**MVSR Engineering College**
Department of Computer Science and Engineering
Innovations by the Faculty in Teaching and Learning

The following processes have been instituted by the faculty of Department of Computer Science and Engineering for the improvement of teaching-learning.

1. **Moodle Tool**

Faculty Members are using this tool for lab assessments, assignments grading and discussions. They use this tool to assess student performance in assignments and quizzes on the go. Every student is provided with their own login ID. Students have to upload their lab programs into their account in every lab session. Those programs will be available for them throughout the semester.

URL: 172.0.3.9/moodle
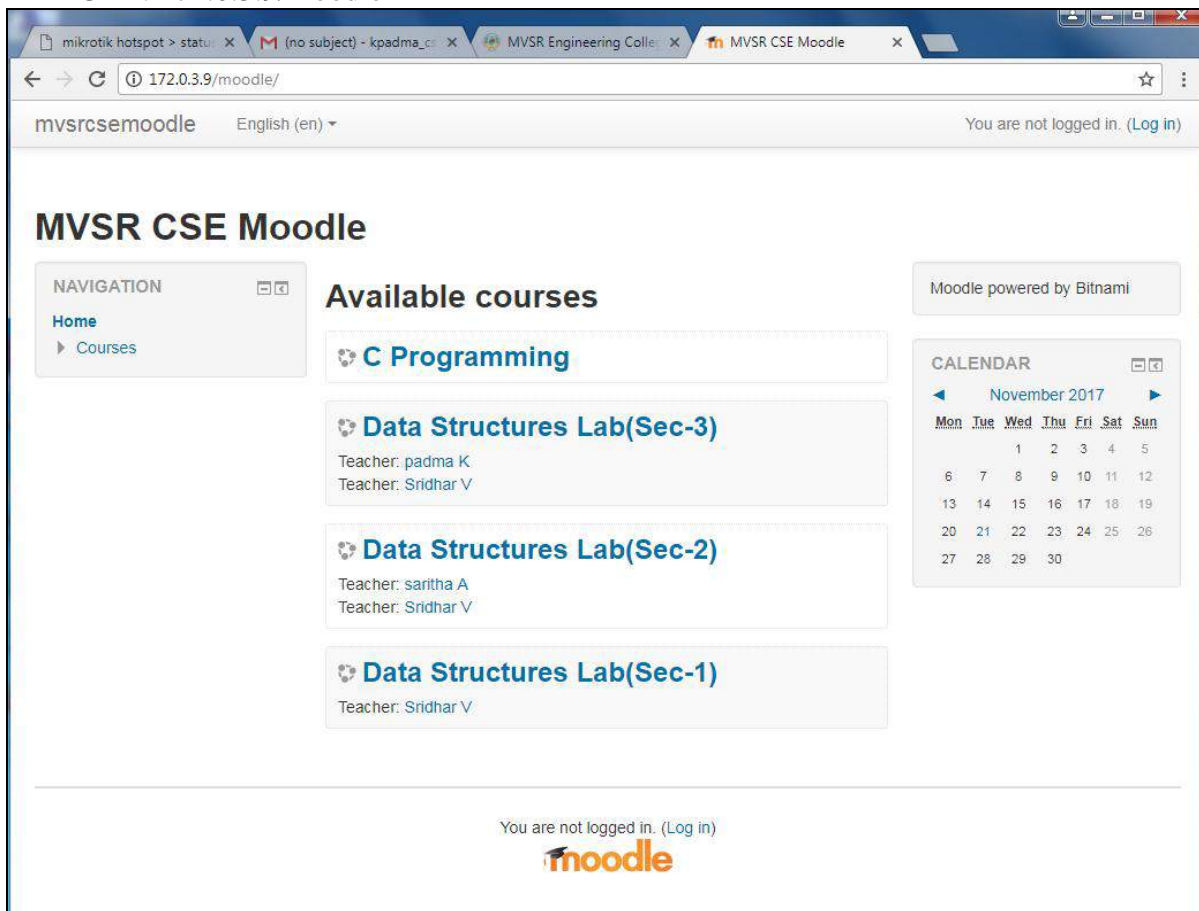
Mapping of the above technique with Dept. Programme Educational Objectives(PEOs), Programme Outcomes(POs), Programme Specific Outcomes(PSOs).

