>Credit : 4 i</p> <p>Title : data structures & algorithms</p> <p>Super Course Code :</p> <p style="text-align: right;">Registered & Pending Remove</p>	<p style="background-color: #0070c0; color: white; padding: 2px;">Course Code : BCS-DS-302</p> <p>Credit : 2 i</p> <p>Title : object oriented programming</p> <p>Super Course Code :</p> <p style="text-align: right;">Registered & Pending Remove</p>	<p style="background-color: #0070c0; color: white; padding: 2px;">Course Code : BCS-DS-351</p> <p>Credit : 1 i</p> <p>Title : data structures & algorithms lab</p> <p>Super Course Code :</p> <p style="text-align: right;">Registered & Pending Remove</p>
<p style="background-color: #0070c0; color: white; padding: 2px;">Course Code : BCS-DS-352</p> <p>Credit : 1 i</p> <p>Title : object oriented programming lab</p> <p>Super Course Code :</p> <p style="text-align: right;">Registered & Pending Remove</p>	<p style="background-color: #0070c0; color: white; padding: 2px;">Course Code : BEC-DS-322</p> <p>Credit : 3 i</p> <p>Title : digital electronics and circuits</p> <p>Super Course Code :</p> <p style="text-align: right;">Registered & Pending Remove</p>	<p style="background-color: #0070c0; color: white; padding: 2px;">Course Code : BEC-DS-362</p> <p>Credit : 1 i</p> <p>Title : digital electronics and circuits lab</p> <p>Super Course Code :</p> <p style="text-align: right;">Registered & Pending Remove</p>
<p style="background-color: #0070c0; color: white; padding: 2px;">Course Code : BHM-001</p> <p>Credit : 3 i</p> <p>Title : cyber law & ethics</p> <p>Super Course Code :</p>	<p style="background-color: #0070c0; color: white; padding: 2px;">Course Code : BHM-MC-004</p> <p>Credit : 0 i</p> <p>Title : quantitative aptitude</p> <p>Super Course Code :</p>	<p style="background-color: #0070c0; color: white; padding: 2px;">Course Code : BMA-303</p> <p>Credit : 2 i</p> <p>Title : mathematics-iii</p> <p>Super Course Code :</p>

Figure 2.17: Registration Window of Student with "Registered & Approval pending Courses"



B.Tech CSE Sem 3
B.Tech. CSE Sem 2
B.Tech. CSE Sem 1

Note:- Please click on above classes to view the registered courses.

Total approved credit : 19.5 Total registered credit : 0 Basket Weightage : 20.00 Basket Credits : 0
Maximum Basket Credits : 20

Course Code : BCS-DS-301 Credit : 4 Title : data structures & algorithms Super Course Code : Registered & Approved	Course Code : BCS-DS-302 Credit : 2 Title : object oriented programming Super Course Code : Registered & Approved	Course Code : BCS-DS-351 Credit : 1 Title : data structures & algorithms lab Super Course Code : Registered & Approved
Course Code : BCS-DS-352 Credit : 1 Title : object oriented programming lab Super Course Code : Registered & Approved	Course Code : BEC-DS-322 Credit : 3 Title : digital electronics and circuits Super Course Code : Registered & Approved	Course Code : BEC-DS-362 Credit : 1 Title : digital electronics and circuits lab Super Course Code : Registered & Approved
Course Code : BHM-001 Credit : 3 Title : cyber law & ethics Super Course Code : Registered & Approved	Course Code : BHM-MC-004 Credit : 0 Title : quantitative aptitude Super Course Code : Registered & Approved	Course Code : BMA-303 Credit : 2 Title : mathematics-iii Super Course Code : Registered & Approved
Course Code : DS101	Course Code : PROJ-CS-300	Course Code : RIC-300

Figure 2.18: Registration Window of Student with "Registered and Approved Courses"

Course Code : BCH-OE-002

Credit : 3
 Title : CONCEPTS AND FUNDAMENTALS OF NANOMATERIALS
 Course Document
 Super Course Code :

Apply

Figure 2.19: Sample of "Not Registered Course"



STEP 4: ASSIGNING SECTIONS –

- Since the students are promoted to new class, there is requirement of assigning the desired sections to them so that different classes can be created. This is achievable through Setting >> Assign Section/Division to student

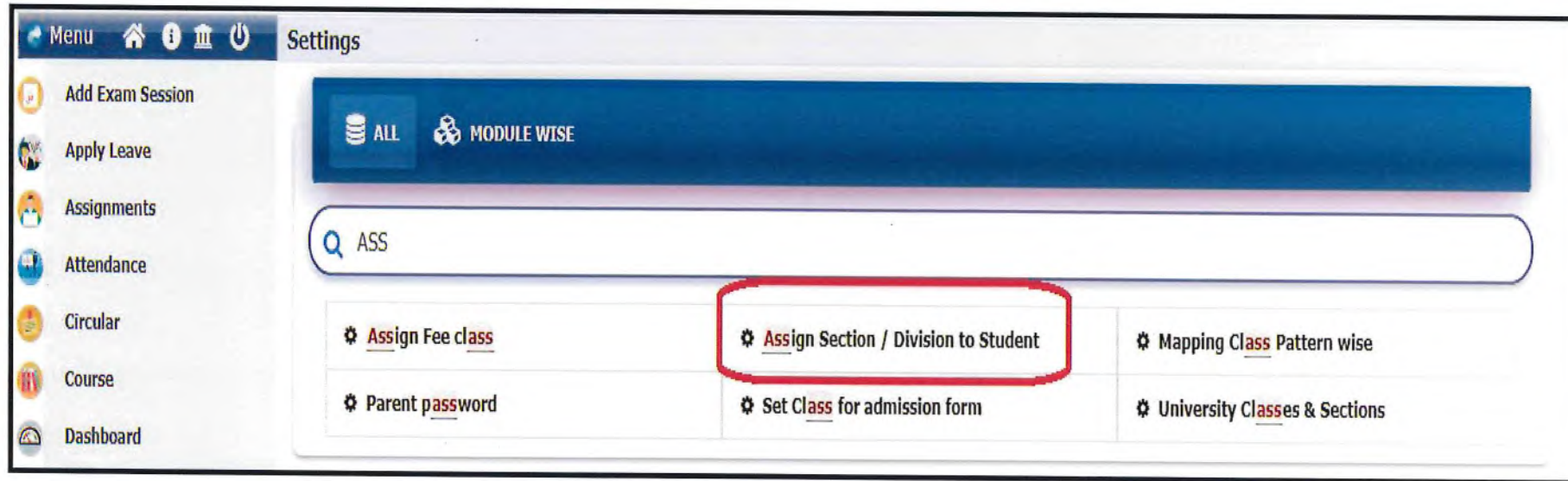


Figure 2.20: Assign Section/Division to Student

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Menu

Student Section / Division allotment

Student Dept. : Department of Computer Science & Engineering
 Student Class : B.Tech CSE Sem 3
 Order By : -Order By- -Order Sequence-
 Select Section / Division to assign : -Section / Division-
 Enter 'From' And 'To' Serial No For Checkox check : -Section / Division- To

3CSA
3CSB
3CSC

Sr.No	Unique Id	Roll No/Reg No	Student Name	Email	Branch Name	Already assigned Section / Division	Check All
1	11901005N001	1/19/FET/BCS/001	ANUBHAV SHARMA	anupam@cloudnxtvision.com		3CSA	<input type="checkbox"/>
2	11901005N002	1/19/FET/BCS/002	ANKIT JHA	Radhey Shyam Jha		3CSA	<input type="checkbox"/>
3	11901005N005	1/19/FET/BCS/003	ARYAN SHARMA	Sarvan Sharma		3CSA	<input type="checkbox"/>
4	11901005N006	1/19/FET/BCS/004	NIKITA CHAMOLI	Rajender Prasad Chamoli		3CSA	<input type="checkbox"/>
5	11901005N007	1/19/FET/BCS/005	RUDHRA PARTAP SINGH YADAV	Poursh Yadav		3CSA	<input type="checkbox"/>
6	11901005N008	1/19/FET/BCS/006	RIYA CHAUHAN	Ravindra Kumar Chauhan		3CSA	<input type="checkbox"/>
7	11901005N009	1/19/FET/BCS/007	VIRAT TYAGI	Ajay Tyagi		3CSA	<input type="checkbox"/>
8	11901005N010	1/19/FET/BCS/008	RIYA SINGH	Rajnish Singh		3CSA	<input type="checkbox"/>
9	11901005N011	1/19/FET/BCS/009	ROBIN	Ashok Kumar		3CSA	<input type="checkbox"/>
10	11901005N012	1/19/FET/BCS/010	GAURAV THAKUR	Sunil Thakur		3CSA	<input type="checkbox"/>
11	11901005N013	1/19/FET/BCS/011	SAURAV THAKUR	Sunil Thakur		3CSA	<input type="checkbox"/>
12	11901005N014	1/19/FET/BCS/012	MANDEEP NISHAD	Rajdev Nishad		3CSA	<input type="checkbox"/>
13	11901005N016	1/19/FET/BCS/013	YASH MANGLA	Sunder Mangla		3CSA	<input type="checkbox"/>
14	11901005N017	1/19/FET/BCS/014	ROBIN RAJ	Anand Prakash Pandey		3CSA	<input type="checkbox"/>
15	11901005N018	1/19/FET/BCS/015	SAHIL VERMA	Pradeep		3CSA	<input type="checkbox"/>
16	11901005N020	1/19/FET/BCS/016	ANMOL MITTAL	A K Mittal		3CSA	<input type="checkbox"/>
17	11901005N021	1/19/FET/BCS/017	VARUN SHARMA	Manoj Kumar Sharma		3CSA	<input type="checkbox"/>
18	11901005N022	1/19/FET/BCS/018	RUTUPARNA	Kiran Sakalkale		3CSA	<input type="checkbox"/>
19	11901005N023	1/19/FET/BCS/019	ADITYA DHANESH NAIR	B Dhanesh		3CSA	<input type="checkbox"/>
20	11901005N025	1/19/FET/BCS/021	DHRUV KUMAR THAKUR	Manoj Kumar Thakur		3CSA	<input type="checkbox"/>
21	11901005N026	1/19/FET/BCS/022	NEHA BATRA	Rajesh Batra		3CSA	<input type="checkbox"/>
22	11901005N028	1/19/FET/BCS/024	RAHUL RAWAT	Vijay Singh Rawat		3CSA	<input type="checkbox"/>
23	11901005N030	1/19/FET/BCS/025	SIDDHARTH KAPOOR	Sanjay Kapoor		3CSA	<input type="checkbox"/>
24	11901005N034	1/19/FET/BCS/027	GAURAV KUMAR	Birendra Rai		3CSA	<input type="checkbox"/>

Figure 2.21: Student Section/Division Allotment Screen

Uniq



STEP 5: PRACTICAL / ELECTIVE BATCH CREATION –

- There are certain courses for a class that are mandatory and certain courses are Electives. In order to separate the student lists for the Elective Courses, the batch for the particular Elective courses is created.
- There is “HOD Master” setting through which the batch creation and course allotment tasks are performed.
- List of all the groups for a particular class can be viewed from the ‘View Elective Group’ window and can be updated as and when required from ‘Update Elective Group’ window.
- Similarly, the practical batches can be created and updated for the practical courses. The practical courses are linked with the practical groups created through ‘Link batch’ tab.

The screenshot shows the 'Add Elective Group' form within the 'HOD Master' system. The breadcrumb trail is 'Settings >> HOD Master >> Elective Group >> Add Elective Group'. The form has a left sidebar with various system modules like 'Add Exam Session', 'Apply Leave', 'Assignments', etc. The main form area contains the following fields and controls:

- Departmental Staff**: Allot Course, Practical Batch, **Elective Group**, Load Details
- Elective Group**: View Elective Group, Update Elective Group
- Select Academic Year**: 2020-2021 (dropdown)
- Section**: (text input)
- Select Class**: --Select Class-- (dropdown)
- Academic Session**: Select Session (dropdown)
- Elective Course**: (text input)
- Branch (You Can select multiple branches)**: (text input)
- Search**: (text input) with a **Search** button
- Group Name**: (text input)

At the bottom of the form, there is a search bar labeled 'Search Here..' and a note 'Student will display here..' with **Create Group** and **Cancel** buttons.

Figure 2.22: HoD Master >> Elective Group

Settings >> HOD Master >> Elective Group >> Add Elective Group

Departmental Staff Allot Course Practical Batch **Elective Group** Load Details

Elective Group View Elective Group Update Elective Group

Select Academic Year : 2020-2021

Section : × Odd

Select Class : B.Tech CSE Sem 3

Academic Session: : June - Dec

Elective Course : BCE-OE-001-Solid Waste Management - PP

Branch (You Can select multiple branches) : × MRIIRS-Faculty of Engineering and Technology

Search : Search

Group Name :

Search Here..

Class : B.Tech CSE
Division: All

Sr.No	Student Name	Roll No/Reg No	Branch	Assign
1	ANUBHAV SHARMA	1/19/FET/BCS/001	MRIIRS-Faculty of Engineering and Technology	<input type="checkbox"/>

Figure 2.23: Creation of elective batch

Chay



Settings >> HOD Master >> Elective Group >> View Elective Group

Departmental Staff Allot Subject Practical Batch **Elective Group** Load Details

Elective Group [View Elective Group](#) Update Elective Group

View Elective Groups Of Particular Class

2020-2021 × Odd B.Tech CSE Sem 3 All

Showing Elective Group For All Subjects

AE_CSA-Batch	1	ABS_CSB-Batch	1	ABS_CSA-Batch	1
CFN_CSA-Batch	1	BAB_CSB-Batch	1	AE_CSB-Batch	3
CL_CSB-Batch	1	CL_CSA-Batch	6	CFN_CSB-Batch	1
EHF_CSA-Batch	2	CMCF_CSB-Batch	3	CMCF_CSA-Batch	10
FFC_CSA-Batch	0	EM_CSB-Batch	4	EHF_CSB-Batch	3
FT_CSB-Batch	12	FT_CSA-Batch	5	FFC_CSB-Batch	1
MB_CSB-Batch	1	IRS_CSA-Batch	3	IMCB_CSB-Batch	1
MSP_CSA-Batch	1	MPSS_CSB-Batch	1	MPSS_CSA-Batch	2
PSA_CSA-Batch	1	PC_CSA-Batch	1	MSP_CSB-Batch	2
SFA_CSB-Batch	13	SFA_CSA-Batch	12	REEH_CSB-Batch	3
SWM_CSB-Batch	6	SWM_CSA-Batch	9	SSP_CSB-Batch	2
UACS_CSA-Batch	1	TW_CSA-Batch	2	test google-Batch	1
		WM_CSB-Batch	2	UACS_CSB-Batch	1

[Add New Group](#)

Figure 2.24: List of Elective Groups

Vinay



Settings >> HOD Master >> Elective Group >> View Elective Group

SFA_CSA-Batch

Export To Excel

Note : Row marked color are inactive students

Batch Name : SFA_CSA-Batch Class : B.Tech CSE - Sem 3 [3CSA]

Elective Group is used in Allotment

Sr.no.	Name	Roll No.	Division	Phone	Email	Delete
1	Rutuparna	1/19/FET/BCS/018	3CSA	9810840771		⊗
2	SAMIR DUTTA	1/19/FET/BCS/030	3CSA	8617491912		⊗
3	Ankit Pandey	1/19/FET/BCS/036	3CSA	9801329298		⊗
4	Anurag Bhatt	1/19/FET/BCS/043	3CSA	9810922600		⊗
5	AYUSHI SHARMA	1/19/FET/BCS/045	3CSA	9818765645		⊗
6	Himanshi	1/19/FET/BCS/046	3CSA	9813578366		⊗
7	Sheetal Kumari	1/19/FET/BCS/049	3CSA	8210463946		⊗
8	Archana Singh	1/19/FET/BCS/050	3CSA	9102774383		⊗
9	shikha	1/19/FET/BCS/051	3CSA	9958304974		⊗
10	Shailendra Yadav	1/19/FET/BCS/055	3CSA	7419067620		⊗
11	Suryansh Tyagi	1/19/FET/BCS/056	3CSA	8279440543		⊗
12	Hitesh Lor	1/19/FET/BCS/060	3CSA	8929368565		⊗

Close

Figure 2.25: List of students in particular Elective Batch

Unkay



Menu HOD Master >> Elective Group >> Update Elective Group

Departmental Staff Allot Subject Practical Batch Elective Group Load Details

Elective Group View Elective Group Update Elective Group

Select Year : 2020-2021
 Section : Odd
 Select Class : B.Tech CSE Sem 3
 Elective Course : BMA-OE-001-STATISTICS FOR AN
 Branch (You Can select multiple branches)
 Group Name : SFA_CSA

Search Here..

Class : B.Tech CSE

Sr.No	Student Name	Roll No/Reg No	Branch	Assign
1	ANUBHAV SHARMA	1/19/FET/BCS/001	MRIIRS-Faculty of Engineering and Technology	<input type="checkbox"/>
2	Ankit Jha	1/19/FET/BCS/002	MRIIRS-Faculty of Engineering and Technology	<input type="checkbox"/>
3	Aryan Sharma	1/19/FET/BCS/003	MRIIRS-Faculty of Engineering and Technology	<input type="checkbox"/>
4	NIKITA CHAMOLI	1/19/FET/BCS/004	MRIIRS-Faculty of Engineering and Technology	<input type="checkbox"/>
5	Rudhra Partap Singh Yadav	1/19/FET/BCS/005	MRIIRS-Faculty of Engineering and Technology	<input type="checkbox"/>
6	RIYA CHAUHAN	1/19/FET/BCS/006	MRIIRS-Faculty of Engineering and Technology	<input type="checkbox"/>
7	Virat Tyagi	1/19/FET/BCS/007	MRIIRS-Faculty of Engineering and Technology	<input type="checkbox"/>
8	Riya Singh	1/19/FET/BCS/008	MRIIRS-Faculty of Engineering and Technology	<input type="checkbox"/>

Figure 2.26: Editing created Elective group

Vinay



Settings >> HOD Master >> Practical Batches >> Add Practical Batches

Departmental Staff	Allot Subject	Practical Batch	Elective Group	Load Details
Add Practical Batches				
	Link Batch	Batch Details	Update Batch	View/Delete Batch

Year : 2020-2021

Section : × Odd

Class : B.Tech CSE Sem 3

Branch (You Can select multiple branches) : × MRIIRS-Faculty of Engineering and Technology

Search :

Batch Name :

Enter 'From' And 'To' Serial No : From To

Class : B.Tech CSE

Division: Course :

Sr.No	Student Name	Roll No/Reg No	Branch Name	Assign
1	ANUBHAV SHARMA	1/19/FET/BCS/001	MRIIRS-Faculty of Engineering and Technology	<input type="checkbox"/>
2	Ankit Jha	1/19/FET/BCS/002	MRIIRS-Faculty of Engineering and Technology	<input type="checkbox"/>

Figure 2.27: Creation of Practical Batch



Unay

Menu Settings >> HOD Master >> Practical Batches >> Course Details

Departmental Staff Allot Course Practical Batch Elective Group Load Details

Add Practical Batches Link Batch Batch Details Update Batch

Practical Batch Details

Select Year : 2020-2021

Section : Odd

Select Class : B.Tech CSE Sem 3

Practical Batch Name : 3CSA1

Branch (You Can select multiple branches) : MRIIRS-Faculty of Engineering and Technology

Search : Search

Back to Main

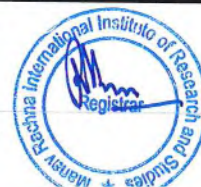
Search Here..

Class : B.Tech CSE

Sr.No	Student Name	Roll No/Reg No	Branch Name	Assign	Batch Name	Changes
1	ANUBHAV SHARMA	1/19/FET/BCS/001		<input checked="" type="checkbox"/>		
2	Ankt Jha	1/19/FET/BCS/002		<input checked="" type="checkbox"/>		
3	Aryan Sharma	1/19/FET/BCS/003		<input checked="" type="checkbox"/>		
4	NIKITA CHAMOLI	1/19/FET/BCS/004		<input checked="" type="checkbox"/>		
5	Rudhra Partap Singh Yadav	1/19/FET/BCS/005		<input checked="" type="checkbox"/>		
6	RIYA CHAUHAN	1/19/FET/BCS/006		<input checked="" type="checkbox"/>		
7	Virat Tyagi	1/19/FET/BCS/007		<input checked="" type="checkbox"/>		
8	Riva Singh	1/19/FET/BCS/008		<input checked="" type="checkbox"/>		

Figure 2.28: Window for updation of already created Batch

Unmay



Settings >> HOD Master >> Practical Batches >> Link Batches to Course

Departmental Staff Allot Course **Practical Batch** Elective Group Load Details

Add Practical Batches **Link Batch** Batch Details Update Batch

Year: 2020-2021 Section: Odd Class: B.Tech CSE Sem 3 Academic Session: June - Dec Division: 3CSA [Back to Main](#)

Subject	Short Name	3CSA1	3CSA2	3CSB1	3CSB2	EFM_CSA	EFM_CSB	HRM_CSA	HRM_CSB
data structures & algorithms lab-PR		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
digital electronics and circuits lab-PR		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
object oriented programming lab-PR		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
quantitative aptitude-PR		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
summer internship-I-PR		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Research & Innovation Catalyst-I-PR		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
data structures & algorithms-TUT		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Fashion Communication-TUT		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Excel for Managers-TUT		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
HOSPITALITY RETAIL MANAGEMENT-TUT		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

[Add New Batch](#)
[Link Batch](#)

Figure 2.29: Linking of created Practical Batch and associated Courses

Unmay



STEP 6: COURSE ALLOTMENT TO FACULTY MEMBERS –

- Once course creation, course program mapping and elective/practical batch creation is done, the next step is to do the binding between courses and the faculty member who will be taking that particular subject.
- Multiple faculties can be added for each course, since more than one faculty may handle lab courses.
- This allotment is done by EMS coordinator as per the approved teaching load. The steps followed for allotting courses are Settings >> HOD Master >> Allot Course.

Home >> Settings >> HOD Master >> Allot Course

Departmental Staff **Allot Course** Practical Batch Elective Group Load Details

Allot Course To Particular Teacher for academic year - 2020-2021

Select Year * 2020-2021

Select Section * Odd

Class And Division * B.Tech CSE Sem 3 3CS/

Academic Session * June - Dec

Select Course * BCS-DS-301 - data structures & algorithms - PP (...)

Select Teacher * 5000202 - Garg Nidhi

Teacher Load * 3 /week Total Subject Load:3

** HOD / Academic Coordinator belonging to a particular department can only ALLOT Course (ADMIN can only View)

Cancel

Select Year 2020-2021 Select Section Select a Section Search

Show All entries Search: Print

Figure 2.30: Course Allotment Window

Unjay



Select Year Select Section

Show entries Search:

Class	Semester	Division	Teacher Name	Course Name	Allotment Type	Practical Batch	Load	Edit	Delete
B.Tech ECE	Sem 7	7ECA	Geeta Nijhawan (110006)	advances in wireless communication (EC-726)	PP		4	<input type="button" value="Edit"/>	<input type="button" value="Delete"/>
ECE Alumni	Alumni	SEC B	Geeta Nijhawan (110006)	Advances in Wireless Communication (EC-726)	PP	PSC AWC	8	<input type="button" value="Edit"/>	<input type="button" value="Delete"/>
B.Tech CSE	Sem 5	5CSA	Anupama Rajput(From-Department of Applied Sciences) (110007)	Solid Waste Management (BCE-OE-001)	PP	Waste Mngt-5CSA	4	<input type="button" value="Edit"/>	<input type="button" value="Delete"/>

Figure 2.31: List of all allotted courses

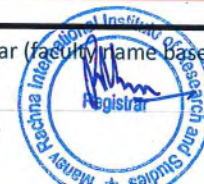
Show entries Search:

Class	Semester	Division	Teacher Name	Course Name	Allotment Type	Practical Batch	Load	Edit	Delete
B.Tech- CSE (CSF-IBM)	Sem 3	3CSF	Nidhi Garg (5000202)	data structures & algorithms (BCS-DS-301)	PP		4	<input type="button" value="Edit"/>	<input type="button" value="Delete"/>
B.Tech- CSE (CSF-IBM)	Sem 3	3CSF	Nidhi Garg (5000202)	data structures & algorithms lab (BCS-DS-351)	PR	3CSF1	2	<input type="button" value="Edit"/>	<input type="button" value="Delete"/>
B.Tech- CSE (CSF-IBM)	Sem 3	3CSF	Nidhi Garg (5000202)	data structures & algorithms lab (BCS-DS-351)	PR	3CSF2	2	<input type="button" value="Edit"/>	<input type="button" value="Delete"/>
B.Tech- CSE (CSF-IBM)	Sem 3	3CSF	Nidhi Garg (5000202)	data structures & algorithms (BCS-DS-301)	TUT	3CSF1	1	<input type="button" value="Edit"/>	<input type="button" value="Delete"/>
B.Tech- CSE (CSF-IBM)	Sem 3	3CSF	Nidhi Garg (5000202)	data structures & algorithms (BCS-DS-301)	TUT	3CSF2	1	<input type="button" value="Edit"/>	<input type="button" value="Delete"/>
B.TECH CSE(BAO-IBM)	SEM 3	3BAO	Nidhi Garg (5000202)	data structures & algorithms (BCS-DS-301)	PP		4	<input type="button" value="Edit"/>	<input type="button" value="Delete"/>
B.TECH CSE(BAO-IBM)	SEM 3	3BAO	Nidhi Garg (5000202)	data structures & algorithms lab (BCS-DS-351)	PR	3BAO	2	<input type="button" value="Edit"/>	<input type="button" value="Delete"/>
B.TECH CSE(BAO-IBM)	SEM 3	3BAO	Nidhi Garg (5000202)	data structures & algorithms (BCS-DS-301)	TUT	3BAO	1	<input type="button" value="Edit"/>	<input type="button" value="Delete"/>

Showing 1 to 8 of 8 entries (filtered from 1,338 total entries)

Figure 2.32: Allocation of Courses can be searched through search bar (faculty name based search)

Vijay



Show **All** entries

Search:

Class	Semester	Division	Teacher Name	Course Name	Allotment Type	Practical Batch	Load	Edit	Delete
B.Tech- CSE (CC-IBM)	Sem 3	3CCA	Priyanka Grover (110245)	data structures & algorithms lab (BCS-DS-351)	PR	3CCA1	2		
B.Tech- CSE (Graphics and Gaming)	Sem 3	3GAG	Priyanka Grover (110245)	data structures & algorithms lab (BCS-DS-351)	PR	3GAG	2		
B.Tech- CSE (CC-IBM)	Sem 3	3CCA	Priyanka Grover (110245)	data structures & algorithms lab (BCS-DS-351)	PR	3CCA2	2		
B.Tech- CSE (CC-IBM)	Sem 3	3CCA	Monika Garg (110292)	data structures & algorithms (BCS-DS-301)	PR		4		
B.Tech- CSE (CC-IBM)	Sem 3	3CCA	Monika Garg (110292)	data structures & algorithms lab (BCS-DS-351)	PR	3CCA1	2		
B.Tech- CSE (CC-IBM)	Sem 3	3CCA	Monika Garg (110292)	data structures & algorithms lab (BCS-DS-351)	PR	3CCA2	2		
B.Tech- CSE (CC-IBM)	Sem 3	3CCA	Monika Garg (110292)	data structures & algorithms (BCS-DS-301)	TUT	3CCA1	1		
B.Tech- CSE (CC-IBM)	Sem 3	3CCA	Monika Garg (110292)	data structures & algorithms (BCS-DS-301)	TUT	3CCA2	1		
B.Tech- CSE (Graphics and Gaming)	Sem 3	3GAG	Monika Garg (110292)	data structures & algorithms (BCS-DS-301)	PR		4		

Figure 2.33: Allocation of Courses can be searched through search bar (Course name based search)

Show **All** entries

Search:

Class	Semester	Division	Teacher Name	Course Name	Allotment Type	Practical Batch	Load	Edit	Delete
B.Tech- CSE (CSF-IBM)	Sem 3	3CSF	Pinki Sagar (110168)	Research & Innovation Catalyst-I (RIC-300)	PR	3CSF1	1		
B.Tech- CSE (CSF-IBM)	Sem 3	3CSF	Monika (110227)	digital electronics and circuits lab (BEC-DS-162)	PR	3CSF1	2		
B.Tech- CSE (CSF-IBM)	Sem 3	3CSF	Monika Chavla (110275)	digital electronics and circuits lab (BEC-DS-162)	PR	3CSF2	2		
B.Tech- CSE (CSF-IBM)	Sem 3	3CSF	VIJAY YADAV(From-) (2010725)	quantitative aptitude (BHM-MC-004)	PR	3CSF1	1		
B.Tech- CSE (CSF-IBM)	Sem 3	3CSF	Antara Guha Thakurta(From-) (2010733)	quantitative aptitude (BHM-MC-004)	PR	3CSF1	1		
B.Tech- CSE (CSF-IBM)	Sem 3	3CSF	Nidhi Garg (5000202)	data structures & algorithms lab (BCS-DS-351)	PR	3CSF1	2		
B.Tech- CSE (CSF-IBM)	Sem 2	3CSF	Nidhi Garg (5000202)	data structures & algorithms (BCS-DS-301)	TUT	3CSF1	1		
B.Tech- CSE (CSF-IBM)	Sem 3	3CSF	Kritika Taneja (5000266)	Research & Innovation Catalyst-I (RIC-300)	PR	3CSF1	1		
B.Tech- CSE (CSF-IBM)	Sem 3	3CSF	Shobha Tyagi (5000462)	object oriented programming lab (BCS-DS-352)	PR	3CSF1	2		
B.Tech- CSE (CSF-IBM)	Sem 2	3CSF	Urveshi Chugh (5000468)	object oriented programming lab (BCS-DS-383)	PR	3CSF1	2		
B.Tech- CSE (CSF-IBM)	Sem 3	3CSF	Shubhangi Srivastava (5000647)	data structures & algorithms lab (BCS-DS-351)	PR	3CSF1	2		

Figure 2.34: Allocation of Courses can be searched through search bar (Class based search)

Vijay



STEP 7: COURSE ALLOTMENT TO FACULTY MEMBERS –

- Once allotment is done, the EMS coordinators can now proceed with creation of class-wise timetable.
- In order to do so, the first step is preparing the timetable “University Structure” so that the timeslots for classes can be defined, which is present in “Settings”.

University Schedule Structure

Back to Main
Add Lecture Timing

	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1	holiday						
2	holiday						
3	holiday						
4	holiday						
5	holiday						
6	holiday						
7	holiday						
8	holiday						
9	holiday						
10	holiday						
11	holiday						
12	holiday						
13	holiday						

Number of Terms in a year : 2

Starting date of Academic year : 2020-05-25

Ending date of Academic year : 2021-06-30

Holiday(s) of the week : Sunday,

No. of periods of a day : 13

Lunch Break after : None

I Break after : None

II Break after :

Back to Main

Figure 2.35: Setting >> University Structure >> Add Lecture Timings

Unmay



MANAV RACHNA
International Institute of Research and Studies

Menu ▾

Settings Home • Settings • University Structure

Lecture Timing

Please Create New Version Before Updating Time Slots.

Year: 2020-2021

Section: × Odd

Class: BTech Biotechnology Sem 5

Division: 5 BT

(Please Click on Checkbox If Copy Structure To All Division)

Search

Lecture Timetable

Period	From Time	TO	To Time
Period 1	08:10	TO	09:00
Period 2	09:00	TO	09:50
Period 3	09:50	TO	10:40
Period 4	10:40	TO	11:30
Period 5	11:30	TO	12:20

Figure 2.36: Timeslots entered lecture wise with From & To timings

Umay



- Timetable is then prepared and new versions can be added as and when required whenever there is some update in teaching load or there is break because of some other academic related event.



Figure 2.37: Main Window >> Time Table

- The values for all fields i.e. Academic Year, Section, Class and Divisions are to be selected and then the time table coordinators can proceed with time table preparation by clicking on “Prepare Timetable” button.

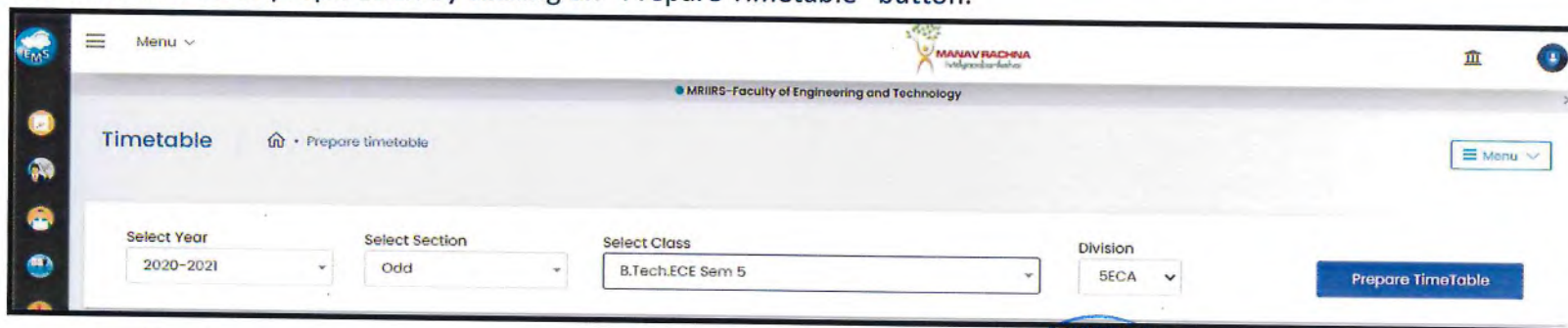


Figure 2.38: Preparing Time Table

Umay



- New version of timetable can be created by clicking on “Add New version” which opens the window asking for Version details.



Figure 2.39: Adding New Version

Add New Version

Version Name *:

Date:

Copy Version:

While Copying, Old time-slots and timetable data will get copied to new one.

Figure 2.40: Adding of New Timetable Version

- Once version is created, to prepare the timetable for the created version, one has to click on “” icon present in row corresponding to created version.

Timetable Home • Prepare Timetable • TimeTable Management

Sr.No.	Version Name	From Date	To Date	Lock Action	Create Time Table	View Time Table	Alternate Arrangement	Action
1	5ECA ONLINE 1.0	01-06-2020	30-06-2020	🔒				
2	5ECA ONLINE 1.2	01-07-2020	19-07-2020	🔒				

Figure 2.41: Screen to add Timetable versions

Umay



Prepare Time Table Back

Class Name B.Tech.ECE Sem 5	Section SECA	Academic Year 2020-2021	Version Name SECA ONLINE 1.2	Version From Date 01 Jul 2020	Version To Date 19 Jul 2020
--------------------------------	-----------------	----------------------------	---------------------------------	----------------------------------	--------------------------------

Please Select Room Before Drag-Drop TimeTable Select Room

[8] V M - PSC CLEPSC CLE	[8] V J - PSC DEPSC DE	[8] P A - PSC EDPSC ED	[8] C I - PSC JAVAPSC JAVA
[10] AA - PSC ECAPSC ECA	[1] K P - DSP LAB5ECA1	[1] G - DSP LAB5ECA1	[2] C I - VLSI LABVLSI LAB
[2] A - VLSI LABVLSI LAB	[2] S V - Antenna LabANT LAB	[2] P A - Antenna LabANT LAB	

Days Period	MON	TUE	WED	THU	FRI	SAT	SUN
1 08:10 09:00	D U - IOTDIOT AS-09		G - DSP AS-09				
2 09:00 09:50	D U - IOTDIOT AS-09	S V - AntennaANTENNA AS-09 A - VLSIVLSI AS-09	G - DSP AS-09	M P - RIC III5ECA1 AS-09	G R - GERMANIGER I AS-09 G A S - FRENCHIFRE I AS-09		
3 09:50	S R - CS AS-09	S V - AntennaANTENNA AS-09	S R - QAPD II5ECA1 AS-09	S R - CS AS-09			

Figure 2.42: Timetable Template

- In case, a faculty is on leave or is assigned some other official duty, then the adjustment of their lectures for that duration can be done on the portal using the "Alternate Arrangement" option.

Timetable Prepare Timetable • TimeTable Management

Backdated Version Add New Version

Sr.No.	Version Name	From Date	To Date	Lock Action	Create Time Table	View Time Table	Alternate Arrangement	Action
1	SECA ONLINE 1.0	01-06-2020	30-06-2020	🔒	📄	📄	👤	🗑️
2	SECA ONLINE 1.2	01-07-2020	19-07-2020	🔒	📄	📄	👤	🗑️

Figure 2.43: Alternate Arrangement

Umay



Changed Time Table
Version Name : 5ECA ONLINE 1.2 Academic Year : 2020-2021

Class : B.Tech.ECE Sem 5 (5ECA)

Select Date

Select Faculty/Employee Name or Employee Id

Select TimeTable Slot

Select Allotment

Sr.No.	Original Time Table	Change From Date - To Date	Changed/New Time Table
--------	---------------------	----------------------------	------------------------

Figure 2.44: Window where adjustment can be done and saved

Changed Time Table
Version Name : saturday 19/10 Academic Year : 2019-2020

Class : B.Tech. CSE Sem 7 (7CSA)

Select Date

Select Faculty/Employee Name or Employee Id

Select TimeTable Slot

Select Allotment

Sr.No.	Original Time Table	Change From Date - To Date	Changed/New Time Table
1	Extra Lecture	19-10-2019 To 19-10-2019 ✓	Teacher : Kumar Krishan (110243) Subject : NPA (PP)
2	Extra Lecture	19-10-2019 To 19-10-2019 ✓	Teacher : Kumar Krishan (110243) Subject : NPA (PP)
3	Extra Lecture	19-10-2019 To 19-10-2019 ✓	Teacher : Kathuria Madhumita (110118) Subject : BDA (PP)
4	Extra Lecture	19-10-2019 To 19-10-2019 ✓	Teacher : Singh Meeta (110194) Subject : MIS (PP) MIS_7CSA
5	Extra Lecture	19-10-2019 To 19-10-2019 ✓	Teacher : dixit Prashant (5000011) Subject : MC (PP) MC_7CSA
6	Extra Lecture	19-10-2019 To 19-10-2019 ✓	Teacher : Kumar Rajender (5000290) Subject : PM (PP) PM-7CSA
7	Extra Lecture	19-10-2019 To 19-10-2019 ✓	Teacher : Kumar Rajender (5000290) Subject : PM (PP) PM-7CSA

Figure 2.45: List showing scheduled extra lectures

Uday



STEP 8: COURSE APPROVAL (BY HEAD OF DEPARTMENT) –

- The course registered by all the students are approved by concerned Heads of Department. This provision is available under “Course” option present in the menu either available on Main screen or in menu ribbon present on left side of screen.
- The steps to reach the window where the list of registered students along with their registered subjects is visible can be reached following the path below:

Course >> Student Course Approval >> Program-wise Student Course Approval

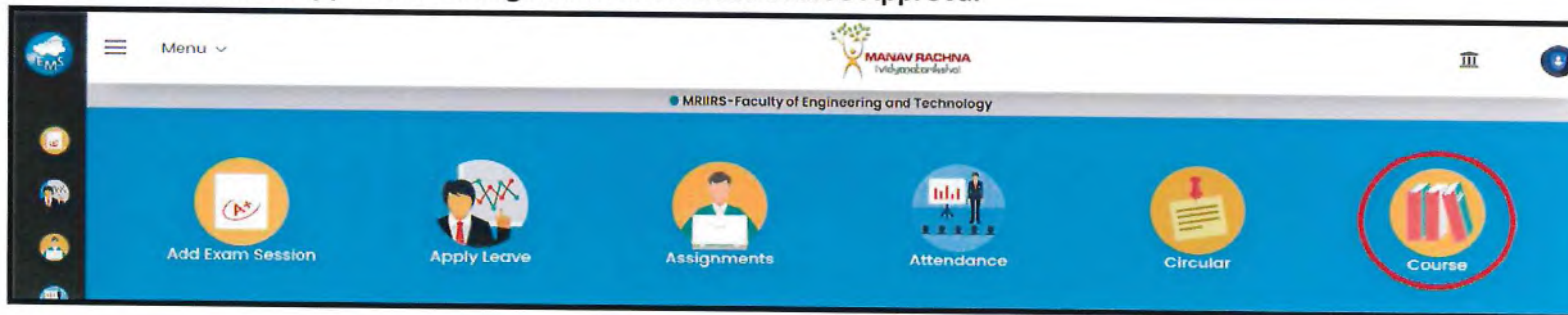


Figure 2.46: Main Window >> Course

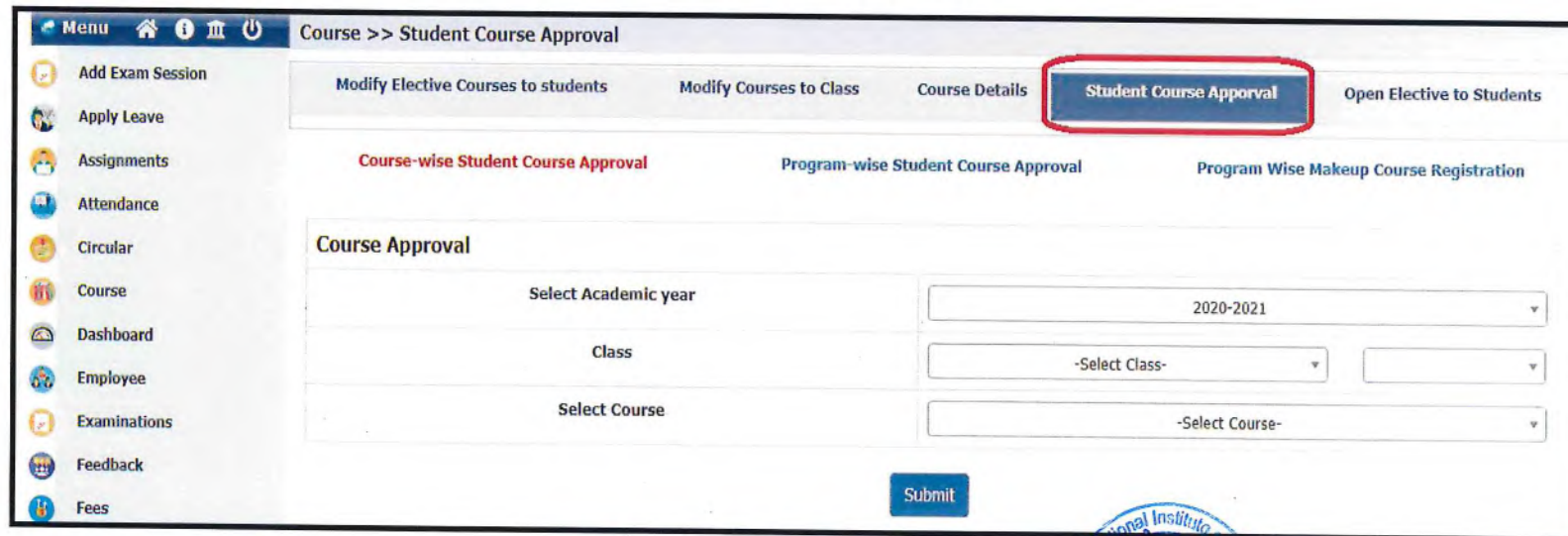


Figure 2.47: Student Course Approval

Vinay



Course >> Student Course Approval

Modify Course to Class Course details

Course-wise Student Course Approval **Program-wise Student Course Approval** Program Wise Makeup Course Registration

Program-wise Course Approval

Select Program :

Select Class :

Select division :

Figure 2.48: Program wise Student Course Approval

Course >> Student Course Approval

Modify Course to Class Course details

Course-wise Student Course Approval **Program-wise Student Course Approval** Program Wise Makeup Course Registration

Program Name :- B.Tech - Computer Science & Engineering Academic Year :- 2020-2021

Sr.no	Roll No/Reg No	Full Name	Section / Division	Finalised by Student	Course Approval ✓ Check All	Receipt
1	1/19/FET/BCS/001	ANUBHAV SHARMA	3CSA	No	<input checked="" type="checkbox"/>	Course Registration Slip
2	1/19/FET/BCS/002	Ankit Jha	3CSA	No	<input checked="" type="checkbox"/>	Course Registration Slip
3	1/19/FET/BCS/003	Aryan Sharma	3CSA	No	<input checked="" type="checkbox"/>	Course Registration Slip
4	1/19/FET/BCS/004	NIKITA CHAMOLI	3CSA	No	<input checked="" type="checkbox"/>	Course Registration Slip
5	1/19/FET/BCS/005	Rudhra Partap Singh Yadav	3CSA	No	<input checked="" type="checkbox"/>	Course Registration Slip
6	1/19/FET/BCS/006	RIYA CHAUHAN	3CSA	No	<input checked="" type="checkbox"/>	Course Registration Slip
7	1/19/FET/BCS/007	Virat Tyagi	3CSA	No	<input checked="" type="checkbox"/>	Course Registration Slip
8	1/19/FET/BCS/008	Riya Singh	3CSA	No	<input checked="" type="checkbox"/>	Course Registration Slip
9	1/19/FET/BCS/009	Robin	3CSA	No	<input checked="" type="checkbox"/>	Course Registration Slip
10	1/19/FET/BCS/010	Gaurav Thakur	3CSA	No	<input checked="" type="checkbox"/>	Course Registration Slip
11	1/19/FET/BCS/011	Saurav Thakur	3CSA	No	<input checked="" type="checkbox"/>	Course Registration Slip
12	1/19/FET/BCS/012	MANDEEP NISHAD	3CSA	No	<input checked="" type="checkbox"/>	Course Registration Slip
13	1/19/FET/BCS/013	Yash Mangla	3CSA	No	<input checked="" type="checkbox"/>	Course Registration Slip
14	1/19/FET/BCS/014	Robin Raj	3CSA	No	<input checked="" type="checkbox"/>	Course Registration Slip
15	1/19/FET/BCS/015	Sahil Verma	3CSA	No	<input checked="" type="checkbox"/>	Course Registration Slip

Figure 2.49: List of Students belonging to particular class

Umay



Menu Student Bulk Approve >> ● color indicates attendance already marked

Show entries Search:

Roll No/Reg No	Enrollment No	Student Name	Program/Course Name	Course Detail	Student Approval
1/19/FET/BCS/001	11901005N001	ANUBHAV SHARMA	B.Tech CSE	1 data structures & algorithms-PP BCS-DS-301 Approve 2020-05-18 04:24:06	Pending
				2 data structures & algorithms-TUT BCS-DS-301 Approve 2020-05-18 04:24:06	
				3 digital electronics and circuits-PP BEC-DS-322 Approve 2020-05-18 04:24:35	
				4 object oriented programming-PP BCS-DS-302 Approve 2020-05-18 04:24:11	
				5 cyber law & ethics-PP BHM-001 Approve 2020-05-18 04:24:47	
				6 mathematics-iii-PP BMA-303 Approve 2020-05-18 04:24:56	
				7 data structures & algorithms lab-PR BCS-DS-351 Approve 2020-05-18 04:24:16	
				8 digital electronics and circuits lab-PR BEC-DS-362 Approve 2020-05-18 04:24:41	
				object	

Figure 2.50: List of registered subjects showing registration dates along with the Status

Unmay



STEP 8: CREATION OF SESSION PLAN –

- The faculty member who are assigned/allotted the course for the semester have to upload the teaching lesson plan on portal in a specific format for which the template can be downloaded from portal itself.
- Since this is faculty related task, the option of session plan is available in “Profile” of faculty under the “Academic” Section.
- Steps to be followed are:
 - i. Login to your account
 - ii. Select “Profile” option available drop-down that appears once faculty click on the Image icon present on right side of window.



