

# SREE NARAYANA GURUKULAM COLLEGE OF ENGINEERING

(Affiliated to A P J Abdul Kalam Technological University & Approved by A.I.C.T.E)  
KADAYIRUPPU, KOLENCHERY



"Like the fire that emerges out of churning sticks  
That boundless wisdom comes from  
within for those who seek"

- Sree Narayana Guru

## COURSE DIARY



Code & Subject : ....CSL 331.....Systems, Software and Microprocessors Lab

Semester : .....2..... Month/Year.....September/2022

Name of Teacher : ....Shivaji P.S.....Department .....CSE.....



**SNGCE**  
Beyond Engineering...

**COURSE DIARY**



NAME : ..... SHIMI P.S .....

DESIGNATION : ..... ASST. Professor .....

MOBILE No. : ..... 9495597154 .....

DEPARTMENT : ..... Computer Science and Engineering .....

YEAR/SEMESTER : ..... 2022 | V .....

## NOTE

Kindly mark the attendance register with the following codes:

a = Absent

X = Present

Indicate L for Lecture, T for Tutorial, R for Remedial classes.

The date and period be entered chronologically after each lecture.

### **General Instructions**

- Student performance should be evaluated solely on an academic basis.
  - Student's evaluation should be fair, consistent, transparent and accountable.
  - Evaluation of students' performance should be disclosed to the students.
1. Keep the Course Diary up to date by clearly indicating the subject coverage and students attendance on the relevant pages.
  2. Paste the syllabus in the relevant page.
  3. Write/Paste the Course plan in the relevant page.
  4. Events in a semester such as Series Test days, Cultural/Celebration days, days for extra/co-curricular activities etc. may be indicated in the Year Calendar.
  5. Assignment details may be written in the Course Diary or may be filled in the Course File.
    - (i) Minimum 3 no. of assignments should be given
    - (ii) Different set of questions may be given in an assignment (at least three) to a class
    - (iii) Assignments may be in the form of written - closed/open book, individual/group, home assignment, or in the form of oral presentation, quiz, seminar etc.
  6. Show complete split up of sessional marks in the column " Internal Marks".
  7. All the entries in the course diary must be, legibly written without overwriting and free of errors.
  8. Do not count marks of class tests along with the series test for computing sessional mark.
  9. The staff member will be responsible for the safe custody of the Course Diary and (s)he should return it to the HOD at the end of semester or earlier if (s)he leaves the department or discontinue the subject.
  10. Follow KTU regulations for computing sessional marks.
  11. Teaching notes must be a part of course file



PRINCIPAL

## DISTRIBUTION OF SESSIONAL MARKS

Theory Subject	Practical / Drawing
	Regular Class Viva <b>15</b>
Assignments	Regular Class work/ Drawing/ Workshop Record/Lab Record/Class performance <b>30</b>
Tests	Tests <b>15</b>

$$\begin{array}{r} \text{Attendance} \\ \hline 15 \\ \hline 75 \end{array}$$



## **TIME SCHEDULE OF CLASSES**

Period	1	2	3	4/N	N/4	5	6	7
Day								
Mon								
Tue				SS&MP Lab				
Wed								
Thu								
Fri			SS&MP Lab					



**SREE NARAYANA GURUKULAM**  
**COLLEGE OF ENGINEERING**

KADAYIRUPPU, KOLENCHERY

**CODE OF PROFESSIONAL ETHICS FOR TEACHERS**

**TEACHERS AND THEIR RESPONSIBILITIES:-**

Who ever adopts teaching as a profession assumes the obligation to conduct himself/herself in accordance with the ideals of the profession. A teacher is constantly under the scrutiny of his students and the society at large. Therefore, every teacher should see that there is no incompatibility between his precepts and practice. The national ideas of education which have already been set forth and which he/she should seek to inculcate among students must be his / her own ideals. The profession further requires that the teachers should be calm, patient, communicative by temperament and amiable in disposition.

*Teachers should:*

1. adhere to a responsible pattern of conduct and demeanour expected of them by the community;
2. manage their private affairs in a manner consistent with the dignity of the profession.
3. seek to make professional growth continuous through study and research;
4. express free and frank opinion by participation at professional meetings, seminars, conferences etc., towards the contribution of knowledge;
5. maintain active membership of professional organisation and strive to improve education and profession through them.
6. perform their duties in the form of teaching, tutorials, practical and seminar work consistently and with dedication;



7. co-operate and assist in carrying out house functions relating to the educational responsibilities of the college and the University such as; assisting in appraising application for admission, advising and counselling students as well as assisting in the conduct of university and College Examinations, including supervision, invigilation and evaluation; and
8. participate in the extension, co-curricular and extra – curricular activities including community service.