Mapping	PEO				PO												PSO	
	1	2	3	4	1	2	3	4	5	6	7	8	9	10	11	12	1	2
Level		S	S	W	M		M		S					M		M	M	S

Strong(S)	Moderate(M)	Weak(W)
Greater than 70%	Between 30%-70%	Less than 30%

2. Multimedia Learning Process.

Faculty members are using multimedia devices such as LCD projectors in the classroom.It will help the faculty to represent the content in a more meaningful way using different media elements.Various multimedia tools used are:

| Tools	Methods	Metaphors
Presentation Slides , Astound Graphics and Flash Slide Show Software	Easy to prepare with many of the popular multimedia elements like graphs, sound and video.	Slide based
Windows Movie Maker, Win amp	Presentation is created using movie making concepts of casts, sounds, pictures and scores.	Movie based
Adobe Acrobat Reader	Easy to prepare with word documents if you have Acrobat Reader 5 with many popular multimedia elements like graphs, sound and charts	Book based
VNC Screen Sharing Tool	Instructor Presentation Screen can be viewed by students online using screen sharing tool	Slide based-movie based-program based
Audio broadcasting Device	To deliver parallel lectures in more than one lab.	Audio based
Handy cam/Mobile Phone	Instructors can improve and enhance their teaching by capturing and viewing their previous lectures.	Video based

Mapping of the above technique with Dept. Programme Educational Objectives(PEOs), Programme Outcomes(POs), Programme Specific Outcomes(PSOs).

Mapping	PEO				PO												PSO	
	1	2	3	4	1	2	3	4	5	6	7	8	9	10	11	12	1	2
Level	S	S	S	W	S	S	S		S				S	M		S	S	S

Strong(S)	Moderate(M)	Weak(W)
Greater than 70%	Between 30%-70%	Less than 30%

3. NPTEL Lectures

Department of Computer Science and Engineering is integrating NPTEL lectures with classroom sessions using URL: **172.0.7.1/NPTELMVSR**. Faculty encourage students to register themselves in NPTEL online courses for learning extra content beyond syllabus.
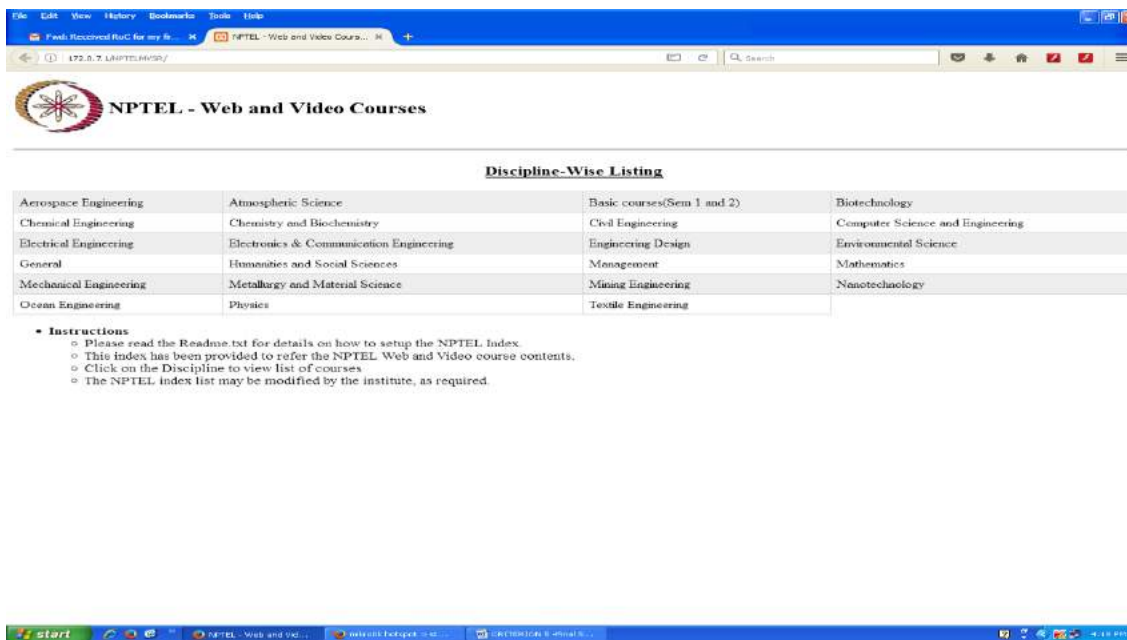
Mapping of the above technique with Dept. Programme Educational Objectives (PEOs), Programme Outcomes (POs), Programme Specific Outcomes (PSOs) are shown below.

Mapping	PEO				PO												PSO	
	1	2	3	4	1	2	3	4	5	6	7	8	9	10	11	12	1	2

| Level | S | S | S | M | S | S | S | S | S | S | | | M | S | | S | S | S |

Strong(S)	Moderate(M)	Weak(W)
Greater than 70%	Between 30%-70%	Less than 30%

4. Spoken Tutorials

Faculty members can avail spoken tutorials conducted by IIT Bombay (spoken-tutorial.org) and MOOCS such as www.coursera.org, edX.org etc to enhance the learning of the students beyond curricula. With this, students learn activities in a more efficient way and get more involved in the activity.