Figure 2.51: Profile option available in drop-down

Umay



- iii. Click on “Academics” to move to academic section as session plan uploading is an academic activity.

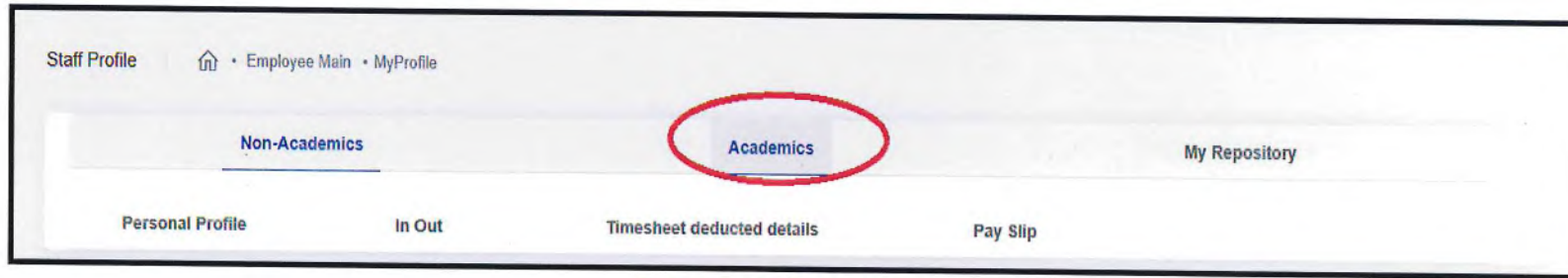


Figure 2.52: Profile >> Academics

- iv. The list of all the courses that are assigned to faculty appears for the current Academic Year, where there are some hyperlinked texts available for performing designated tasks like “TOPIC LIST” and “SESSION PLAN”. Click on the “Session Plan” hyperlink present corresponding to the subject for which teaching plan is to be uploaded.

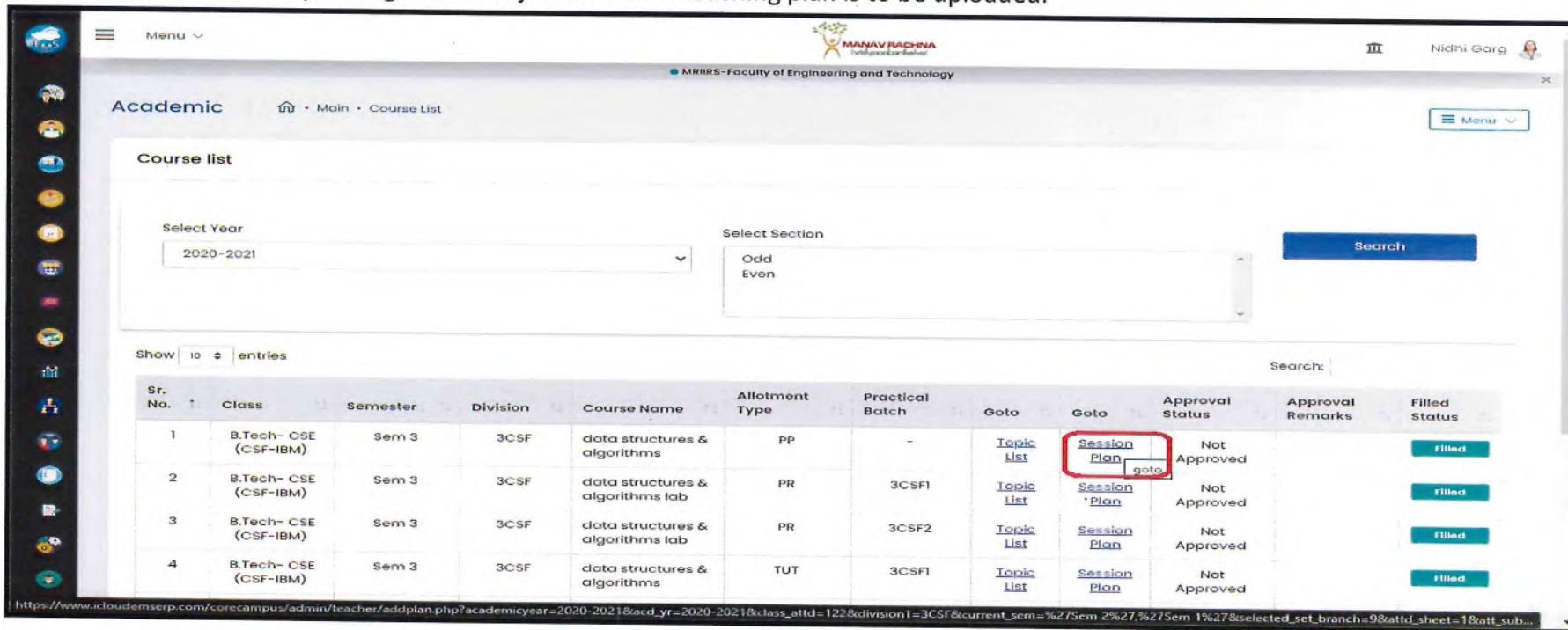


Figure 2.53: List of allotted courses for which Session Plan are to be uploaded

Ukay



- v. A new window opens-up having with many more hyperlinks that allow further more working for that course. To download the required template, select "IMPORT EXCEL" option present on the screen.



Figure 2.54: New window after clicking on Session Plan

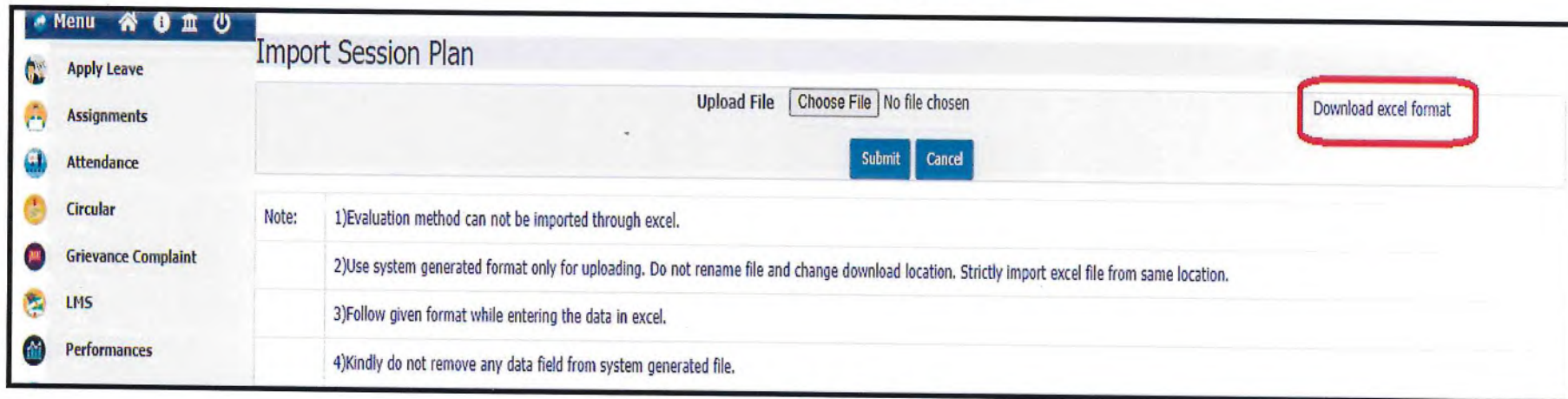


Figure 2.55: Link to download the Session Plan Template

Umay



TOM (L) [Compatibility Mode] - Microsoft Excel

	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
	Proposed Date	Points To Covered	Mode	Methodology/Activities	Co Mapping	blooms_level	Conducted Date	Unit No.	Study material No.	Unit No.	Unit Name			Study material No	Study material
1	19/07/2021	Introduction, Machine and structure, kinematic link, kinematic pair, types of constrained motion, Kinematic chain, mechanism, degree of freedom, Kutzbach criterion, Grublers criterion	Online Mode	Lecture with interaction	CO1	L1	00/00/0000	1	1	1	Simple Mechanisms & Synthesis of Mechanism			1	S.S. Rattan, " Theory of Machines", Tata McGraw Hill Publication
2	23/07/2021	Inversions of four bar mechanism, single slider and double slider crank chain	Online Mode	Casestudy based	CO1	L2	00/00/0000	1	3	2	Gear and Gear Trains			2	R.S.Khurmi, " Theory of Machines", Eurasia Publishing House
3	26/07/2021	steering gear mechanisms – Davis steering gear and Ackerman steering gear, problems	Online Mode	Lecture with interaction	CO1	L5	00/00/0000	1	2	3	Cam and Follower			3	R.L. Norton, "Kinematics and Dynamics of Machinery", Tata McGraw-Hill
4	28/07/2021	Types of Synthesis, classification of synthesis problems, Chebychev's spacing. Angle relationship for function generation, graphical synthesis of four bar mechanism	Online Mode	Blended Learning (through NPTEL/ Open Online Videos/ MOOCs etc)	CO1	L2	00/00/0000	1	4	4	Balancing of rotating and reciprocating masses			4	https://nptel.ac.in/courses/112104121/
5	30/07/2021	Analytical method for synthesis of four bar mechanism Synthesis	Online Mode	Casestudy based	CO1	L5	00/00/0000	1	2	5	Governor and Flywheel			5	https://nptel.ac.in/courses/112104114/
6	02/08/2021	Problems	Online Mode	Quiz	CO1	L6	00/00/0000	1	3	6	Gyroscope			6	https://nptel.ac.in/courses/112105268/
7	04/08/2021	Classification of gears, terms used for gearing, law of gearing, cycloidal and involute profiles and their comparison	Online Mode	Demonstration (through Models, chart, videos)	CO2	L2	00/00/0000	2	1						

Figure 2.56: Downloaded Sample Session Plan Sheet

- vi. Faculty member has to make required changes in the downloaded template, and after updating the sheet can be imported from the same screen.

Vinay



Menu

Import Session Plan

Upload File Choose File No file chosen Download excel format

Submit Cancel

Note:

- 1)Evaluation method can not be imported through excel.
- 2)Use system generated format only for uploading. Do not rename file and change download location. Strictly import excel file from same location.
- 3)Follow given format while entering the data in excel.
- 4)Kindly do not remove any data field from system generated file.

Figure 2.57: Upload File option through which Excel sheet having proper Session Plan can be browsed and uploaded

Umay



vii. Once the session plan is uploaded, it is visible on screen as shown below:

The screenshot displays a web application interface for managing a session plan. At the top, there is a navigation menu and a user profile for 'Tanvi Gupta'. The main area features a form to add new sessions and a table of existing sessions.

Form Fields:

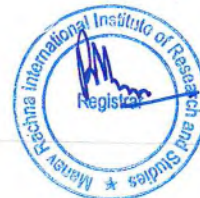
- Type: Syllabus Lec.
- Lec No.: 32
- Proposed date: [Empty]
- Points to cover: Select an option
- Methodology: --Select-- (Dropdown menu with options: Lecture with interaction, Quiz, Group Discussion, Demonstration / Activity)
- Conducted date: [Empty]
- Add button

Table of Existing Sessions:

Sr. No.	Lec No.	Proposed date	Points to cover	Methodology	Conducted date	Action
1-Introduction to Virtualization						
1	1	01/06/2020	Traditional IT Infrastructure REF:R1-CHAPTER 1 PAGE NO:-1-6	Lecture with interaction	01/06/2020	[Link] [Info] [Edit] [Delete]
2	2	02/06/2020	Benefits of Virtualization REF:R1-CHAPTER 1 PAGE NO:-1-9	Lecture with interaction	01/06/2020	[Link] [Info] [Edit] [Delete]
3	3	08/06/2020	Types of Virtualization, REF:R1-CHAPTER 1 PAGE NO:-1-17	Lecture with interaction	02/06/2020	[Link] [Info] [Edit] [Delete]
4	4	09/06/2020	History of Virtualization. REF:R1-CHAPTER 1 PAGE NO:-1-20	Lecture with interaction	02/06/2020	[Link] [Info] [Edit] [Delete]
5	5	15/06/2020	QUIZ BASED ON UNIT 1	QUIZ	08/06/2020	[Link] [Info] [Edit] [Delete]
2-Server & Storage Virtualization						
6	6	16/06/2020	Types of Server Virtualization, REF:R1-CHAPTER 2 PAGE NO:-2-4 R2	Lecture with interaction	08/06/2020	[Link] [Info] [Edit] [Delete]
7	7	22/06/2020	Hypervisors, REF:R1-CHAPTER 2 PAGE NO:-2-12	Lecture with interaction	09/06/2020	[Link] [Info] [Edit] [Delete]
8	8	23/06/2020	Hypervisors, REF:R1-CHAPTER 2 PAGE NO:-2-12	Lecture with interaction	09/06/2020	[Link] [Info] [Edit] [Delete]
9	9	20/06/2020	Anatomy of Server Virtualization REF:R1-CHAPTER 2 PAGE	Lecture with interaction	15/06/2020	[Link] [Info] [Edit] [Delete]

Figure 2.58: Uploaded Session Plan

Vijay



- Another option available for Session Plan creation is manual entry from Front End itself that can be accomplished by selecting Unit, entering required value and clicking on ADD.

Course: Select an option | Practical Batch: --Select Batch--

[Copy Session/Teach Plan](#)

Class: B.Tech- CSE (CSF-IBM) Sem 3 | **Division:** 3CSF | **Batch:** 3CSF2

Credit: 1

Course: data structures & algorithms lab(PR)

Unit: --Select--

Consider attendance weightage:

CO-PO Attainment

CO's Frequency

Add Study Materials

Add Unit

Add Evaluation Methods

Import Excel

Upload Content

Delete All

Type	Turn No.	Proposed date	Points to cover	Methodology	Conducted date
Syllabus Lec.	1		Select an option	--Select-- Lecture with interaction Quiz Group Discussion	Add

Figure 2.59: Adding of Session Plan from Front Window

Umay



STEP 9: MARKING OF ATTENDANCE –

- Faculty members taking classes have to mark the class attendance regularly. This is done by selecting the “ATTENDANCE” icon present on Main window.



Figure 2.604: Attendance Icon present at faculty login

- The slots for attendance marking are visible at their portal with “TAKE” button indicating the required task. And if faculty has marked the attendance, then the button shows “UPDATE” text.

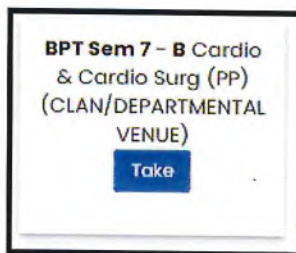


Figure 2.61: “TAKE” means attendance is yet to be marked

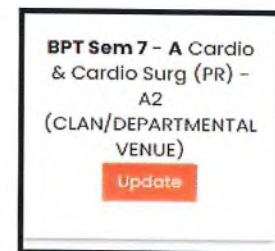


Figure 2.62: “UPDATE” showcasing marked

Vinay



Attendance

Attendance

Search Attendance Date

Date: 20/04/2022

Date: 18/04/2022 To 24/04/2022

Google Meet



Previous Next

	18 Mon	19 Tue	20 Wed	21 Thu	22 Fri	23 Sat	24 Sun
09:50 - 10:40	B.Tech. Automobile Sem 6 - A ARAC (PP) -6AU_2018_ARAC (CUG-07) Update	B.Tech. Automobile Sem 6 - A ARAC (PP) -6AU_2018_ARAC (CUG-07) Update		B.Tech. Automobile Sem 6 - A ARAC (PP) -6AU_2018_ARAC (CUG-07) Update		B.Tech. Automobile Sem 6 - A MDA (PP) - PSC_MDA_2022 (CUG-06) Update	
10:40 - 11:30				B.Tech. Automobile Sem 4 - A RIC-II (TUT) -2020_A (CG-03) Update		B.Tech. Automobile Sem 6 - A MDA (PP) - PSC_MDA_2022 (CUG-06) Update	
11:30 - 12:20						B.Tech. Automobile Sem 6 - A MDA (PP) - PSC_MDA_2022 (CUG-06) Update	

Figure 2.63: Complete view of Attendance Marking screen that is visible to faculty

Shay



Menu ▾  Sunny Bhatia 

Attendance [Main screen](#) • [Mark Attendance](#)

Class Name: B.Tech. Automobile Sem 6 | Section / Division: A | Course Name: Auto Refrigeration and Air Conditioning - PP | Batch: 6AU_2018_ARAC | Attendance Date: 19/04/2022 | Time: 09:50 - 10:40

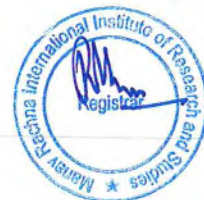
Select If Extra Lecture: | Lecture No w.r.t Syllabus topic list: 38 : Air Conditioning Equipment: Evaporators and expansion device


● Registration Status Approved ● Registration Status Pending
Note: Highlighted students are not Approved and will be marked as Absent by default

Sr.No	Full Name	Registration Status	Roll No/Reg No	Enrollment No/PRN	Admno	Division	Present <input checked="" type="checkbox"/>	Remark(if any)
1	Abdullah Naim	Approved	20/FET/AU(L)/001			A	<input checked="" type="checkbox"/>	None ▾
2	Anubhav Kumar Singh	Approved	20/FET/AU(L)/002			A	<input checked="" type="checkbox"/>	None ▾
3	Shakti Sharma	Approved	20/FET/AU(L)/003			A	<input checked="" type="checkbox"/>	None ▾

Figure 2.64: Attendance Marking Screen

Vijay



Menu ▾  Sunny Bhatia

MRIIRS-Faculty of Engineering and Technology

Attendance [Main screen](#) • [Mark Attendance](#)

Class Name	Section / Division	Course Name	Batch	Attendance Date	Time
B.Tech. Automobile Sem 6	A	Auto Refrigeration and Air Conditioning - PP	BAU_2018_ARAC	19/04/2022	09:50 - 10:40

Select If Extra Lecture:

Lecture No.w.r.t Syllabus topic list

- 38 : Air Conditioning Equipment: Evaporators and expansion devices
- 19 : Cryogenics and cascade refrigeration system
- 20 : Multi-staging and its applications
- 21 : Sessional I
- 22 : Sessional I
- 23 : Sessional I
- 24 : Properties of moist air, specific humidity, dew point temp
- 25 : Psychrometric terms and definitions, Psychrometric chart
- 26 : Air distribution and duct system design
- 27 : Summer, winter and year-round air-conditioning system, comfort chart
- 28 : Revision
- 29 : Sources of heating and cooling
- 30 : Infiltration, ventilation and heat generation inside conditioning space
- 31 : Temp, pressure, humidity sensors
- 32 : Actuators, safety controls
- 33 : Revision
- 34 : Air Conditioning Equipment: Compressors
- 35 : Air Conditioning Equipment: Compressors
- 36 : Air Conditioning Equipment: Condensers
- 37 : Air Conditioning Equipment: Condensers
- 38 : Air Conditioning Equipment: Evaporators and expansion devices

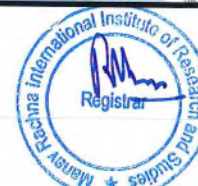
● Registration Status Approved ● Registration Status Pending
Note: Highlighted students are not Approved and will be marked as

Sr.No	Full Name	Reg	Division	Present <input checked="" type="checkbox"/>	Remark(if any)
1	Abdullah Naim		A	<input checked="" type="checkbox"/>	None
2	Anubhav Kumar Singh		A	<input checked="" type="checkbox"/>	None
3	Shakti Sharma		A	<input checked="" type="checkbox"/>	None
4	Aayush Shadija		A	<input checked="" type="checkbox"/>	None
5	M AKHILESH		A	<input type="checkbox"/>	None
6	Abhijith Hari Kumar		A	<input type="checkbox"/>	None
7	Gourang Tomar		A	<input checked="" type="checkbox"/>	None

Approved 1/19/FET/BAU/004

Figure 2.65: Topic Selection from uploaded Session Plan for Attendance Marking

Vinay



- The faculty is given "1 day" time to mark the attendance, after which the attendance gets freeze and proper unfreezing approval is needed from the competent authority for getting the permission to mark attendance after defined period.

ID	Name	Status	Course ID	Grade	Check	Remarks
5	M AKHILESH	Approved	1/19/FET/BAU/002	A	<input checked="" type="checkbox"/>	None
6	Abhijith Hari Kumar	Approved	1/19/FET/BAU/003	A	<input checked="" type="checkbox"/>	None
7	Gaurang Tomar	Approved	1/19/FET/BAU/004	A	<input checked="" type="checkbox"/>	None
8	Nikhil Singh	Approved	1/19/FET/BAU/005	A	<input checked="" type="checkbox"/>	None
9	Raj Dangwal	Approved	1/19/FET/BAU/006	A	<input checked="" type="checkbox"/>	None
10	Ritesh Kumar	Approved	1/19/FET/BAU/007	A	<input checked="" type="checkbox"/>	None
11	Ayush Singh	Approved	1/19/FET/BAU/008	A	<input type="checkbox"/>	None

Total Count: 11 Total Present: 10 Total Absent: 1

Additional Remarks for Attendance:

Please Contact To ERP Administrator To allow for Previous Date Attendance!

Figure 2.66: Screen showing the message of Locked Attendance

NOTE: Here the color code has special meaning i.e. Blue rows means the students are approved by HOD for the course, whereas, PINK highlights the students whose registration approval are still pending.

Vinay



STEP 10: CONTENT UPLOADING –

- The study materials related to courses can be uploaded by faculty members over the portal which in turn is easily accessible to students for reference purpose.
- This is again done under Profile >> Academics >> Session Plan corresponding to the courses present in the allotted list.

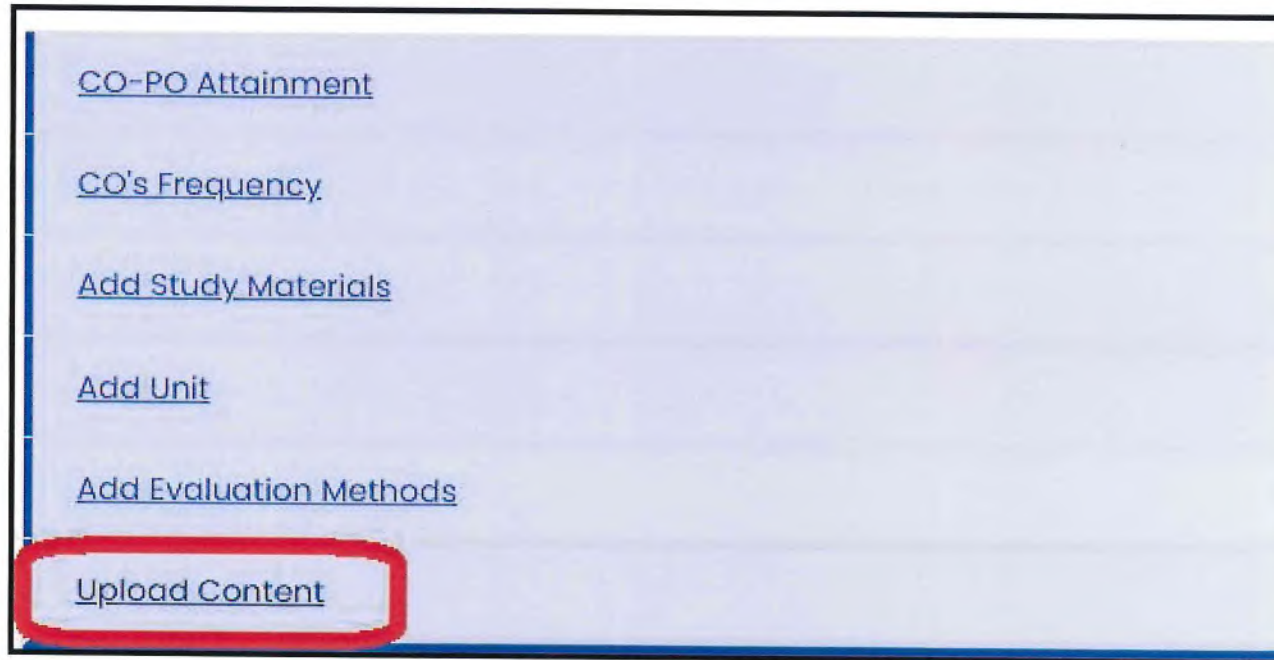


Figure 2.67: "Upload Content" hyperlink for content uploading

- There are two options available for content uploading:
 - i. Real time uploading of file through Repository.
 - ii. My Content that is collection of all files uploaded by the faculty member.
- The uploaded files need to be linked to the subject that is done by selecting the check box and clicking on "Submit" button.

Umay



Upload Content ✕

Upload Files To Repository [Click here](#)

[Link Uploaded Content](#) [My Contents](#)

Select	Category	File Name	File Type	File Size	Academic Year	Uploaded On	Status	
<input type="checkbox"/>	Programming for Problem Solving	1. Unit1_Components_Of_Computer.ppt	application/vnd.ms-p	2.8MB	2019-2020	02/03/2020 13:11:19	Not Used	F 1. d
<input type="checkbox"/>	Programming for Problem Solving	2. Unit1_FlowChart_Typesof Languages.ppt	application/vnd.ms-p	0.4MB	2019-2020	02/03/2020 13:11:34	Not Used	F 1. d
<input type="checkbox"/>								

Submit

Figure 2.68: Uploading of Content

Vinay



- Uploaded contents are visible in the session plan itself where the count mentioned along with the topic indicates the no. of files associated with that topic.

The screenshot shows a web application interface for session planning. At the top, there is a navigation bar with a logo and the user name 'Nidhi Garg'. Below this is a form to add new sessions. The form has the following fields: Type (dropdown menu showing 'Syllabus L'), Lec No. (input field with '44'), Proposed date (input field), Points to cover (dropdown menu showing 'Select an option'), Methodology (dropdown menu showing '--Select--', 'Lecture with interaction', 'Quiz', 'Group Discussion'), and Conducted date (input field). An 'Add' button is located to the right of the Conducted date field.

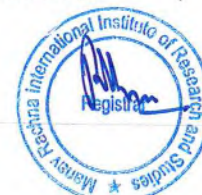
Below the form is a table with the following columns: Sr. No., Lec No., Proposed date, Points to cover, Methodology, Conducted date, and Action. The table is titled '1-Introduction to Data Structures' and contains the following data:

Sr. No.	Lec No.	Proposed date	Points to cover	Methodology	Conducted date	Action
1	1	01/06/2020	Basic Terminologies: Elementary Data Organizations	Online class	01/06/2020	2 (file count icon)
2	2	01/06/2020	Data Structure	Online class	02/06/2020	1 (file count icon)
3	3	02/06/2020	Operations: insertion, deletion, traversal	Online class	08/06/2020	0 (file count icon)
4	4	02/06/2020	Analysis of an Algorithm	Online class	09/06/2020	0 (file count icon)
5	5	08/06/2020	Asymptotic Notations, Time-Space trade off	Online class	15/06/2020	0 (file count icon)
6	6	08/06/2020	Searching: Linear Search and its complexity analysis	Online class	16/06/2020	0 (file count icon)

The 'Action' column contains icons for linking, editing, and deleting, along with a file count icon. A red box highlights the file count icons for the first two rows, which are 2 and 1 respectively. A tooltip 'View Content Topic wise' is visible over the second row's icon.

Figure 2.69: Count of file shown under attachment column for the listed topic

Umay



STEP 11: ASSIGNING ASSIGNMENTS –

- Faculty can upload the assignment sheet on EMS portal and assign them to students as per requirement along with the submission deadline.
- Students have to individually upload the solved assignment on EMS through their portal. Another student cannot view the assignment of other student.
- Once the Due Date of submitting assignment is over, students cannot upload the solutions on EMS until and unless faculty extends the submission date.
- Steps for assigning assignment are:
 - i. Login into portal, and Select “Assignment” option.

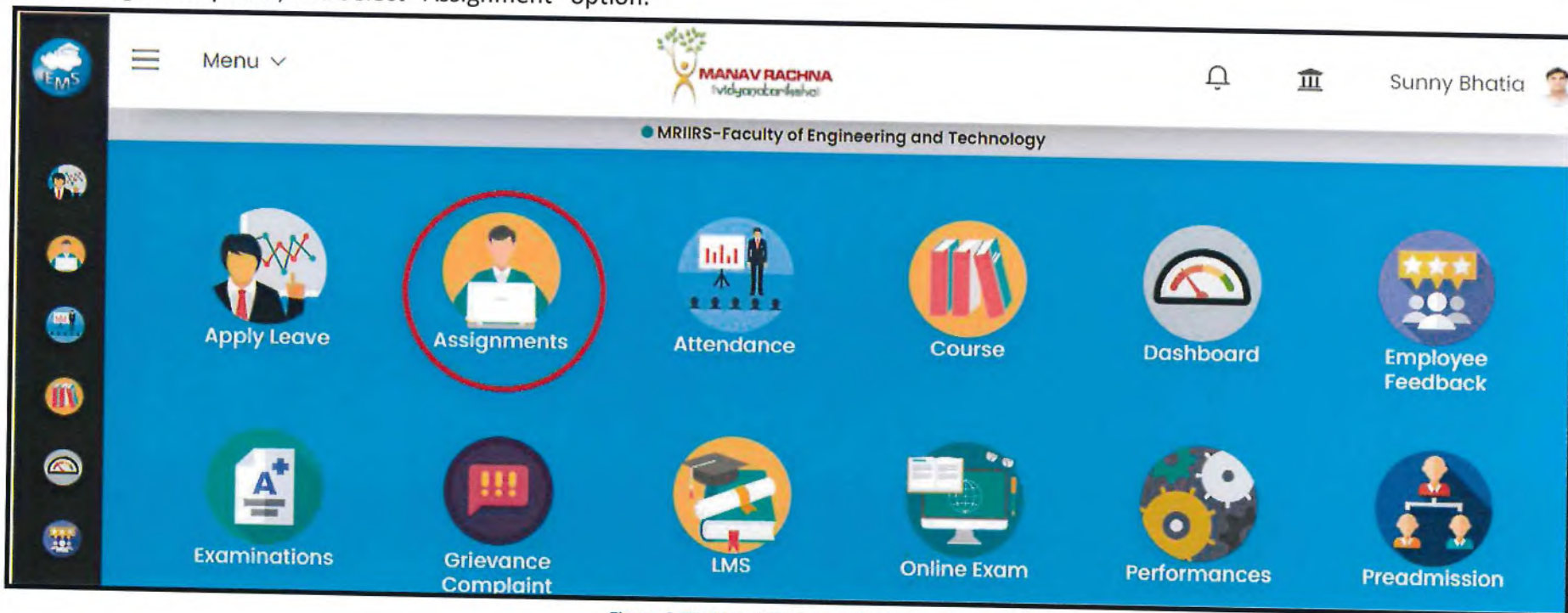


Figure 2.70: Main Window >> Assignment

Vijay



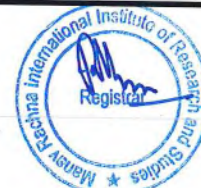
- ii. The lists of allotted courses are displayed for assigning of assignments. Click on “+” icon present in the subject row for “Creating New Assignment”.

The screenshot shows a web application interface for managing assignments. At the top, there is a navigation bar with a 'Menu' dropdown, the logo for 'MANAV RACHNA', and the user name 'Sunny Bhatia'. Below this is a header for 'Assignment' with a search bar and another 'Menu' button. The main content area is titled 'Assignments' and contains a section for 'Assignments/Notes'. This section has two dropdown menus: 'Select Academic Year' (set to '2021-2022') and 'Select Semester' (set to 'Sem I'). Below these are 'Search' and 'Back' buttons. The 'Assignments list' section displays a table with the following data:

Course Details										
Sr.No	Course Code	Course Title	Course Credit	Course Type	Branch	Class	Division	Batch	Create Assignment	View Assignment
1	BAU-DS-641	Auto Refrigeration and Air Conditioning	3.00	PP	MRIIRS-Faculty of Engineering and Technology	B.Tech. Automobile Sem 6	A	6AU_2018_ARAC	+	(5)
2	RIC (E)-400	Research and Innovation Catalyst-II	0.50	TUT	MRIIRS-Faculty of Engineering and Technology	B.Tech. Automobile Sem 4	A	2020_A	+	-

Figure 2.71: Course List for Assignment

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iii. This opens the window displaying student list. Select students from the list and click on "Assign".

The screenshot shows a 'Create Assignment' window with a table of students. All students are selected with checkboxes. The table has the following data:

Check All	Sr.No	Roll No/Reg No	Full Name
<input checked="" type="checkbox"/>	1	20/FET/AU(L)/001	Abdullah Naim
<input checked="" type="checkbox"/>	2	20/FET/AU(L)/002	Anubhav Kumar Singh
<input checked="" type="checkbox"/>	3	20/FET/AU(L)/003	Shakti Sharma
<input checked="" type="checkbox"/>	4	1/19/FET/BAU/001	Aayush Shadja
<input checked="" type="checkbox"/>	5	1/19/FET/BAU/002	M AKHILESH
<input checked="" type="checkbox"/>	6	1/19/FET/BAU/003	Abhijith Hari Kumar
<input checked="" type="checkbox"/>	7	1/19/FET/BAU/004	Gaurang Tomar
<input checked="" type="checkbox"/>	8	1/19/FET/BAU/005	Nikhil Singh

An 'Assign' button is located at the bottom right of the window.

Figure 2.72: Student List for assigning the created Assignment

Vinay



iv. The assignment can be created filling in or selecting the values of all (mandatory) fields & finally selecting “Assign” button.

The screenshot shows a web interface for creating assignments. At the top, there is a navigation bar with a menu icon, the MRIRS logo, and the user's name 'Sunny Bhatia'. Below this is a breadcrumb trail: 'Assignment > Create Assignments'. The main content area is titled 'Create Assignments/Notes' and contains the following form fields:

- Posted Type:** A dropdown menu with 'Assignment' selected.
- Assignment Name *:** A text input field.
- Assign Date *:** A date selection field.
- Submission/Due Date *:** A date selection field.
- Time:** A text input field with '3:45 PM' entered.
- Upload Assignment Document:** A file upload area with a 'Choose File' button and 'No file chosen' text.
- Upload Reference Document:** A file upload area with a 'Choose File' button and 'No file chosen' text.
- Assignment Type *:** A dropdown menu with '-Select-' selected.
- Description *:** A text area with a placeholder '(Write a detailed description of the assignment)'. A 'Show Students' button with a notification icon is located to the right of this field.
- References:** A text input field.

At the bottom of the form, there are two buttons: 'Assign' (highlighted in blue) and 'Cancel'.

Figure 2.73: Creating New Assignment where Assignment Worksheet is uploaded & Due Date is set

Vinay



- v. The count of already assigned/create Assignments can be viewed under “View Assignment” column.

Assignments

Assignments/Notes

Select Academic Year: 2021-2022

Select Semester: Sem I

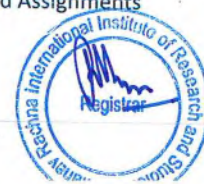
Search Back

Assignments list

Sr.No	Course Details					Class	Division	Batch	Create Assignment	View Assignment
	Course Code	Course Title	Course Credit	Course Type	Branch					
1	BAU-DS-641	Auto Refrigeration and Air Conditioning	3.00	PP	MRIIRS-Faculty of Engineering and Technology	B.Tech. Automobile Sem 6	A	6AU_2018_ARAC	+	🔗 (5)
2	RIC (E)-400	Research and Innovation Catalyst-II	0.50	TUT	MRIIRS-Faculty of Engineering and Technology	B.Tech. Automobile Sem 4	A	2020_A	+	

Figure 2.74: View Assignment Column displayed assigned Assignments

Umay
7



View Assignment

Course Details

Sr.No11	Course Code	Course Title	Course Credit	Course Type	Class	Division	Batch
1	BAU-DS-641	Auto Refrigeration and Air Conditioning	3.00	PP	B.Tech. Automobilo Som 6	A	6AU_2018_ARAC

Check here to select all evaluation types to print the report.

Check to print report

Student Count - 11 Submission/Due Date - 28/02/2022

Evaluation Assignment

Unit 1

Posted Date	Assign Date	Created Type	Max Marks
16/02/2022	16/02/2022	Assignments	20

→ Enter View Edit Delete

Check to print report

Student Count - 10 Submission/Due Date - 16/03/2022

Evaluation Assignment

Unit 2

Posted Date	Assign Date	Created Type	Max Marks
16/02/2022	16/02/2022	Assignments	20

→ Enter View Edit Delete

Check to print report

Student Count - 10 Submission/Due Date - 16/03/2022

Evaluation Assignment

Unit 3

Posted Date	Assign Date	Created Type	Max Marks
16/02/2022	16/02/2022	Assignments	20

→ Enter View Edit Delete

Check to print report

Student Count - 10 Submission/Due Date - 31/03/2022

Evaluation Assignment

Assignment 4

Posted Date	Assign Date	Created Type	Max Marks
16/02/2022	16/02/2022	Assignments	20

→ Enter View Edit Delete

Check to print report

Student Count - 10 Submission/Due Date - 19/04/2022

Evaluation Assignment

Assignment 5

Posted Date	Assign Date	Created Type	Max Marks
16/02/2022	16/02/2022	Assignments	20

→ Enter View Edit Delete

Figure 2.755: Details of Assigned Assignments

Vinay



- vi. To view the list of students who have submitted/not submitted the assignment, "View" button available under particular assignment can be selected. Here, the left side that is highlighted in GREEN color shows the list of students who have submitted the assignment and right side list down the defaulter students (highlighted in PINK Color) who have not submitted the assignment at the time of viewing the status.

The screenshot displays a web application interface for an LMS. At the top, there is a navigation bar with a menu icon, the text 'Menu', and a user profile for 'Sunny Bhatia'. Below this, the page title is 'Assignment' with a breadcrumb 'Assignment Report'. A sidebar on the left contains various icons. The main content area is divided into two sections: 'Assignments/Notes' and two student lists.

Course Details Table:

Assignments Name	Created By	Share With	Course Code	Course Title	Course Credit	Posted Date	Assign Date	Submission Date	Max Marks	Attached File	Reference File
Unit 1	Sunny Bhatia (5000183)	-	BAU-DS-641	Auto Refrigeration and Air Conditioning	3.00	16/02/2022	16/02/2022	28/02/2022	0		

Assignments Submitted Students List (Green Panel):

Show 10 entries Search:

Sr.No	RollNo/Reg No	Student Full Name	Student Attached File	Submitted Date	Remarks
1	1/19/FET/BAU/001	Aayush Shadija		26/02/2022	
2	1/19/FET/BAU/002	M AKHILESH		26/02/2022	
3	1/19/FET/BAU/003	Abhijith Hari Kumar		26/02/2022	
4	1/19/FET/BAU/004	Gaurang Tamar		26/02/2022	
5	1/19/FET/BAU/005	Nikhil Singh		26/02/2022	
6	1/19/FET/BAU/006	Raj Dangwal		26/02/2022	

Assignments Not Submitted Students List (Pink Panel):

Show 10 entries Search:

Sr.No	Roll No/Reg No	Student Full Name	Allow manually
1	1/19/FET/BAU/007	Ritesh Kumar	<input type="checkbox"/>
2	1/19/FET/BAU/008	Ayush Singh	<input type="checkbox"/>

Showing 1 to 2 of 2 entries Previous 1 Next

Submit Cancel

Figure 2.76: List of Students (Left Side showing students who have submitted)

Vinay



- vii. The evaluation of assignments can be done by faculty through "GO" button. In case, the students have submitted assignments manually to faculty, then, faculty can entertain their submission by ticking the Check boxes corresponding to student name present in Right side list and clicking on "Submit" button.

Assignments Not Submitted Students List

Show 10 entries Search:

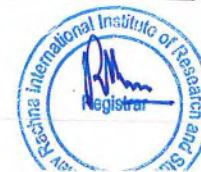
Sr.No ↑	Roll No/Reg No	Student Full Name	Allow manually
1	1/19/FET/BAU/007	Ritesh Kumar	<input type="checkbox"/>
2	1/19/FET/BAU/008	Ayush Singh	<input type="checkbox"/>

Showing 1 to 2 of 2 entries Previous 1 Next

Submit Cancel

Figure 2.77: Manual Submission facility

Vinay



Menu Sunny Bhatia

Assignments Details

		Course Details									
Assignments Name	Created By	Share With	Course Code	Course Title	Course Credit	Course Lec Type	Posted Date	Assign Date	Submission Date	Attached File	Reference File
Unit 1	Sunny Bhatia (5000183)	-	BAU-DS-641	Auto Refrigeration and Air Conditioning	3.00	PP	16/02/2022	16/02/2022	28/02/2022	0	

Submitted Assignments Student List

Show 10 entries

PDF CSV Print Copy Excel

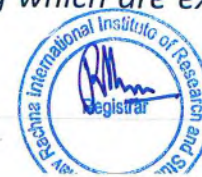
Search:

Check	Sr No.	Roll No.	Name	Assignments	Submitted Date	Remark	Marks	Approvement	Extend Date (if any)
<input checked="" type="checkbox"/>	1	20/FET/AU(L)/001	Naim Abdullah		26/02/2022	All answers are correct and done neatly	10	Grant	dd-mm-yyyy
<input checked="" type="checkbox"/>	2	20/FET/AU(L)/002	Singh Anubhav Kumar		26/02/2022	Mistakes in a few questions	8	Grant	dd-mm-yyyy
<input checked="" type="checkbox"/>	3	20/FET/AU(L)/003	Sharma Shakti		26/02/2022	One question not attempted	9	Grant	dd-mm-yyyy
<input checked="" type="checkbox"/>	4	1/19/FET/BAU/001	Shadija Aayush		26/02/2022	All answers are correct and done neatly	10	Grant	dd-mm-yyyy

Figure 2.78: Evaluation of submitted assignment with Marks and corresponding Remarks

NOTE - There are multiple reports that summarizes all academics related working which are explained under "Reports" Section.

Vinay



3. EXAMINATION MODULE

3.1 Introduction:

- Examination plays a vital role in academics. Therefore, automated online EMS system at MRIIRS has also integrated this part into the system.
- There are two parts in which the evaluation of any course is done:
 - Continuous Internal Assessment (CIA)
 - End Semester Examination
- The Continuous Internal Assessment at MRIIRS includes parameters like Sessional Exams, Attendance marks, Assignments and Class Performance that are compiled together to form Continuous Internal Assessment of the course. There is decided weight-age for each parameter to form uniformity.
- The End Semester Examinations that are conducted at the end of the semester.
- Following are the tasks that are performed to configure the examination module on EMS:

3.2 QUESTION BANK CREATION:

- The system has the facility of creating the repository of questions that can further be used to create the Sessional Exam question paper.
- The “Question Bank” option is available on Main window.

Vinay



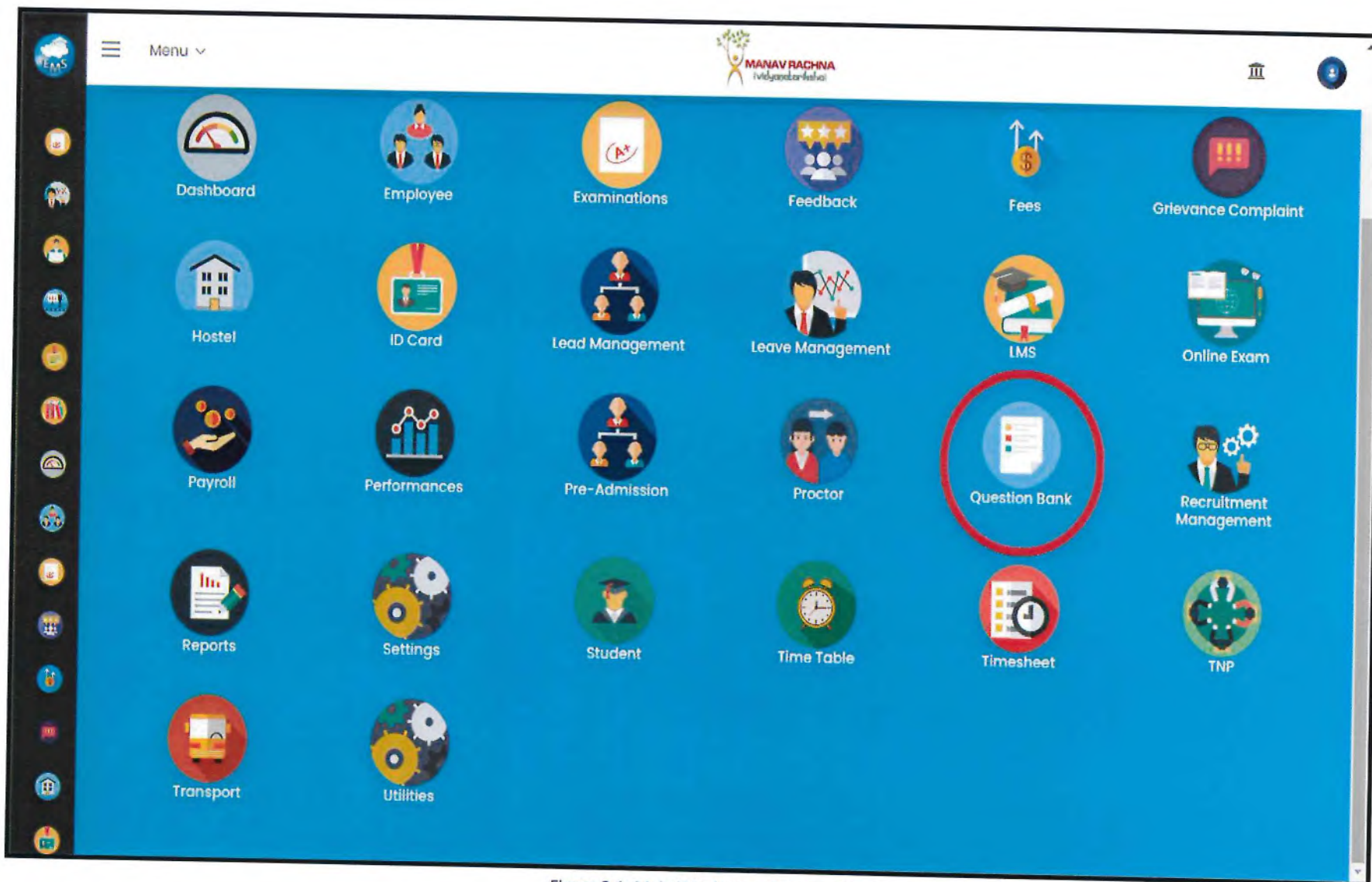


Figure 3.1: Main Window >> Question Bank

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- The questions can be added for the required Courses by selecting “Proceed” corresponding to the course, selecting “Exam Type” as “Main Exam”, “Question Type” as “Descriptive” and then clicking on “CREATE QUESTIONS”.

The screenshot shows the 'Question Bank' interface. At the top, there are filters for 'Select Academic Year' (2021-2022), 'Select Branches' (MRIIRS-Faculty of Engineering and Technology), and 'Select Semester'. Below these is a search bar. The main content is a table with the following columns: Sr.No, Course Code, Course Title, Course Credit, Course Type, Class, Division, Batch, Create Questions, Copy Structure, and Upload Question Paper Image. Three rows are visible, each with a 'Proceed' link in the 'Create Questions' column, which are highlighted by a red rectangular box.

Sr.No	Course Code	Course Title	Course Credit	Course Type	Class	Division	Batch	Create Questions	Copy Structure	Upload Question Paper Image
1	BAU-DS-641	Auto Refrigeration and Air Conditioning	3.00	PP	B.Tech. Automobile Sem 6	A	6AU_2018_ARAC	Proceed	Copy	Upload
2	RIC (E)-400	Research and Innovation Catalyst-II	0.50	TUT	B.Tech. Automobile Sem 4	A	2020_A	Proceed	Copy	Upload
3	BAU-DS-634	Mobility Design & Aesthetics	3.00	PP	B.Tech. Automobile Sem 6	A	PSC_MDA_2022	Proceed	Copy	Upload

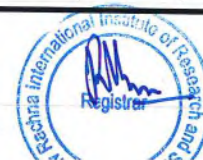
Figure 3.2 (a): Creating Questions under the Course

This screenshot shows a detailed view of the 'Course Details' for 'BAU-DS-641 Auto Refrigeration and Air Conditioning'. The table includes columns for Course Code, Course Title, Course Credit, Course Type, Class, Division, Batch, Exam Type, Question Type, Options, and GO. The 'Exam Type' is set to 'Main Exam' and the 'Question Type' is 'Descriptiv'. A red box highlights the 'CREATE QUESTIONS' button, which is located next to the 'GO' column.

Course Code	Course Title	Course Credit	Course Type	Class	Division	Batch	Exam Type	Question Type	Options	GO	GO
BAU-DS-641	Auto Refrigeration and Air Conditioning	3.00	PP	B.Tech. Automobile Sem 6	A	6AU_2018_ARAC	Main Exam	Descriptiv	-	CREATE QUESTIONS	Create Question Paper

Figure 3.2 (b): Adding Questions

Vinay



Question Bank [Add Question](#)

[Back](#)

Sr.No	Course Details				Class	Division	Batch
	Course Code	Course Title	Course Credit	Course Type			
1	BAU-DS-641	Auto Refrigeration and Air Conditioning	3.00	PP	B.Tech. Automobile Sem 6	A	6AU_2018_ARAC

Source | |

Styles - | Format - | Font - | Size - |

[Get Images](#) [Submit](#)

Figure 3.3: Typing the Question in given text area

- The entered questions are visible under “Created Question List”, which later on can be used to create “Question Paper” and all created question papers can be viewed under “Created Question Paper List”.

Vinay



Menu Question Bank >> Add a new Question CANCEL

Course Details				Class	Division	Batch	Exam Type	Question Type	Options	GO
Course Code	Course Title	Course Credit	Course Type				Main Exam	Descriptiv		GO
CREATE QUESTIONS Create Question Paper										

Created Question Paper List [View/Hide](#)

Sr.No	Question Paper Name	Class	Batch	Division	View/Print	Edit	Delete
1	Sessional 1 java PSC	B.Tech ECE Sem 7	PSC JAVA	7ECA			

Created Questions List [View/Hide](#)

Sr.No	Question Type	Questions	Options/Answer	Edit	Delete
1	Descriptive	Differentiate the principles of Encapsulation and Abstraction			
2	Descriptive	Why is 'main' method declared as 'public' and 'static' in the statement "public static void main(String args[])";			
3	Descriptive	List the usage of different access specifiers used in java.			
4	Descriptive	Retrieve the importance of JVM in java.			

Figure 3.4: Question Bank

Vinay



- Grievance Complaint
- Hostel
- ID Card
- Lead Management
- Leave Management
- LMS
- Online Exam
- Payroll
- Performances
- Pre-Admission
- Proctor
- Question Bank
- Recruitment Management
- Reports
- Settings
- Student
- Time Table
- Timesheet
- TNP
- Transport
- Utilities

MANDATORY OR OPTIONAL

Created Questions List [View/Hide](#)

Sr.No	Question Type	Questions	Max. Marks	Question No (eg 1A,2A)	Difficulty Level	Section	Mapping level	CO Mapping level	Add
1	Descriptive	Differentiate the principles of Encapsulation and Abstraction	2	1a	0	▼	▼	CO: ▲ CO: ▲ CO: ▲ CO: ▼	Add
2	Descriptive	Why is 'main' method declared as 'public' and 'static' in the statement "public static void main(String args[]);";	2	1b	0	▼	▼	CO: ▲ CO: ▲ CO: ▲ CO: ▼	Add
3	Descriptive	List the usage of different access specifiers used in java.	2	1c	0	▼	▼	CO: ▲ CO: ▲ CO: ▲ CO: ▼	Add
4	Descriptive	Retrieve the importance of JVM in java.	2	1d	0	▼	▼	CO: ▲ CO: ▲ CO: ▲ CO: ▼	Add
5	Descriptive	Compare static and instance variables in java.	2	1e	0	▼	▼	CO: ▲ CO: ▲ CO: ▲ CO: ▼	Add

Figure 3.5: Mapping of Created Question, Assigning Question No., Mapping Level and CO Mapping

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4. Admit Card (Hall Ticket) Generation

- Generation of admit card (hall ticket) for various exams can be done with help of the "Examination" option available on main screen.

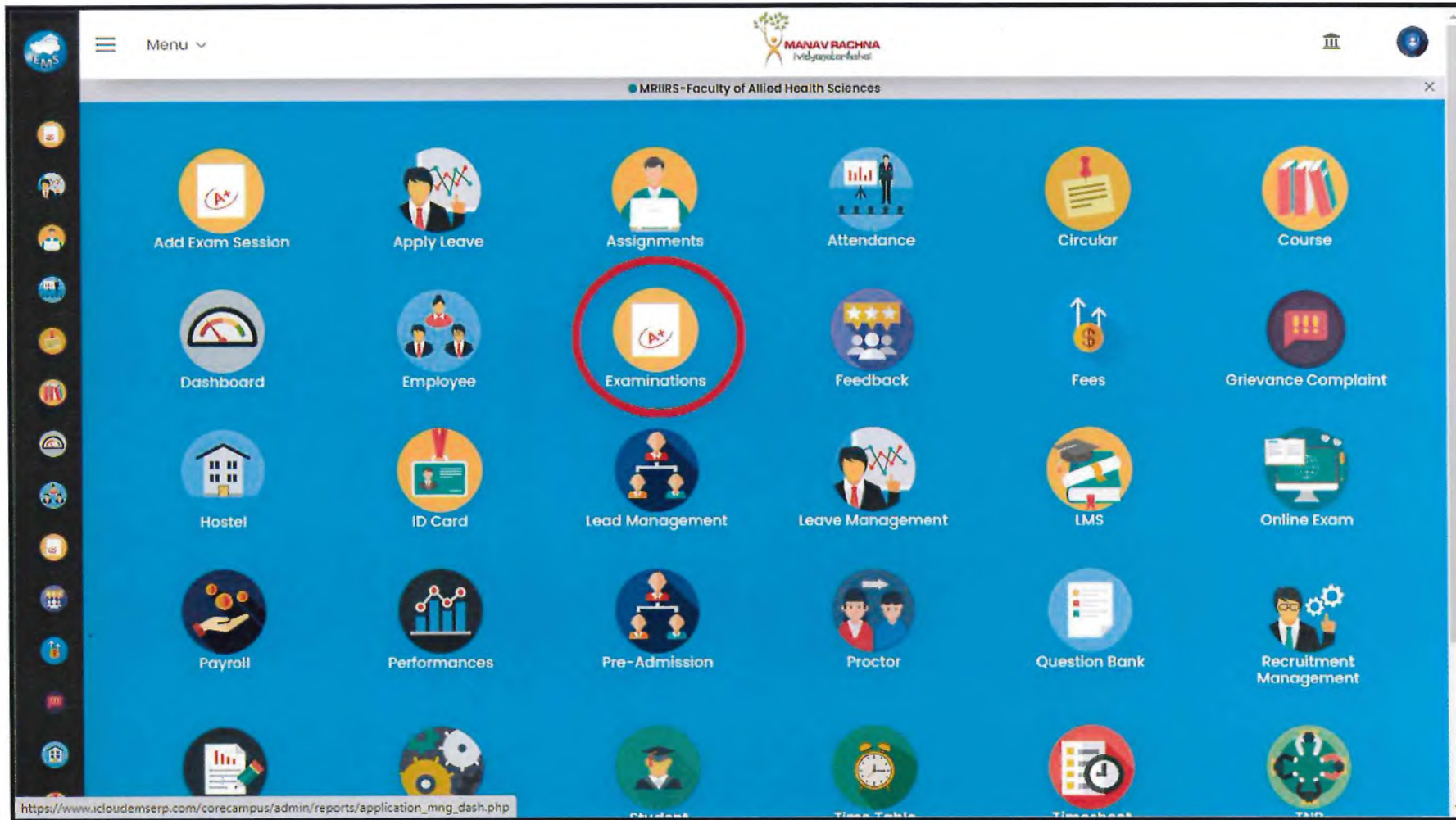


Figure 4.1: Main Window >> Examination

Vijay



- There are sub-tasks available under this setting that helps user to configure the system in a particular sequence without any problem.

These sub-tasks are:

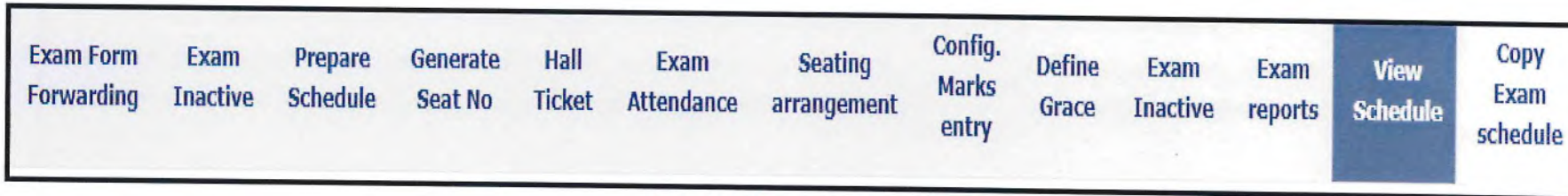


Figure 4.2: Examination Menu Ribbon

- Prepare Schedule – The first step where the EMS coordinators do mapping of required courses under various assessment parameters, entering the values of Maximum Marks and Passing percentage values.
- View Schedule – The prepared schedule can be seen through this option and if required necessary updating can be done through EDIT option available here.
- Hall Ticket – For the End Semester Examination, the Admit cards for Examination Hall are generated using this option.
- Copy Exam Schedule – Since the schedule is class depended, the schedule of one class (section) can be copied to another section of same semester through copy exam schedule.
- Seating Arrangement – The system also has the provision through which exam seating plan can be prepared and printed.
- Exam Forwarding Memo – The required configuration required for various types of exam like Regular exam, Reappear examination etc can be done with help of Exam forwarding Memo

Vinay



Exam Form Forwarding

Expand All

Branch: MRIIRS-Faculty of Engineering | Year: 2019-2020 | Main Exam: EXTERNAL EXAM | Sub Exam: 2019-20FET-Reappear-2020

Course Status: Backlog | Exam Type: Exam Form | Program: B.Tech - Computer Science & | Class: -All-

Regular :- Backlog :-

Search by any

Sr.No	Student Name	Roll no.	Fees	Course Registration/Eligibility Details					Bulk Status		
				Att.	Feedback	Internal	Payment	Code		Title	Type/Credit
1	Rishav Kumar	1/18/FET/BCS/032	Academic Fee: 123500/ 123500 Hostel Fee: 0/0 Transport Fee:	0	No	-	<input type="button" value="Pi"/>	BSC-MA-101	mathematics-i	/ 4	<input type="button" value="v"/>
				0	No	-	<input type="button" value="Pi"/>	BSC-CH-101	chemistry-i	/ 4	<input type="button" value="v"/>

Figure 4.3: Exam Forwarding Memo

Vinay



Menu

Preparing Examination Schedule

Exam Type : INTERNAL EXAM(Max Marks- Undefined) Id/Name for this exam : SESSIONAL I Class : B.Tech CSE Sem 3 (3CSA)

Exam Consider In University Result Unit Test Incharge Due Date :

Fee Amount Set For this Exam : Academic Session : June
Exam Section : Odd

Exam Name:

Course Code(Type)	Course	Max Marks	Per(%)	Regular Fee	Backlog Fee	Improvement Fee	Date	Time	
<input type="checkbox"/>	BCS-DS-301(TUT)	data structures & algorithms	<input type="text"/>	<input type="text"/>	700	700	700	02/08/2020 	AM <input type="text"/>
<input type="checkbox"/>	BCS-DS-302(PP)	object oriented programming (Non Mapped)	<input type="text"/>	<input type="text"/>	700	700	700	02/08/2020 	AM <input type="text"/>
<input type="checkbox"/>	BCS-DS-301(PP)	data structures & algorithms (Non Mapped)	<input type="text"/>	<input type="text"/>	700	700	700	02/08/2020 	AM <input type="text"/>
<input type="checkbox"/>	BEC-DS-322(PP)	digital electronics and circuits (Non Mapped)	<input type="text"/>	<input type="text"/>	700	700	700	02/08/2020 	AM <input type="text"/>
<input type="checkbox"/>	BHM-001(PP)	cyber law & ethics (Non Mapped)	<input type="text"/>	<input type="text"/>	700	700	700	02/08/2020 	AM <input type="text"/>
<input type="checkbox"/>	BCS-DS-351(PR)	data structures & algorithms lab (Non Mapped)	<input type="text"/>	<input type="text"/>	700	700	700	02/08/2020 	AM <input type="text"/>

Figure 4.4: Initial Window of Prepare Schedule

Vinay



Preparing Examination Schedule

Exam Type : INTERNAL EXAM(Max Marks- Undefined) Id/Name for this exam : SESSIONAL I Class : B.Tech CSE Sem 3 (3CSA)

Exam Consider In University Result Unit Test Incharge Due Date :

Fee Amount Set For this Exam : Academic Session : June Exam Section : Odd

Exam Name:

Course Code(Type)	Course	Max Marks	Per(%)	Regular Fee	Backlog Fee	Improvement Fee	Date	Time	
<input type="checkbox"/>	BCS-DS-301(TUT)	data structures & algorithms	<input type="text"/>	<input type="text"/>	700	700	700	02/08/2020	AM <input type="text"/>
<input checked="" type="checkbox"/>	BCS-DS-302(PP)	object oriented programming (Non Mapped)	30	40	700	700	700	02/08/2020	AM <input type="text"/>

Figure 4.5: Mapping of Course with Internal Parameter

Menu

Jan - May - Even - SESSIONAL I B.Tech. CSE Sem 4-4CSA

Course Code	Course	Course Type	Date	Time	Check Eligibility
BCS-DS-401	Discrete Mathematics	PP	2020-04-09	-AM To -AM	Mark Eligible
BCS-DS-402	Computer Organization & Architecture	PP	2020-04-09	-AM To -AM	Mark Eligible
BCS-DS-403	Operating Systems	PP	2020-04-09	-AM To -AM	Mark Eligible
BCS-DS-404	Database Management Systems	PP	2020-04-09	-AM To -AM	Mark Eligible
BCS-DS-405	Computer Networks	PP	2020-04-09	-AM To -AM	Mark Eligible
BHM-MC-006	Quantitative Aptitude and Personality Development-I	PR	2020-04-09	-AM To -AM	Mark Eligible
BCS-DS-421	Software Engineering	PP	2020-05-11	-AM To -AM	Mark Eligible

Figure 4.6: View Schedule Screen

Vinay



<input type="checkbox"/>	BCS-DS-403(TUT)	Operating Systems			700	700	700	02/08/2020
<input type="checkbox"/>	BCS-DS-404(TUT)	Database Management Systems			700	700	700	02/08/2020
<input checked="" type="checkbox"/>	BHM-MC-006(PR)	Quantitative Aptitude and Personality Development-I	30.00	40.00	2500	2500	700	09/04/2020
<input type="checkbox"/>	BCH-MC-002(TUT)	EVS			700	700	700	02/08/2020
<input checked="" type="checkbox"/>	BCS-DS-401(PP)	Discrete Mathematics	30.00	40.00	2500	2500	700	09/04/2020
<input checked="" type="checkbox"/>	BCS-DS-402(PP)	Computer Organization & Architecture	30.00	40.00	2500	2500	700	09/04/2020
<input checked="" type="checkbox"/>	BCS-DS-403(PP)	Operating Systems	30.00	40.00	2500	2500	700	09/04/2020
<input checked="" type="checkbox"/>	BCS-DS-404(PP)	Database Management Systems	30.00	40.00	2500	2500	700	09/04/2020
<input checked="" type="checkbox"/>	BCS-DS-405(PP)	Computer Networks	30.00	40.00	2500	2500	700	09/04/2020
<input type="checkbox"/>	BCS-DS-474(PR)	Java Programming			700	700	700	02/08/2020
	BCS-DS-							

Figure 4.7: Editing window under View Schedule

Umay



<ul style="list-style-type: none"> Menu Add Exam Session Apply Leave Assignments Attendance Circular Course Dashboard Employee Examinations Feedback 	View Schedule	Prepare Schedule	Generate Seat No	Hall Ticket	Exam Attendance	Seating arrangement	Config. Marks entry	Define Grace	Exam Inactive	Exam reports	Copy Exam schedule	Exam Pooling	
	Hall Ticket												
	Academic Year :		2019-2020										
	Select the Exam Type		EXTERNAL EXAM										
	Select the Class/Classes :		B.Tech CSE Sem 3		3CSA								
	Select the Academic Session		June - Dec										
	Select the Exam Session		Odd										
	<input type="button" value="Submit"/>												

Figure 4.8: Hall Ticket

Umay



Menu		Select Student							
<ul style="list-style-type: none"> Add Exam Session Apply Leave Assignments Attendance Circular Course Dashboard Employee Examinations Feedback Fees Grievance Complaint Hostel ID Card Lead Management Leave Management LMS Online Exam Payroll Performances Pre-Admission Proctor 		Show <input type="text" value="35"/> entries <input type="text" value="Search:"/>	Select the students for hall ticket generation						
Check All	Sr.No.	Admno	Last Name	First Name	Gender	Roll No.			
<input type="checkbox"/>	1	11901005L54110		Rutuparna	Male	1/19/FET/BCS/018			
<input type="checkbox"/>	2	11901005N54134	Mangla	Yash	Male	1/19/FET/BCS/013			
<input type="checkbox"/>	3	11901005N5439	Jha	Ankit	Male	1/19/FET/BCS/002			
<input type="checkbox"/>	4	11901005N141	Kashyap	Nishi	Female	1/19/FET/BCS/028			
<input type="checkbox"/>	5	11901005N54111	CHAMOLI	NIKITA	Female	1/19/FET/BCS/004			
<input type="checkbox"/>	6	11901005N54114		Robin	Male	1/19/FET/BCS/009			
<input type="checkbox"/>	7	11901005N129	Rawat	Rahul	Male	1/19/FET/BCS/024			
<input type="checkbox"/>	8	11901005N5457	Verma	Sahil	Male	1/19/FET/BCS/015			
<input type="checkbox"/>	9	11901005N133	Thakur	Dhruv	Male	1/19/FET/BCS/021			
<input type="checkbox"/>	10	11901005N54118	Bhatia	Sanket	Male	1/19/FET/BCS/034			
<input type="checkbox"/>	11	11901005N131	NAIR	ADITYA	Male	1/19/FET/BCS/019			
<input type="checkbox"/>	12	11901005N143	Kapoor	Siddharth	Male	1/19/FET/BCS/025			
<input type="checkbox"/>	13	11901005N5484	SHARMA	ANUBHAV	Male	1/19/FET/BCS/001			
<input type="checkbox"/>	14	11901005N146	Kumar	Gaurav	Male	1/19/FET/BCS/027			
<input type="checkbox"/>	15	11901005N54139	Sharma	Varun	Male	1/19/FET/BCS/017			
<input type="checkbox"/>	16	11901005N150	Mani	Aadarsh	Male	1/19/FET/BCS/033			
<input type="checkbox"/>	17	11901005N5497	CHAUHAN	RIYA	Female	1/19/FET/BCS/006			
<input type="checkbox"/>	18	11901005N54106	Batra	Neha	Female	1/19/FET/BCS/022			
<input type="checkbox"/>	19	11901005N54108	Mittal	Anmol	Male	1/19/FET/BCS/016			
<input type="checkbox"/>	20	11901005N54100	Tyagi	Virat	Male	1/19/FET/BCS/007			

Figure 4.9: List of students for Hall Ticket

Vinay





REGISTRATION NO	YEAR OF REGISTRATION	PROGRAM CODE	PROGRAM NAME	
18/FMS/0083	2018	221	MASTER OF BUSINESS ADMINISTRATION (DUAL SPECIALISATION)	
FACULTY NAME	MRIIRS-FACULTY OF MANAGEMENT STUDIES			
NAME OF STUDENT	PURNIMA NAGAL			
CLASS ROLL NUMBER	18/FMS/MBA/065	CLASS	MBA(DUAL SPL) SEM-III	
FATHER NAME	TEJBIR SINGH			
DATE OF BIRTH	14/11/1997	GENDER	FEMALE	
EXAM NAME	END TERM EXAMINATION DECEMBER, 2019			STUDENT SIGNATURE

SUBJECT DETAILS

SUBJECT CODE	SUBJECT TITLE	DATE	TIME	SUPERVISOR SIGN
MBA-GE-02	PROFESSIONAL COMPETENCY-III: EMPLOYABILITY SKILLS	11/12/2019	01:00-PM TO 04:00-PM	
MBA-MK-3003	CONSUMER BEHAVIOR	13/12/2019	01:00-PM TO 04:00-PM	
MBA-MK-3002	INTEGRATED MARKETING AND COMMUNICATION	17/12/2019	01:00-PM TO 04:00-PM	
MBA-HROB-3004	COMPENSATION AND BENEFITS MANAGEMENT	18/12/2019	01:00-PM TO 04:00-PM	
MBA-HROB-3005	ORGANIZATION CHANGE AND DEVELOPMENT	23/12/2019	01:00-PM TO 04:00-PM	
MBA-MK-3001	PRODUCT AND BRAND MANAGEMENT	24/12/2019	01:00-PM TO 04:00-PM	
MBA-HROB-3001	PERFORMANCE MANAGEMENT IN ORGANIZATIONS	27/12/2019	01:00-PM TO 04:00-PM	

[CONTROLLER OF EXAMINATIONS]

Figure 4.10: Sample Hall Ticket

Umay



Examinations

[Prepare Schedule](#) [View Schedule](#) [Examination Attendance](#) [Copy Exam Schedule](#) [Fee Collection for Exam](#) [Generate Seat No](#) [Hall Ticket](#) [Reports](#) [Exam Inactive](#)

Note : Please select class and division for which exam schedule is already prepared and if you want to copy that divisions schedule to all division's for that particular class then click on submit button,then automatically schedule copied to all divisions for that particular class

Copy Exam Schedule(To all Division)

Academic Year : 2020-2021 ▼

Select the Exam Type : University Exam ▼

Select Class and division for which exam schedule is already Prepared : ▼

Select the Academic Session : ▼

Select the Exam Session : ▼

Select the Exam ID/Name : ▼

Submit

Figure 4.11: Copy Exam Schedule

Umay



5. REAPPEAR FORM APPLICATION –

- The declared past external result of students can be imported into the system and the subjects in which students were having reappears or were absent can apply for appearing again.

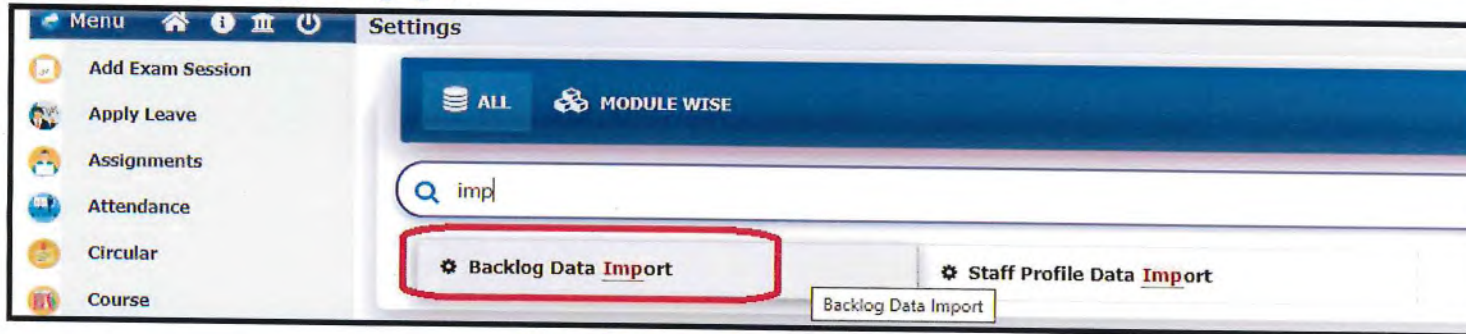
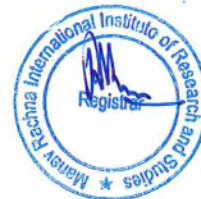


Figure 5.1: Setting for importing Reappear data

Vinay



Menu Home Info Logout Power **Data Import >> Data Exam Result**

- Add Exam Session
- Apply Leave
- Assignments
- Attendance
- Circular
- Course
- Dashboard
- Employee
- Examinations
- Feedback
- Fees
- Grievance Complaint
- Hostel
- ID Card
- Lead Management
- Leave Management
- LMS
- Online Exam
- Payroll
- Performances
- Pre-Admission
- Proctor

Excel Import Program For Backlog/Improvement

Backlog Academic Year :

Select Class :

Excel Content : Grades Marks Import Status

Uploading Marks For : Regular Backlog Improvement Revaluation
 Paper Seeing

Component Wise :

Marks Enter Date :

Extra Columns :

Excel File : No file chosen

IMPORT **CANCEL**

Figure 5.2: Excel Import Program for Reappear/Improvement Exams

- Once the data is imported students are able to view their grades on their login Semester wise and can apply for the course accordingly.

Umay



Selection

Apply Exam Type
Exam Form

Main Exam **Exam Session**
EXTERN 2019-20I

My Exam Registrarion

All Courses

2018-2019 (Sem 1)

2019-2020 (Sem 3)

2018-2019 (Sem 2)

Total Amount To Pay :

View **Process**

Active courses for examination registration

Examination Registration Applied Courses

Course Code : BSC-CH-101

Title : chemistry-i

Credit : 4 **Type :**

Grade :

Semester : Status :
Sem 2 Backlog

Not Approved 06/07/2020

Course Code : ESC-CS-101

Title : programming for problem solving

Credit : 3 **Type :**

Grade :

Semester : Status :
Sem 2 Backlog

Not Approved 06/07/2020

Course Code : BSC-MA-102

Title : mathematics-i

Credit : 4 **Type :**

Grade :

Semester : Status :
Sem 1 Backlog

Not Approved 06/07/2020

Course Code : ESC-EE-101

Title : basic electrical engineering

Credit : 4 **Type :**

Grade :

Semester : Status :
Sem 1 Backlog

Figure 5.3: Student Portal view for applying of Reappear Exam

- Student can pay for the reappear exam through same window.

Vinay



6. RESULT PROCESSING

Result processing includes uploading of marks of continuous assessment, generation of cut-list, uploading of answer scripts, generation of examination reports and grade card, etc.

6.1 CONTINUOUS INTERNAL ASSESSMENT -MARKS UPLOADING

- The faculty members teaching the course have to fill in the marks for all the internal assessment parameters.
- There are different parameters depending upon the nature of course i.e. Practical course have different parameter than Theory courses.
- The provision of entering marks is provided in PERFORMANCE. This is available on Main Window itself.
- The parameter can be selected from scheduled sub-exam list and then clicking on “Proceed to Add Marks”.

Vinay





Figure 6.1: Main Window >> Performance

- The departmental EMS Coordinators prepare the schedule for these internal assessment parameters and then faculty members can fill in the required marks in “Add Marks” for every parameter.

Vinay



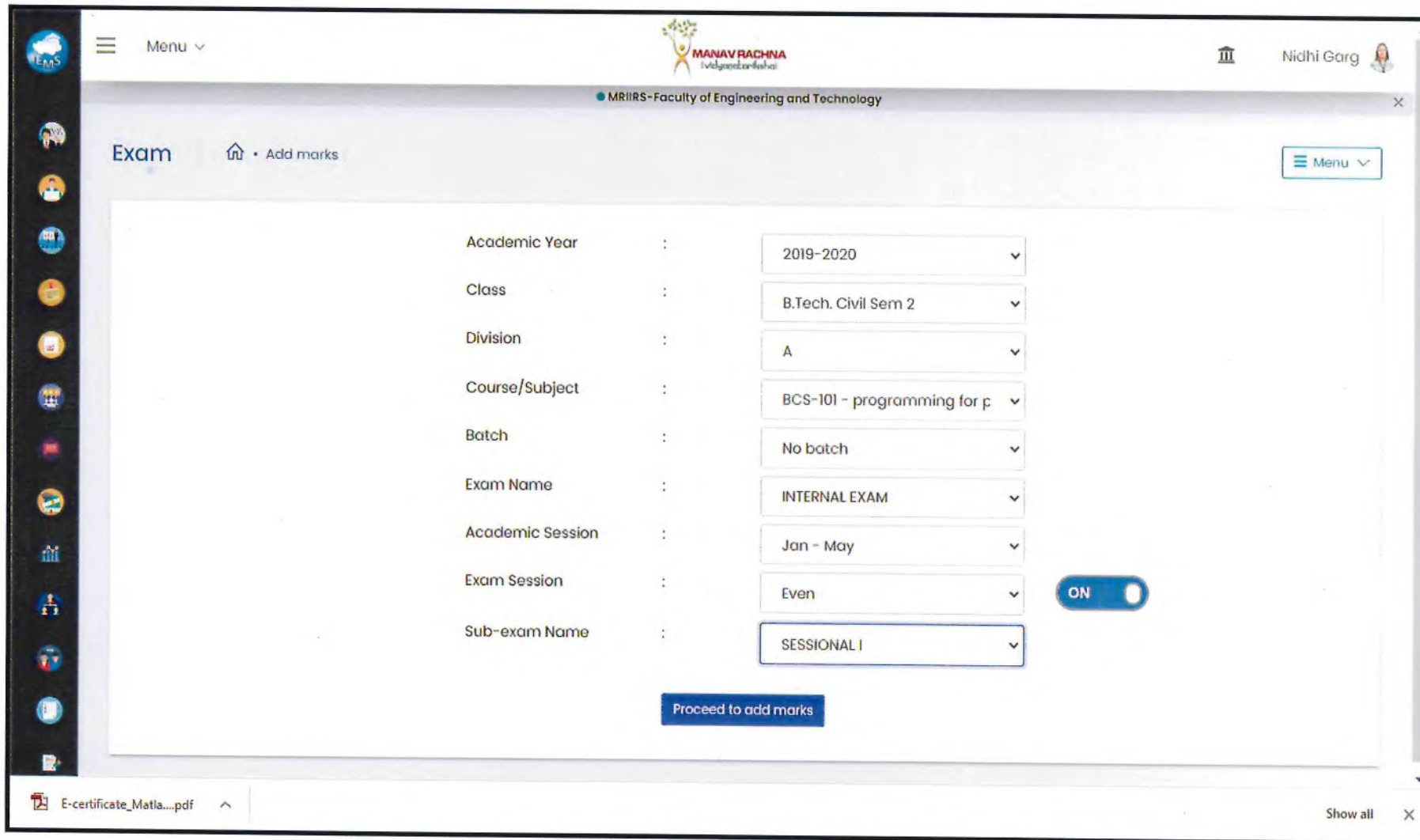


Figure 6.2: Add Marks Screen

- All the parameters can be selected for marks entry in one go by sliding the ON/OFF button to "Off".

Vinay



Academic Year	:	2019-2020	▼
Class	:	B.Tech. Civil Sem 2	▼
Division	:	A	▼
Course/Subject	:	BCS-101 - programming for p	▼
Batch	:	No batch	▼
Exam Name	:	INTERNAL EXAM	▼
Academic Session	:	Jan - May	▼
Exam Session	:	Even	▼
Sub-exam Name	:	SESSIONAL I SESSIONAL II ATTENDANCE ASSIGNMENT CLASS PERFORMANCE	▲ ▼

OFF

Proceed to add marks

Figure 6.3: All Sub-Exam can be selected if sliding bar indicates OFF

Umay



Menu

MARV RADEVA
Mangalore Institute of Research and Studies

MRIIRS - Faculty of Engineering and Technology

Exam Performance Add marks

Academic Year: 2019-2020
Main Exam Name: INTERNAL EXAM

Class/Division: B.Tech. Civil Sem 2 / A
Sub-Exam Name: SESSIONAL I / SESSIONAL II / ATTENDANCE / ASSIGNMENT / CLASS PERFORMANCE /

Subject: BCS-101 - programming for problem solving-PP

Cancel

Search by student rollno,exam seat,name,etc

Seat No.	Student Name	SESSIONAL I		SESSIONAL II								ATTENDANCE	ASSIGNMENT	CLASS PERFORMANCE			
		average(GI)	average(GI)	1a - (2.00)	1b - (2.00)	1c - (2.00)	1d - (2.00)	1e - (2.00) (CO2,CO6)	2a - (5.00)	2b - (5.00)	3a - (5.00)	3b - (5.00)	4a - (5.00)	4b - (5.00)	09-03-2020 - AM--AM MM-30.00 - (40.00%)	01-05-2020 - AM--AM MM-20.00 - (40.00%)	01-05-2020 - AM--AM MM-10.00 - (40.00%)
001	Aditya Pratap Singh	26.00												21.50	10.00	10.00	10.00
003	Kapil Vikal	0.00												17.50	6.00	15.00	7.00
004	Bikramjeet Singh Arora	12.00												14.00	0.00	14.00	7.00

E-certificate_Matla....pdf

Show all

Figure 6.4: Screen for marks entry

Vikay

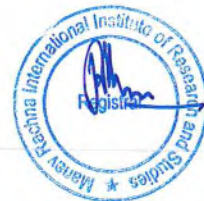


- If there is requirement of Scaling marks of any scheduled parameter, then the faculty can select the mathematical formula for that parameter from drop-down available.