URL: www.spoken-tutorial.org

Mapping of the above technique with Dept. Programme Educational Objectives (PEOs), Programme Outcomes (POs), Programme Specific Outcomes (PSOs).

Mapping	PEO				PO												PSO	
	1	2	3	4	1	2	3	4	5	6	7	8	9	10	11	12	1	2
Level	S	S	S	M	S	S	S	M	S	S			S	M		S	S	S

Strong(S)	Moderate(M)	Weak(W)
Greater than 70%	Between 30%-70%	Less than 30%

5. QEEE Program

MVSREC has become one of the participating institutions in Quality Enhancement in Engineering Education (QEEE). QEEE is an initiative of MHRD, Govt. of India to enhance quality of engineering education and bridge the industry - institute gap.

URL: http://103.224.157.249/qeee

Mapping of the above technique with Dept. Programme Educational Objectives (PEOs), Programme Outcomes (POs), Programme Specific Outcomes (PSOs).

Mapping	PEO				PO												PSO	
	1	2	3	4	1	2	3	4	5	6	7	8	9	10	11	12	1	2
Level	S	S	S	M	S	S	S	M	S	S			S	M		S	S	S

Strong(S)	Moderate(M)	Weak(W)
Greater than 70%	Between 30%-70%	Less than 30%

6. Coding contests

Faculty regularly conducts coding contests to encourage and enhance the programming skills of students both in languages and development tools to make them industry ready.

Mapping of the above technique with Dept. Programme Educational Objectives (PEOs), Programme Outcomes (POs), Programme Specific Outcomes (PSOs).

Mapping	PEO				PO												PSO	
	1	2	3	4	1	2	3	4	5	6	7	8	9	10	11	12	1	2
Level	S	M	S	M	S	S	S	S	M							S	S	S

Strong(S)	Moderate(M)	Weak(W)
Greater than 70%	Between 30%-70%	Less than 30%

7. Technical Quiz

Faculty conduct technical quizzes in their respective subjects which will improve the quality of student learning. A tool called moodle as discussed in 5.5.1, is being used to conduct such type of quizzes.
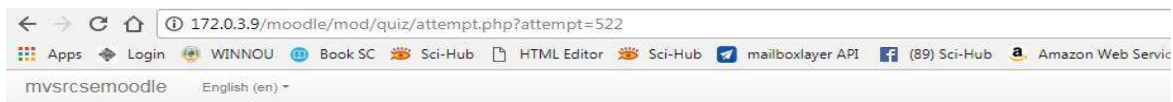
Data Structures Lab(Sec-3)

Dashboard ▶ Sem-1 Subjects ▶ DS LAB-3 ▶ General ▶ Internal Quiz Assessment ▶ Preview

QUIZ NAVIGATION

1 2 3 4 5 6 7 8 9 10

Finish attempt ...

Start a new preview

NAVIGATION

Dashboard
- Site home
- Site pages
- Current course
  - DS LAB-3

Question 1

Not yet answered

Marked out of 1.00

⚑ Flag question

✿ Edit question

The following postfix expression with single digit operands is evaluated using a stack:

8 2 3 ^ / 2 3 * + 5 1 * -

Note that ^ is the exponentiation operator. The top two elements of the stack after the first * is

Select one:
- a. 1,5
- b. 5,7
- c. 3,2
- d. 6,1

Question 2

Not yet answered

Stacks do not find their applicability for _____.

Mapping of the above technique with Dept. Programme Educational Objectives (PEOs), Programme Outcomes (POs), Programme Specific Outcomes (PSOs).

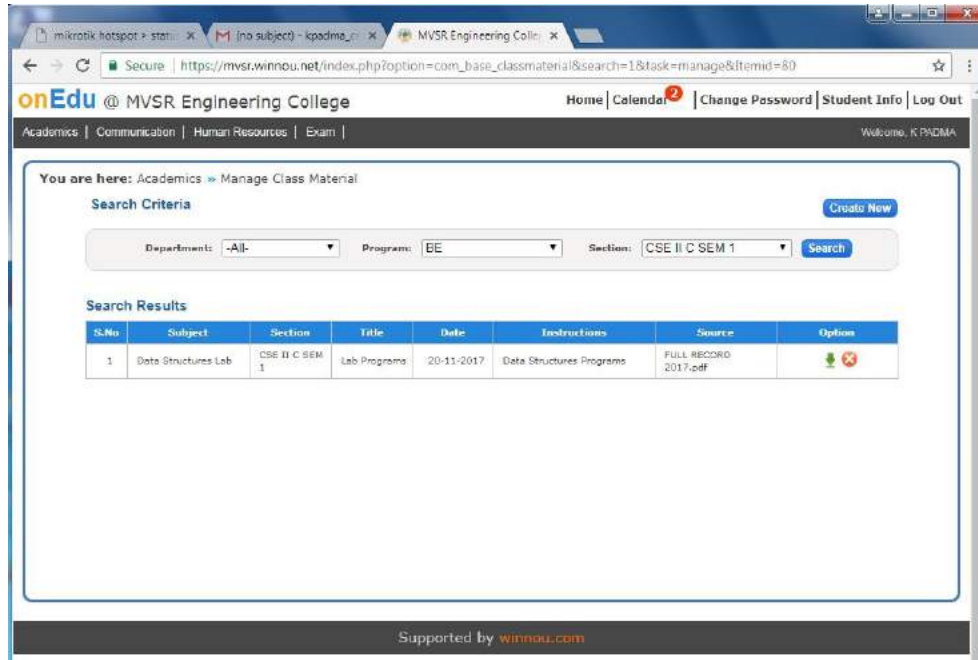| Mapping	PEO				PO												PSO	
	1	2	3	4	1	2	3	4	5	6	7	8	9	10	11	12	1	2
Level	S	M	S	M	S	S	S	S	M							S	S	S