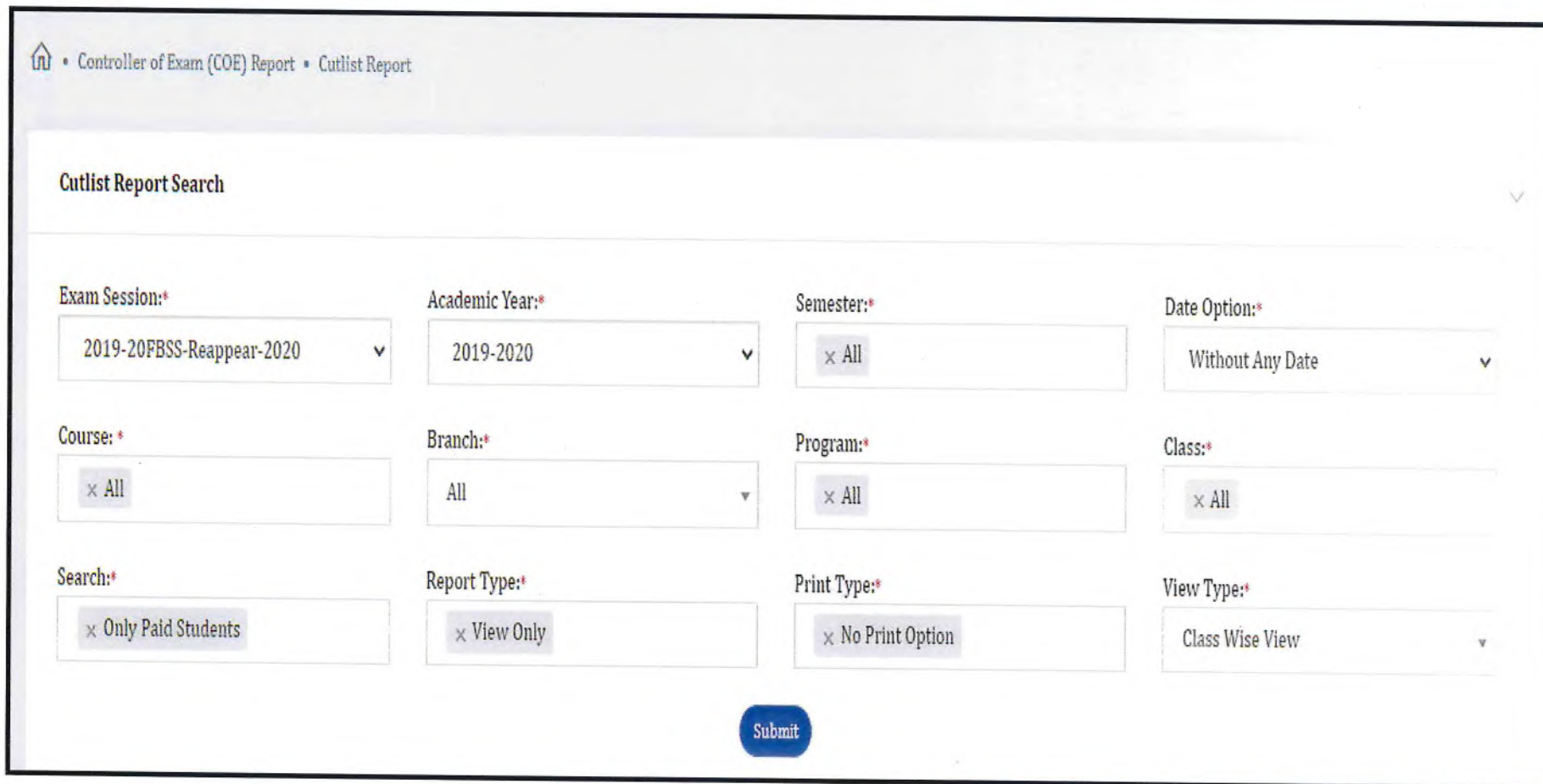
Figure 6.5: Formula drop-down for Scaling (Up/Down) of Maximum Marks of particular parameter

Vinay
7



6.2 CUT-LIST GENERATION –

- The Examination Branch can generate the Cut-list for the schedule exam having details of students who have applied for Reappear exam.



The screenshot displays a web interface for generating a cut-list. At the top, there is a breadcrumb trail: "Controller of Exam (COE) Report • Cutlist Report". Below this is a section titled "Cutlist Report Search". The search criteria are organized into three rows of four filters each. Each filter is a dropdown menu with a small 'x' icon and a downward arrow. The filters and their current selections are: Row 1: Exam Session: 2019-20FBSS-Reappear-2020; Academic Year: 2019-2020; Semester: x All; Date Option: Without Any Date. Row 2: Course: x All; Branch: All; Program: x All; Class: x All. Row 3: Search: x Only Paid Students; Report Type: x View Only; Print Type: x No Print Option; View Type: Class Wise View. A blue "Submit" button is located at the bottom center of the form area.

Figure 6.6: Filters for generating Cut-list

Vinay



Branch: MRIIRS-Faculty of Engineering and Technology
 Department: Department of Automobile Engineering
 Class: B.Tech. Automobile - Sem 6
 Year: 2019-2020

Sr.	Student	Adm No.	Roll No.	DOB	Subjects		Total Subjects	Amount Paid	Ledger
					Heat Transfer M-604	Operation Research M-601A			
1	Anurag Chauhan	MREI2752	1/15/FET/BAU/1/016	02/09/1996	Applied		1	10500	
2	Ankit Raj	2015UG00059	1/15/FET/BAE/1/013	14/12/1993		Applied	1	2800	
3	Himanshu Sengar	MREI2761	1/16/FET/BAU/1/004	23/10/1997	Applied		1	2100	
				2	1	3	..		

Branch: MRIIRS-Faculty of Engineering and Technology
 Department: Department of Automobile Engineering
 Class: B.Tech. Automobile - Sem 8
 Year: 2019-2020

Sr.	Student	Adm No.	Roll No.	DOB	Subjects		Total Subjects	Amount Paid	Ledger
					Human Resource Management HM-822				
1	Anurag Chauhan	MREI2752	1/15/FET/BAU/1/016	02/09/1996	Applied		1	10500	
				1	1	..			

Branch: MRIIRS-Faculty of Engineering and Technology
 Department: Department of Biotechnology
 Class: B.Tech. Biotechnology - Sem 1
 Year: 2019-2020

Sr.	Student	Adm No.	Roll No.	DOB	Subjects				
					Applied Maths-I MA-101A	Elements Of Computer And Programming CS-101	Elements Of Electrical Engineering EE-101B	Applied Physics-I PH-101A	Mathematics For Biotech BMA-103
1	Deepika Dhawan	MREI797	1/16/FET/BBT/1/019	18/06/1998	Applied				
2	Twinkle	MREI2188	1/16/FET/BCC/1/043	26/05/1996	Applied	Applied			
3	Ashish Mor	MREI2190	1/16/FET/BCC/1/045	03/04/1997			Applied		
4	Divyanshu Rawat	MREI2461	1/16/FET/BCC/1/124	05/01/1998		Applied		Applied	
5	Vikas Choudhary	MREI1131	1/16/FET/BCI/1/024	-				Applied	
6	Priyanka Mena	MREI1139	1/16/FET/BCI/1/033	08/09/1998	Applied			Applied	
7	Anmol Tyagi	MREI1143	1/16/FET/BCI/1/037	-	Applied				
8	Sachin	MREI1145	1/16/FET/BCI/1/039	01/08/1998	Applied				
9	Pulkit Gupta	MREI1147	1/16/FET/BCI/1/042	-				Applied	
10	Deepanshu Mehta	MREI105	1/16/FET/BEC/1/001	17/06/1998			Applied	Applied	

Figure 6.7: Generated Cut-list (Class-wise)

Chay



Course: Applied Physics-ii Pre - (PH-201A)

Year: 2019-2020

Sr.	Student	Rollno	DOB	Type	Class	Semester	Branch	Need to Pay	Total Paid	Total Remainings
1	Chinky Roy	14011011FE1227	-	Backlog	BTech CSE	Sem 2	MRU-Faculty of Engineering	11900	16800	X
2	Sahil Dang	MREI740	15/01/1995	Backlog	B.Tech. Biotechnology	Sem 2	MRIIRS-Faculty of Engineering and Technology	5600	5600	X
3	Gaurav Dagar	MREI814	27/10/1997	Backlog	B.Tech. Biotechnology	Sem 2	MRIIRS-Faculty of Engineering and Technology	3500	3500	X
4	Naman Choudhary	MREI770	02/02/1997	Backlog	B.Tech. Biotechnology	Sem 2	MRIIRS-Faculty of Engineering and Technology	14000	14000	X
5	Vikas Choudhary	MREI1131	-	Backlog	B.Tech. Civil	Sem 2	MRIIRS-Faculty of Engineering and Technology	5600	7700	X
6	Aman Sharma	MREI1118	01/06/1997	Backlog	B.Tech. Civil	Sem 2	MRIIRS-Faculty of Engineering and Technology	3500	3500	X
7	Ajay Singh Saini	MREI1130	04/06/1996	Backlog	B.Tech. Civil	Sem 2	MRIIRS-Faculty of Engineering and Technology	16100	16100	X
8	Tongbram Pukningkhomba	MREI1070	28/03/1997	Backlog	B.Tech. Civil	Sem 2	MRIIRS-Faculty of Engineering and Technology	7000	7000	X
9	Anshul	MREI1153	-	Backlog	B.Tech. Civil	Sem 2	MRIIRS-Faculty of Engineering and Technology	5600	5600	X
10	Thingujam Rahul	MREI1138	-	Backlog	B.Tech. Civil	Sem 2	MRIIRS-Faculty of Engineering and Technology	9100	9100	X
11	Gunit Verma	MREI2441	26/02/1998	Backlog	B.Tech. CSE	Sem 2	MRIIRS-Faculty of Engineering and Technology	7700	7700	X
12	Md Ishtiyaque Alam	MREI2042	10/08/1994	Backlog	B.Tech. CSE	Sem 2	MRIIRS-Faculty of Engineering and Technology	7700	7700	X
13	Shazi Zaman	MREI2414	28/12/1997	Backlog	B.Tech. CSE	Sem 2	MRIIRS-Faculty of Engineering and Technology	6300	6300	X

Figure 6.8: Generated Cut-list (Course Wise)

Unay



6.3 SUBMISSION OF END SEMESTER EXAMINATION MARKS BY FACULTY MEMBERS

Faculty members submit the end semester examination marks of their respective courses on EMS. The procedure of uploading of marks is explained with the help of following screenshots

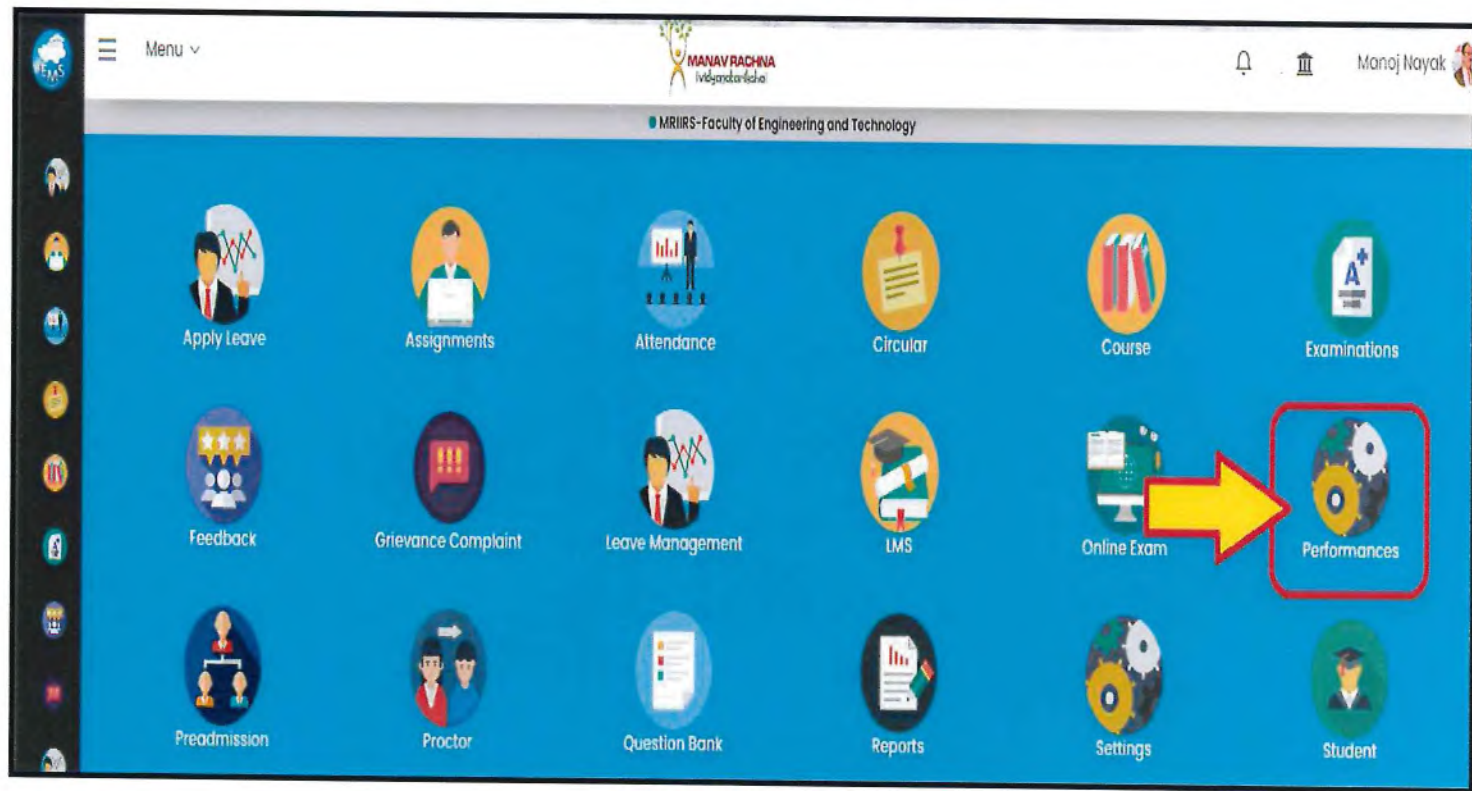


Figure 6.9: Performance tab

Vinay



On marks uploading screen, faculty can upload marks in the excel sheet by filling all filters as shown in the below image.

Select Parameters to Import Marks

Academic Year : 2021-2022

Select Branch : MRIIRS-Faculty of Engineering and Technology

Exam Session : Select Exam Session

Select the Class : B.Tech. Mechanical-Sem 5

Select Course : Tool Design - PP - BME-DS-524-110083

Select the Exam Type : EXTERNAL EXAM

Select the Sub Exam Type : End_Term_Examination_Odd

Select the Sub Exam Type No : End_Term_Examination_Odd 1

Submit Cancel

Figure 6.10: Schedule creation page for uploading marks

Uthay



MANAV RACHNA
International Institute of Research and Studies

Menu ▾

Manoj Na

- If you want to hide edit marks functionality from Employee login set meta data- Hide_External_Exam_Marks="Main Exam Name".
- Put "AB" for Absent student in Obtained Marks column
- For optional questions, if those are not attempted by the students then make sure you put a zero for at least one of the optional questions.
- Do not put "-" in any cell. Instead put a "0".
- Do not keep any cell blank for the mandatory questions. You have to put zero if there are no marks to be added.
- Do not put anything in the "H" column.

Exam Type : **EXTERNAL EXAM**

Class : **B.Tech. Mechanical-Sem 5**

Division : **5MA**

Name of the exam : **End_Term_Examination_Odd**

Date of Exam : **2021-12-07**

Sub Exam Type No : **End_Term_Examination_Odd1**

Name of the subject : **Tool Design - BME-DS-524 - PP - DS**

Excel File: No file chosen

Figure 6.11: Download excel file

After downloading excel sheet, faculty members upload the filled excel sheet for uploading end semester marks as shown below.

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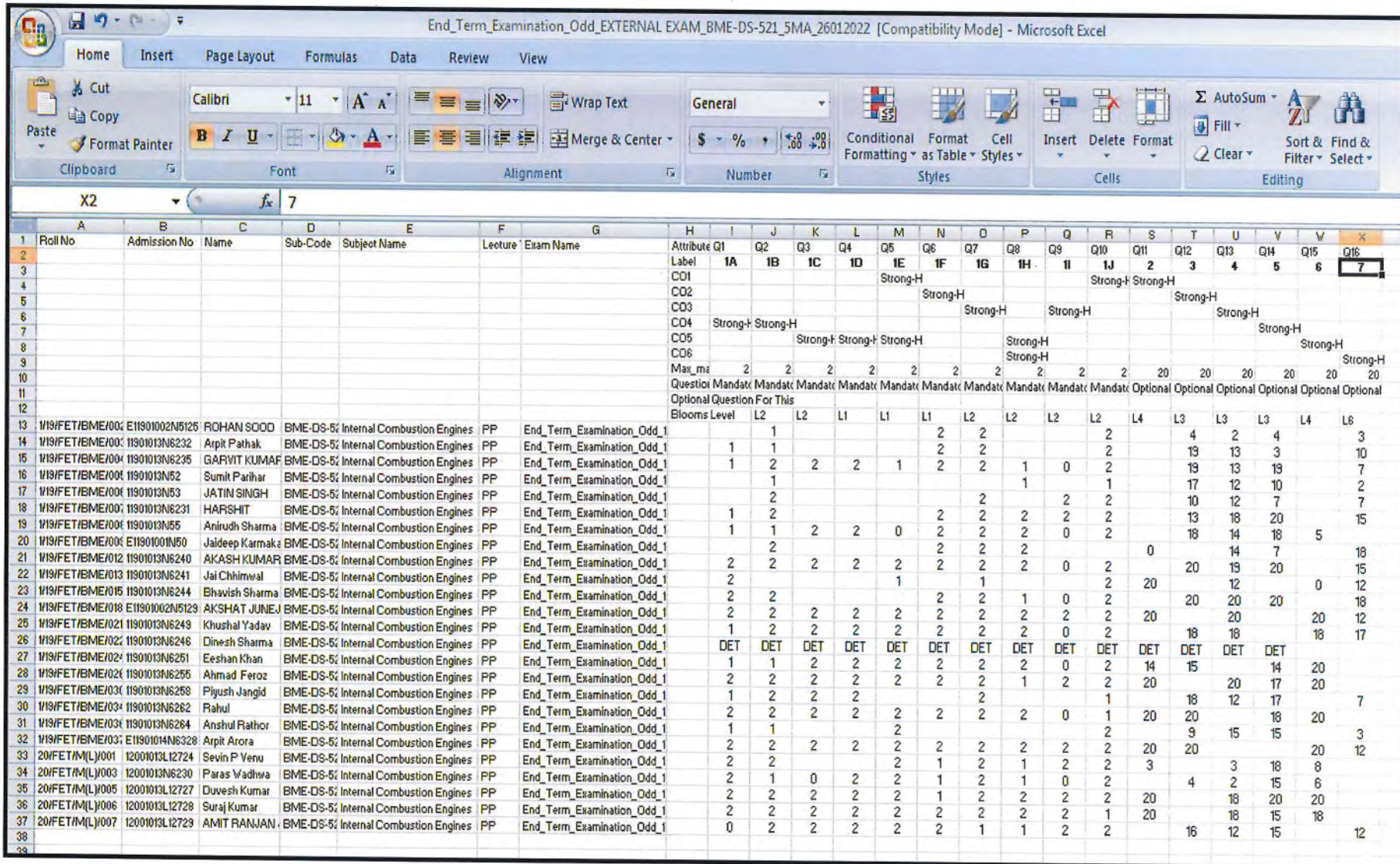


Figure 6.12: Filled excel sheet

Vinay



6.4 UPLOADING OF ANSWER SCRIPTS AND CONDUCT OF EXAMINATION OPEN HOUSE FOR ONSCREEN VERIFICATION OF EVALUATED ANSWER SCRIPTS BY STUDENTS

For conducting the examination open house to enable students to verify their evaluated answer scripts, the answer scripts are uploaded on EMS.

6.4.1: Process to be followed by faculty to upload answer scripts

STEP 1. Open Performance Menu

Once marks are uploaded for the required session of MAIN END SEMESTER EXAM, course coordinators again have to go to PERFORMANCE MENU.

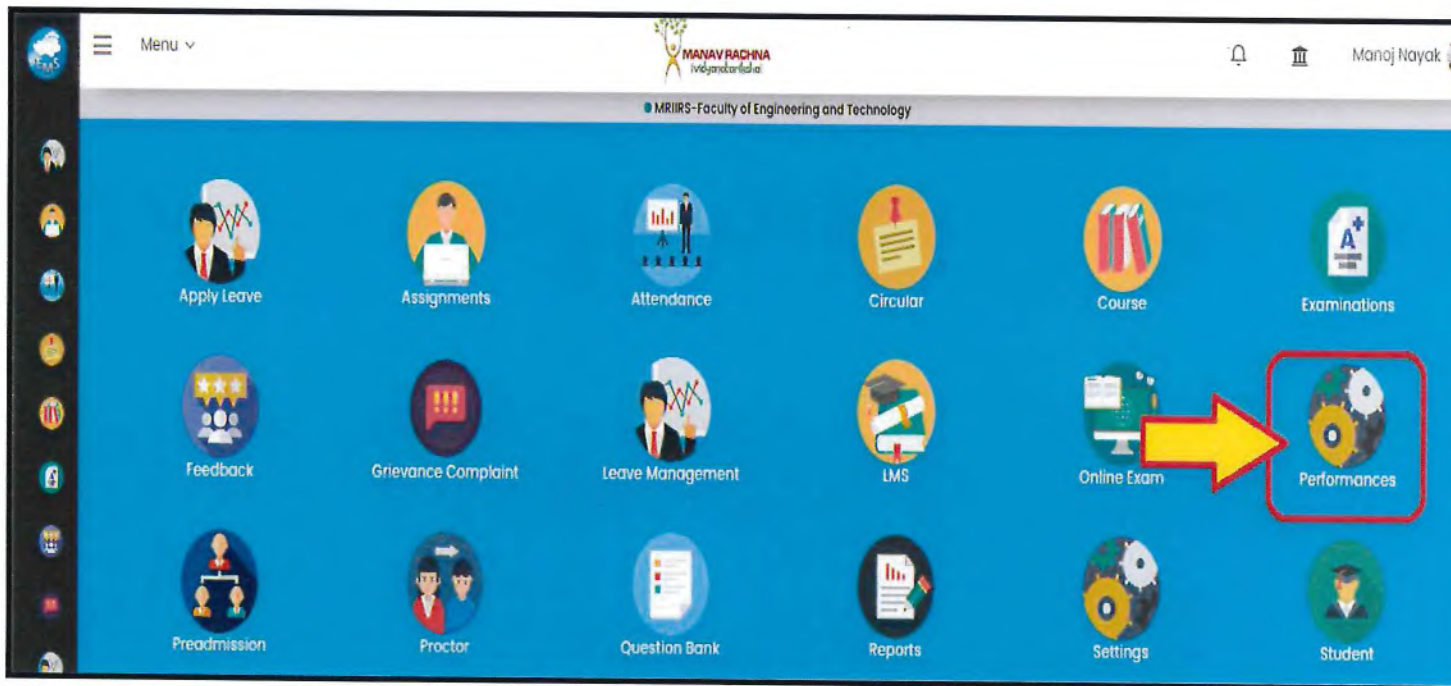


Figure 6.13: Performance tab

Vinay



STEP 2. Uploading of evaluated sheets:

Select the option “EXAMINATION ANSWER SHEETS UPLOAD” that is present in drop-down to upload the PDF file having marks entered against every question.

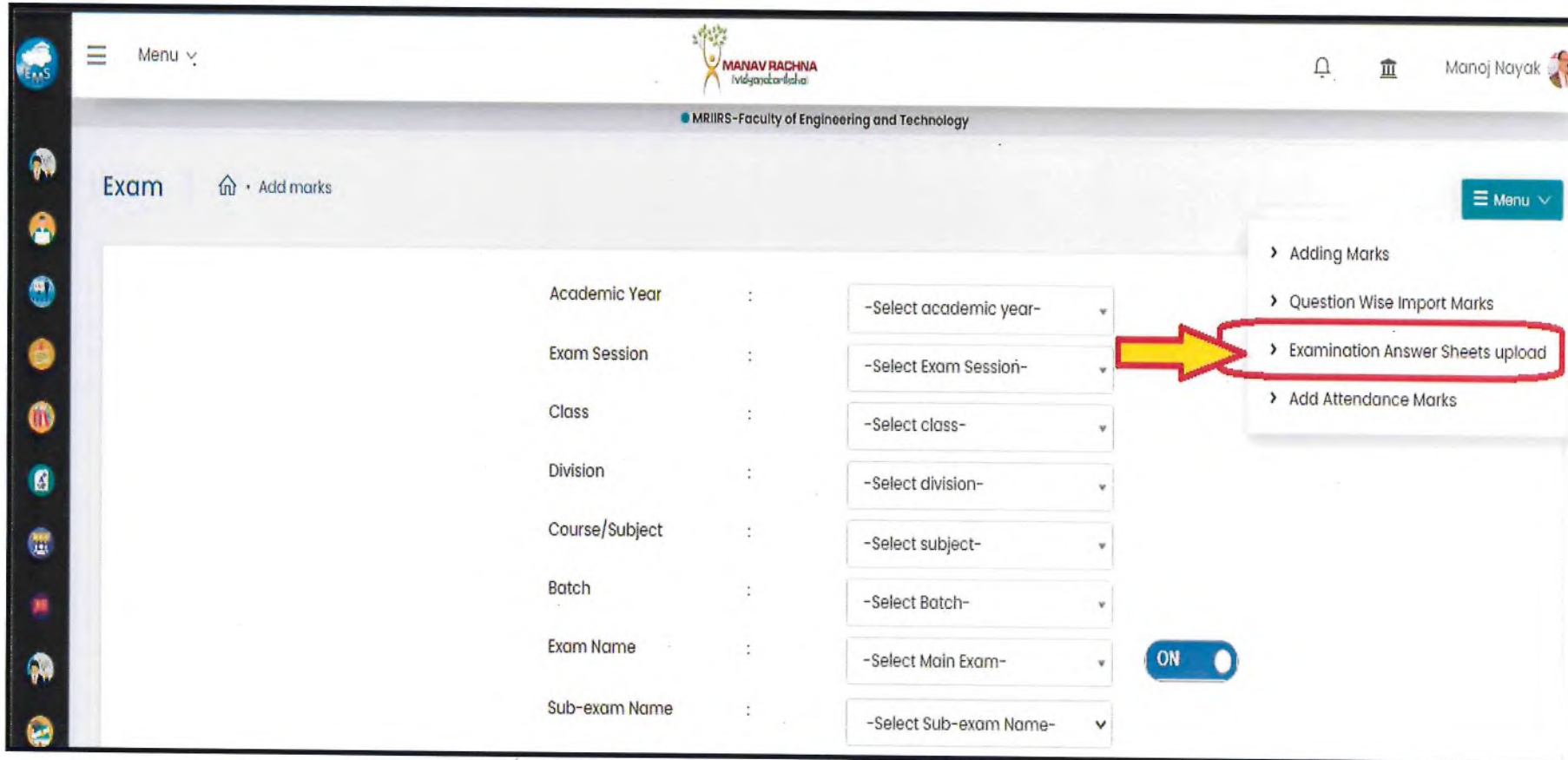


Figure 6.14: Open Examination answer sheet upload

Vinay

STEP 3. "ANSWER SHEET UPLOAD" WINDOW:

A new window opens up, where; course coordinator can view all Scheduled Examination List (Courses allotted to faculty member). Click on "VIEW" corresponding to the course for which answer sheets are to be uploaded.

The screenshot displays the 'Scheduled Exam List' interface. At the top, there is a navigation bar with 'Menu', 'MANAV RACHNA Vidyanobharishala', and the user name 'Manoj Nayak'. Below the navigation bar, the breadcrumb trail shows 'Examination > Performance > Answer Sheet Upload'. The main content area is titled 'Scheduled Exam List' and includes a 'Jump to Page' dropdown set to 'Page 1'. There are filters for 'Year' (2021-2022) and 'Section' (select section). A search bar is also present. The table below lists the scheduled exams:

Sr. No.	Class	Semester	Division	Course Name	Allotment Type	Batch	Exam Count	Examination Details
1	B.Tech. Mechanical	Sem 5	5MA	Tool Design-BME-DS-524	PP	5MA--TD	7	View
2	B.Tech. Mechanical	Sem 4	A	MANUFACTURING TECHNOLOGY-BME-DS-403	PP	None	0	View
3	B.Tech. Mechanical	Sem 4	A	WORKSHOP TECHNOLOGY LAB-BME-DS-453	PR	4MA-PRACTICAL	0	View

Figure 6.15: View tab for uploading sheets

Vinay



Click on the "Upload" icon that is present alongside Exam schedule to upload sheets for End Semester Exam.

Answer sheet upload







Sr.No	Subject	Exam Type	Exam Name	Exam Date	Sub Exam Type No	Upload/View Answer Sheets
1	Internal Combustion Engines - PP - BME-DS-521-5000	INTERNAL EXAM	SESSIONAL I	15/08/2021 1:00 PM-2:00 PM;	SESSIONAL I - 1	
2	Internal Combustion Engines - PP - BME-DS-521-5000	INTERNAL EXAM	SESSIONAL II	16/11/2021 9:00 AM-10:30 AM;	SESSIONAL II - 1	
3	Internal Combustion Engines - PP - BME-DS-521-5000	INTERNAL EXAM	ATTENDANCE	28/11/2021 9:00 AM-11:00 AM;	ATTENDANCE - 1	
8	Internal Combustion Engines - PP - BME-DS-521-5000	INTERNAL EXAM	ASSIGNMENT	28/11/2021 9:00 AM-11:00 AM;	ASSIGNMENT - 1	
13	Internal Combustion Engines - PP - BME-DS-521-5000	INTERNAL EXAM	CLASS PERFORMANCE	28/11/2021 9:00 AM-11:00 AM;	CLASS PERFORMANCE - 1	
16	Internal Combustion Engines	EXTERNAL EXAM	End_Term_Examination_Odd	09/12/2021 9:00 AM-12:00 PM;	End_Term_Examination_Odd - 1	

Figure 6.16: Click on upload icon for uploading answer sheet

Vijay



STEP 4. ANSWER SHEET UPLOADING:

A small window displaying the list of students for whom marks are to be uploaded will appear on screen with option from where evaluated sheets of student is to be uploaded.

- Click on “Select file” and browse to the location where required file is stored and then click on “Upload”. System will re-confirm the action by asking “Sure to upload”. Proceed by clicking on “Yes, Upload”.
- Course coordinator can select other file while the previous one is uploading. System allows multiple uploading on same window.

The screenshot shows a web interface titled "Answer sheet upload". At the top, there is a message: "If file already exists then it'll be overwritten, To upload file select file and click on respective upload button, You can start upload multiple files simultaneously". Below this is a "Go Back" button. The "Exam Details" are: (Subject: Internal Combustion Engines) (Exam Name: EXTERNAL EXAM End_Term_Examination_Odd¹) (Date-time: 09/12/2021 (9:00 AM) - (12:00 PM)).

Sr.no	File	Name	Roll No	PRN No.	Admno Display	Download File
1	1-19-FET-BME-002.pdf	ROHAN SOOD	1/19/FET/BME/002	19/FET/0320	11901013N003	Not Uploaded
2	1-19-FET-BME-003.pdf	Arpit Pathak	1/19/FET/BME/003	19/FET/0321	11901013N004	Not Uploaded
3		GARVIT KUMAR	1/19/FET/BME/004	19/FET/0322	11901013N005	Download/View
4		Sumit Parihar	1/19/FET/BME/005	19/FET/0323	11901013N006	Download/View
5		JATIN PRATAP SINGH	1/19/FET/BME/006	19/FET/0324	11901013N007	Download/View
6		HARSHIT	1/19/FET/BME/007	19/FET/0325	11901013N008	Download/View
7		Anirudh Sharma	1/19/FET/BME/008	19/FET/0326	11901013N010	Download/View

Figure 6.17: Answer sheet uploading page

Vinay



Answer sheet upload

If file already exists then it'll be overwritten , To upload file select file and click on respective upload button , You can start upload multiple files simultaneously Go Back

Exam Details : (Subject : Internal Combustion Engines) (Exam Name : EXTERNAL EXAM End_Term_Examination_Odd¹) (Date-time : 09/12/2021 (9:00 AM) - (12:00 PM))

Sr.no	File	Name	Roll No	PRN No.	Admno Display	Download File
1	Answer Sheet Uploaded Successfully ✓	ROHAN SOOD	1/19/FET/BME/002	19/FET/0320	11901013N003	Download/View
2	Answer Sheet Uploaded Successfully ✓	Arpit Pathak	1/19/FET/BME/003	19/FET/0321	11901013N004	Download/View
3	<input type="button" value="Select file"/> <input type="button" value="Upload"/>	GARVIT KUMAR	1/19/FET/BME/004	19/FET/0322	11901013N005	Download/view
4	<input type="button" value="Select file"/> <input type="button" value="Upload"/>	Sumit Parihar	1/19/FET/BME/005	19/FET/0323	11901013N006	Download/view
5	<input type="button" value="Select file"/> <input type="button" value="Upload"/>	JATIN PRATAP SINGH	1/19/FET/BME/006	19/FET/0324	11901013N007	Download/view
6	<input type="button" value="Select file"/> <input type="button" value="Upload"/>	HARSHIT	1/19/FET/BME/007	19/FET/0325	11901013N008	Download/view
7	<input type="button" value="Select file"/> <input type="button" value="Upload"/>	Anirudh Sharma	1/19/FET/BME/008	19/FET/0326	11901013N010	Download/View
8	<input type="button" value="Select file"/> <input type="button" value="Upload"/>	Jaideep Karmakar	1/19/FET/BME/009	19/FET/0327	11901013N011	Download/View

Figure 6.17: Screen after successfully uploading

Vinay



6.4.2: Process to be followed by students to view their checked answer sheets

After the uploading of evaluated answer sheet on EMS, students can view answer sheet and raise their request for correction on EMS. Student can verify the marks and raise their request for totalling error and unchecked answers.

A. Student can login on their account and open performance page as shown below



Figure 6.17: Performance tab

Umay



B. Student can fill all required filter as shown in the image

Menu

Performances >> Report Card Of AMIT RANJAN JHA

Assignments
Attendance
Circular
College Info
Courses
Feedback
Fees
Google Form Links
Grievance Complaint
LMS
Performances
Proctor
Survey
Time Table

AMIT RANJAN JHA
Admission No. : 12001013L12729
Class : B.Tech. Mechanical Sem 6
Division : A
Roll No. : 20/FET/M(L)/007
Programme : B.Tech. - Mechanical Engineering [013]
Application No. : MRIRRS/2020/12320 (This is a preadmission application No)
PRN : 20/FET/0022

Academic Year : 2021-2022
Class : B.Tech. Mechanical-Sem 5
SMA
Exam Name : EXTERNAL EXAM

Submit

Figure 6.17: Performance tab

C. Student can click on the icon for answer sheet to verify the marks in the sheet as shown in the below image:-

Menu

Performance

Report Menu • Report Card Of AMIT RANJAN JHA

Course Code	Course Name	EXTERNAL EXAM		
		End_Semester_Examination_DEC_2021_FET MRIRRS 1	End_Term_Examination_Odd1	Main End Semester Exam - Odd 1
BME-DS-502	Industrial Engineering (PP)	88.00 / 100.00		
BME-DS-521	Internal Combustion Engines (PP)	71.00 / 100.00		
BME-DS-526	Production Engineering (PP)	70.00 / 100.00		

Figure 6.18: Click on icon for course answer sheet

Vikay



D. Answer sheet will open online and student can verify the pages one by one by click on next page as shown in the image.

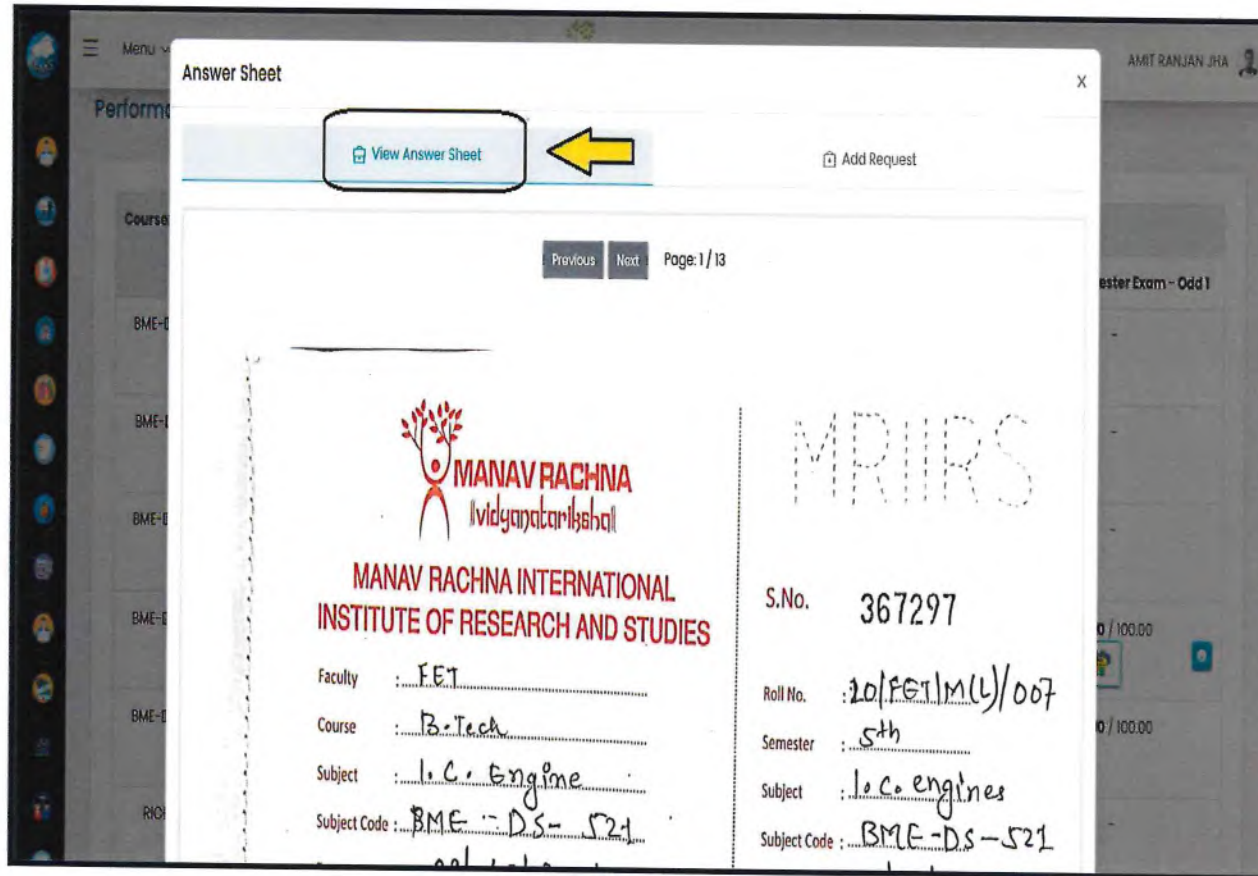


Figure 6.18: Student answer sheet

E. Student can raise concerns or request by click on the add request as shown on image:-

➤ Examples are given below for the request format, student can raise concerns in the same format

Umay



- Totalling error request on the left side of the page and in the image concern was raised by student is shown
- On the right side of the image, student can raise the concern for the unchecked answer and example is given below to show how can student raise his/her request
- At the end click on submit to raise request.

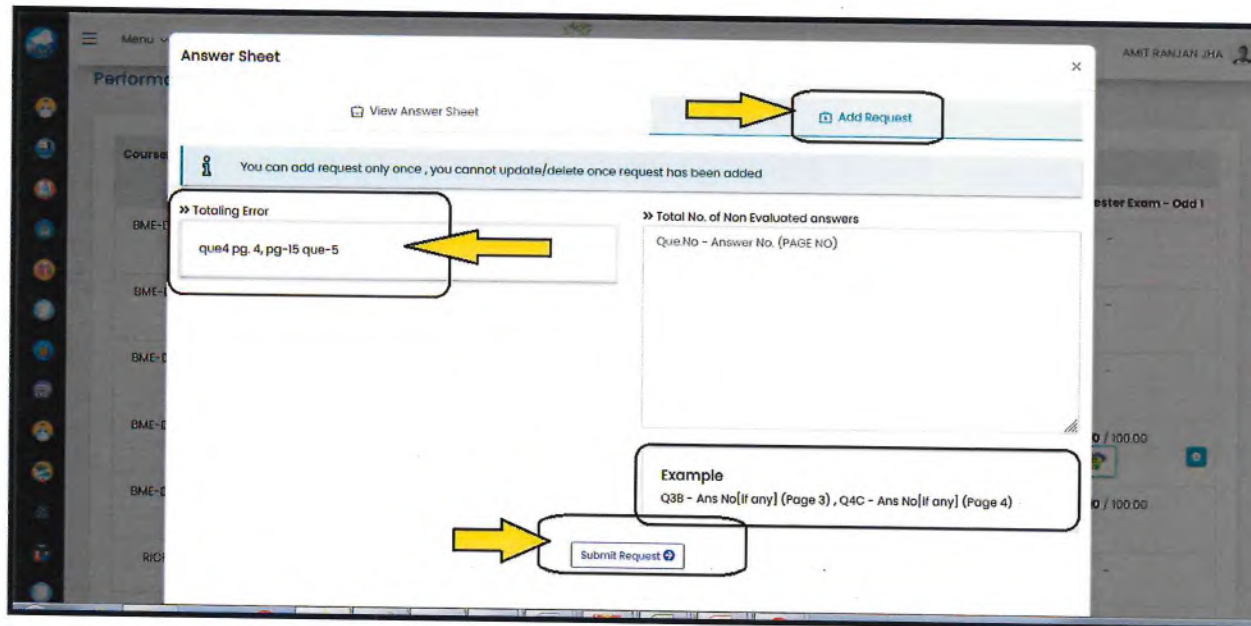


Figure 6.19: Answer sheet correction in marks request page

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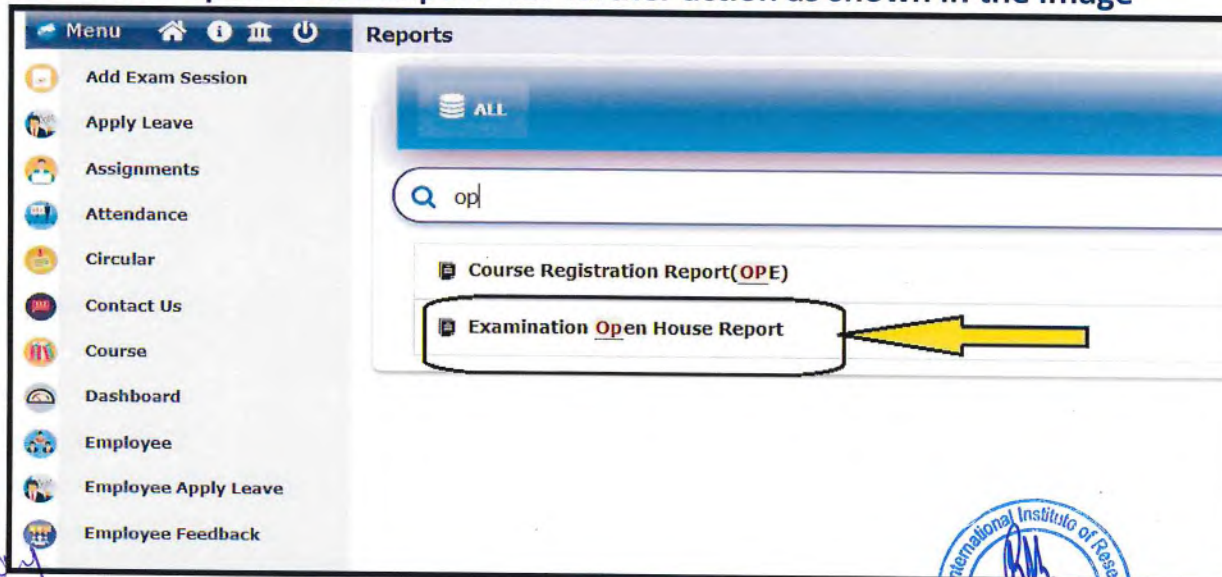
6.4.3 Process followed by CoE to view answer sheet and marks correction on EMS:-

A. CoE can open the report for checking the raised issue and marks correction



Figure 6.20: Report

B. "Open the Examination Open House Report" for further action as shown in the image

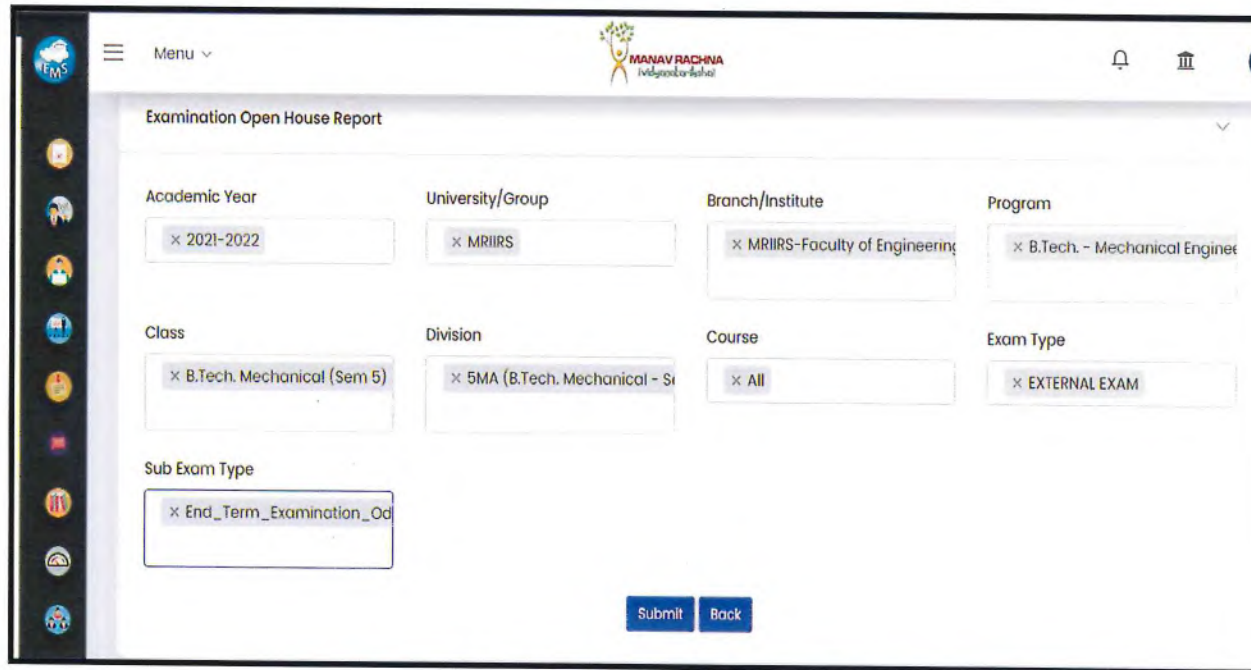


Vinay



Figure 6.21: Examination Open House Report

C. Fill all the filter as per the program or multiple selection is also available to check the request raised by the students from different semesters:-



The screenshot displays a web interface for the 'Examination Open House Report'. The interface includes a navigation menu on the left, a header with the 'MANAV RACHNA' logo, and a main content area with several filter sections. The filters are as follows:

Academic Year	University/Group	Branch/Institute	Program
× 2021-2022	× MRIIRS	× MRIIRS-Faculty of Engineering	× B.Tech. - Mechanical Engineer

Class	Division	Course	Exam Type
× B.Tech. Mechanical (Sem 5)	× 5MA (B.Tech. Mechanical - S	× All	× EXTERNAL EXAM

Sub Exam Type
× End_Term_Examination_Od

At the bottom of the filter section, there are two buttons: 'Submit' and 'Back'.

Figure 6.22: Examination Open House Report

D. CoE can export the file as shown in the image:-

- List of issue raised open at CoE level
- In the report, details are provided regarding questions and page no. on which concern was raised by the student.
- CoE have rights to open the answer sheet of concerned student to verify the request
- CoE also have rights to update the marks by clicking on show marks as shown in the image.

Umay



Sr.No.	Admission No	Roll No	Student Name	Internal Combustion Engines (BME-DS-521)			Tool Design (BME-DS-524)				
				Exam Type	Answer sheet Link	Error In Total	Question not Checked	Exam Type	Answer sheet Link	Error in Total	Question not Checked
1	1190103186246	1/19/FET/EMT/022	Dinosh Sharma	End_Term_Examination_Odd	Answer Sheet Show Marks	TESTING QIC (PART A) q/2	tasting Q-5b page 7	End_Term_Examination_Odd			
2	120010312729	20/FET/IM(L)/007	AMIT KANJANI JHA	End_Term_Examination_Odd	Answer Sheet Show Marks	que4 pg 4, pg-15 que-5		End_Term_Examination_Odd	Answer Sheet Show Marks	Que2a page5, que 2b pg7	

Figure 6.23: Report for correction at CoE level

E. Answer sheet of the student at CoE level for verifying the request:-

MANAV RACHNA International Institute of Research and Studies

MRIIRS

S.No. 367297

Roll No. 20/FET/IM(L)/007

Semester 5th

Subject I.C. engines

Subject Code BME-DS-521

Date 09/12/2021

Signature of Invigilator

Q.No.	PART						Total
	a	b	c	d	e	f	
1	0	2	2	2	2	2	12

Figure 6.24: Answer Sheet of student at CoE

F. If student has raised the concern regarding a particular question, CoE can open the sheet and verify the marks at his/her level

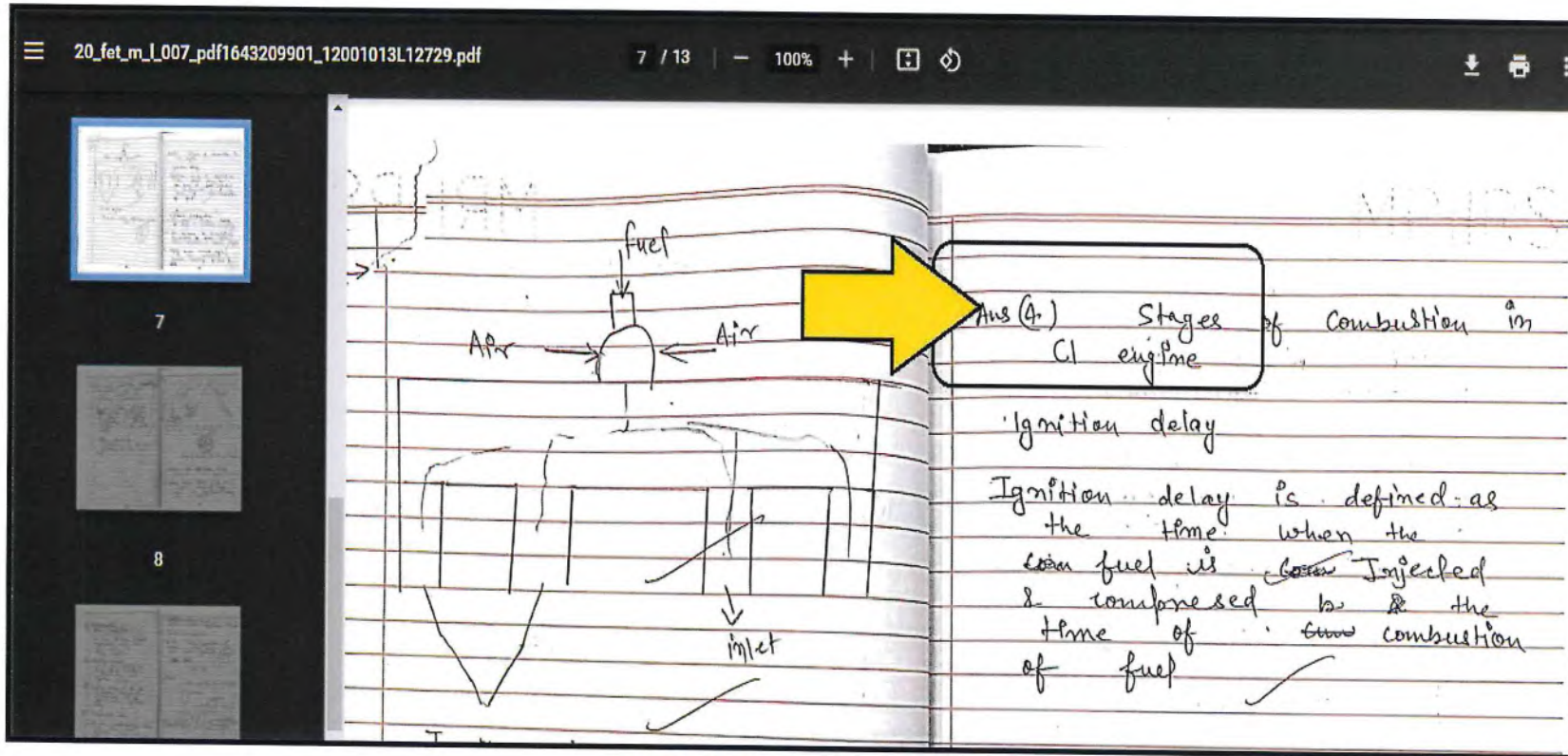


Figure 6.24: Question no. as per raised request

Vinay



G. CoE can edit the marks on the same screen by clicking on "Show Marks" button:-

Sr.No.	Admission No	Roll No	Student Name	Internal Combustion Engines (BME-DS-521)			Tool Design (BME-DS-524)				
				Exam Type	Answer sheet Link	Error in Total	Question not Checked	Exam Type	Answer sheet Link	Error in Total	Question not Checked
1	1190003N6246	1/19/141/BME/022	Dinash Sharma	End_Term_Examination_Odd	Answer Sheet Show Marks	TESTING Q/C (PART A) 0/2.	testing Q-5b page 7	End_Term_Examination_Odd			
2	1200003U2729	20/141/M(1)/007	AMI RANJAN JHA	End_Term_Examination_Odd	Answer Sheet Show Marks	quo4 pg. 4, pg-15 page 5		End_Term_Examination_Odd	Answer Sheet Show Marks	Que2a page5, quo 2b pg7	

Figure 6.25: Edit marks by show marks

H. CoE can update marks on the screen as shown below which will be updated automatically.

Admission No	Roll No	Student Name	Exam Name	Question Label	Obtained Mark	Max Marks
1200003U2729	20/141/M(1)/007	AMI RANJAN JHA	End_Term_Examination_Odd	IA	0.00	2
				IB	2.00	2
				IC	2.00	2
				ID	2.00	2
				IE	2.00	2
				IF	2.00	2
				IG	1.00	2
				IH	1.00	2
				I	2.00	2

Figure 6.25: Edit marks at CoE level

Umay



6.5 Generation of Grade Card

CoE can generate the Grade Card of the students using examination tab at his/her EMS home screen



Figure 6.26: Click on Examination icon

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The screenshot displays the 'Examination' section of the EMS. The main form is titled 'Prepare Examination Schedule' and includes the following fields:

- Academic Year: --Select--
- Exam Session: --Select--
- Group Branch: --Select--
- Select the Exam Type: --Select--
- Enter a Id/Name for this exam: None
- Due Date (dd/mm/yyyy): [Empty text box]

A dropdown menu is open on the right side of the screen, listing various examination-related actions. The 'Controller of Examination (COE)' option is highlighted with a yellow arrow and a black box. Other options in the menu include View Schedule, Prepare Schedule, Hall Ticket, Exam Attendance, Exam Inactive, Exam-Wise-Report, Course-Wise-Result-Process, Marks Freez/Unfreez, Bulk Result Processing, and Scheme Maintenance Program.

Figure 6.27: Select Controller of Examination from Menu

Vinay



CoE has to fill all the parameters for generating the grade cards of the students

The screenshot shows a web application interface for generating grade cards. The interface is organized into a grid of 16 form fields, arranged in 4 rows and 4 columns. A 'Submit' button is located at the bottom center, highlighted with a yellow arrow.

Field Name	Value
Academic Year	2021-2022
Exam Session	Fall 2021-2022 MRIIRS_FET
Semester	Odd
Date Option	Without Any Date
Lec Type	All
Course	All
Group Branch	MRIIRS
Branch	MRIIRS-Faculty of Engineering and Tech...
Program	B.Tech. - Mechanical Engineering
Numeric Semester	3
Class/Batch/Scheme	B.Tech. Mechanical - Sem 3
Section/Division	All
Search	All
Process Type	View Only
Formats	Consolidated Grade Report (PDF View) - ...
Options Available	Class Wise View
Batch	
Marksheet Date	
Exam Name (Printed on Marksheet)	
Order By	Course Code
Pagination Mode	Recordwise
Attendance Min. Percentage	65
Admit Card Course List Display	Display Scheduled Courses Only
Feedback Consider	No
Select Exam For Admit Card	Select
Report From	READ

Figure 6.28: Parameters to be filled by CoE

Chmay



CoE can select the students individually or in bulk to print the grade card

Pagination: (Please select one or multiple record)

× Record No. 1: 15

Print Selected 15 Marksheet PDF ←

Branch: MRIIRS-Faculty of Engineering and Technology
 Department: Department of Mechanical Engineering
 Class: B.Tech. Mechanical - Sem 3
 Year: 2021-2022

Sr.	Student	Roll No.	Status	Total Subjects	Amount Need to Pay	Amount Paid	Remaining Amount	Consolidated Grade Report (PDF View)	Cyber Law & Ethics BHM-001-PP	Engineering Mechanics BME-DS-301-PP	Thermodynamics BME-DS-302-PP
1	Rahul Sharma	1/20/FET/BME/009	Regular	12	0	0	0	<input checked="" type="checkbox"/>	Applied	Applied	Applied
2	Veluru Sai Dheeraj	1/20/FET/BME/011	Regular	12	0	0	0	<input checked="" type="checkbox"/>	Applied	Applied	Applied
3	Yash .	1/20/FET/BME/012	Regular	12	0	0	0	<input checked="" type="checkbox"/>	Applied	Applied	Applied
4	Gurpreet Singh	1/20/FET/BME/007	Regular	12	0	0	0	<input checked="" type="checkbox"/>	Applied	Applied	Applied
5	Tushar Sharma	21/FET/M(L)/001	Regular	13	0	0	0	<input checked="" type="checkbox"/>	Applied	Applied	Applied
6	Gaurav Singh	21/FET/M(L)/002	Regular	11	0	0	0	<input checked="" type="checkbox"/>	Applied	Applied	Applied
7	Mukul	1/20/FET/BME/006	Inactive	2	0	0	0	<input checked="" type="checkbox"/>	Applied	Applied	Applied
8	Vansh Gupta	1/20/FET/BME/014	Inactive	13	0	0	0	<input checked="" type="checkbox"/>	Applied	Applied	Applied
9	Riya Choudhary	1/20/FET/BME/013	Regular	12	0	0	0	<input checked="" type="checkbox"/>	Applied	Applied	Applied
10	Rishi Raj Singh Rathor	1/20/FET/BME/003	Regular	13	0	0	0	<input checked="" type="checkbox"/>	Applied	Applied	Applied
11	Himanshu Bhardwaj	1/20/FET/BME/010	Regular	13	0	0	0	<input checked="" type="checkbox"/>	Applied	Applied	Applied
12	Kartik Parashar	1/20/FET/BME/004	Regular	12	0	0	0	<input checked="" type="checkbox"/>	Applied	Applied	Applied
13	Gaurav Yadav	1/20/FET/BME/002	Regular	11	0	0	0	<input checked="" type="checkbox"/>	Applied	Applied	Applied
14	Gaurav Singh	1/20/FET/BME/001	Regular	11	0	0	0	<input checked="" type="checkbox"/>	Applied	Applied	Applied
15	Arshit Nanda	1/20/FET/BME/005	Regular	12	0	0	0	<input checked="" type="checkbox"/>	Applied	Applied	Applied
					171					15	15

Figure 6.29: Consolidated Grade Report


Vikram



Browser tabs: Ac X, All X, Ac X, Ac X, Ac X, Ac X, All X, Ac X, Ac X, All X, My X, Inb X

Address bar: mrei.icloudems.com/corecampus/admin/reports/new/save/cutlist_marksheetSave.php?action=searchNow

Navigation: My Report, 1 / 16, 75%, Download, Print, Refresh



MANAV RACHNA
Ividyapariksha

Grade Card (From Result Process)

Student Name:	Kartik Parashar		
Mother's Name:	SWECHHA SHARMA		
Enrolment No:	20/FET/0290	Admission No:	12001013N006
School Name:	MRIIRS-Faculty of Engineering and Technology		
Program Name:	B.Tech. - Mechanical Engineering	Term / Semester:	Sem 3

Course Code	Course Name	Credit (Registered)	Credit (Earned)	Grade
BCS-OE-004	BASICS OF PYTHON	1.00	0	F
BHM-001	Cyber Law & Ethics	3.00	3.00	C
BHM-MC-004	Quantitative Aptitude	0.00	0.00	B
BME-DS-301	Engineering Mechanics	4.00	4.00	B
BME-DS-302	Thermodynamics	4.00	4.00	C
BME-DS-303	Fluid Mechanics & Machines	4.00	4.00	C
BME-DS-304	Manufacturing Processes	4.00	4.00	B
BME-DS-351	Engineering Mechanics Lab	1.00	1.00	B
BME-DS-352	Fluid Mechanics & Machines Lab	1.00	1.00	B
BME-DS-353	CAD Lab	1.00	1.00	B
PROJ-ME-300	Summer Internship-I	2.00	2.00	B+
RIC-300	Research and Innovation Catalyst-I	0.50	0.50	B+

Windows taskbar: Type here to search, 41°C, 2:50 PM, 4/20/2022

Figure 6.30: Sample Consolidated Grade Report

Vinay



7. Computation of Program Outcomes (POs) / Program Specific Outcomes (PSOs) and Course Outcomes (COs) attainment

7.1. Introduction:

7.1.1 Assessment Tools for CO Attainment:

Both direct and indirect assessment tools shall be used for data collation. The weightage for direct and indirect methods is fixed as 80% and 20%, respectively. Direct tools considered are cumulative continuous internal assessment methods (Assignments, Sessional tests, Seminars, Practical's, Presentations, etc.) and end semester examinations. Indirect tools include a course exit survey. The process followed for course outcome attainment is depicted in Fig.7.1.

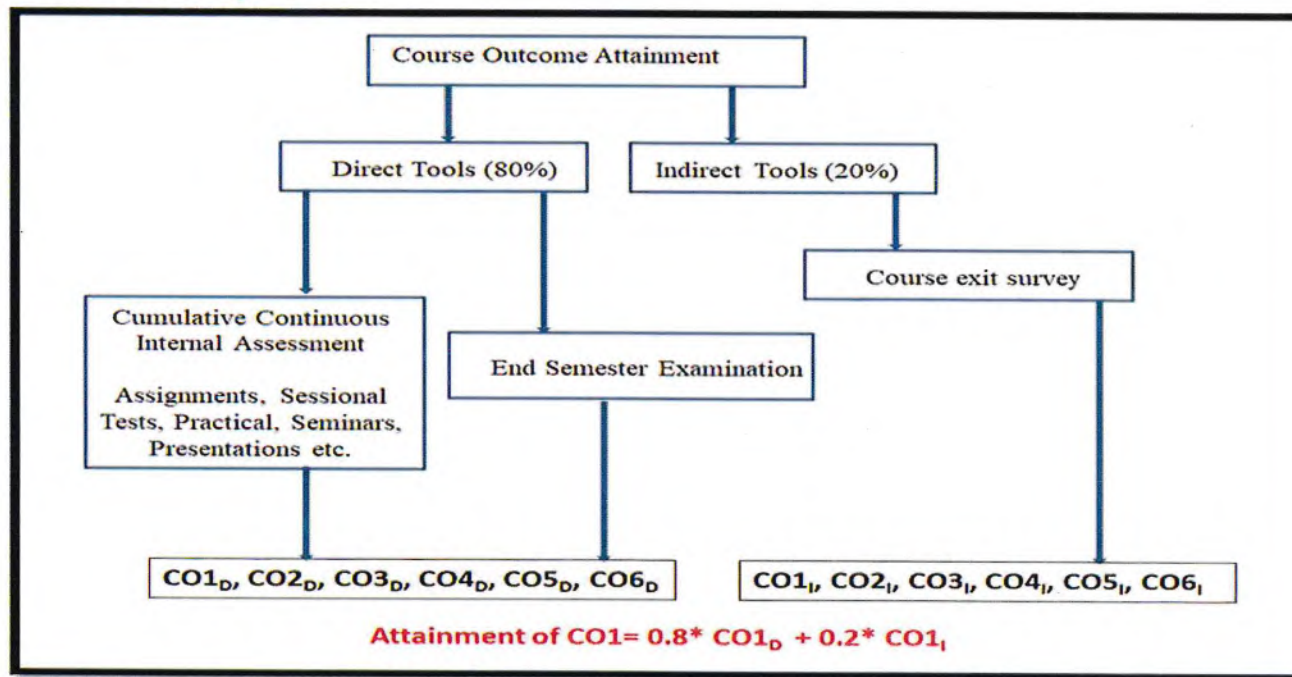
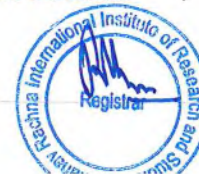


Figure 7.1: Assessment tools for Attainment of Course Outcomes

Vinay



7.1.2 Tools for PO/PSO Attainment:

Both direct and indirect assessment tools shall be used for data collation. The weightage for direct and indirect methods fixed has been fixed as 80% and 20%, respectively. Direct tools include course outcome attainment levels/percentage. Indirect tools include 50% weightage for program exit survey and 50% weightage for alumni. The process followed for program outcome attainment is depicted in Figure 7.2.

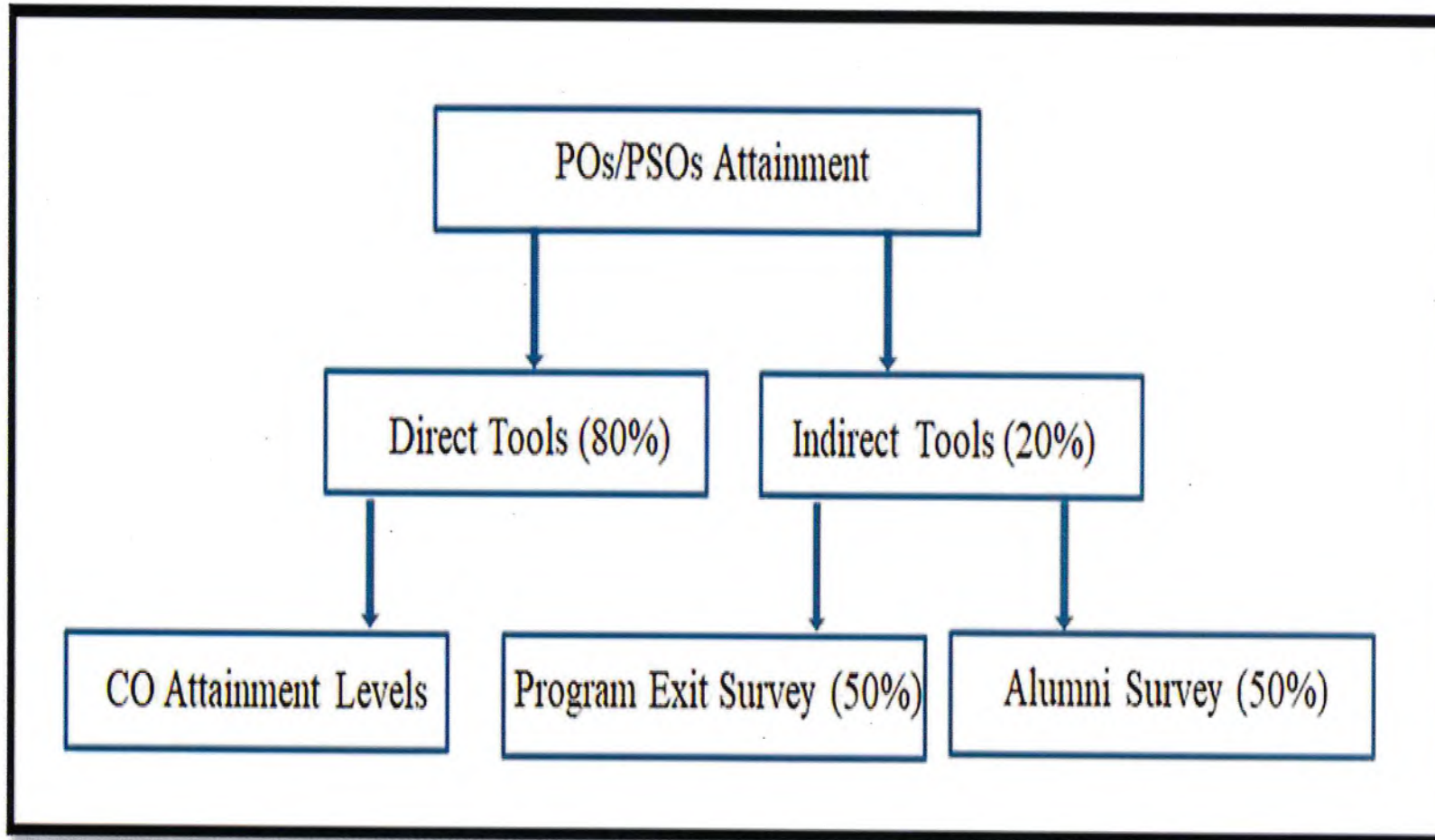


Figure 7.2: Assessment tools for Attainment of POs/PSOs

Umay



-
- For the POs/PSOs & COs attainment following activities are executed on the EMS at department end:
 - a. Adding PO/PSO statements (At the end of EMS coordinators)
 - b. Adding CO statements (At the end of concern Course faculty) with PO/PSO mapping
 - c. COs & POs/PSOs mapping report
 - d. Direct COs Attainment
 - e. Direct POs Attainment
 - f. Indirect COs Attainment
 - g. Indirect POs/PSOs Attainment
 - h. COs & POs Attainment Reports

Vinay



7.2. Adding PO/PSO statements:

- First Step is to add PO/PSO Statements in setting page of EMS module as shown in the figure.

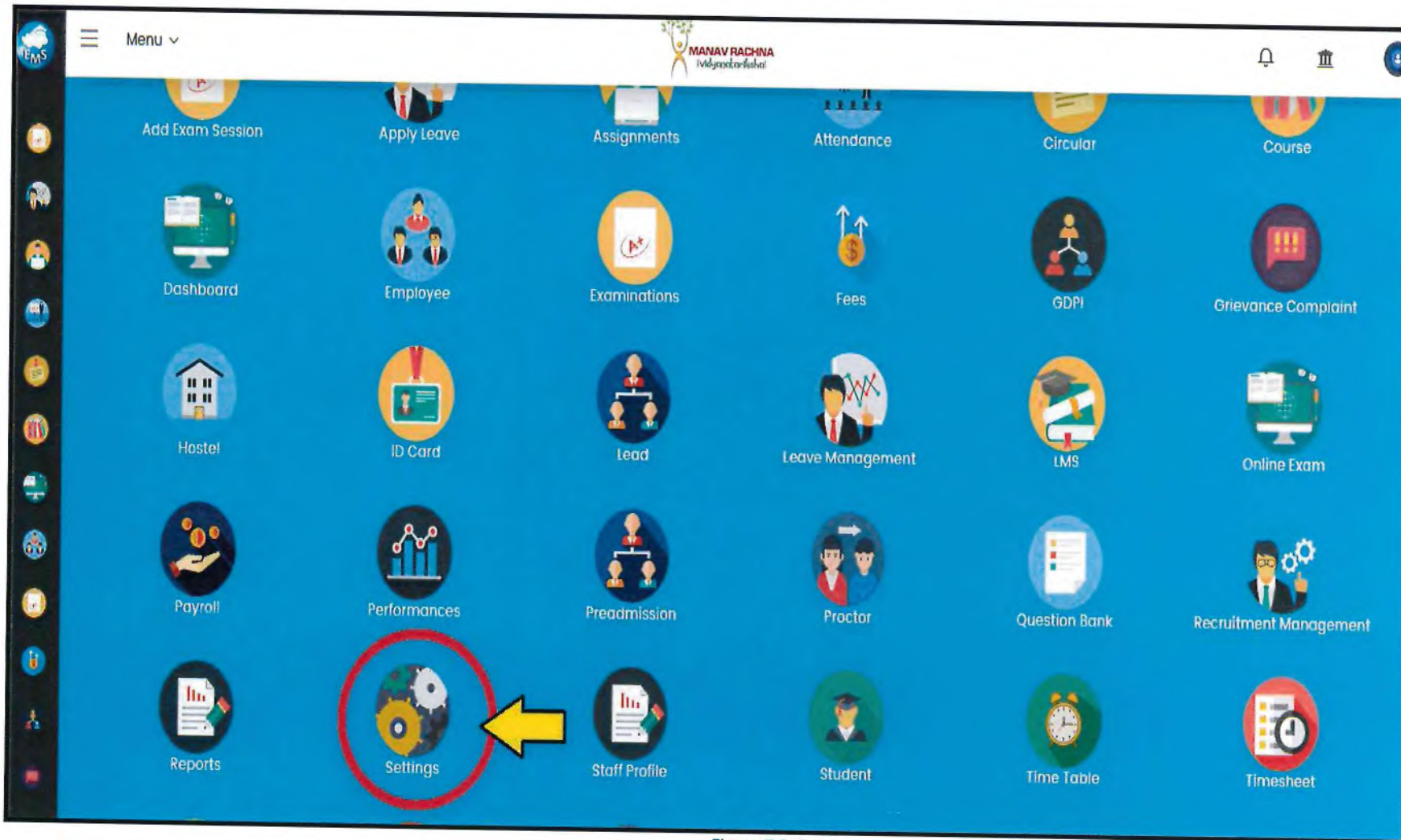


Figure 7.3: Setting

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- Go to CO-PO setup for adding PO/PSO statements.
- PO/PSO statements will be added by the EMS coordinator or head of the department

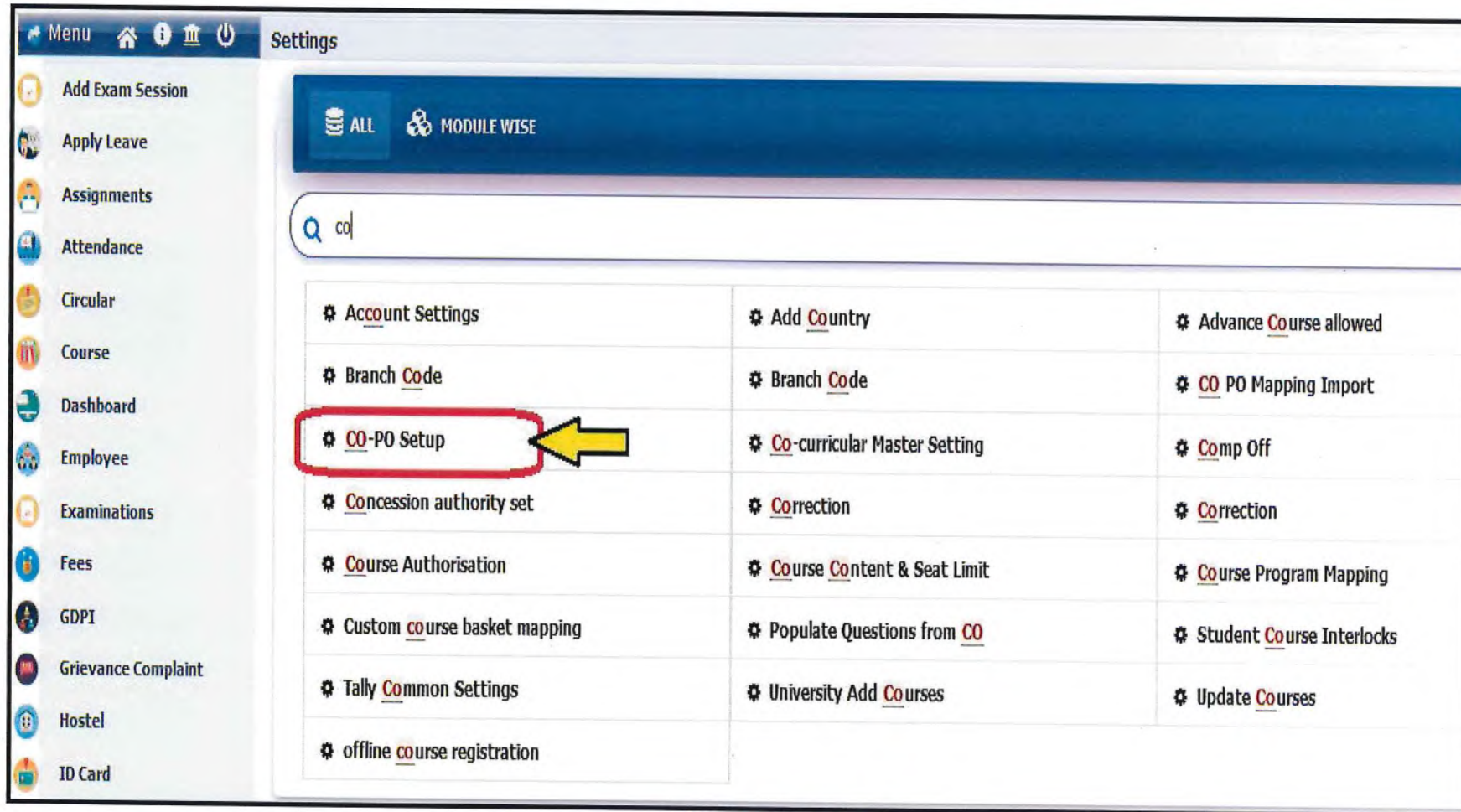


Figure 7.4: CO-PO Setup

Vinay



- Select the "Programs PO" for adding the PO/PSO statements.

MANAV RACHNA
Vidyaaravindeshal

Menu ▾

Settings ⚙️ Back

University Vision Mission

Graduate Attribute

Mapping Criteria

Programs PO

CO Statement

Questions to PO Mapping

GA to PO Mapping

PEO Mapping

University Vision Mission

Add +

Sr.no	Vision Statement	Mission Statement	Edit	Delete
1	Promoting international understanding through quality education	1. To inculcate spirit of Vasudhaiva Kutumbakam (the world is one family)	✎	🗑

Figure 7.5: Programs PO selection page

Vinay



- Fill all the parameters as per department and PO/PSO's details.

The screenshot shows a web application interface for adding PO/PSO details. The interface includes a sidebar with 'Settings' and 'Programs PO' highlighted. The main area shows a form with the following fields:

- Year: [Dropdown menu]
- Institutes/Branches: [-Select-] [Dropdown menu]
- Department: [-Select-] [Dropdown menu]
- Program: [-Select-] [Dropdown menu]
- Type: [-Select-] [Dropdown menu]
- GA Attributes: [-Select-] [Dropdown menu]
- No: [Text input field]
- Is PSO:
- Target %: Performance Tar [Text input field]
- Title: Short Title [Text input field]
- Statement: [Text input field]

An 'Add' button is located at the bottom of the form. Below the form is a table header with the following columns: Sr.No, No, Title, Statement, Type, / PSO, Target, GA Attribute, Edit, Delete.

Figure 7.6: Adding the PO/PSO's by filling all parameters

Vinay



- Select "Generic" for the Program outcomes and select "specific" for the program specific outcomes.

Programs PO

Year: 2020-2021 | Institutes/Branches: MRIIRS-Faculty of Engineering | Department: Department of Automobile E | Program: B.Tech. Automobile Engineeri

PO Type: **Generic** (Selected), -Select-, Generic, Specific

GA Attributes: GA-1 Scholarship: research, in | PO No: | Is PSO: | Target %: Performance Tar

PO Statement: PO Statement

Sr.No	PO No	PO Title	PO Statement	PO Type	PO / PSO	PO Target	GA Attribute
1	PO1	Engineering knowledge	Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems	Generic	PO	0	Scholarship: research, inquiry and lifelong learning
2	PO2	Problem analysis	Identify, formulate, research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences	Generic	PO	0	Scholarship: research, inquiry and lifelong learning
3	PO3	Design/development of solutions	Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the	Generic	PO	0	Scholarship: research, inquiry and lifelong learning

Figure 7.7: Specify the PO or PSO during adding the statements

Vinay



7.3. Adding CO statements:

After adding PO/PSO statements on EMS by the respective EMS coordinator, faculty members will map departmental PO/PSO to course statement as per their curriculum as shown in figures.

- Open setting page for adding the CO statements with PO/ PSO mapping.

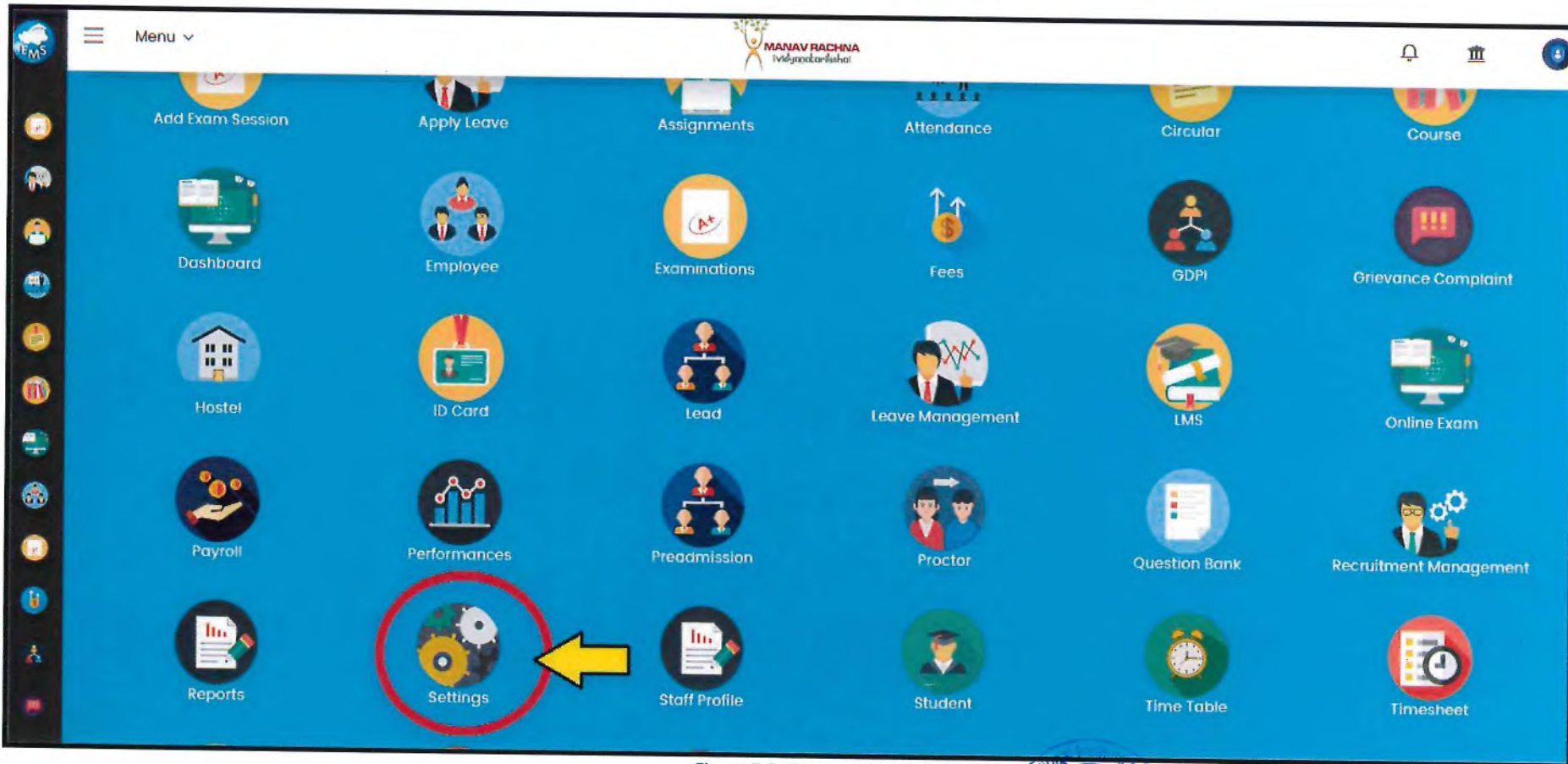


Figure 7.8: Open settings page

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- Select the "CO Statement" for adding the CO statement with PO/PSO mapping.

The screenshot shows a web application interface. On the left, there is a 'Settings' sidebar with a 'Back' button and several menu items: 'University Vision Mission', 'Graduate Attribute', 'Mapping Criteria', 'Programs PO', 'CO Statement', 'Questions to PO Mapping', 'GA to PO Mapping', 'PEO Mapping', and 'PO to PEO Mapping'. The 'CO Statement' item is highlighted with a red rectangle and a yellow arrow pointing to it. The main content area is titled 'University Vision Mission' and contains a table with the following data:

Sr.no	Vision Statement	Mission Statement	Edit	Delete
1	Promoting international understanding through quality education	1. To inculcate spirit of Vasudhaiva Kutumbakam (the world is one family)		

Figure 7.9: Go to CO Statement window

Vinay



- Fill all the filters as per department and concerned subject in the department.

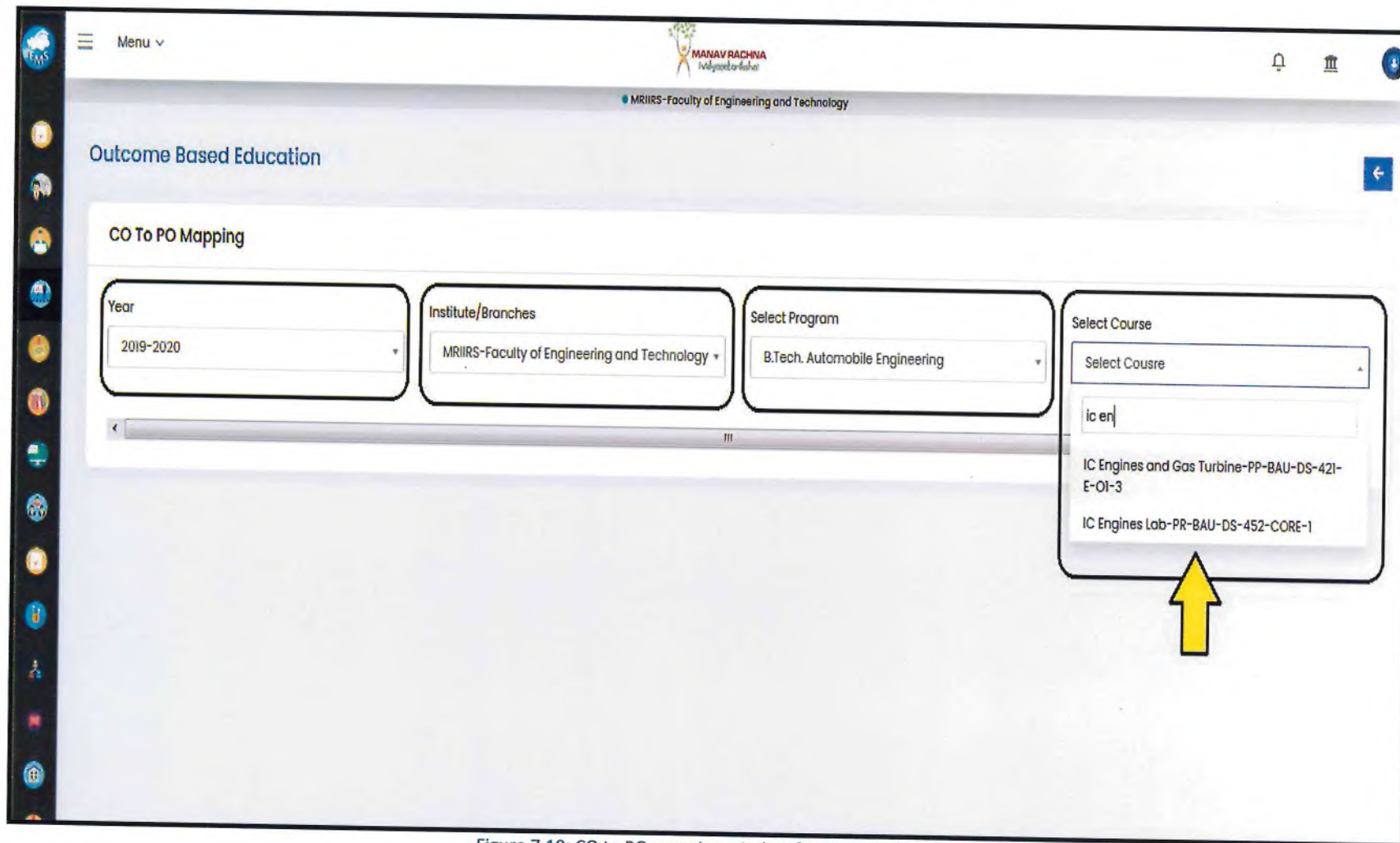


Figure 7.10: CO to PO mapping window for CO & PO/PSO's mapping

Vinay

- Select "view more details" for adding the CO statements.