Strong(S)	Moderate(M)	Weak(W)
Greater than 70%	Between 30%-70%	Less than 30%

8. Web Resources (winnou)

The college has created a webpage accessible to the faculty and students under the heading **"Manage Class Materials"** which can be accessed using the following link

https://mvsr.winnou.net-index.php?option=com_base_classmaterial&task=manage&Itemid=80.

All faculty members of the Department have been allotted web space on "Manage Class Materials" page through their staff ID so that they can login and post relevant material from time to time, for the subjects they handle.

Mapping of the above technique with Dept. Programme Educational Objectives (PEOs), Programme Outcomes (POs), Programme Specific Outcomes (PSOs).

Mapping	PEO				PO												PSO	
	1	2	3	4	1	2	3	4	5	6	7	8	9	10	11	12	1	2
LLL		S	S		M		M		S					M		M		S

Strong(S)	Moderate(M)	Weak(W)
Greater than 70%	Between 30%-70%	Less than 30%

9. Faculty blogs

Faculty maintains blogs to provide lecture notes for students. They make the blog link public to all the students to access lecture notes.

Name of the Faculty	Blog URL
K.Murali Krishna	muralikrishnakanajam.blogspot.in
D.Sirisha	sirisha-engg-material.blogspot.in
Md Abdul Azeem	mdabdulazeem.blogspot.in
B.Venkataramana	Vnktrmnb.blogspot.in
V.Sridhar	Sridharmvsr.blogspot.in
Vikram Narayandas	Vikramnarayandas.blogspot.in

Mapping of the above technique with Dept. Programme Educational Objectives (PEOs), Programme Outcomes (POs), Programme Specific Outcomes (PSOs).

Mapping	PEO				PO												PSO	
	1	2	3	4	1	2	3	4	5	6	7	8	9	10	11	12	1	2
Level		S		S	M		M		S					M		M		S