Subject: IC Engines and Gas Turbine-PP-BAU-DS-421-3 **Basket:** E-O1

Indirect Assessment: 0.00

*Note:-Faculty members teaching the course are expected to conduct a student survey capturing perception of students on their ability to perform on the CO's of the course. The aggregated performance in terms of percentage should be entered here.

CO	Statement	Performance standard(Set Target)%	Action
CO1	Students will able to understand and derive thermodynamic...	60	View More Details
CO2	Student will be able to learn the fundamental operation of C...	60	View More Details
CO3	Student will be able to learn the complex interactions in SI-e...	60	View More Details
CO4	Student will study lubricants and Cooling Systems, its proper...	60	View More Details
CO5	To equip students with broad based knowledge to support p...	60	View More Details
CO6	Student will be able to understand and acquire knowledge o...	60	View More Details

Figure 7.11: Add all CO statements individually

- Fill the CO statement in the given box and then fill the target value.
- Map the PO/PSO as per curriculum (Select Strong for 3, Moderate for 2 and 1 for weak)
- If CO is not mapped to PO/PSO then please do not select any parameter from the dropdown.

Umay



CO1 - Subject IC Engines and Gas Turbine-PP-BAU-DS-421-3 Basket :E-O1

CO Statement
 Students will be able to understand and derive thermodynamic relations, and apply the basic principles of Thermodynamics for finding engine efficiencies

Performance standard(Set Target) %
 60

PO Mapping

PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PO13	PO14	PO15
Strong-H	Strong-H	Strong-H	Strong-H	Weak-L	Strong-H	-select-	-select-	Moderat	-select-	-select-	Strong-H	-select-	Strong-H	-select-

Submit

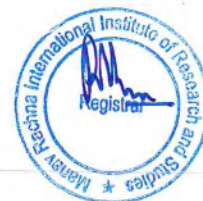
CO4
 Student will study lubricants and Cooling Systems, its proper...

CO5
 To equip students with broad based knowledge to support p...

CO6
 Student will be able to understand and acquire knowledge o...

Figure 7.12: CO statement with setting target and PO/PSO mapping

Utkay



- Similarly add all the CO statements with the PO/PSO mapping.

Subject: IC Engines and Gas Turbine-PP-BAU-DS-421-3 **Basket:** E-O1

Indirect Assessment: 0.00

*Note:-Faculty members teaching the course are expected to conduct a student survey capturing perception of students on their ability to perform on the CO's of the course. The aggregated performance in terms of percentage should be entered here.

<p>CO1</p> <p>Students will able to understand and derive thermodynamic relations, and a...</p> <p>Performance standard(Set Target)% 60</p> <p>View More Details</p>	<p>CO2</p> <p>Student will be able to learn the fundamental operation of Carburetion, Fuel L...</p> <p>Performance standard(Set Target)% 60</p> <p>View More Details</p>	<p>CO3</p> <p>Student will be able to learn the complex interactions in SI-engines and CI-e...</p> <p>Performance standard(Set Target)% 60</p> <p>View More Details</p>
<p>CO4</p> <p>Student will study lubricants and Cooling Systems, its properties and its imp...</p> <p>Performance standard(Set Target)% 60</p> <p>View More Details</p>	<p>CO5</p> <p>To equip students with broad based knowledge to support problem solving ...</p> <p>Performance standard(Set Target)% 60</p> <p>View More Details</p>	<p>CO6</p> <p>Student will be able to understand and acquire knowledge of Gas Turbine Pa...</p> <p>Performance standard(Set Target)% 60</p> <p>View More Details</p>

Figure 7.13: Added CO statements for a course

Vinay



7. 4. CO & PO mapping report: -

- CO & PO/PSO statements checking rights have been provided to all faculty members for checking their course statements and PO/PSO mappings with course statements.

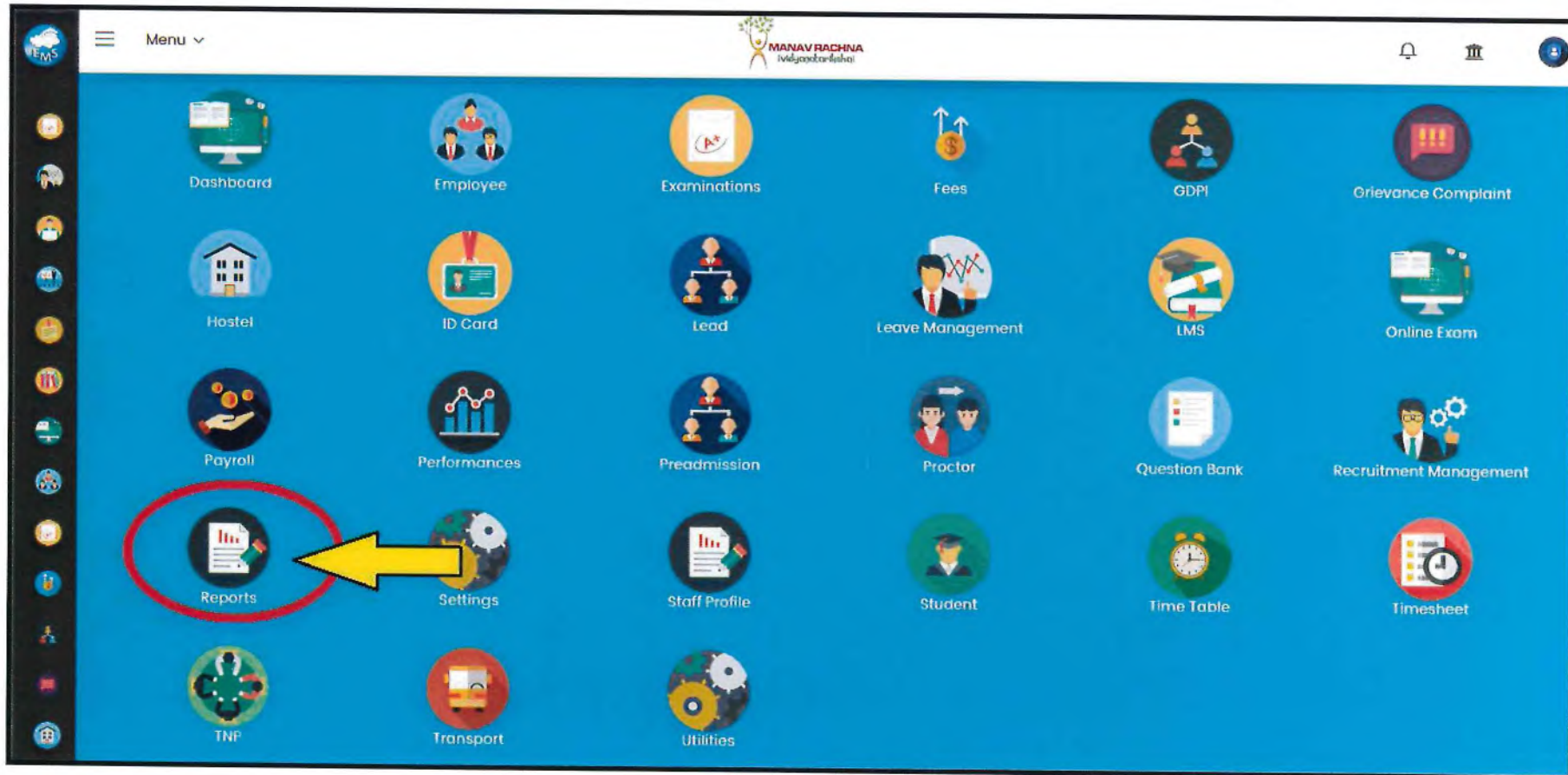


Figure 7.14: Report Page

Vinay



- Go to CO PO reports to check the CO & PO/PSO statements and PO/PSO mapping.

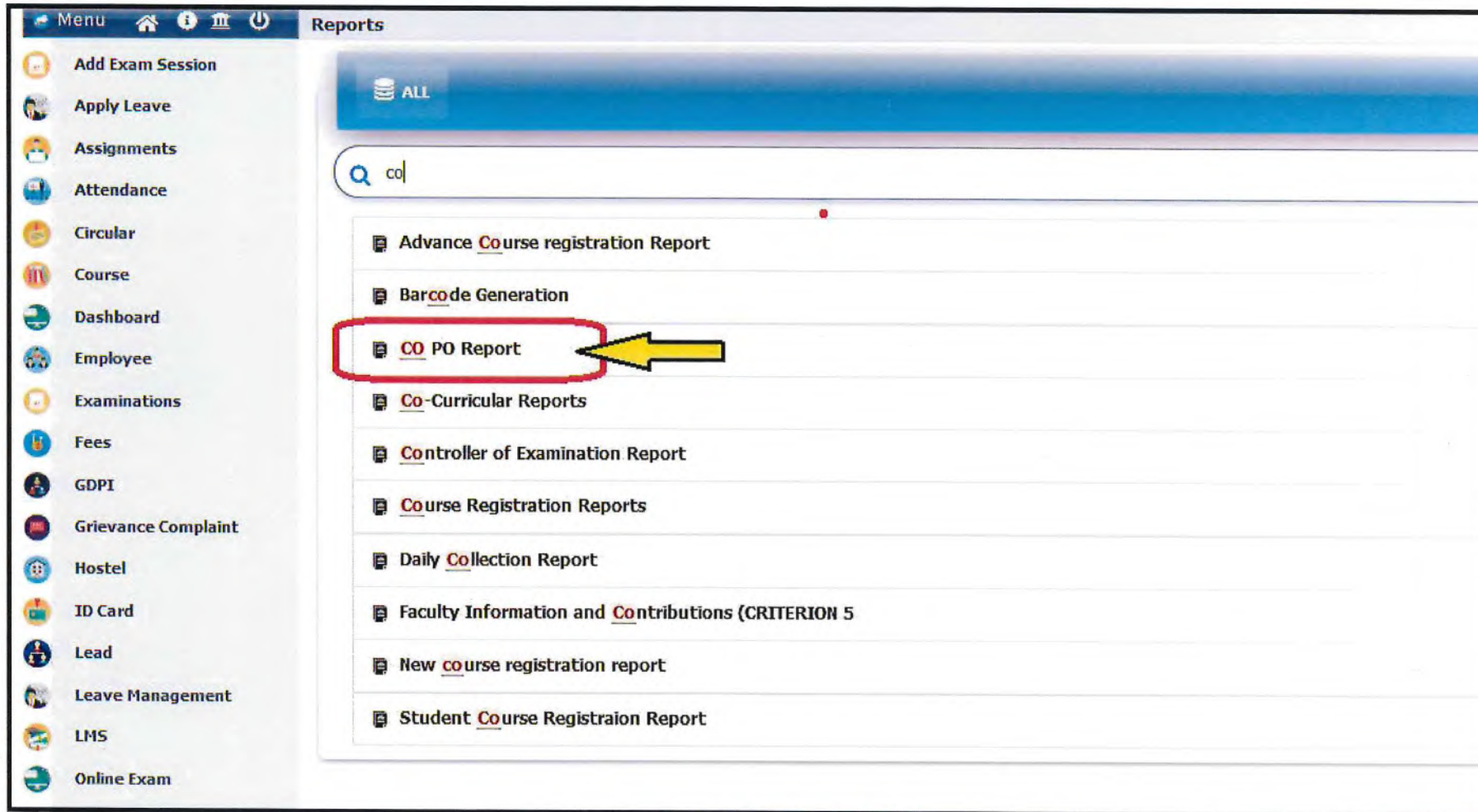


Figure 7.15: Open CO PO report

Umay



- Select CO PO mapping report and fill all the filters as per program and session.

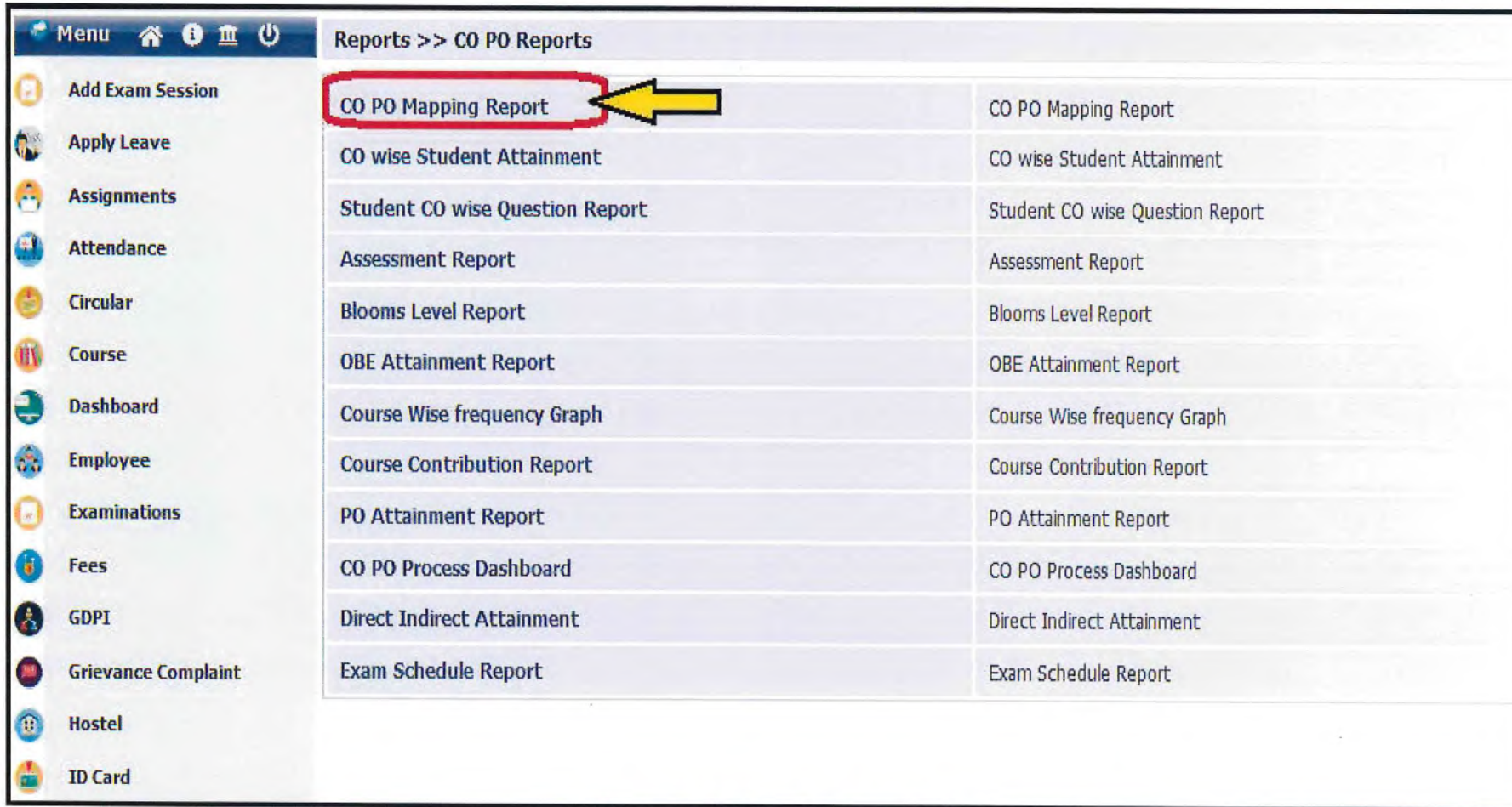


Figure 7.16: Open CO PO mapping report

Umay



Menu Home Reports CO PO Reports CO PO Mapping Report

CO PO Mapping Report

Academic Year : 2019-2020

Inactive Program : Check if you want to show inactive programmes list.

Institute/ Branch : MRIIRS-Faculty of Engineering and Technology

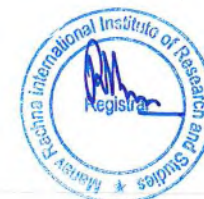
Programme : B.Tech. Automobile Engineering

Extra Curriculum / Value Added : Check if you want to display value added courses in the report.

SUBMIT RESET

Figure 7.17: Parameters for fetching the CO PO mapping report

Umay



Sr. No.	GA No.	Graduate Attributes	PO No.	Programme Outcomes
1	GA1	Scholarship: research, inquiry and lifelong learning	PO1	Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems
2	GA1	Scholarship: research, inquiry and lifelong learning	PO2	Identify, formulate, research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences
3	GA1	Scholarship: research, inquiry and lifelong learning	PO3	Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations
4	GA1	Scholarship: research, inquiry and lifelong learning	PO4	Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions
5	GA1	Scholarship: research, inquiry and lifelong learning	PO5	Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations
6	GA1	Scholarship: research, inquiry and lifelong learning	PO6	Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice
7	GA1	Scholarship: research, inquiry and lifelong learning	PO7	Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development
8	GA1	Scholarship: research, inquiry and lifelong learning	PO8	Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice
9	GA1	Scholarship: research, inquiry and lifelong learning	PO9	Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings
10	GA1	Scholarship: research, inquiry and lifelong learning	PO10	Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions
11	GA1	Scholarship: research, inquiry and lifelong learning	PO11	Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments
12	GA1	Scholarship: research, inquiry and lifelong learning	PO12	Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change
13	GA1	Scholarship: research, inquiry and	PO13	Students will be able to design, analyze and build virtual and real models of vehicle and its components, and conduct testing in product development environments through applied computer

Figure 7.18: PO/PSO statements in CO PO mapping report

Umay



Show All entries Search:

Sr. No.	Semester	Institute Course Code	Catalog Course Code	Title	Target	Course Outcome No	Course Outcome Statement	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
1	Sem 1	BEE-101-PP		basic electrical engineering	50	CO1	describe the basic electrical laws, theorems, components of electrical system, power converters, earthing and working of batteries.	Strong-H	Strong-H	Moderate-M	Weak-L	Moderate-M	-	-	-
1					50	CO2	apply the theorems and laws for solving both dc and ac networks.	Strong-H	Strong-H	Moderate-M	Weak-L	Moderate-M	-	-	-
1					50	CO3	differentiate single phase and three phase system.	Strong-H	Strong-H	Moderate-M	Weak-L	Moderate-M	-	-	-
1					50	CO4	explain the construction and working of transformers and electrical machines.	Strong-H	Strong-H	Moderate-M	Weak-L	Moderate-M	-	-	-
1					50	CO5	analyze and compare the concepts of dc and ac machines	Strong-H	Strong-H	Moderate-M	Weak-L	Moderate-M	-	-	-
2	Sem 1	BEE-151-PR		basic electrical engg lab	80	CO1	understand the basic electrical laws, theorems and their applications to the D.C and A.C networks	Strong-H	Strong-H	Moderate-M	Weak-L	Moderate-M	-	-	-
2					80	CO2	know the basic concepts of three phase system	Strong-H	Strong-H	Moderate-M	Weak-L	Moderate-M	-	-	-
2					80	CO3	understand the construction and working of transformers	Strong-H	Strong-H	Moderate-M	Weak-L	Moderate-M	-	-	-
2					80	CO4	study the working principles of electric machines and power converters	Strong-H	Strong-H	Moderate-M	Weak-L	Moderate-M	-	-	-

Figure 7.19: Parameters for fetching the CO PO mapping report

Umay



7.5. Direct Attainment of COs: -

Each theory and practical course have internal as well as external assessment covering the following parameters with the CO mapping by uploading the excel sheet on EMS:

- Teacher's assessment: This includes assignments, tutorials, quiz, viva voce and lab report for practical courses etc.
- Sessional Test-1 and 2.
- End semester examination
- Technical Seminars, Colloquium and Projects
- Industrial Training: Assessment of training primarily includes feedback from the industry mentor and in-house faculty mentor. Presentations shall also be organized to assess the performance.
- Course Rubrics: These course specific evaluation charts shall be prepared by the course coordinators to assess student's performance consistently for CO and subsequent PO attainment analysis for lab courses, projects, colloquium, industrial training, etc. The scores (1, 2, 3, 4) would be awarded on the basis of their 'unsatisfactory', 'developing', 'satisfactory', and 'exemplary' performance in respective attributes. For students having scores less than or equal to 2, a subsequent action shall be initiated by the respective course instructor.

Umay



7.5.1 Adding Marks with CO mapping:-

- Performance window is used for adding the marks and for applying the marks measuring parameters like average, best of two/three and scale of zero etc.



Figure 7.20: Open Performance Window

Umay



- Open performance window and select the 'Question wise import marks' from the dropdown in menu as shown in the figure:

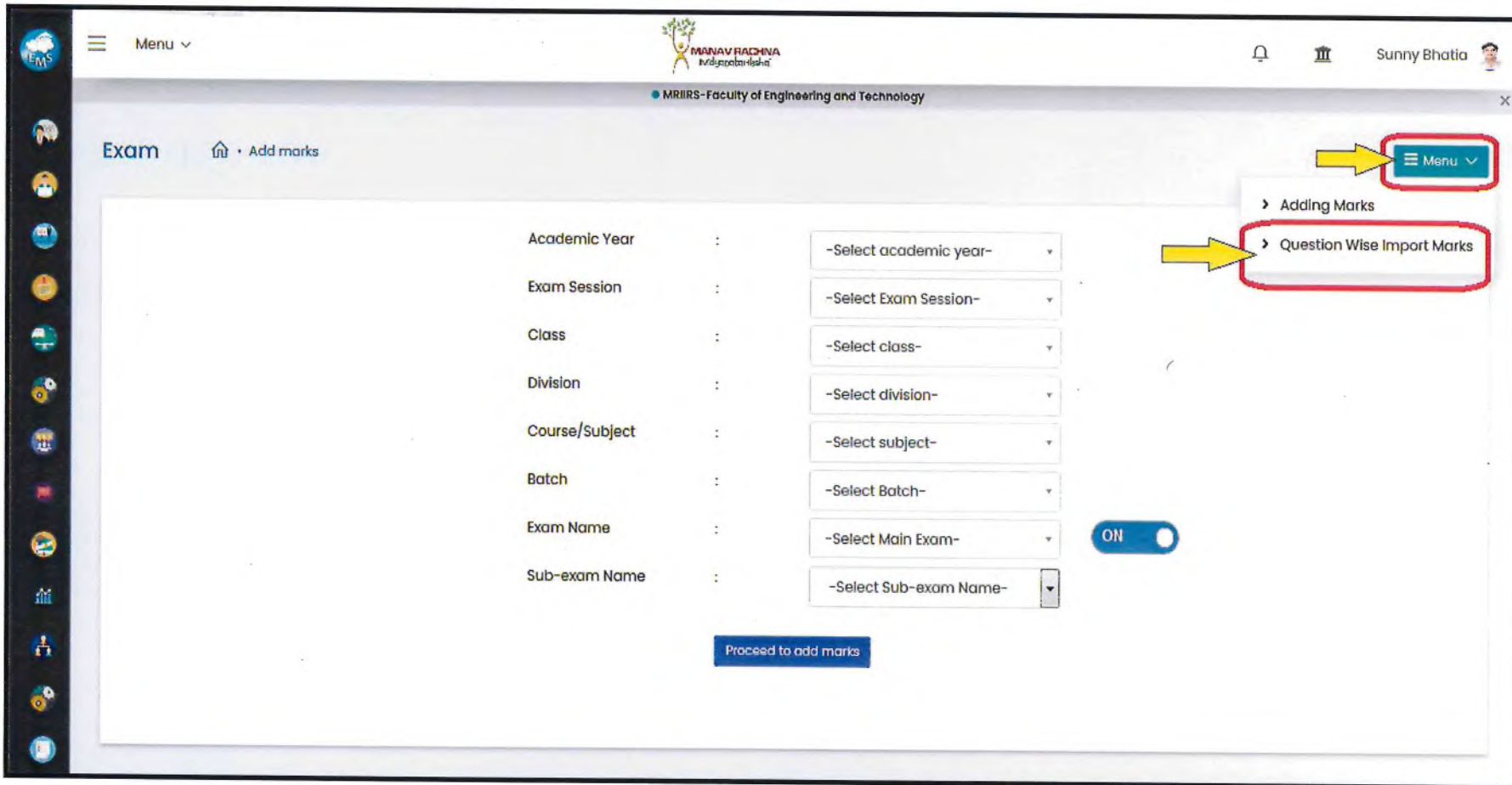
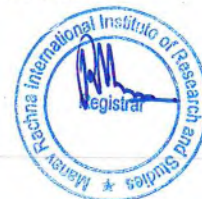


Figure 7.21: Question wise import marks from the menu

Vinay



- Select parameters from the dropdown as per course and department details. All parameters are shown in figure for importing the excel file with CO mapping.

The screenshot displays a web application interface for 'Question Wise Marks Import'. The page title is 'Exam' and the breadcrumb trail is 'Performance > Question Wise Marks Import'. The user is logged in as 'Sunny Bhatia'. The main content area is titled 'Select Parameters to Import Marks' and contains the following fields:

- Academic Year**: 2020-2021
- Select Branch**: Select
- Select the Class**: -Select Class- x
- Select Course**: Select
- Select the Exam Type**: Select
- Select the Sub Exam Type**: Select
- Select the Sub Exam Type No**: Select


A 'Cancel' button is located below the fields. At the bottom, there is a note: 'Scroll-down/Click to view scheduled exams list'.

Figure 7.22: Schedule Creation parameters for downloading excel sheet for CO mapping

Vinay



- Select the exam type as per internal or external parameters.
- Internal parameters include Sessional-1, Sessional-2, Assignments and Rubrics etc. in which CO mapping will be done by downloading the excel sheet.

EMS Menu  Sunny Bhatia

Exam Performance > Question Wise Marks Import

Select Parameters to Import Marks

Academic Year : 2019-2020

Select Branch : MRIIRS-Faculty of Engineering and Technology

Select the Class : B.Tech. Automobile-Sem 4 4AUA

Select Course : IC Engines and Gas Turbine - PP - BAU-DS-421-5000183

Select the Exam Type : Select ExamType

Select the Sub Exam Type :

Select the Sub Exam Type No :

INTERNAL EXAM

EXTERNAL EXAM

Scroll-down/Click to view scheduled exams list

Figure 7.23: Selection of Exam type

Umay



- Similarly, Select 'Exam type' from the dropdown as 'External Exam' which includes end semester exam as per even and odd sem.

The screenshot displays the 'Exam' interface with the following parameters:

- Academic Year:** 2019-2020
- Select Branch:** MRIIRS-Faculty of Engineering and Technology
- Select the Class:** B.Tech. Automobile-Sem 4
- Select Course:** IC Engines and Gas Turbine - PP - BAU-DS-42I-5000183
- Select the Exam Type:** EXTERNAL EXAM
- Select the Sub Exam Type:** Select
- Select the Sub Exam Type No:** 2019-20FET-Reappear-2020, Main End Semester Exam - Odd, Main End Semester Exam - Even, MRRIS-FOE-Fall 2020-2021

Figure 7.24: External Exam Type and Sub Exam Types

Vinay



- Select the sub exam type from the dropdown of 'Select the Sub Exam Type'.

EMS

Menu ▾

MANAV RACHNA
[विद्यया ऽमृतमश्नुते]

Sunny Bhatia

Select Parameters to Import Marks

Academic Year : 2019-2020

Select Branch : MRIIRS-Faculty of Engineering and Technology

Select the Class : B.Tech. Automobile-Sem 4 4AUA

Select Course : IC Engines and Gas Turbine - PP - BAU-DS-42I-5000183

Select the Exam Type : INTERNAL EXAM

Select the Sub Exam Type : Select

Select the Sub Exam Type No :

Scroll-down/Click to view

Scheduled

SESSIONAL I

SESSIONAL II

ATTENDANCE

ASSIGNMENT

CLASS PERFORMANCE

Figure 7.25: Internal Exam Type and Sub Exam Types

Vinay F



- Sub Exam type no. are given in the dropdown to create a schedule after selecting anyone of the sub type no. Select sub type no. after selecting the sub exam type.

EMS Menu MANAV RACHNA Vidyaanandkhal Sunny Bhatia

Select Parameters to Import Marks

Academic Year : 2019-2020

Select Branch : MRIIRS-Faculty of Engineering and Technology

Select the Class : B.Tech. Automobile-Sem 4 4AUA

Select Course : IC Engines and Gas Turbine - PP - BAU-DS-421-5000183

Select the Exam Type : INTERNAL EXAM

Select the Sub Exam Type : SESSIONAL I

Select the Sub Exam Type No :
-Select-
-Select-
SESSIONAL I 1
SESSIONAL I 2
SESSIONAL I 3

Scroll-down/Click to view available exams.

Figure 7.26: Sub Exam Type No

Vinay



- Create a schedule after filling all the parameters in the given boxes. Now click on 'Schedule' as shown in the figure

The screenshot shows a web application interface for scheduling an exam. The header includes a logo for 'MANAV RACHNA' and the user name 'Sunny Bhatia'. The main content area is titled 'Select Parameters to Import Marks' and contains several dropdown menus for selecting exam parameters:

- Academic Year : 2019-2020
- Select Branch : MRIIRS-Faculty of Engineering and Technology
- Select the Class : B.Tech. Automobile-Sem 4
- Select Course : IC Engines and Gas Turbine - PP - BAU-DS-421-5000183
- Select the Exam Type : INTERNAL EXAM
- Select the Sub Exam Type : SESSIONAL I
- Select the Sub Exam Type No : SESSIONAL I 2

At the bottom of the form, there is a 'Cancel' button and a 'Schedule' button. The 'Schedule' button is highlighted with a red box and a yellow arrow pointing to it. Below the form, there is a blue banner with the text 'Please schedule exam for this subject to import marks , click here to schedule' and a 'Schedule' button.

Figure 7.27: Create Schedule by clicking on schedule

Manav



- After click on 'Schedule', This page will popup and fill all mandatory parameters on this page like maximum marks, passing percentage, date and timing. Now submit the page by clicking on the 'Schedule'.

Exam Schedule

Year: 2019-2020 **Class:** B.Tech. Automobile-Sem 4 **Division:** 4AUA
Exam Type: INTERNAL EXAM **Sub Exam Type:** SESSIONAL I **Sub Exam Type No:** SESSIONAL I 2
Subject:
IC Engines and Gas Turbine - PP - BAU-DS-421-5000183

Max Marks * 30 **Passing Percentage *** 40 **Regular Fee** Fee Amount
Question Paper Select Question Paper **Multiple Dates ?** **Date *** 09 / 11 / 2019
Start Time * 10:00 AM **End Time *** 11:30 AM **Faculty Incharge** Vinay -5000440
(Employee list from selected class branch)

Schedule **Close**

Please schedule exam for this subject to import marks , click here to schedule **Schedule**

Figure 7.28: Exam Schedule Creation Window

- Now 'Submit' tab is active after creating the schedule and click on this submit tab as shown in the figure:



Menu ▾

MRIIRS-Faculty of Engineering and Technology

Exam

Performance • Question Wise Marks Import

Select Parameters to Import Marks

Academic Year : 2019-2020

Select Branch : MRIIRS-Faculty of Engineering and Technology

Select the Class : B.Tech. Automobile-Sem 4 x 4AUA

Select Course : IC Engines and Gas Turbine - PP - BAU-DS-421-5000183

Select the Exam Type : INTERNAL EXAM

Select the Sub Exam Type : SESSIONAL I

Select the Sub Exam Type No : SESSIONAL I 1

Submit Cancel

Figure 7.29: Submit After Schedule Creation

Vinay



- After submitting, a page will pop up through which faculty will download the excel file and able to add marks with CO mapping on the same file.
- Download excel format is available on this window.
- Import excel file after adding marks and CO mapping by click on the 'Browse' and then click on import the file to import excel sheet.

The screenshot displays the 'Import Excel for Evaluation Marks' page in the EXMS system. At the top, there is a navigation menu with 'Menu' and a user profile for 'Sunny Bhatia'. The main content area includes an information box with instructions for marking, such as 'Put "AB" for Absent student in Obtained Marks column' and 'Do not put "-" in any cell. Instead put a "0"'. Below this, exam details are listed: Exam Type (INTERNAL EXAM), Class (B.Tech. Automobile-Sem 4), Section / Division (4AUA), Name of the exam (SESSIONAL I), Date of Exam (2020-03-08), Sub Exam Type No (SESSIONAL I1), and Name of the subject (IC Engines and Gas Turbine - PP - BAU-DS-421-50001). At the bottom, there is an 'Excel File' field with a 'Browse...' button and the text 'No file selected.'. Two buttons are present: 'Import Marks' and 'Download Excel Format', with the latter being highlighted by a red box and a yellow arrow pointing to it.

Figure 7.30: Download excel Format for Marks Uploading

- Downloaded Excel format for adding marks with CO and Blooms level.
- Add question no. in 'Label', fill maximum marks and question type (Optional or mandatory)

1	Roll No	Admission No	Name	Sub-Code	Subject Name	Lecture Type	Exam Name	Attributes	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9
2								Label									
3								CO1									
4								CO2									
5								CO3									
6								CO4									
7								CO5									
8								CO6									
9								Max_marks									
10								Question Type									
11								Optional Question For This									
12								Blooms Level									
13	1/18/FET/BAU/001	11801002N5120	Akhil Raj	BAU-DS-421	IC Engines and Gas Turbine	PP	SESSIONAL I										
14	1/18/FET/BAU/002	11801002N5121	Nanak Jhamb	BAU-DS-421	IC Engines and Gas Turbine	PP	SESSIONAL I										
15	1/18/FET/BAU/003	11801002N5122	Rishab Dhawan	BAU-DS-421	IC Engines and Gas Turbine	PP	SESSIONAL I										
16	1/18/FET/BAU/004	11801002N5123	Sachin Singh	BAU-DS-421	IC Engines and Gas Turbine	PP	SESSIONAL I										
17	1/18/FET/BAU/005	11801002N5124	Chirag D Ghumare	BAU-DS-421	IC Engines and Gas Turbine	PP	SESSIONAL I										
18	1/18/FET/BAU/007	11801002N5127	Anubhav Batra	BAU-DS-421	IC Engines and Gas Turbine	PP	SESSIONAL I										
19	1/18/FET/BAU/008	11801002N5128	Dhruv Gulati	BAU-DS-421	IC Engines and Gas Turbine	PP	SESSIONAL I										
20	1/18/FET/BAU/009	11801002N5129	Chirag Gupta	BAU-DS-421	IC Engines and Gas Turbine	PP	SESSIONAL I										
21	1/18/FET/BAU/010	11801002N5130	Harsh Gupta	BAU-DS-421	IC Engines and Gas Turbine	PP	SESSIONAL I										
22	1/18/FET/BAU/011	11801002N5131	Tushar Ahalawat	BAU-DS-421	IC Engines and Gas Turbine	PP	SESSIONAL I										
23	1/18/FET/BAU/012	11801002N5132	Abhishek Mangla	BAU-DS-421	IC Engines and Gas Turbine	PP	SESSIONAL I										
24	1/18/FET/BAU/013	11801002N5133	Vansh Pradhan	BAU-DS-421	IC Engines and Gas Turbine	PP	SESSIONAL I										
25	1/18/FET/BAU/015	11801002N5135	Sagar Bansal	BAU-DS-421	IC Engines and Gas Turbine	PP	SESSIONAL I										
26	19/FET/AU(L)/001	11901002L11620	MOHD MIZANOOOR	BAU-DS-421	IC Engines and Gas Turbine	PP	SESSIONAL I										
27	19/FET/AU(L)/002	11901002L11621	Nikhil Singh	BAU-DS-421	IC Engines and Gas Turbine	PP	SESSIONAL I										
28																	

Figure 7.31: Excel Sheet Format

Umay



- Filled sample excel sheet as per CO mapping and other details.

Roll No	Admission No	Name	Sub-Code	Subject Name	Lecture Type	Exam Name	Attribute Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13
1/18/FET/BAU/001	11801002N5120	Akhil Raj	BAU-DS-421	IC Engines an PP	SESSIONAL II		1	1	1	0	1	0	1	1	1	0	6	8	L4
1/18/FET/BAU/002	11801002N5121	Nanak Jhamb	BAU-DS-421	IC Engines an PP	SESSIONAL II		1	1	1	1	1	0	1	1	1	0		10	9
1/18/FET/BAU/003	11801002N5122	Rishab Dhawan	BAU-DS-421	IC Engines an PP	SESSIONAL II		1	1	1	0	1	0	1	1	1	0		8	10
1/18/FET/BAU/004	11801002N5123	Sachin Singh	BAU-DS-421	IC Engines an PP	SESSIONAL II		1	1	1	0	1	0	1	1	1	0	6		10
1/18/FET/BAU/005	11801002N5124	Chirag D Ghumare	BAU-DS-421	IC Engines an PP	SESSIONAL II		1	1	1	0	1	0	1	1	1	0	8		5
1/18/FET/BAU/007	11801002N5127	Anubhav Batra	BAU-DS-421	IC Engines an PP	SESSIONAL II		1	1	1	0	1	0	0	1	1	0			8
1/18/FET/BAU/008	11801002N5128	Dhruv Gulati	BAU-DS-421	IC Engines an PP	SESSIONAL II		1	1	1	0	1	0	1	1	1	0			10
1/18/FET/BAU/009	11801002N5129	Chirag Gupta	BAU-DS-421	IC Engines an PP	SESSIONAL II		1	1	1	0	1	0	1	1	1	0	9	8	
1/18/FET/BAU/010	11801002N5130	Harsh Gupta	BAU-DS-421	IC Engines an PP	SESSIONAL II		1	1	1	0	1	1	1	1	1	0	6		8
1/18/FET/BAU/011	11801002N5131	Tushar Ahalawat	BAU-DS-421	IC Engines an PP	SESSIONAL II		1	1	1	0	1	0	1	1	1	0	8	7	
1/18/FET/BAU/012	11801002N5132	Abhishek Mangla	BAU-DS-421	IC Engines an PP	SESSIONAL II		1	1	1	0	1	0	1	1	1	0		9	9
1/18/FET/BAU/013	11801002N5133	Vansh Pradhan	BAU-DS-421	IC Engines an PP	SESSIONAL II		1	1	1	0	1	0	1	1	1	0	8	8	
1/18/FET/BAU/015	11801002N5135	Sagar Bansal	BAU-DS-421	IC Engines an PP	SESSIONAL II		0	1	1	1	1	0	1	1	1	0	7	8	
19/FET/AU(L)/001	11901002L11620	MOHD MIZANNOOR	BAU-DS-421	IC Engines an PP	SESSIONAL II		1	1	1	0	1	0	1	1	1	0	7	9	
19/FET/AU(L)/002	11901002L11621	Nikhil Singh	BAU-DS-421	IC Engines an PP	SESSIONAL II		1	1	1	0	1	0	1	1	1	0	7	9	

Figure 7.32: Filled Sample of Excel Sheet



- Fill 'AB' in all column in place of marks for the student who is absent during the exam.
- Browse the filled excel sheet and then import marks on the same page as shown in the Figure 5.14

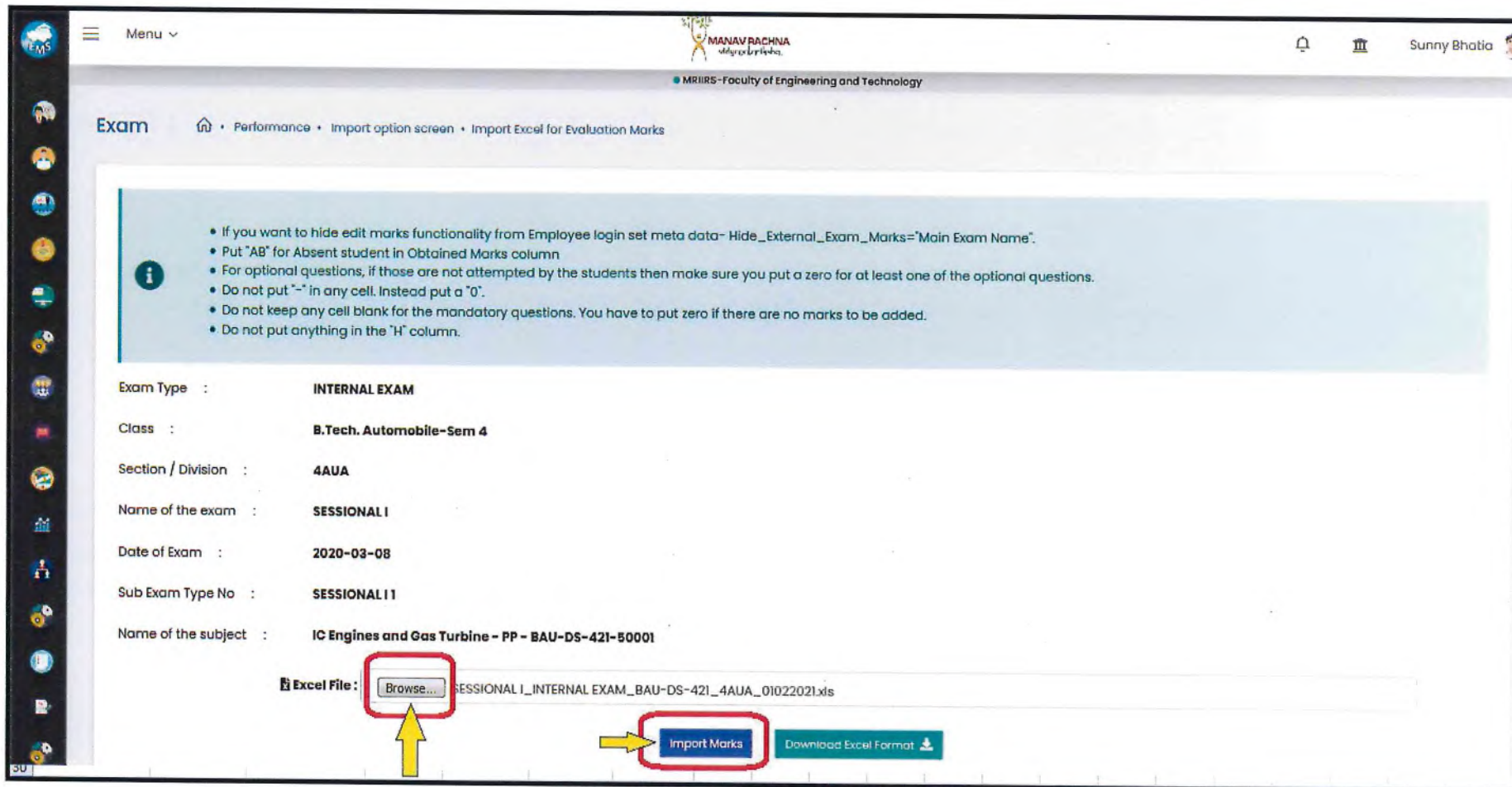


Figure 7.33: Browse and Import Excel Sheet Marks

- After importing the file, a page will open in which uploaded marks shown.

Umay



- At the end of this page 'Submit' tab is given to submit the marks after verification as shown in figure 5.15.

The screenshot shows a web application interface with a table of student records. The table has 13 columns and 4 rows of data. The columns represent various attributes of the students, including their ID, enrollment number, name, department, course, and exam details. At the bottom of the table, there are two buttons: 'Submit' and 'Cancel'. The 'Submit' button is highlighted with a red box, and a yellow arrow points to it from the left.

ID	Enrollment No.	Name	Department	Course	Exam Type	Session	Column 8	Column 9	Column 10	Column 11	Column 12	Column 13
12	1/18/FET/BAU/013	11801002N5133	Vansh Pradhan	BAU-DS-421	IC Engines and Gas Turbine	PP	SESSIONAL	1	1	1	0	1
13	1/18/FET/BAU/015	11801002N5135	Sagar Bansal	BAU-DS-421	IC Engines and Gas Turbine	PP	SESSIONAL	0	1	1	1	1
14	19/FET/AU(L)/001	11901002L11620	MOHD MIZANOOOR CHOWDHURY	BAU-DS-421	IC Engines and Gas Turbine	PP	SESSIONAL	1	1	1	0	1
15	19/FET/AU(L)/002	11901002L11621	Nikhil Singh	BAU-DS-421	IC Engines and Gas Turbine	PP	SESSIONAL	1	1	1	0	1

Figure 7.34: Submit Imported marks

Vinay



-
- Upload all the excel sheets by the similar methoDs as per course marks bifurcation:-
 - Sessional-1
 - Sessional-2
 - Assignments
 - End Semester Examination
 - Rubrics
 - View section is given to check all bifurcation parameters as shown in the figure 5.16.
 - Select the academic year as shown in the red highlighted box and select session on the same page and then search for the subject taught by the concern faculty.
 - Exam count and the view tabs are open for all the course taught by the faculty in a particular session as selected in the filters.
 - Exam count shows the no. of schedules created by the faculty to add marks.
 - All exam counts get opened by clicking on the 'view' as shown in the figure 5.16.

Vikram



Menu Sunny Bhatia

MANAV RACHNA
International Institute of Research and Studies

MRIIRS - Faculty of Engineering and Technology

Exam Performance Question Wise Marks Import

Select Parameters to Import Marks

Academic Year : 2020-2021

Select Branch : Select

Select the Class : -Select Class-

Select Course : Select

Select the Exam Type : Select

Select the Sub Exam Type : Select

Select the Sub Exam Type No : Select

Cancel

Scroll-down/Click to view scheduled exams list

Scheduled Exam List

Select Year: 2020-2021 Select Section: Select Branch: MRIIRS-Faculty of Engineering and Technology Search

Show 10 entries

PDF CSV Print Copy Excel

Sr. No.	Class	Semester	Division	Course Name	Allotment Type	Batch	Exam Count	Examination Details
1	B.Tech. Automobile	Sem 5	5AU	Mobility Design and Aesthetics-BAU-DS-634	PP	5AU_MDA	5	View
2	B.Tech. Automobile	Sem 7	7AU	Industrial Engineering-M-501B	PP	7AU-IE	5	View
3	B.Tech. Automobile	Sem 3	3AU	Research and Innovation Catalyst-I-RIC (E) -300	PR	3AU_PR	4	View
4	B.Tech. Automobile	Sem 7	7AU	Colloquium-AU-650	TUT	7AU_PR	3	View
5	Auto Alumni	Alumni	None	Colloquium-AU-650	TUT	PSC_COL	4	View
6	B.Tech. Automobile	Sem 4	4AU	IC Engines and Gas Turbine-BAU-DS-421	PP	ICGT_4AU_2019	0	View
7	B.Tech. Automobile	Sem 6	6AU	Auto Refrigeration and Air Conditioning-BAU-DS-641	PP	ARAC_6AU_2018	0	View
8	B.Tech. Automobile	Sem 8	8AU	Strength of Materials-M-403A	PP	SOM_PSC_2017	0	View

Figure 7.35: Browse Scheduled Exam List

Unay



- Click on 'view' to open all exam counts with examination details as shown in the figure:

Scheduled Exam List

Select Year: 2019-2020 Select Section: Select Branch: MRIRS-Faculty of Engineering and Technology Search

Show: All entries

PDF CSV Print Copy Excel

Search: _____

Sr. No.	Class	Semester	Division	Course Name	Allotment Type	Batch	Exam Count	Examination Details
1	B.Tech. Automobile	Sem 3	3AU	thermodynamics-BME-DS-302	PP	None	7	View
2	B.Tech. Automobile	Sem 3	3AU	thermodynamics-BME-DS-302	TUT	3AU_PR	0	View
3	B.Tech. Automobile	Sem 5	5AU	dynamics of machines-M-502A	PP	None	7	View
4	B.Tech. Automobile	Sem 5	5AU	simulation lab-M-512A	PR	5AU_PR	6	View
5	B.Tech. Automobile	Sem 5	5AU	dynamics of machines-M-502A	TUT	5AU_PR	0	View
6	B.Tech. Automobile	Sem 5	5AU	strength of materials lab-M-312	PR	PSC_SOMLAB	5	View
7	B.Tech. Automobile	Sem 7	7AU	industrial engineering-M-501B	PP	7AU_E	7	View
8	B.Tech. Automobile	Sem 4	4AUA	IC Engines Lab-BAU-DS-452	PR	4AU_PR	8	View
9	B.Tech. Automobile	Sem 8	8AUA	Project Phase-2-AU-700	PR	8AU_PR	3	View
10	B.Tech. Mechanical	Sem 8	8MA	AUTOMOBILE ENGINEERING LAB-M-AU12I	PR	8MA-1	6	View
11	B.Tech. Mechanical	Sem 8	8MA	AUTOMOBILE ENGINEERING LAB-M-AU12I	PR	8MA-2	6	View
12	B.Tech. Automobile	Sem 6	6AUA	Mobility Design & Aesthetics-AU-627	PP	6AUMDA	6	View
13	B.Tech. Automobile	Sem 4	4AUA	IC Engines and Gas Turbine-BAU-DS-421	PP	4AUICGT	6	View
14	B.Tech. Automobile	Sem 6	6AUA	Theory of Machines Lab-M-514	PR	PSC_Prakash	5	View
15	B.Tech. Automobile	Sem 8	8AUA	Refrigeration & Air-conditioning-M-821A	PP	PSC_JASKARAN	5	View
16	B.Tech. Automobile	Sem 6	6AUA	refrigeration and air conditioning-M-821A	PP	RAC_PSC	5	View

Showing 1 to 16 of 16 entries

Previous 1 Next

Figure 7.36: View for all Created Schedules

Vinay



- In Examination detail page, faculty can check all schedules, edit marks, delete marks and download the excel sheets.
- Faculty can freeze the marks after verification on the same page.

Examination Details

Freeze all exam

Sr.No	Subject	Exam Type	Exam Name	Exam Date	Sub Exam Type No	Edit Exam Schedule	Schedule & Marks Delete	Marks Delete	Marks Edit	Last Uploaded File	Exam Freeze
1	IC Engines and Gas Turbine	INTERNAL EXAM	ATTENDANCE	09/04/2020 -AM--AM;	ATTENDANCE 0	Edit	Delete	Delete	Edit Marks	📄	
2	IC Engines and Gas Turbine	INTERNAL EXAM	CLASS PERFORMANCE	09/04/2020 -AM--AM;	CLASS PERFORMANCE 0	Edit	Delete	Delete	Edit Marks	📄	
3	IC Engines and Gas Turbine - PP - BAU-DS-421-50001	INTERNAL EXAM	ASSIGNMENT	25/05/2021 9:00 AM-10:30 AM;	ASSIGNMENT 1	Edit	Delete	Delete	Edit Marks	📄	Freeze
4	IC Engines and Gas Turbine - PP - BAU-DS-421-50001	INTERNAL EXAM	SESSIONAL I	08/03/2020 9:00 AM-10:30	SESSIONAL 11	Edit	Delete	Delete	Edit Marks	📄	Freeze
5	B.Tech. Automobile	Sem 5	5AU	dynamics of machines-M-502A	TUT			5AU_PR	0		View
6	B.Tech. Automobile	Sem 5	5AU	strength of materials lab-M-312	PR			PSC_SOMLAB	5		View
7	B.Tech. Automobile	Sem 7	7AU	industrial engineering-M-501B	PP			7AU_IE	7		View

Figure 7.37: Course Schedules in Examination Details

Umay



- Again go to performance page and fill as the parameters as shown in the figure.
- Turn off the "on/off" tab for selecting all the exam counts. Then click on the 'Proceed to add marks'.

The screenshot displays the 'Exam' page in the MRIIRS Faculty of Engineering and Technology system. The page includes a navigation menu on the left and a main content area with a form for adding marks. The form fields are as follows:

Academic Year	:	2019-2020
Exam Session	:	-Select Exam Session-
Class	:	B.Tech. Automobile Sem 4
Division	:	4AUA
Course/Subject	:	BAU-DS-421 - IC Engines and ...
Batch	:	4AUCGT
Exam Name	:	INTERNAL EXAM
Sub-exam Name	:	ATTENDANCE CLASS PERFORMANCE ASSIGNMENT SESSIONAL I SESSIONAL II

Key UI elements highlighted in the image:

- A red box highlights the 'Proceed to add marks' button at the bottom of the form.
- A red box highlights the 'OFF' toggle switch next to the 'Exam Name' dropdown.
- Yellow arrows point to the 'OFF' toggle, the 'Sub-exam Name' dropdown, and the 'Proceed to add marks' button.

Figure 7.38: Open Uploaded marks in Performance Window

Umay 7



- All Exam parameters will get opened on the same page with marks and other details as per the sheets uploaded.
- Attendance, class performance, viva & file records marks are without CO mapping. Only schedule will get created for these parameters and marks may be added without downloading the excel sheet.

Academic Year: 2019-2020
Main Exam Name: INTERNAL EXAM
Class/Division: B.Tech. Automobile Sem 4 / 4AUA
Subject: BAU-06-421 - IC Engines and Gas Turbine- PP
Sub-Exam Name: ATTENDANCE / CLASS PERFORMANCE / ASSIGNMENT / SESSIONAL I / SESSIONAL II

Search by student rollno,exam sect,uname,etc

Instructions:
1) If the question paper mapped then question paper details will visible.
2) If question paper marks and total marks not same then total marks will not saved.
3) Please use values of:
I. Assent - 100
II. Mcqpractice - 200
III. Debar - 300

#Sr.No	Rollno	Sect No.	Student Name AUA	ATTENDANCE	CLASS PERFORMANCE	ASSIGNMENT	SESSIONAL I
1	1/18/FET/BAU/001		Akhil Raj -- 11801002N5120	8.00	8.00	1 1 2 2 2 2 10.00	0 0
2	1/18/FET/BAU/002		Nanac Jais -- 11801002N5121	10.00	9.00	3 3 2 3 3 4 10.00	2 15
3	1/18/FET/BAU/003		Rishab Dhawan -- 11801002N5122	10.00	8.00	2 3 3 1 3 4 16.00	0 0
4	1/18/FET/BAU/004		Sachin Singh -- 11801002N5123	8.00	7.00	3 3 3 2 3 3 17.00	1 2
5	1/18/FET/BAU/005		Chirag D Ghumare -- 11801002N5124	8.00	5.00	1 1 2 2 2 2 10.00	1 0.5
6	1/18/FET/BAU/007		Anubhav Batta -- 11801002N5127	8.00	8.00	2 2 2 2 1 1 10.00	1 1
7	1/18/FET/BAU/008		Dhruv Gulati -- 11801002N5128	10.00	9.00	3 3 3 3 3 4 19.00	2 15
8	1/18/FET/BAU/009		Chirag Gupta -- 11801002N5129	10.00	7.00	2 2 2 2 2 2 12.00	2 2
9	1/18/FET/BAU/010		Hansh Gupta -- 11801002N5130	10.00	8.00	3 3 3 3 3 3 18.00	1 2
10	1/18/FET/BAU/011		Tushar Ahlotwari -- 11801002N5131	8.00	7.00	1 2 2 1 1 1 8.00	0 0
11	1/18/FET/BAU/012		Adrishak Mangla -- 11801002N5132	10.00	9.00	3 3 3 3 3 4 19.00	1 2
12	1/18/FET/BAU/013		Vansh Pradhan -- 11801002N5133	10.00	7.00	3 3 3 3 3 3 18.00	1 2
13	1/18/FET/BAU/015		Sagar Bansal -- 11801002N5135	8.00	7.00	2 2 3 3 3 3 16.00	1 2
14	18/FET/BAU(1)/001		MOHD MEZANOOK CHOWDHURY -- 11801002L1820	8.00	7.00	3 2 3 15 25 2 16.00	1 2
15	18/FET/BAU(1)/002		Nikhil Singh -- 11801002L1821	10.00	8.00	2 3 3 3 3 3 17.00	1 2

Buttons: Cancel, Freeze Marks, Freeze Attendance, Freeze Class Performance, Freeze Assignment

Figure 7.39: All Added Marks in Performance Add Marks Window

Utkay



- Apply average formula, best of two/three, scale of zero from the dropdown as shown in the figure 5.21 below the exam parameter name.

The screenshot shows a software interface for exam management. At the top, there are filters for Academic Year (2019-2020), Main Exam Name (INTERNAL EXAM), Class/Division (B.Tech. Automobile Sem 4 / 4AUA), and Subject (BAU-DS-421 - IC Engines and Gas Turbine-PP). Below these is a search bar labeled "Search by student rollno,exam seatname,etc".

The main area features a dropdown menu for "SESSIONAL II". The dropdown is open, showing options: "-Select-", "average(G1)", "average(G2)", "average(G3)", "Best of 1/2/3(G1)", "Best of 1/2/3(G2)", "Avg of Best of 1/2/3(G1)", "Avg of Best of 1/2/3(G2)", and "Scale of Zero". The "average(G2)" option is selected and highlighted in blue. Red boxes highlight the dropdown menu and the "average(G2)" option. Yellow arrows point from the "SESSIONAL II" label to the dropdown and from the "average(G2)" option to the "average(G2)" label in the table header.

Below the dropdown is a table with columns for "SESSIONAL I" and "SESSIONAL II". The table contains two rows of data:

													average(G2)	SESSIONAL I	SESSIONAL II	Tot
1	0	8	8		1	1	0	1	0	1	1	1	21.00	10.50	10.5	
1	0		10	9	1	1	1	1	0	1	1	1	27.00	23.25	23.25	

Figure 7.40: Apply Average formula, Best of 2/3 or scale of zero

7.6 Direct Attainment of POs/PSOs:

The attainment of COs for various courses taught during the Academic Year, which are mapped with POs and PSOs of the department shall contribute towards the direct PO and PSO attainment through as shown in the figure 5.22.

COI - Subject IC Engines and Gas Turbine-PP-BAU-DS-421-3 Basket E-O1

CO Statement: Students will able to understand and derive thermodynamic relations, and apply the basic principles of Thermodynamics for finding engine efficiencies

Performance standard(Set Target) %: 60

PO Mapping:

PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PO13	PO14	PO15
Strong-H	Strong-H	Strong-H	Strong-H	Weak-L	Strong-H	-select-	-select-	Moderat	-select-	-select-	Strong-H	-select-	Strong-H	-select-

Submit

CO4: Student will study lubricants and Cooling Systems, its proper...

CO5: To equip students with broad based knowledge to support p...

CO6: Student will be able to understand and acquire knowledge o...

Figure 7.41: Mapping of COs with POs/PSOs

Vinay



7.7 Indirect Attainment of COs and POs/PSOs: -

The weightage for direct and indirect attainment of COs and POs/PSOs shall be fixed as 80% and 20%, respectively. Indirect tools include the Course Exit Survey for attainment of COs and Program Exit and Alumni Survey for attainment of POs/PSOs.

7.7.1 Indirect COs attainment (Course Exit Survey)

7.7.2 Indirect POs/PSOs Attainment (Program Exit and Alumni Survey)

7.7.1 Indirect attainment of COs (Course Exit Survey):-

For computation of indirect CO attainment, students shall fill the course exit survey at the end of each course. The weighted average shall be computed to get the indirect CO attainment.

- Open the setting window for the course exit survey and allow the respective course and students to fill the survey at the end of each course.
- Open Setting page from the home screen:

Vikay



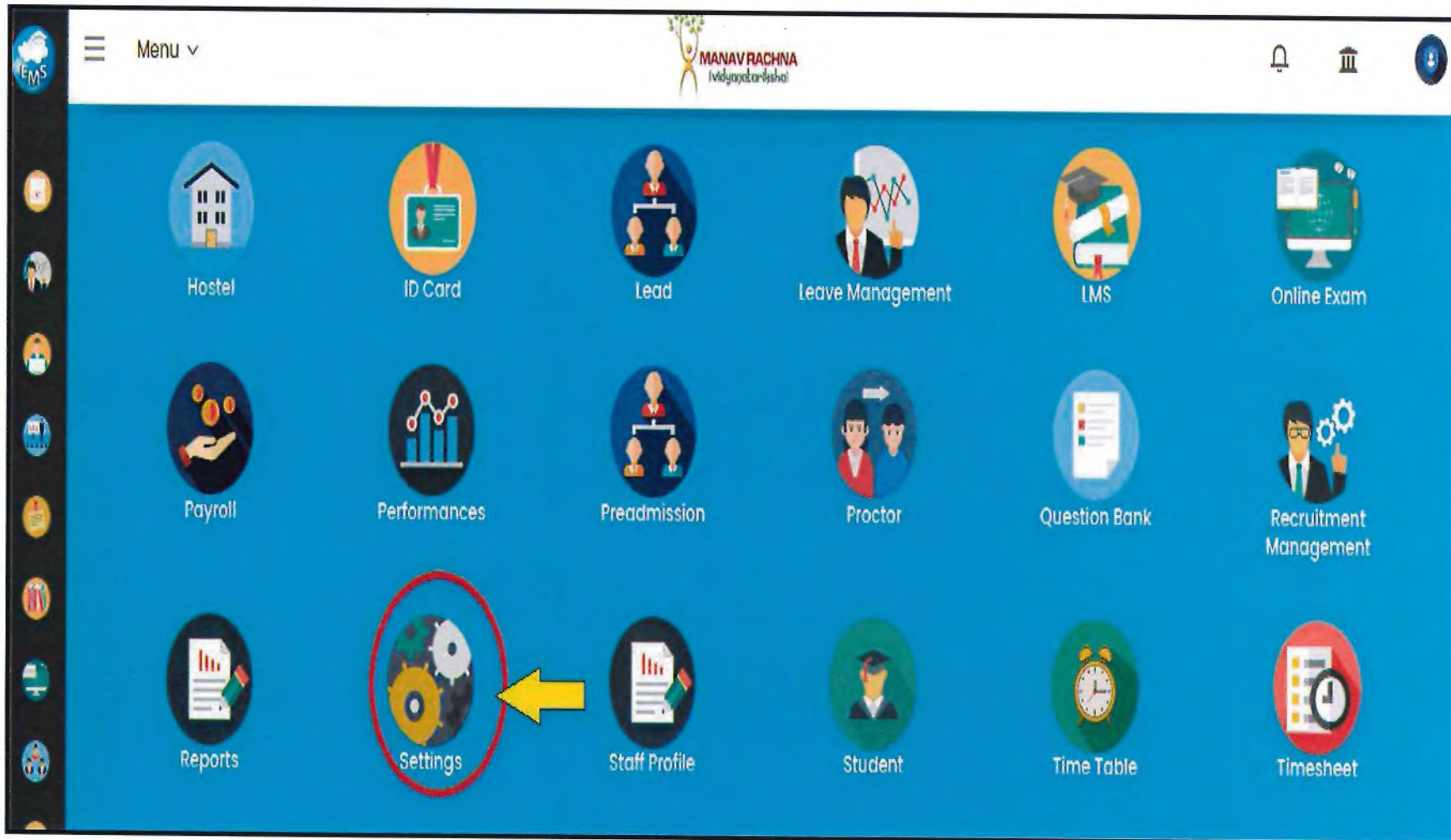


Figure 7.42: Setting on Home Screen

Umay



- Select the feedback setting for turn setting, course allow and student allow for the feedback.

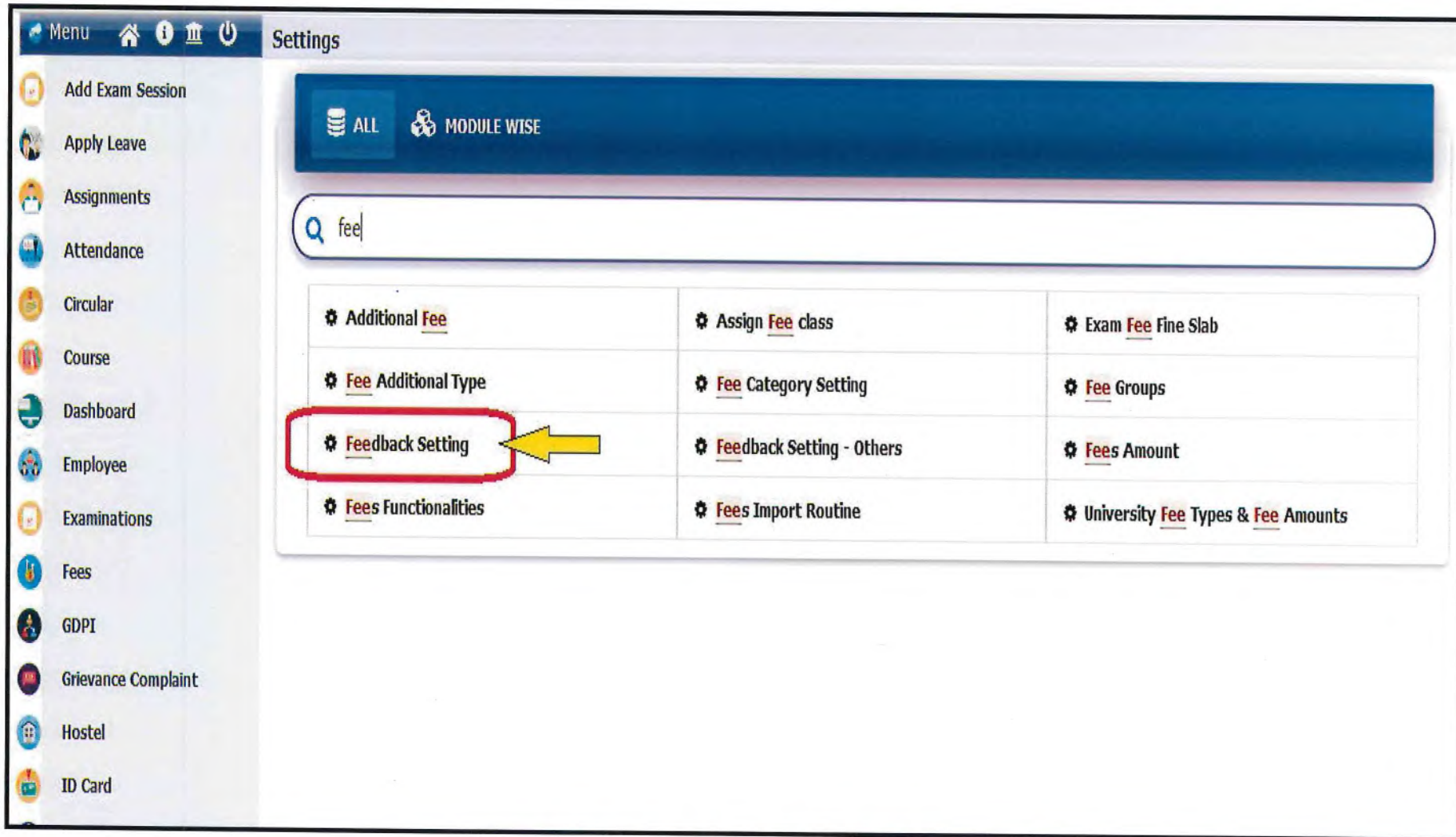


Figure 7.43: Feedback Setting in Setting Section

Vinay



- Open Feedback turn setting for generating the feedback for the particular class and program.
- Settings of all three activities is completed at Central EMS team's end
 - ✚ Feedback Turn Setting
 - ✚ Course Allowed for Feedback
 - ✚ Student Allowed for the Feedback

Figure 7.44: Feedback Turn Setting for Course Exit Feedback

Vinay



- Fill all the parameters for feedback setting and select attendance above which student will give their feedback.
- Select **turn 3** for the course exit feedback and set turn for the generating feedback.

The screenshot shows the 'Feedback Turn Setting' page for 'Student Coursewise Faculty Feedback'. The form contains the following fields and options:

- Select Academic Year:** A dropdown menu with 'Select Year' selected.
- Feedback Type:** A dropdown menu with 'Institute Level' selected.
- Select Type:** A dropdown menu with '-Select Feedback Type-' selected.
- Select Attendant:** A dropdown menu with '-Select Attendant Type-' selected.
- Select Turn:** Three radio buttons: 'Turn 1', 'Turn 2', and 'Turn 3'. The 'Turn 3' option is selected and highlighted with a red box.
- Class:** A dropdown menu with 'Select a Class' selected.
- Consider Student Attendance Date Between:** Two date input fields, both containing 'mm / dd / yyyy'.
- Percent:** An empty input field.
- Check if you want to consider in indirect assessment:** A checkbox that is currently unchecked.

At the bottom of the form, there are two buttons: 'Set Turn' (highlighted with a red box) and 'Back'.

Figure 7.45: Parameters for creating Feedback Turn 3(Course Exit Feedback)

- After setting the turn, next step is to select the courses for which student will give their feedback:.

The screenshot shows the 'Feedback' module interface. On the left is a navigation menu with items like 'Add Exam Session', 'Apply Leave', 'Assignments', etc. The main area is titled 'Feedback' and contains two sections: 'Feedback Turn Setting' and 'Courses allowed for Feedback'. The 'Courses allowed for Feedback' section is highlighted with a red box and a yellow arrow. It includes dropdown menus for '2019-2020', 'B.Tech. Aeronautical Sem 1', and 'June - Dec', along with radio buttons for 'Theory' and 'Practical'. Below this is a table of mapped courses. The 'Students allowed for feedback' section is also highlighted with a red box and a yellow arrow, containing a 'Check All' checkbox. At the bottom are 'Submit' and 'Back' buttons.

Sr.No	Course Name	Course Code	Course Type	Credit	Check All <input type="checkbox"/>
1	introduction to electromagnetic theory	BPH-101	PP	4	<input checked="" type="checkbox"/>
2	electrical fundamentals	BEE-102	PP	4	<input checked="" type="checkbox"/>
3	professional communication	BHM-101	PP	0	<input checked="" type="checkbox"/>
4	mathematics- 1	BMA-102	PP	4	<input checked="" type="checkbox"/>
5	orientation-01	O1111	PP	4	<input type="checkbox"/>

Figure 7.46: Course Allow for Course Exit Feedback

Umay



- Last step is to allow student for the feedback so that the faculty will inform students to give their valuable feedback with respect to the courses taught in the semester.

Feedback

Feedback Turn Setting: 2019-2020 | Courses allowed for Feedback: Turn 3 | **Students allowed for feedback** | Reset Graduate Survey

2019-2020 | Turn 3 | B.Tech. Automobile Sem 1 | Select Division | Submit | Back

Note :

- Reset Button Will Visible Only For Those Students Who Already Submitted The Feedback
- Please untick students to restrict him / her from Feedback

Attendance dates from **01/07/2019** to **15/12/2019**

● Allowed ● Not Allowed

Sr no.	Roll No.	Name	Allow Access <input type="checkbox"/>	Reset Feedback
1	1/19/FET/BAU/001	Aayush Shadija	79.96 <input checked="" type="checkbox"/>	Reset
2	1/19/FET/BAU/002	M AKHILESH	89.39 <input checked="" type="checkbox"/>	Reset
3	1/19/FET/BAU/003	Abhijith Hari Kumar	82.12 <input checked="" type="checkbox"/>	Reset
4	1/19/FET/BAU/004	Gaurang Tomar	87.23 <input checked="" type="checkbox"/>	Reset
5	1/19/FET/BAU/005	Nikhil Singh	60.9 <input checked="" type="checkbox"/>	Reset

Figure 7.47: Students Allow for Course Exit Feedback



Uma

- Now students may provide the course exit feedback by opening the feedback window from the home screen as shown in figure



Figure 7.48: Feedback on Home Screen of Student's Account

Uinay

- Students need to select the AY first followed by the semester for filling the course exit survey:

Menu ▾

MANAV RACHNA
Vidyanatoriksha

Ayush Singh

Select Academic Year: 2019-2020

Select Class: B.Tech. Automobile-Sem I

Feedback Type: Institute Level

Students Feedback For Academic Year 2019-2020

Instructions

- ☞ This feedback is very important for continuous improvement in Teaching-Learning process, please fill honestly.
- ☞ Express your opinion confidently without any fear in mind.
- ☞ The feedback data is secured and cannot be accessed by anyone else.
- ☞ No information of the student will be revealed at any instance of time.
- ☞ Please do not press browser close, refresh button while giving feedback.

Start

Figure 7.49: Course Exit Survey Main Page on Student's Account

Umay



- Students rate their understanding of the course in terms of defined parameters visible with five star rating as a questionnaire to students and he/she will give their feedback. Student will select the next subject by clicking on 'Next'.

The screenshot shows a web interface for a course exit feedback form. The page title is 'introduction to electromagnetic theory (BPH-101)'. Under the heading 'Feedback Questions', there are six numbered questions, each followed by a five-star rating scale. The questions are:

- Students will be able to apply vector calculus to solve static electric field in different situations and solve simple boundary value problems using Poisson's equation and method of images.
- Students will be able to understand the phenomenon of polarization and applications of dielectric materials in various electrical devices.
- Students will be able to apply the principles of magnetostatics to the solutions of the problems relating to magnetic field and magnetic potential.
- Students will be able to understand the concept related to magnetism, Faraday's law and induced emf.
- Students will be able to analyze Maxwell's equations in different form and apply them in diverse engineering problems.
- Students will be able to understand the phenomenon of wave propagation in different media and its interfaces and in applications of microwave engineering.

Below the questions is a 'Suggestions' section with a text input field labeled 'Type Suggestion Here'. At the bottom right, a yellow arrow points to a 'Next' button. Below the feedback form is a 'Course List' section with six course options:

- Course : introduction to electromagnetic theory (BPH-101) (PP)
- Course : basic electrical engineering (BEE-101) (PP)
- Course : mathematics- 1 (BMA-102) (PP)
- Course : physics lab (BPH-151) C1 (PR)
- Course : engg graphics & design (BME-101) C1 (PR)
- Course : basic electrical engg lab (BEE-151) C1 (PR)

Figure 7.50: Course Exit Feedback Sample Page from Student's Account

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7.7.2 Indirect Attainment of POs/PSOs (Program Exit and Alumni Survey):

Both direct and indirect assessment tools shall be used for data collation. The weightage for direct and indirect metHoDs is fixed as 80% and 20%, respectively. Direct tools include course outcome percentage. Indirect tools include 50% weightage for program exit survey and 50% weightage for alumni survey.

Before conducting the Program Exit and Alumni Survey, indirect questions related to the surveys are mapped with the POs and PSOs. Mapping rights are provided at the Head of the Department end or at the EMS coordinator end of the department, this is done from the CO-PO Setup in EMS.

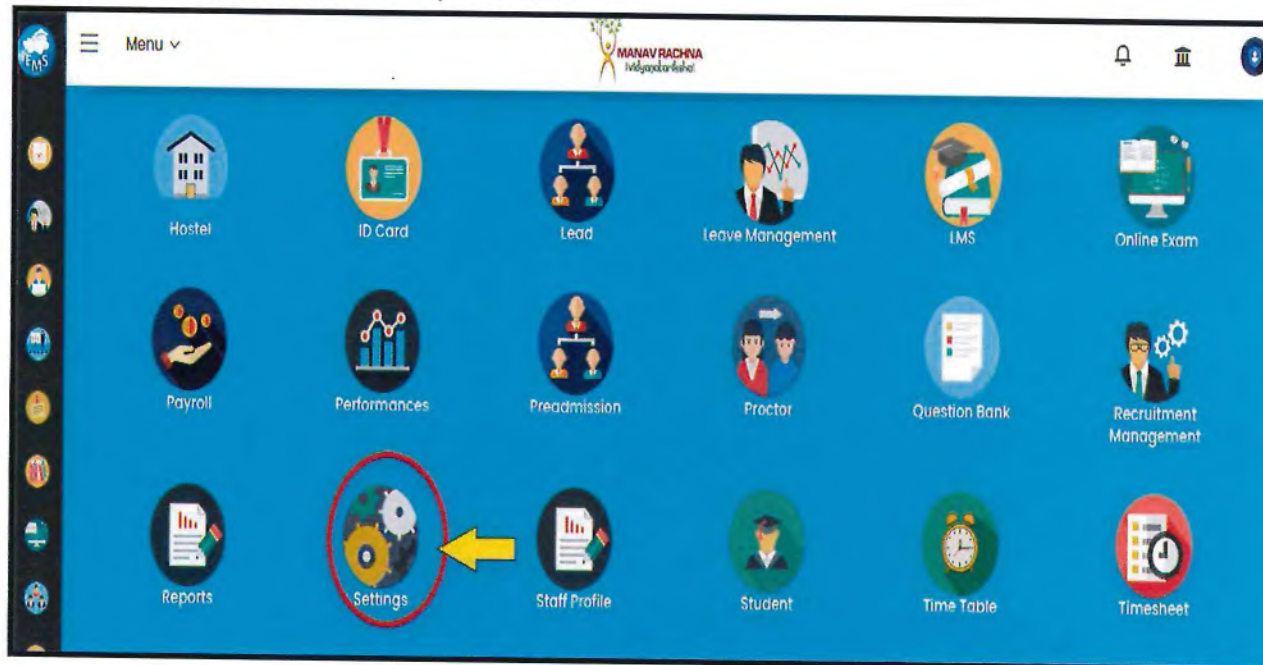


Figure 7.51: Setting from Home Screen

Umay



Menu Settings

ALL MODULE WISE

Q | co|

⚙ Account Settings	⚙ Add <u>C</u> ountry	⚙ Advance <u>C</u> ourse allowed
⚙ Branch <u>C</u> ode	⚙ Branch <u>C</u> ode	⚙ <u>C</u> O PO Mapping Import
⚙ CO-PO Setup	⚙ <u>C</u> o-curricular Master Setting	⚙ <u>C</u> omp Off
⚙ <u>C</u> oncession authority set	⚙ <u>C</u> orrection	⚙ <u>C</u> orrection
⚙ <u>C</u> ourse Authorisation	⚙ <u>C</u> ourse <u>C</u> ontent & Seat Limit	⚙ <u>C</u> ourse Program Mapping
⚙ Custom <u>c</u> ourse basket mapping	⚙ Populate Questions from <u>C</u> O	⚙ Student <u>C</u> ourse Interlocks
⚙ Tally <u>C</u> ommon Settings	⚙ University Add <u>C</u> ourses	⚙ Update <u>C</u> ourses
⚙ offline <u>c</u> ourse registration		

Figure 7.52: CO-PO Report from the Setting page

Umay



- Open the 'Question to PO mapping' and map the entire question with respect to program POs/PSOs.
- Both indirect survey (Program exit survey indirect and Alumni survey indirect) will be mapped with POs/PSOs.

Settings Back

- University Vision Mission
- Graduate Attribute
- Mapping Criteria
- Programs PO
- CO Statement
- Questions to PO Mapping**
- GA to PO Mapping
- PEO Mapping
- PO to PEO Mapping

Question to PO Mapping

Year: 2019-2020

Institutes/Branches: MRIRS-Faculty of Engineering and Techno

Program: B.Tech. Automobile Engineering

Questions / PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PO13	PO14	PO15
Ability to exhibit, communicate knowledge and design processes/take decisions to meet desired specifications and needs.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Excel in analytical and problem-solving skills in multidisciplinary environment.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Benefit from elective courses, Project/research work, value added certifications, workshops and training programmes conducted during your course.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Ability to learn new technology, Innovative tools to resolve contemporary issues.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Willingness in life-long learning for professional development.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Extent of ethical, social and environmental values inculcated, helping you to relate knowledge and skills gained with societal needs.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Professional competency developed to work as per the requirements of any organization including interpersonal and intrapersonal communication skills.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Exhibit good leadership skills to be an entrepreneur with ability to apply professional knowledge and ethical responsibility.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Comprehend the basic knowledge to identify & analyse the real-world problems, interpret data and design the possible solutions/processes.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Able to apply research-based approach and techniques in various fields to provide valid conclusions.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Skills gained to apply innovative tools for prediction and modelling of complex problems in various fields.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Responsibility level acquired to develop solutions for sustainable developments (In societal, environmental, cultural and economic contexts).	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Leadership qualities and team-spirit inculcated through various student development programmes.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Able to communicate effectively in both verbal and written form and develop intrapersonal & interpersonal skills.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Able to acquire and apply new knowledge as needed, using appropriate learning strategies.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Able to secure employment or be an entrepreneur with ability to apply professional knowledge in multidisciplinary environment with ethical responsibility.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Alumni Survey Indirect Questions

Program Exit Survey Indirect Questions

Figure 7.53: Questions to PO mapping

Unmay



A. Program Exit Survey (Indirect):

A program exit survey is conducted after the completion of the respective programme, which helps in providing the valuable inputs to assess what should be improved, modified, or remain intact.

Program Exit Survey Further divided into two parts:-

(a) Program Exit Survey- Indirect (Parameters mapped with POs/PSOs)

(b) Program Exit Survey- Generic

Once parameter setting for the program exit survey is done and students shall be able to fill the program exit survey by opening the survey page from the home screen of his/her account as shown in the figure.

Umay



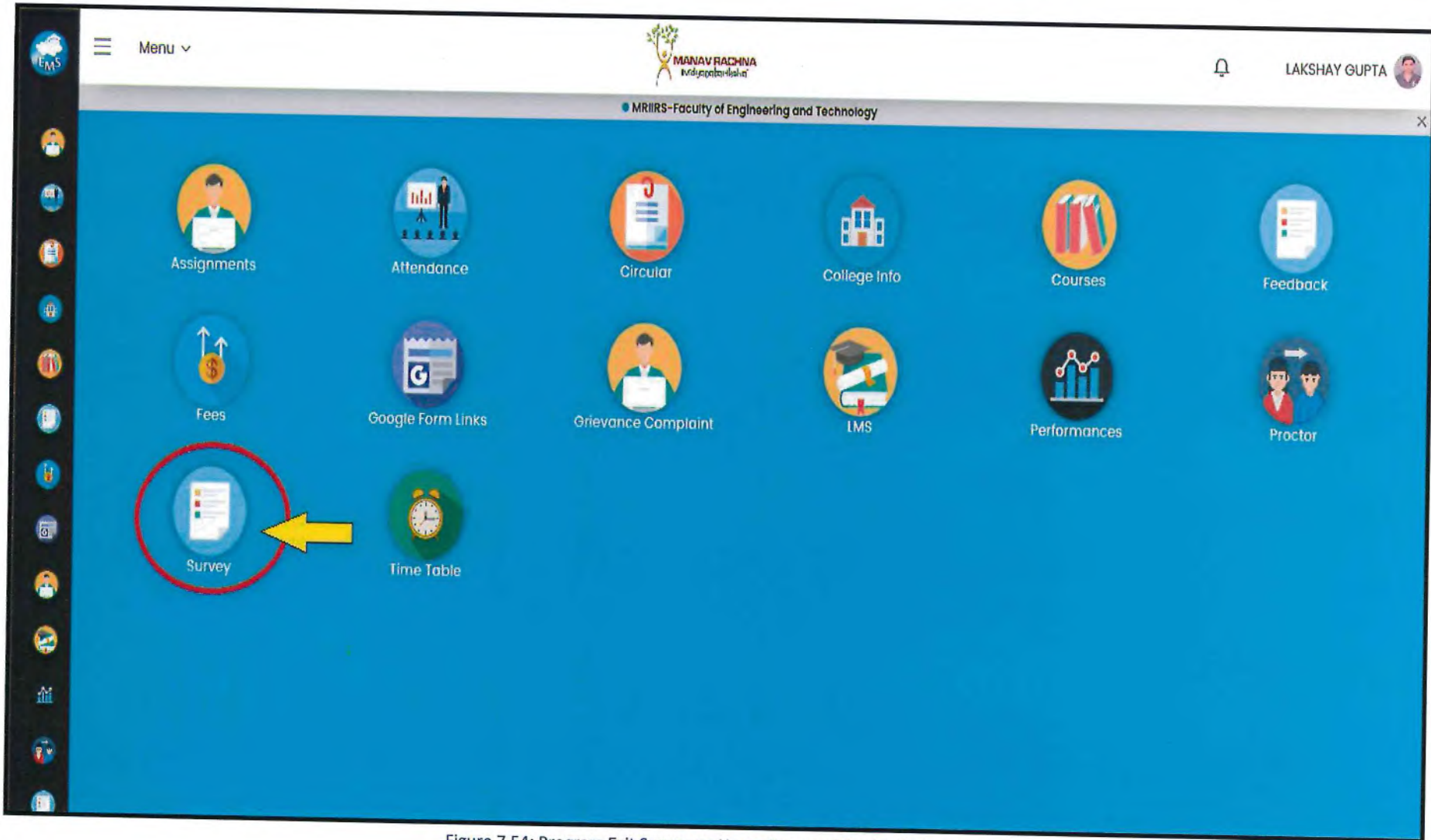


Figure 7.54: Program Exit Survey on Home Screen of Student's Account

Vikram



- Student will select the academic year and semester and can start filling the Program Exit Survey Indirect by clicking on the “Begin” button

The screenshot shows a web application interface for MRIIRS - Faculty of Engineering and Technology. At the top, there is a navigation menu and a user profile for LAKSHAY GUPTA. The main content area displays a dashboard with a search bar and a table of surveys. The search bar has two dropdown menus: 'Select Academic Year' (set to 2019-2020) and 'Select Class' (with options for B.Tech. Mechanical-Sem 7 and B.Tech. Mechanical-Sem 8). A 'Search' button is next to the dropdowns. Below the search bar, a table lists two surveys: 'Program Exit Survey Generic' and 'Program Exit Survey Indirect'. Both surveys are 'Active' and have a 'Begin' button in the 'Action' column. A red box highlights the search bar area, and another red box highlights the 'Begin' buttons. Yellow arrows point to the search bar area and the 'Begin' buttons.

#	Name	Start Date	End Date	Type	Status	Action
1	Program Exit Survey Generic	13/01/2021	31/03/2021	Student Satisfaction Survey (SSS) on overall institutional performance	Active	Begin
2	Program Exit Survey Indirect	13/01/2021	31/03/2021	Student Satisfaction Survey (SSS) on overall institutional performance	Active	Begin

Figure 7.55: Program Exit Survey (Generic and Indirect) on Student's Account

Utkay



Program Exit Survey Indirect



Student Satisfaction Survey (SSS) on overall institutional performance

Evaluation of Programme Effectiveness:

Please identify the degree to which you believe your undergraduate education helped you to develop the skills and abilities in the following areas to be successful in your professional life. Rate your understanding of each parameter on the scale of 5 to 1:

Please note the following:

- ** indicates that it is mandatory to answer the question.
- Do not refresh or close the feedback window until all questions are attended.