Strong(S)	Moderate(M)	Weak(W)
Greater than 70%	Between 30%-70%	Less than 30%
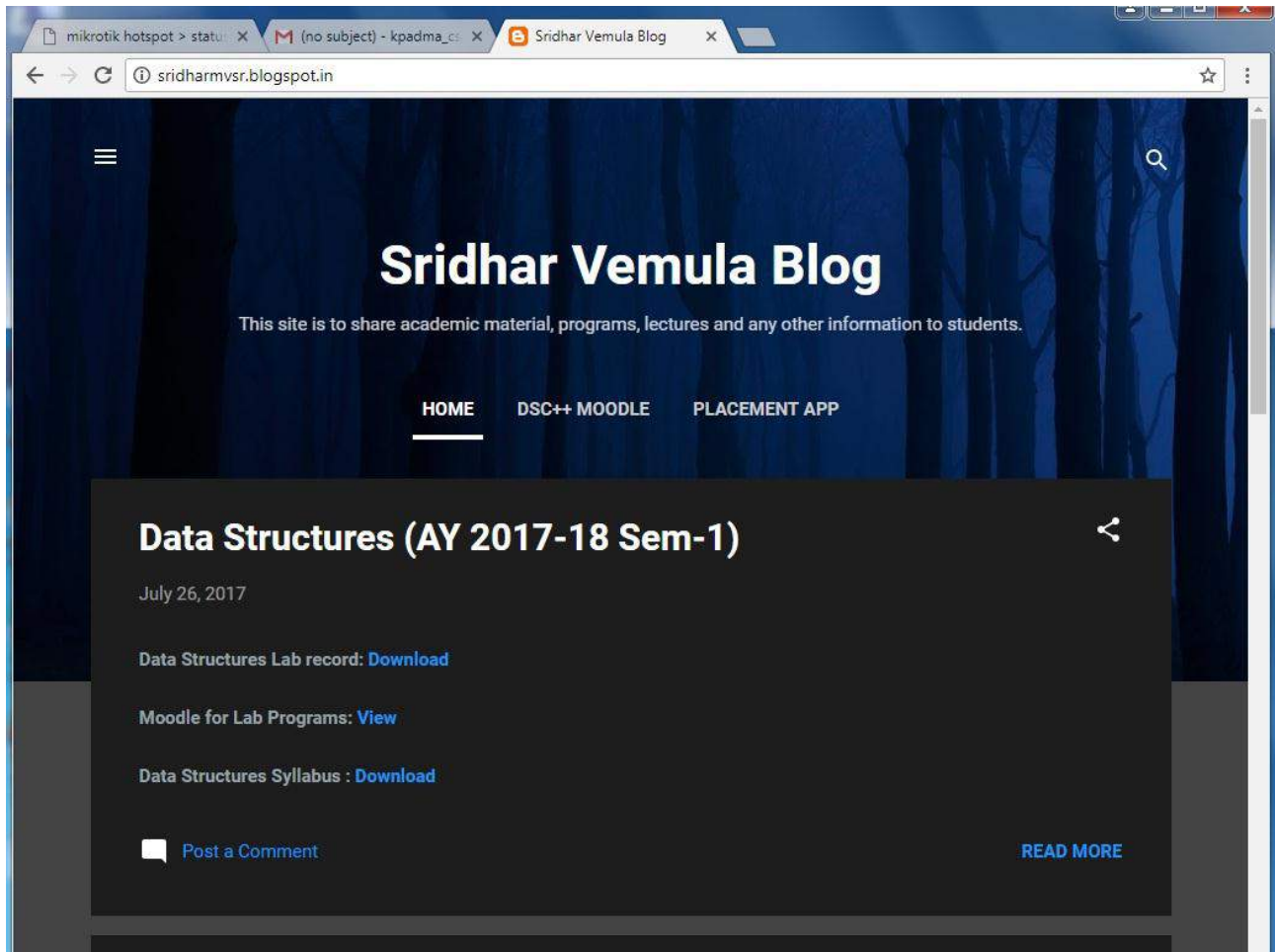
10. Remedial Classes for Slow learners.

The department has taken an initiative to conduct remedial classes for slow learners based on their performance in both university and internal examinations. Students having difficulty in learning are regularly identified and special remedial classes are organized for them where extra problems are solved and examples are discussed.

MVSR Engineering College, Hyderabad - 501 510

Department of Computer Science and Engineering

Ref. No: Date: 21/3/17

Remedial classes schedule on 25th March 2017
II-Year, Sem-II, for All sections, Room CS-11

Duration	Subject	Faculty	Topic
09:45 to 10:35	OOPJ	G. Sri Sailam	Unit – III
10:35 to 11:25			
11:25 to 12:15	MPI	G. Vijay Kumar	Unit – III
12:15 to 01:00			
01:00 to 01:45	Lunch		
01:45 to 02:35	PPL	Dr. A. V. Krishna Prasad	Unit – III
02:35 to 03:25			
03:25 to 04:15			

III-Year, Sem-II, for All sections, Room CS-12

Duration	Subject	Faculty	Topic
09:45 to 10:35	DBA	Dr. B. Sandhya	Unit – III
10:35 to 11:25			
11:25 to 12:15	CC	Dr. Akhil Khare.	Unit – III
12:15 to 01:00			
01:00 to 01:45	Lunch		
01:45 to 02:35	CN	B. Savitha.	Unit – III
02:35 to 03:25	WPS	P. Phani prasad	Unit – III
03:25 to 04:15	OOSD	K. Madhuri	Unit – III

IV-Year, Sem-II, for All sections, Room CS-13

Duration	Subject	Faculty	Topic
09:45 to 10:35	Data Mining	K. Kavitha lakshmi	Unit – III
10:35 to 11:25			
11:25 to 12:15	IRS	M. V. R. Jyothisri	Unit – III
12:15 to 01:00			
01:00 to 01:45	Lunch		
01:45 to 02:35	Data mining lab	Dr. H. Jayasree	
02:35 to 03:25			
03:25 to 04:15			

Mapping of the above technique with Dept. Programme Educational Objectives (PEOs), Programme Outcomes (POs), Programme Specific Outcomes (PSOs).

Mappi ng	PEO				PO												PSO	
	1	2	3	4	1	2	3	4	5	6	7	8	9	10	11	12	1	2
level	S	S	S	M	S	S	S	M								S	S	S

Strong(S)	Moderate(M)	Weak(W)
Greater than 70%	Between 30%-70%	Less than 30%

11. Content beyond Syllabus for smart learners.

Faculty identifies smart learners in every class and they give extra focused assignments to those smart learners which may help them in competitive exams and placements. This in turn will help them in getting internships in industry.

Mapping of the above technique with Dept. Programme Educational Objectives (PEOs), Programme Outcomes (POs), Programme Specific Outcomes (PSOs).

Mappi ng	PEO				PO												PSO	
	1	2	3	4	1	2	3	4	5	6	7	8	9	10	11	12	1	2
Level	S	S	S	M	S	S	S	S	M							S	S	S

Strong(S)	Moderate(M)	Weak(W)
Greater than 70%	Between 30%-70%	Less than 30%

5.5.11 Roll of honors for top performers.

College identifies top three performers in every class and awards them with medals every year. It is hoped that this initiative encourages other students to strive hard in studies.

Class Toppers(CSE) For AY 2014-15

Year Of Study	Name of The Student	Roll Number	Marks Secured
B.E I/IV	B.Aparna	2451-14-733-008	1157
B.E II/IV	Sameeksha Deglurkar	2451-13-733-088	1361
B.E III/IV	Sathvik Krishna	2451-12-733-110	1422
B.E IV/IV	Vannavada Sangeetha Reddy	2451-11-733-025	4885

Osmania University Rankers(CSE) for CAYm3(2014-15)

S.No	Name of The Student	Roll Number	Marks Secured	Rank
1	Vannavada Sangeetha Reddy	2451-11-733-025	4885	II
2	Roshini Gupta	2451-11-733-040	4727	VIII

Class Toppers(CSE) For CAY m2(2015-16)

Year Of Study	Name of The Student	Roll Number	Marks Secured
B.E I/IV	K S S Sreevani	2451-15-733-067	1161
B.E II/IV	Jaswanth Reddy Kankanala	2451-14-733-129	1390
B.E III/IV	Sameeksha Deglurkar	2451-13-733-088	1404
B.E IV/IV	T Sathvik Krishna	2451-12-733-110	4889

Osmania University Rankers(CSE) for CAYm2(2015-16)

S.No	Name of The Student	Roll Number	Marks Secured	Rank
1	T Sathvik Krishna	2451-12-733-110	4889	III
2	Jakka Sushmitha	2451-12-733-075	4850	VI
3	Uppu Amith Sai	2451-12-733-044	4827	VIII

Class Toppers(CSE) For CAYm1 (2016-17)

Year Of Study	Name of The Student	Roll Number	Marks/CGPA Secured
B.E I/IV	M Sowjanya	2451-16-733-125	9.57
B.E II/IV	Biyani Pooja	2451-15-733-023	1375
B.E III/IV	K.Ravali	2451-14-733-024	1396
B.E IV/IV	Sameeksha Deglurkar	2451-13-733-088	4828

Osmania University Rankers(CSE) for CAYm1(2016-17)

S.No	Name of The Student	Roll Number	Marks Secured	Rank
1	Sameeksha Deglurkar	2451-13-733-088	4828	V
2	M Venkat Giridhar	2451-13-733-001	4228	X

Mapping of the above technique with Dept. Programme Educational Objectives (PEOs), Programme Outcomes (POs), Programme Specific Outcomes (PSOs).

Mapping	PEO				PO												PSO	
	1	2	3	4	1	2	3	4	5	6	7	8	9	10	11	12	1	2
Level	S	S	S	M	S	S	S	S	M							S	S	S

Strong(S)	Moderate(M)	Weak(W)
Greater than 70%	Between 30%-70%	Less than 30%

5.5.12 Mentoring / Counseling students who are slow / fast learners.

Each faculty is assigned a group of students for counseling. They counsel students in all aspects. Faculty mentor students in taking exams like GRE/TOFEL/GATE/IELTS/CAT.

Mapping of the above technique with Dept. Programme Educational Objectives (PEOs), Programme Outcomes (POs), Programme Specific Outcomes (PSOs).

Mapping	PEO				PO												PSO	
	1	2	3	4	1	2	3	4	5	6	7	8	9	10	11	12	1	2
Level				S	S			S		S		S				S		

Strong(S)	Moderate(M)	Weak(W)
Greater than 70%	Between 30%-70%	Less than 30%

14. Workshops on new technologies/Tools.

Department conducts workshops and seminars by internal faculty and external resource persons for students and staff from time to time to acquire skills in new technologies/tools. This will enable them to be in touch with current trends in the computer world.

Mapping of the above technique with Dept. Programme Educational Objectives (PEOs), Programme Outcomes (POs), Programme Specific Outcomes (PSOs).