Start

Figure 7.55: Program Exit Survey Indirect on Student's Account

- Student will fill the program exit survey-indirect, all these questions are mapped with the POs/PSOs

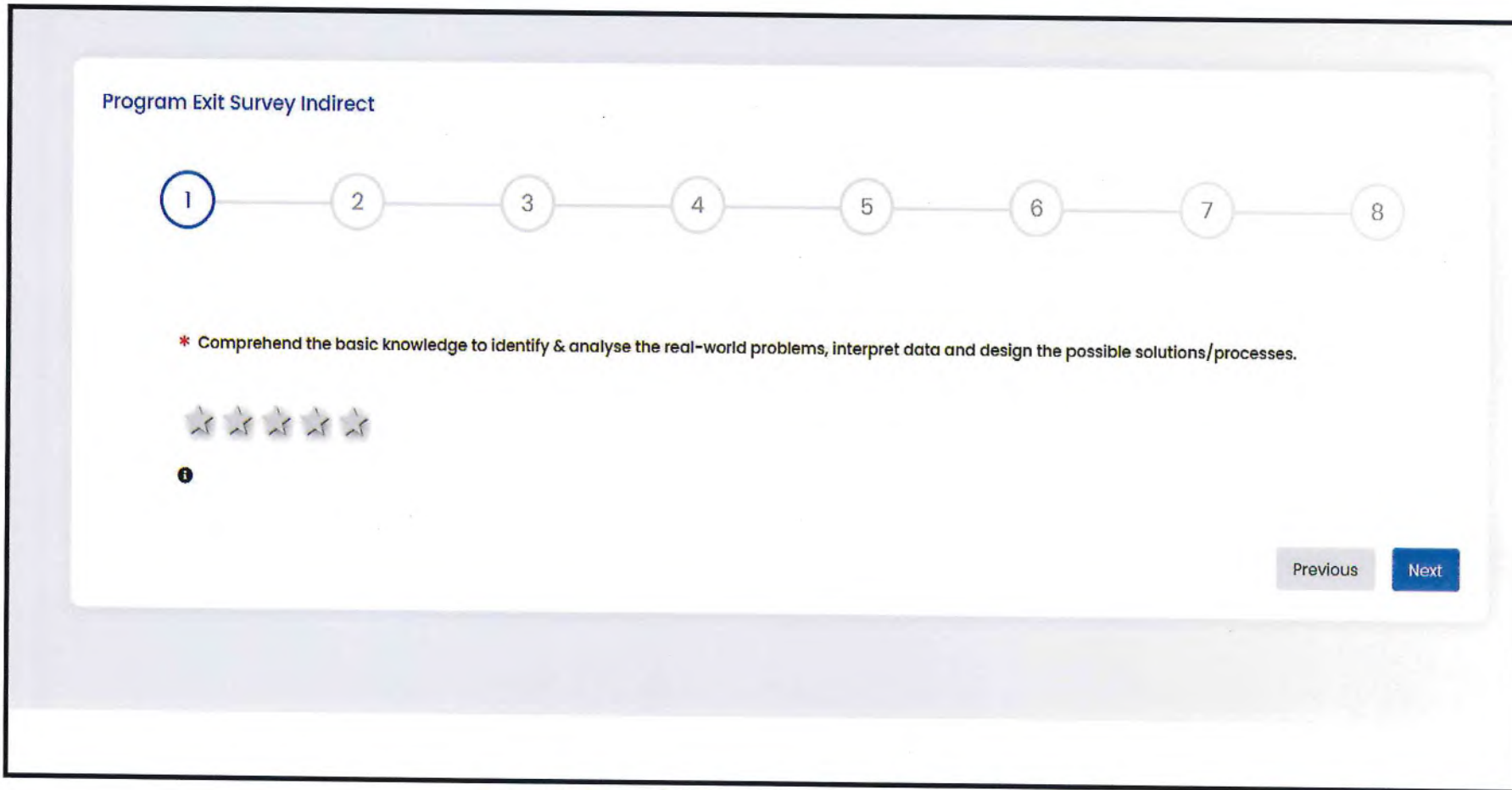


Figure 7.56: Program Exit Survey Indirect Sample from Student's Account

Vikay



B. Alumni Survey (Indirect):

An alumni survey is conducted every academic year, which helps in providing the valuable inputs to assess what should be improved, modified, or remain intact.

Alumni Survey is further divided into two parts:-

(a) Alumni Survey - Indirect (Parameters mapped with POs/PSOs)

(b) Alumni Survey - Generic

Once parameter setting for the alumni survey is done and alumni shall be able to fill the alumni survey by opening the survey page from the link provided by the central EMS team. On clicking the link following page opens, wherein the alumni have to fill his/her details before beginning the survey:

MANAV RACHNA
vidyayantarakshah

Alumni Survey Indirect

Welcome to Curriculum Feedback-Alumni, Please Fill Up the following form.

Name * Aman Middle Name Kumar

Gender * Male Female Other

Email * amankumar.586@gmail.com

Contact Number 9718807775 Office Number

Program * Bachelor of Computer Applications (BCA)

Batch * 2020-2021

Submit Clear

Figure 7.57: Alumni Survey Indirect Home Page





Welcome to Curriculum - Alumni

Please note the following:

- ** indicates that it is mandatory to answer the question.
- Do not refresh or close the feedback window until all questions are attended.


Start Feedback 

Figure 7.58: Alumni Survey Indirect

Umay



- Alumni will fill the alumni survey- indirect:

Alumni Survey Indirect

1 — 2 — 3 — 4 — 5 — 6 — 7 — 8

* Ability to exhibit, communicate knowledge and design processes/take decisions to meet desired specifications and needs.

★ ★ ★ ★ ★

1

Previous Next

Figure 7.59: Alumni Survey Indirect Sample

Alumni Survey Indirect

1 — 2 — 3 — 4 — 5 — 6 — 7 — 8

* Excel in analytical and problem-solving skills in multidisciplinary environment.

★ ★ ★ ★ ★

1

Previous Next

Figure 7.60: Alumni Survey Indirect Sample

Vinay



7.7.3 COs & Pos/PSOs Attainment Reports:

- A. COs Attainment report (Direct & Indirect Attainment): To download COs direct, indirect and overall attainment report
- B. POs/PSOs Attainment Report (Direct Attainment): To download POs/ PSOs direct attainment report
- C. POs/PSOs Attainment Report (Direct Indirect - Attainment Report): To download POs/PSOs indirect and overall attainment report

- Open report page from the home screen of course coordinator account.



Figure 7.61: Report on Home screen

Umay



- Open CO PO report from the report page for generating the reports of COs attainment and POs/PSOs attainment.

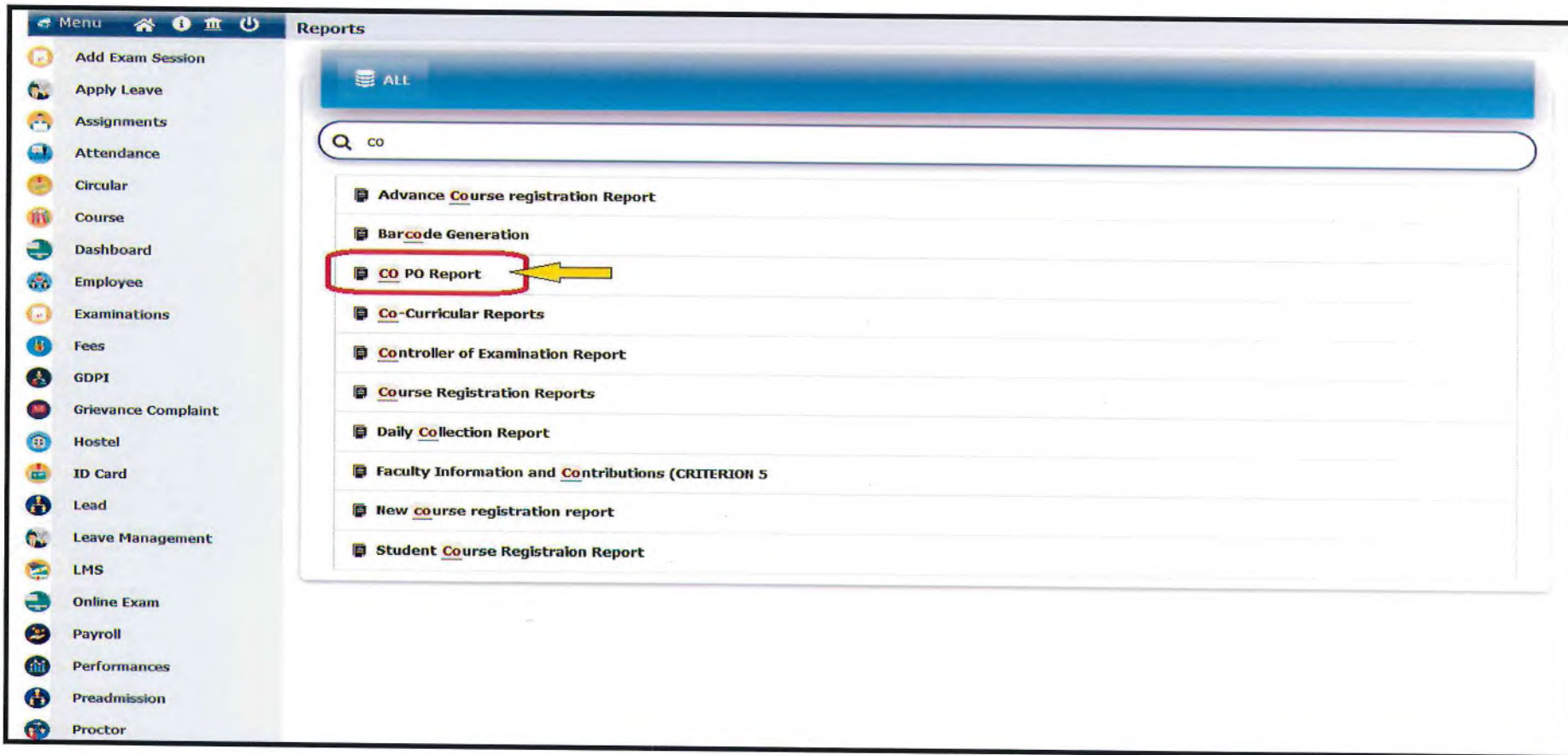


Figure 7.62: CO PO Reports

Vinay



A. COs Attainment report (Direct & Indirect attainment)

- For the COs attainment report, Open the CO wise student attainment report from the CO PO reports

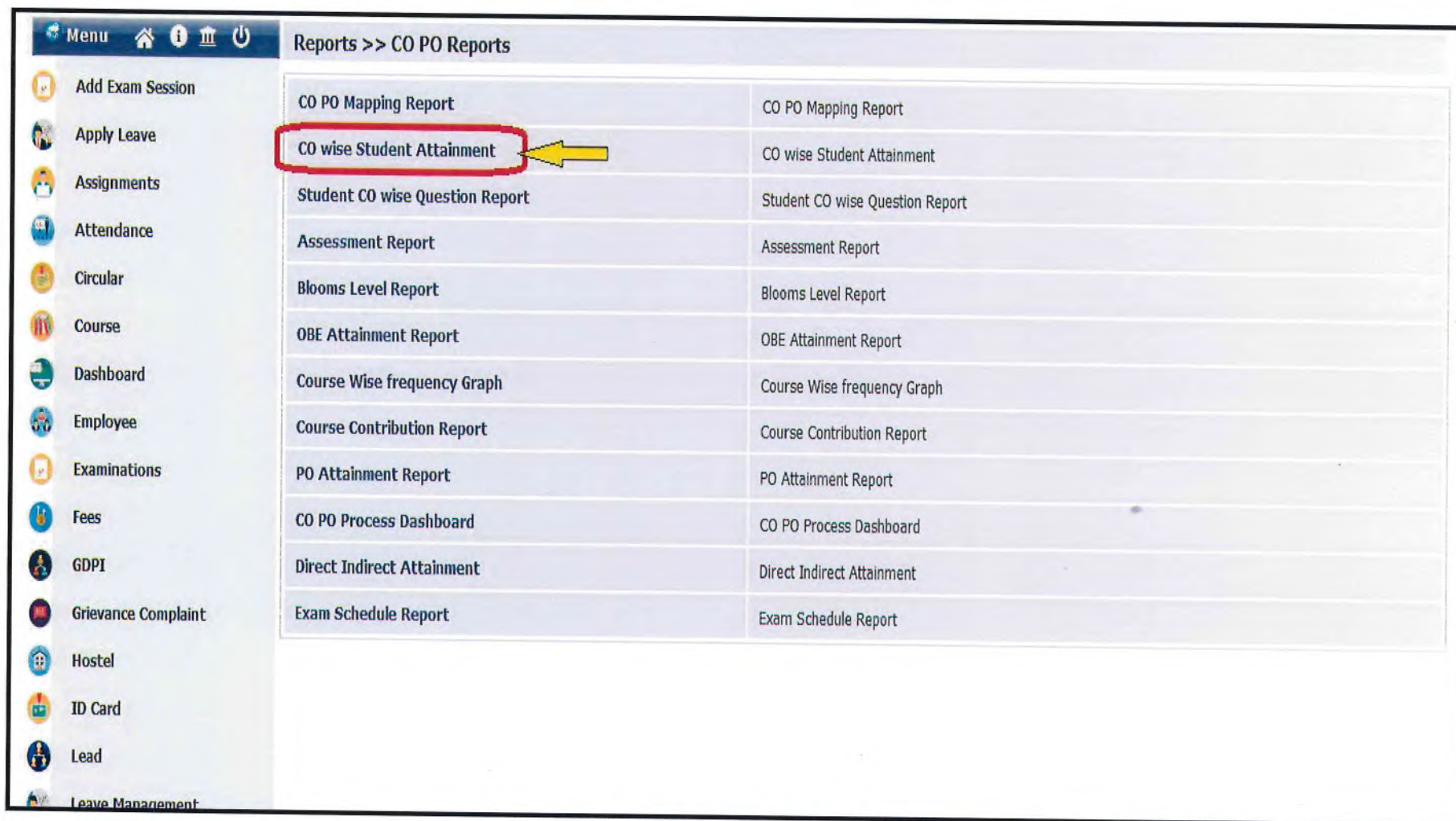


Figure 7.63: CO Wise Student Attainment for the CO Attainment



- Course Coordinators will fill all the parameters for fetching the CO attainment report for their courses as shown in the figure.

The screenshot shows a web browser window with the URL https://www.idcloudemserp.com/corecampus/admin/settings/feedback_setting.php. The breadcrumb navigation is Home >> Reports >> CO PO Reports >> CO wise Student Attainment. A left sidebar contains a menu with items like Add Exam Session, Apply Leave, Assignments, Attendance, Circular, Course, Dashboard, Employee, Examinations, Fees, GDPI, Grievance Complaint, Hostel, ID Card, Lead, Leave Management, LMS, and Online Exam. The main content area is titled "CO wise Student Attainment" and contains a form with the following fields:

Academic Year	:	→	2019-2020
Institute/Branch	:	→	MRIIRS-Faculty of Engineering and Technology
Programme/Department	:	→	Department of Automobile Engineering
Class	:	→	B.Tech. Automobile-Sem 4
Subject	:	→	IC Engines and Gas Turbine - BAU-DS-421 - PP

Below the form, there are two buttons: "SUBMIT" and "RESET", which are highlighted with a red rectangular box. A yellow arrow points to this box.

Figure 7.64: Parameters for Fetching the CO Attainment Report

Vinay



- The weighted sum of direct and indirect attainment ($0.8 \times \text{Direct CO attainment} + 0.2 \times \text{Indirect CO attainment}$) provides the overall CO attainment.
- Graphs are also available in the same report for direct and indirect COs attainment. Graph for Overall COs attainment is also available for downloading.

Institute/Branch: MRIIRS-Faculty of Engineering and Technology
 Class : B.Tech. Automobile Sem 4
 Year : 2019-2020
 Course: IC Engines and Gas Turbine (BAU-DS-421) - PP - 3.00

Slr No.	Student Name	Roll No.	Division	CO1 (80)	CO2 (80)	CO3 (80)	CO4 (80)	CO5 (80)	CO6 (80)
1	MOHD MIZANOR CHOWDHURY	180100218020	3AU	75.08	66.67	68.67	59.46	75	72.73
2	NKHI Singh	180100218021	3AU	85.00	67.31	77.33	59.46	84.48	78.70
3	Akhi Raj	1801002N020	3AU	74.56	37.5	58.46	79.73	81.03	78.70
4	Nanak Jhamb	1801002N021	3AU	93.86	92.31	80	68.00	93.75	93.94
5	Rishab Dhanwan	1801002N022	3AU	79.82	67.31	69.00	73.53	90.03	79.25
6	Sachin Singh	1801002N023	3AU	80.7	92.31	61.54	43.24	75.86	66.07
7	Chirag D Ghumare	1801002N024	3AU	53.01	50	65.46	73.53	66.38	42.42
8	Anubhav Bata	1801002N027	3AU	71.03	65.38	52.73	53.7	68.75	53.03
9	Dhruv Gulati	1801002N028	3AU	88.0	86.54	78.46	73.4	87.5	87.88
10	Chirag Gupta	1801002N029	3AU	82.46	75	66	63.83	86.21	74.24
11	Harsh Gupta	1801002N030	3AU	91.23	75	70.77	55.41	85.34	86.36
12	Tushar Ahalawat	1801002N031	3AU	56.65	43.75	57.60	56.76	68.07	71.21
13	Abhishek Mangla	1801002N032	3AU	80.84	69.44	76.92	81.8	90.63	80.19
14	Vansh Pradhan	1801002N033	3AU	85.09	46.15	73.85	64.81	87.07	80.23
15	Sagar Bansal	1801002N035	3AU	78.95	81.25	62.67	65.56	82.76	79.07
CO1 Direct Attainment % (Average of Students whose target is 80) for an assigned student(s)				86.67	73.33	80	53.33	80	86.67
CO1 Indirect Attainment				69	81.54	79	60.23	88.08	85.38

COURSE OUTCOME	Direct	0.8*Direct	Indirect	0.2*Indirect	Overall CO Attainment
CO1	86.67	69	80	16	85
CO2	73.33	59	81.54	16.31	75.31
CO3	80	64	80	16	80
CO4	53.33	43	86.15	17.23	60.23
CO5	100	80	86.15	17.23	97.23
CO6	86.67	69	95.38	19.08	88.08

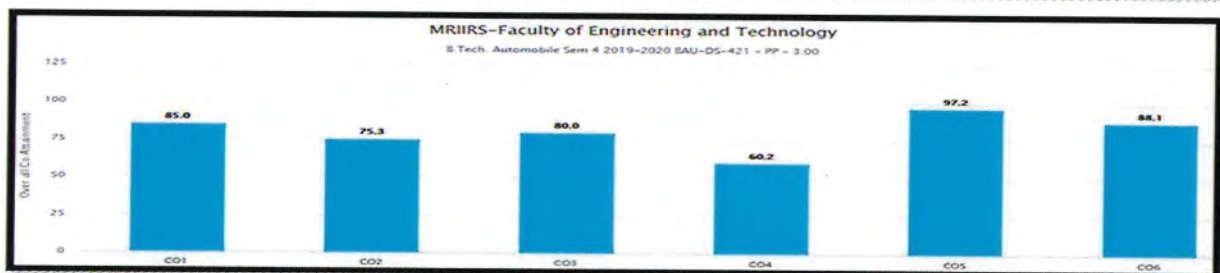
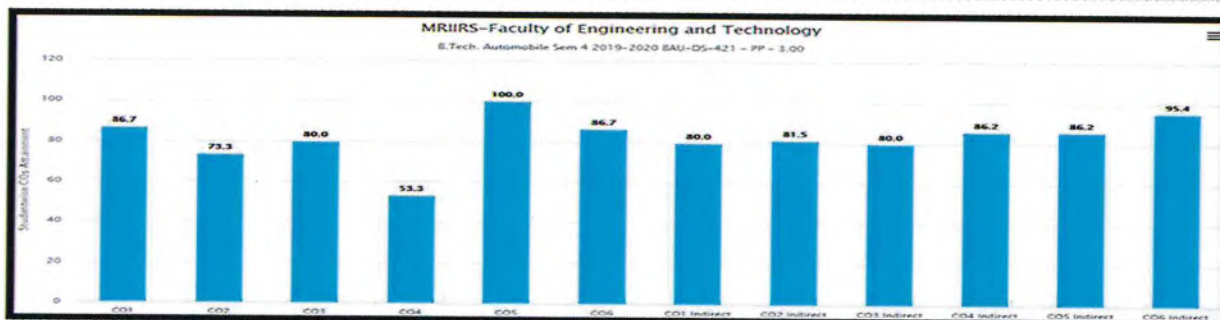
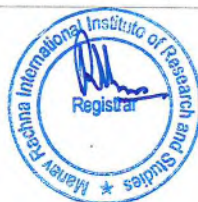


Figure 7.65: COs Attainment Report (Direct, Indirect and Overall COs Attainment of Course)

Umay



B. POs/PSOs Attainment Report (Direct Attainment)

- Open PO attainment report for the direct PO/PSO attainment report.

The screenshot displays a web-based reporting interface. The main content area is titled 'Reports >> CO PO Reports' and contains a table of report options. The 'PO Attainment Report' is highlighted with a red rectangular box, and a yellow arrow points to it from the right. The left sidebar features a vertical menu with icons and labels for various system functions.

Reports >> CO PO Reports	
CO PO Mapping Report	CO PO Mapping Report
CO wise Student Attainment	CO wise Student Attainment
Student CO wise Question Report	Student CO wise Question Report
Assessment Report	Assessment Report
Blooms Level Report	Blooms Level Report
OBE Attainment Report	OBE Attainment Report
Course Wise frequency Graph	Course Wise frequency Graph
Course Contribution Report	Course Contribution Report
PO Attainment Report	PO Attainment Report
CO PO Process Dashboard	CO PO Process Dashboard
Direct Indirect Attainment	Direct Indirect Attainment
Exam Schedule Report	Exam Schedule Report

Figure 7.66: PO Attainment Report in the CO PO Report of Reports Section

Umay



- Fill all the parameters for fetching the direct attainment of POs/PSOs.

Menu Home Reports CO PO Reports PO Attainment Report

PO Attainment

Academic Year : --Select--

Inactive Program : Check if you want to show inactive programmes list.

Institute/Branch : --Select--

Programme/Department : --Select--

SUBMIT RESET

Figure 7.67: Parameters for fetching the POs/PSOs Attainment Report

Umay



- Direct POs/PSOs attainment reports with the calculation of each PO/PSO as per the program

PO Attainment

Back

Export to Excel

Academic Year : 2019-2020

Programme Name : B.Tech. Automobile Engineering (002)

Branch/Institute Name : MRIIRS-Faculty of Engineering and Technology (MRIIRS)

PO Attainment : 74.96

PO1:	PO2:	PO3:	PO4:	PO5:	PO6:	PO7:	PO8:	PO9:	PO10:	PO11:	PO12:	PO13:	PO14:	PO15:
81.40	81.90	81.96	82.12	81.06	81.91	81.98	80.40	81.01	80.39	81.40	80.33	80.02	79.77	80.27

Figure 7.68: PO/PSO Direct Attainment Report

Vinay



- PO1 is calculated first with respect to the mapping of PO1 in the all courses taught during the academic year below. Similarly, all POs/PSOs shall be available in the report.

PO1: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems

PO Number	Sr. No.	Contributing Courses	Course Outcomes	CO Target	Attainment of Course Outcomes		
					H	M	L
PO1	1	introduction to electromagnetic theory BPH-101	CO1	50	62.5	0	0
PO1	2	introduction to electromagnetic theory BPH-101	CO2	50	0	12.5	0
PO1	3	introduction to electromagnetic theory BPH-101	CO3	50	50	0	0
PO1	4	introduction to electromagnetic theory BPH-101	CO4	50	50	0	0
PO1	5	introduction to electromagnetic theory BPH-101	CO5	50	50	0	0
PO1	6	introduction to electromagnetic theory BPH-101	CO6	50	0	37.5	0
PO1	7	physics lab BPH-151	CO1	60	75	0	0
PO1	8	physics lab BPH-151	CO2	60	0	75	0
PO1	9	physics lab BPH-151	CO3	60	0	50	0
PO1	10	physics lab BPH-151	CO4	60	62.5	0	0
PO1	11	physics lab BPH-151	CO5	60	75	0	0
PO1	12	physics lab BPH-151	CO6	60	0	75	0

Figure 7.69: Attainment of PO1: Sample



Vijay

- At the end of report, graph is available which shows the direct attainment of POs/PSOs of the program as shown in the figure 7.10.

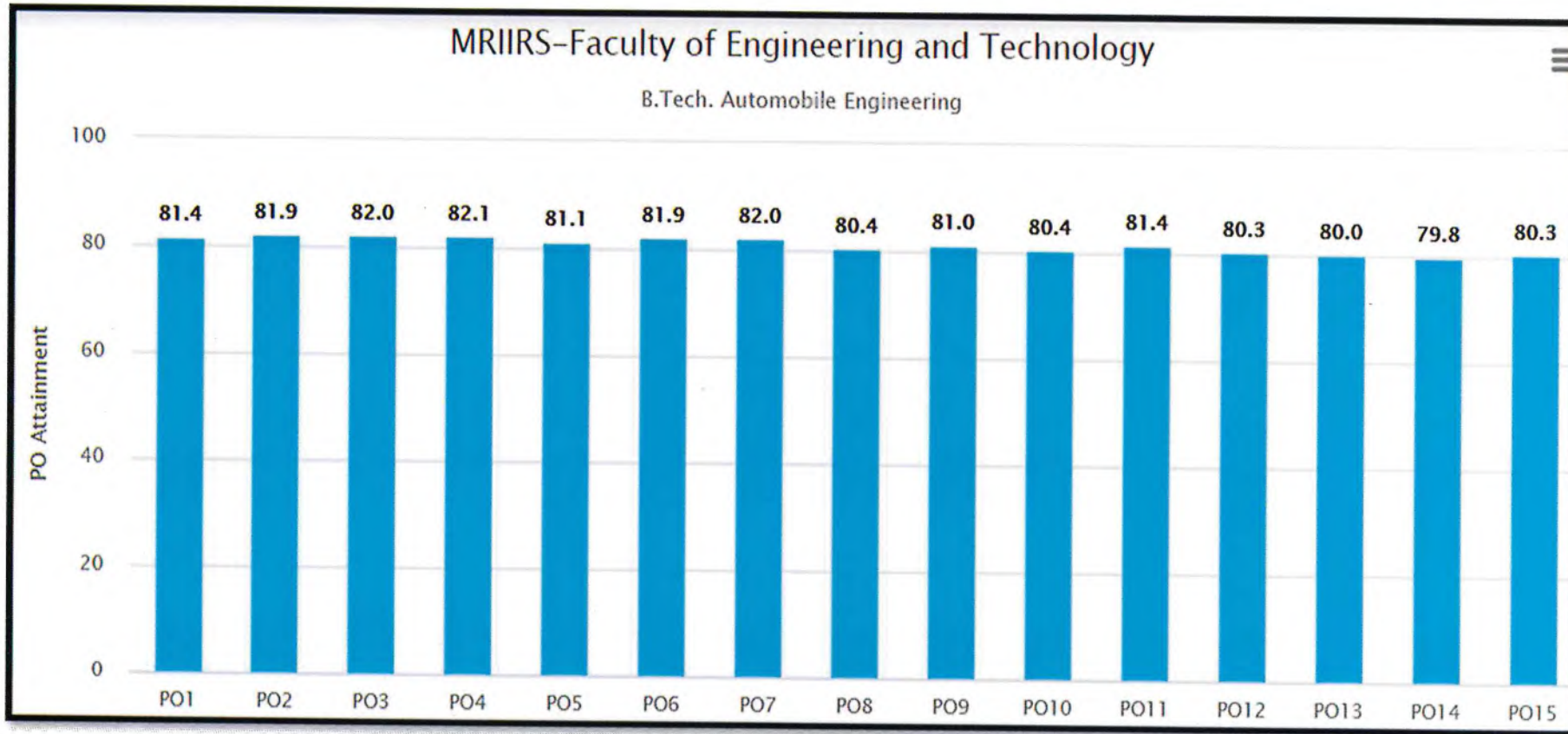


Figure 7.70: Graph for the Direct Attainment of POs/PSOs of the Program.

Umay



C. POs/PSOs Attainment Report (Direct- Indirect Attainment Report):

The screenshot displays the 'Programme Attainment (Direct+Indirect Attainment)' report generation interface. The interface includes the following elements:

- Header:** MRIIRS-Faculty of Engineering and Technology
- Navigation:** Reports • Reports • Programme Attainment
- Report Title:** Programme Attainment (Direct+Indirect Attainment)
- Form Fields:**
 - Select Academic Year:** 2019-2020
 - Select Branch:** MRIIRS-Faculty of Engineering and Technology
 - Department/Institute:** Department of Automobile Engineering
 - Programme:** B.Tech. Automobile Engineering
- Buttons:** Submit, Cancel

Figure 7.71: Direct Indirect PO/PSO Attainment

Vinay





Menu

01-02-2021 21:13:3

Academic Year : 2019-2020
 Programme Name : B.Tech. Automobile Engineering 002
 Institute/Branch Name : MRIIRS-Faculty of Engineering and Technology


Sr No.	Question	Mapped To PO/PSO	↓	↓	↓	↓	↓	↓	↓	↓	↓	Weightage Avg%	WA	
			Completely Satisfied	Percentage	Very Satisfied	Percentage	Moderately Satisfied	Percentage	Slightly Satisfied	Percentage	Not at all satisfied			Percentage
1	Comprehend the basic knowledge to identify & analyse the real-world problems, interpret data and design the possible solutions/processes.	PO1,PO2,PO3,PO13,PO14,	11	68.75	4	25	1	6.25	0	0	0	0	72.5	11.6
2	Able to apply research-based approach and techniques in various fields to provide valid conclusions.	PO4,PO13,PO14,	3	18.75	12	75	1	6.25	0	0	0	0	62.5	10
3	Skills gained to apply innovative tools for prediction and modelling of complex problems in various fields.	PO5,PO13,PO14,	10	62.5	5	31.25	1	6.25	0	0	0	0	71.25	11.4
4	Responsibility level acquired to develop solutions for sustainable developments (in societal, environmental, cultural and economic contexts).	PO7,PO6,PO15,	7	43.75	7	43.75	2	12.5	0	0	0	0	66.25	10.6
5	Leadership qualities and team-spirit inculcated through various student development programmes.	PO8,PO15,PO9,	8	50	5	31.25	3	18.75	0	0	0	0	66.25	10.6
6	Able to communicate effectively in both verbal and written form and develop intrapersonal & interpersonal skills.	PO9,PO15,PO8,PO10,	9	56.25	7	43.75	0	0	0	0	0	0	71.25	11.4
7	Able to acquire and apply new knowledge as needed, using appropriate learning strategies.	PO12,PO13,PO14,	6	37.5	9	56.25	1	6.25	0	0	0	0	66.25	10.6
8	Able to secure employment or be an entrepreneur with ability to apply professional knowledge in multidisciplinary environment with ethical responsibility.	PO13,PO15,PO11,PO8,	9	56.25	6	37.5	1	6.25	0	0	0	0	70	11.2

Figure 7.72: Program Exit Survey- Indirect Report with POs/PSOs Mapping

Uday



Menu ▾


MANAV RACHNA
vidya rakshita.

No.	Question	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PO13	PO14	PO15
1	Comprehend the basic knowledge to identify & analyse the real-world problems, interpret data and design the possible solutions/processes.	72.5	72.5	72.5										72.5	72.5	
2	Able to apply research-based approach and techniques in various fields to provide valid conclusions.				62.5									62.5	62.5	
3	Skills gained to apply innovative tools for prediction and modelling of complex problems in various fields.					71.25								71.25	71.25	
4	Responsibility level acquired to develop solutions for sustainable developments (in societal, environmental, cultural and economic contexts).						66.25	66.25								66.25
5	Leadership qualities and team-spirit inculcated through various student development programmes.								66.25		66.25					66.25
6	Able to communicate effectively in both verbal and written form and develop intrapersonal & interpersonal skills. -								71.25		71.25	71.25				71.25
7	Able to acquire and apply new knowledge as needed, using appropriate learning strategies.												66.25	66.25	66.25	
8	Able to secure employment or be an entrepreneur with ability to apply professional knowledge in multidisciplinary environment with ethical responsibility.								70			70		70		70
Average PO/PSO Attainment using Program Exit Survey (PI)		72.5	72.5	72.5	62.5	71.25	66.25	66.25	69.1666666666667	68.75	71.25	70	66.25	68.5	68.125	68.4375

Figure 7.73: Program Exit Survey- Indirect POs/PSOs Attainment Report

Umay




Sr No.	Question	Mapped To PO/PSO	Completely Satisfied	Percentage	Very Satisfied	Percentage	Moderately Satisfied	Percentage	Slightly Satisfied	Percentage	Not at all satisfied	Percentage	Weightage Avg%	WA
1	Ability to exhibit, communicate knowledge and design processes/take decisions to meet desired specifications and needs.	PO1,PO3,PO15,	17	44.74	10	26.32	11	28.95	0	0	0	0	63.16	24
2	Excel in analytical and problem-solving skills in multidisciplinary environment.	PO2,PO4,PO11,PO13,PO15,	5	13.16	29	76.32	4	10.53	0	0	0	0	60.53	23
3	Benefit from elective courses, Project/research work, value added certifications, workshops and training programmes conducted during your course.	PO1,PO2,PO3,PO13,PO14,PO15,	17	44.74	19	50	2	5.26	0	0	0	0	67.89	25.8
4	Ability to learn new technology, innovative tools to resolve contemporary issues.	PO5,PO7,PO13,PO14,	17	44.74	14	36.84	7	18.42	0	0	0	0	65.26	24.8
5	Willingness in life-long learning for professional development.	PO12,PO13,PO6,	16	42.11	17	44.74	5	13.16	0	0	0	0	65.79	25
6	Extent of ethical, social and environmental values inculcated, helping you to relate knowledge and skills gained with societal needs.	PO6,PO9,PO8,PO14,	17	44.74	19	50	2	5.26	0	0	0	0	67.89	25.8
7	Professional competency developed to work as per the requirements of any organization including interpersonal and intrapersonal communication skills.	PO8,PO12,PO15,PO9,PO10,	15	39.47	20	52.63	3	7.89	0	0	0	0	66.32	25.2
8	Exhibit good leadership skills to be an entrepreneur with ability to apply professional knowledge and ethical responsibility.	PO7,PO8,PO11,PO15,PO9,	19	50	14	36.84	5	13.16	0	0	0	0	67.37	25.6

Figure 7.74: Alumni Survey -Indirect Report with POs/PSOs Mapping

Chiray



Menu ▾

 MANAV RACHNA
Independent Studies

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Sr No.	Question	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PO13	PO14	PO15
1	Ability to exhibit, communicate knowledge and design processes/take decisions to meet desired specifications and needs.	63.16		63.16												63.16
2	Excel in analytical and problem-solving skills in multidisciplinary environment.		60.53		60.53							60.53		60.53		60.53
3	Benefit from elective courses, Project/research work, value added certifications, workshops and training programmes conducted during your course.	67.89	67.89	67.89										67.89	67.89	67.89
4	Ability to learn new technology, innovative tools to resolve contemporary issues.					65.26		65.26						65.26	65.26	
5	Willingness in life-long learning for professional development.						65.79						65.79	65.79		
6	Extent of ethical, social and environmental values inculcated, helping you to relate knowledge and skills gained with societal needs.						67.89		67.89	67.89					67.89	
7	Professional competency developed to work as per the requirements of any organization including interpersonal and intrapersonal communication skills.								66.32	66.32	66.32	66.32				66.32
8	Exhibit good leadership skills to be an entrepreneur with ability to apply professional knowledge and ethical responsibility.							67.37	67.37	67.37			67.37			67.37
Average PO/PSO Attainment using Alumni Survey (A)		65.525	64.21	65.535	60.53	65.26	66.84	66.316	67.12333333333333	67.12333333333333	66.32	63.95	66.065	64.8675	67.01333333333333	66.054

Figure 7.75: Alumni Survey -Indirect POs/PSOs Attainment Report

Vinay



Indirect tools	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PO13	PO14	PO15
Average PO/PSO Attainment using Program Exit Survey (PI)	72.5	72.5	72.5	62.5	71.25	66.25	66.25	69.17	68.75	71.25	70	66.25	68.5	68.13	68.44
Average PO/PSO Attainment using Alumni Survey (AI)	65.53	64.21	65.53	60.53	65.26	66.84	66.32	67.19	67.19	66.32	63.95	66.06	64.87	67.01	65.05
Overall Indirect PO/PSO Attainment, $B= 0.5*PI + 0.5*AI$	69.01	68.36	69.01	61.52	68.26	66.55	66.28	68.18	67.97	68.79	66.98	66.15	66.68	67.57	66.75

Figure 7.76: Overall Indirect POs/PSOs Attainment

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MRIIRS-Faculty of Engineering and Technology															
B.Tech. Automobile Engineering 002															
Direct + Indirect Attainment	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PO13	PO14	PO15
Average Direct PO/PSO Attainment (A)	81.40	81.88	81.93	82.12	81.06	81.91	81.98	80.40	81.01	80.39	81.40	80.33	80.02	79.77	80.27
Average indirect PO/PSO Attainment (B)	69.01	68.18	69.01	61.52	68.26	66.55	66.28	68.18	67.97	68.79	66.98	66.15	66.68	67.57	66.75
Overall PO/PSO Attainment= A*0.8 + B*0.2	78.92	79.14	79.35	78	78.5	78.84	78.84	77.96	78.4	78.07	78.52	77.49	77.35	77.33	77.57

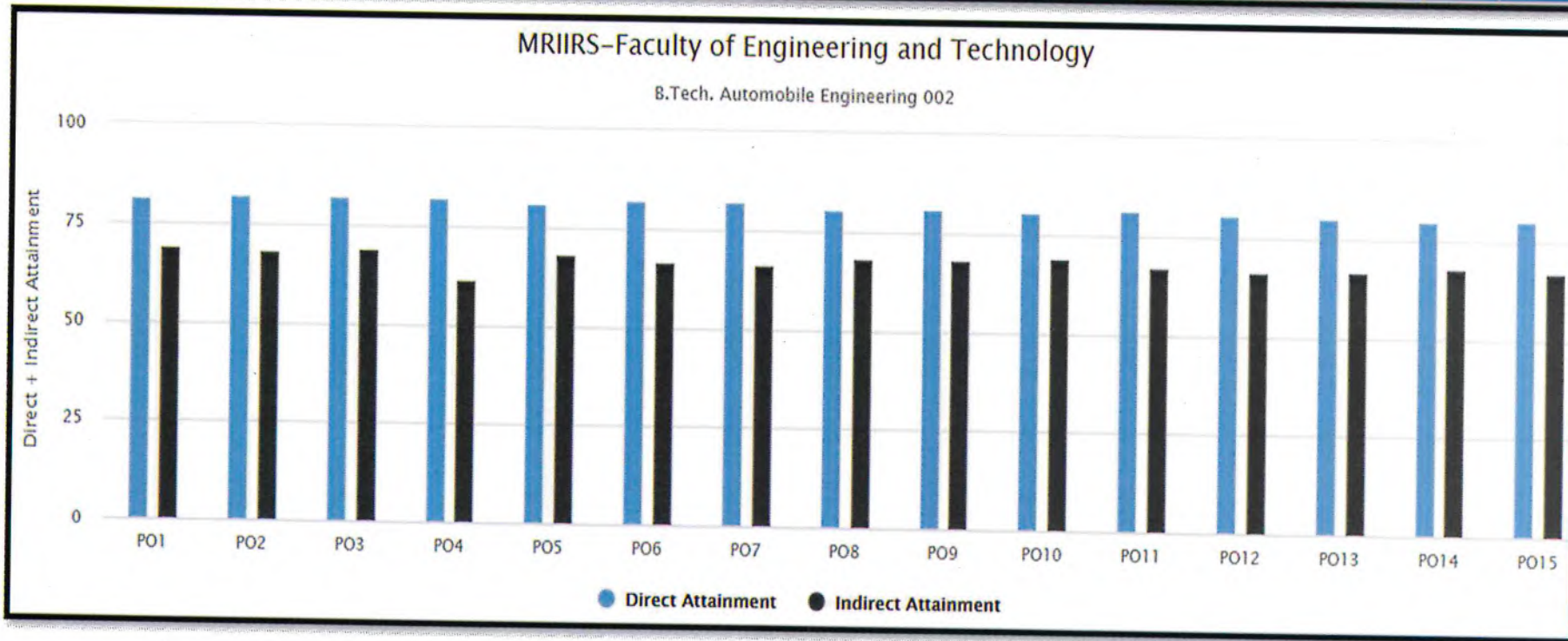


Figure 7.77: Overall POs/PSOs Attainment & Graph of Direct and Indirect Attainment

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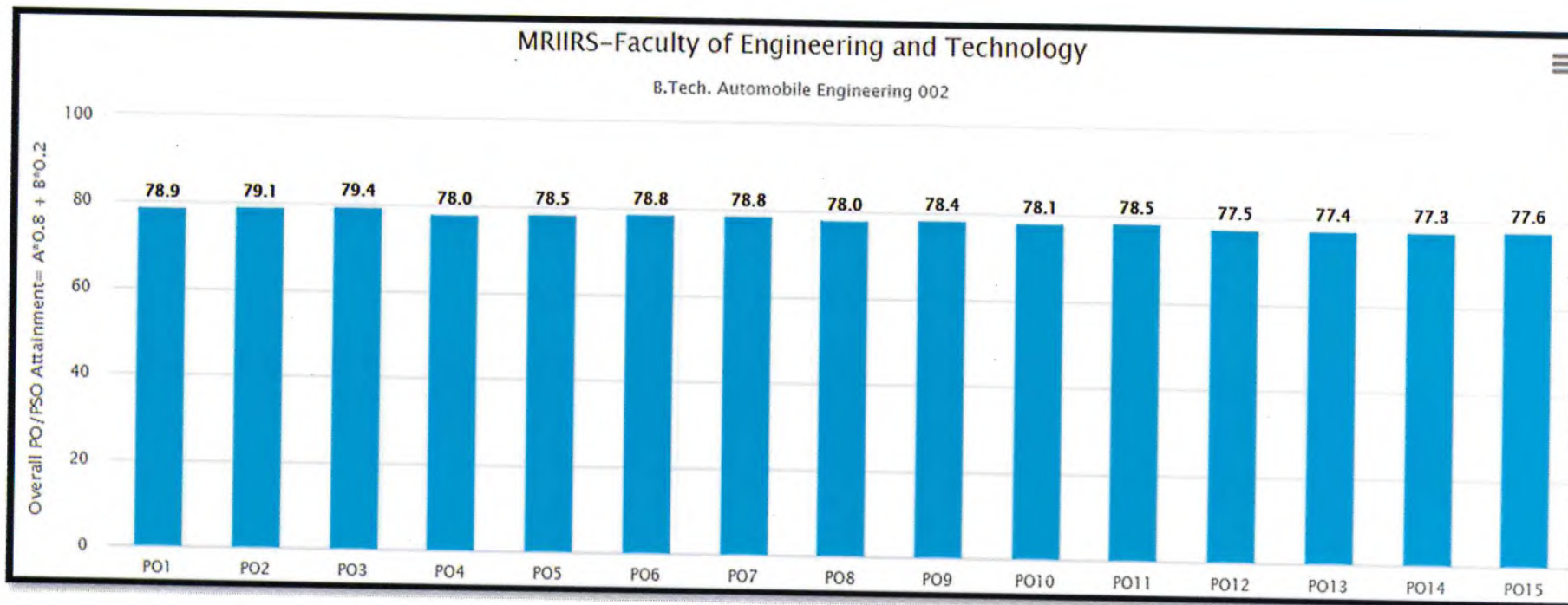


Figure 7.78: Graph of Overall POs/PSOs Attainment



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