Mapping	PEO				PO												PSO	
	1	2	3	4	1	2	3	4	5	6	7	8	9	10	11	12	1	2
Level	S	S	s	M	S	S	S	S	S	M	W	W	S	S		S	S	S

Strong(S)	Moderate(M)	Weak(W)

Greater than 70%	Between 30%-70%	Less than 30%

15. Industrial Visits

Department organizes industrial visits to top Multinational Companies for students to make them aware of the best practices followed in the industry.

Mapping of the above technique with Dept. Programme Educational Objectives (PEOs), Programme Outcomes (POs), Programme Specific Outcomes (PSOs).

Mapping	PEO				PO												PSO	
	1	2	3	4	1	2	3	4	5	6	7	8	9	10	11	12	1	2
Level	S	S	S	S						S	S	S		S		S		S

Strong(S)	Moderate(M)	Weak(W)
Greater than 70%	Between 30%-70%	Less than 30%

16 Professional Societies/chapters

Department has the following professional chapters

- CSI - Computer Society of India

- IEEE – Institute of Electrical, Electronics and Engineering

- ISTE – Indian Society for Technical Education

CSI-MVSREC Student Chapter [Institution Membership No: I 00271]

It was inaugurated in January, 2011 by the then CSI chairman Mr.I.L.Narasimha Rao & CSI secretary Mr.K.Rambabu during Dr.S.Udaya Kumar as Principal,MVSREC.

The chapter started with an intention of conducting student initiated programs meeting the needs of the society and rapidly changing technology.The activities are coordinated by the CSI Student Convener & coordinators who are elected by the CSI student members through voting once in two years (i.e. alternative years).

IEEE-MVSR Student Branch [School Code:12161]

This chapter was started as an elite student group four years ago, and has sprawled through the campus of MVSR, making students technically more competitive , professional, and enhancing their abilities as engineers. It continues to grow as a professional team and acts as the driving force behind

providing technical expertise and innovation amongst all its members. It encourages global participation and to pursue the ongoing advancement and promotion of new concepts.

ISTE MVSREC [Institution Membership No:

ISTE Standards works together to support students, educators and leaders with clear guidelines for the skills, knowledge and approaches they need to succeed in the digital area. Students can demonstrate creative thinking, construct knowledge and develop innovative products and processes using technology. ISTE helps students to develop Creativity, Innovation, Communication, Collaboration, Critical thinking and Decision making.

Various Events and Activities conducted by CSI-MVSREC, IEEE-MVSREC and ISTE-MVSREC every year

- Technical Fests
- Project Exhibitions
- Workshops
- Seminars
- Guest /Specialist Lectures
- Technical Paper Presentations
- Tutorials
- Coming Events
- Quiz Programs

Mapping of the above technique with Dept. Programme Educational Objectives (PEOs), Programme Outcomes (POs), Programme Specific Outcomes (PSOs).

Mapping	PEO				PO												PSO	
	1	2	3	4	1	2	3	4	5	6	7	8	9	10	11	12	1	2
Level	S	S	S	M	S	S	S	S	S				S	S	S	S	S	S

Strong(S)	Moderate(M)	Weak(W)
Greater than 70%	Between 30%-70%	Less than 30%

17 Hackathon/Codeathon

A **hackathon** (also known as a **hack day**, **hackfest** or **codefest**) is a design sprint-like event in which computer programmers and others involved in software development, including graphic designers, interface designers, project managers, and others, often including subject-matter-experts, collaborate intensively on software projects. The department encourages students to participate in Hackathon, Codeathon and students get motivated.

Mapping of the above technique with Dept. Programme Educational Objectives (PEOs), Programme Outcomes (POs), Programme Specific Outcomes (PSOs).

Mapping	PEO				PO												PSO	
	1	2	3	4	1	2	3	4	5	6	7	8	9	10	11	12	1	2
Level	S	S	S	M	S	S	S	S	S					M	S	S	S	S

Strong(S)	Moderate(M)	Weak(W)
Greater than 70%	Between 30%-70%	Less than 30%

18. Train The Trainers

Faculty members who are newly joined and interested to learn a particular subject or they may want to enhance their teaching by learning from a faculty who is an expert in that subject.Trainee faculty imparts new technologies to other faculty who do not have awareness in that.

Course Name	Trainee Faculty	Faculty Trained	Duration
Compiler Construction Lab	M.Anupama, Assoc.Prof	V.Sathish, Asst.Prof	20 hrs
		A.Saritha, Asst.Prof	30 hrs
Web Programming and Services	V.Sridhar, Asst.Prof	D.Kavitha,Asst.Prof	10 hrs
		D.Haritha, Asst.Prof	
Discrete Structures	B.Janaiah, Asst.Prof	S.Amulya,Asst.Prof	2 Days
		G.Srishailam,Asst.Prof	
		K.V.Srilakshmi	
		K.Murali Krishna	
Network Simulator 2	G.Vijay Kumar, Assoc.Prof	D.Haritha,Assistant Prof.	1 Day
		M.Anupama, Assoc.Prof	
R Programming	Dr.A.V.Krishna Prasad, Assoc.Prof	K.Padma, Asst.Prof	1 Day
		S.Amulya, Asst.Prof	
		A.Saritha, Asst.Prof	

		D.Haritha, Asst.Prof	
Latex	Dr.B.Sandhya,Assoc.Prof T.Sujanavan,Asst.Prof	K.Padma, Asst.Prof D.Haritha, Asst.Prof B.Janaiah, Asst.Prof N.Priyanka, Asst.Prof	1 Day
CISCO Networking Academy	K.Murali Krishna, Asst.Prof. Vikram Narayandas, Asst.Prof.	K.Padma, Asst.Prof S.amulya,Asst.Prof, A.Saritha, Asst.Prof K.V.SriLakshmi, Asst.Prof D.Harith,Asst.Prof M.Anupama, Assoc.Prof	70 hrs

Mapping of the above technique with Dept. Programme Educational Objectives (PEOs), Programme Outcomes (POs), Programme Specific Outcomes (PSOs).

Mapping	PEO				PO												PSO	
	1	2	3	4	1	2	3	4	5	6	7	8	9	10	11	12	1	2
Level													S	M				

Strong(S)	Moderate(M)	Weak(W)
Greater than 70%	Between 30%-70%	Less than 30%

19 Role playing

Faculty use role play based teaching as another innovative method. Role play is a simulation in which each participant is given a role to play. Once the participants read their role descriptions, they act out their roles by interacting with one another. Some of the roles given to students can be a Teacher, Interviewer, Entrepreneur etc.

Mapping of the above technique with Dept. Programme Educational Objectives (PEOs), Programme Outcomes (POs), Programme Specific Outcomes (PSOs).

Mapping	PEO				PO												PSO	
	1	2	3	4	1	2	3	4	5	6	7	8	9	10	11	12	1	2
Level										M			S					

Strong(S)	Moderate(M)	Weak(W)
Greater than 70%	Between 30%-70%	Less than 30%

20 Teaching Aids

Faculty use charts, models and posters etc, to explain some topics in their subject which motivates the students to take interest in the subjects. Some of the charts made were 'Control Structures in C/C++', 'Class Hierarchy in Java' etc.Posters are used to illustrate difficult concepts and recent advances in the respective subjects and used in the classroom teaching.

Mapping of the above technique with Dept. Programme Educational Objectives (PEOs), Programme Outcomes (POs), Programme Specific Outcomes (PSOs).

Mapping	PEO				PO												PSO	
	1	2	3	4	1	2	3	4	5	6	7	8	9	10	11	12	1	2
Level							M		M									

Strong(S)	Moderate(M)	Weak(W)
Greater than 70%	Between 30%-70%	Less than 30%

21. Live Projects from Industry

The department identifies smart learners in pre-final year and allot them with real time projects from industry when they reach final year of study. This will give exposure to the students of the actual working conditions in the industry.

Mapping of the above technique with Dept. Programme Educational Objectives (PEOs), Programme Outcomes (POs), Programme Specific Outcomes (PSOs).

Mapping	PEO				PO												PSO	
	1	2	3	4	1	2	3	4	5	6	7	8	9	10	11	12	1	2
Level	S	S	S	S	S	S	S	S	S	S	S	S	S	S		S	S	S

Strong(S)	Moderate(M)	Weak(W)
Greater than 70%	Between 30%-70%	Less than 30%

22. Technical Apps

Faculty encourages students to develop mobile/desktop applications such as Syllabus App, Feedback App, Timetable App etc,so that the students get motivated technically and they show interest to learn about Application development software.

Mapping of the above technique with Dept. Programme Educational Objectives (PEOs), Programme Outcomes (POs), Programme Specific Outcomes (PSOs).

Mapping	PEO				PO												PSO	
	1	2	3	4	1	2	3	4	5	6	7	8	9	10	11	12	1	2
Level	S	S	M	M	S	M	S	M	S							M	S	S

Strong(S)	Moderate(M)	Weak(W)
Greater than 70%	Between 30%-70%	Less than 30%

23. Digital Library

The department maintains adigital library where ebooks related to syllabus are made available. Previous year university question papers are also available for students.

Mapping of the above technique with Dept. Programme Educational Objectives (PEOs), Programme Outcomes (POs), Programme Specific Outcomes (PSOs).

Mapping	PEO				PO												PSO	
	1	2	3	4	1	2	3	4	5	6	7	8	9	10	11	12	1	2
Level	S	S	M	M	S	M	S	M	S							M	S	S

Strong(S)	Moderate(M)	Weak(W)
Greater than 70%	Between 30%-70%	Less than 30%