## **II TEACHERS AND THE STUDENTS**

*Teachers should :*

1. respect the right and dignity of the students in expressing his/her opinions;
2. deal justly and impartially with the students regardless of their religion, caste, political, economic, social and physical characteristics;
3. recognize the difference in attitude and capabilities among students and strive to meet their individual needs.
4. encourage students to improve their attainment, develop their personalities and at the same time contribute to community welfare;
5. inculcate among students scientific outlook and respect for physical labour and ideals of democracy, patriotism and peace;
6. be affectionate to the students and not behave in a vindictive manner towards any of them for any reason;
7. pay attention to only the attainment of the student in the assessment of merit;
8. make themselves available to the students even beyond their class hours and help and guide students without any remuneration or reward;
9. aid students to develop an understanding of our national heritage and national goals, and
10. refrain from inciting students against other students, colleagues or administration.

## **III TEACHERS AND COLLEAGUES**

*Teachers should :*

1. Treat other members of the profession in the same manner as they themselves



wish to be treated

2. speak respectfully of other teachers and render assistance for professional betterment;
3. refrain from lodging unsubstantiated allegations against colleagues to higher authorities;
4. refrain from allowing consideration of caste, creed, religion, race or sex in their professional endeavour.

#### **IV TEACHERS AND AUTHORITIES**

*Teachers should :*

1. discharge their professional responsibilities according to the existing rules and adhere to procedures and methods consistent with their profession in initiating steps through their own institutional bodies and/or professional organisations for change of any such rule detrimental to the professional interest;
2. refrain from undertaking any other employment and commitment including private tuition and coaching classes which are likely to interfere with their professional responsibilities;
3. co-operate in the formulation of policies of the institution by accepting various offices and discharge responsibilities which such offices will demand.
4. co-operate through their organisations in the formulation of policies of their institution and accept offices;
5. co-operate with the authorities for the betterment of the institution keeping in view the interest and in conformity with dignity of the profession;
6. should adhere to the conditions of contract;
7. give and expect due notice before a change of position is made; and
8. refrain from availing themselves of leave except on unavoidable grounds and as far as practicable with prior intimation, keeping in view their particular responsibility for completion of academic schedule.



## **V TEACHERS AND NON - TEACHING STAFF**

1. teachers should treat the non-teaching staff as colleagues and equal partners in a co-operative undertaking, within every educational institution.
2. teachers should help in the function of joint staff-councils covering both teachers and the non-teaching staff.

## **VI TEACHERS AND GUARDIANS**

1. Teachers should :- Try to see through teachers bodies and organisations that institutions maintain contact with the guardians of their students, send reports of their performance to the guardians whenever necessary and meet the guardians in meetings convened for the purpose for mutual exchange of ideas and for the benefit of the institution.

## **VII TEACHERS AND SOCIETY**

*Teachers should:-*

1. recognize that education is a public service and strive to keep the public informed of the educational programmes which are being provided.
2. work to improve education in the community and strengthen the community's moral and intellectual life;
3. be aware of social problems and take part in such activities as would be conducive to the progress of society and hence the country as a whole.
4. perform the duties of citizenship, participate in community activities and should accept responsibilities of public offices:
5. refrain from taking part in or subscribing to or assisting in any way activities which tend to promote feeling of hatred or enmity among different communities, religions or linguistic groups but actively work for National Integration.



Class No.	Name	Month	September 2022												October											
			L.T.R				P P P P P P P P P P P P P P P P				P P P P P P P P P P P P P P P P				P P P P P P P P P P P P P P P P				P P P P P P P P P P P P P P P P				P P P P P P P P P P P P P P P P			
			Date	20	26	30	30	14	14	18	18	24	1	2	3	2	3	4	1	2	3	2	3	4	1	
1.	Aoyani S. Kumar	5	XXX	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
2.	Abhijith K.B.	3	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
3.	Abhimanyu V.M.	8	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
4.	Abhinav P.S.	6	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
5.	Abhiram K.Rajan	5	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
6.	Abhishek Sunil	3	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
7.	Adams Jacob	5	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
8.	Adarsh Anil	6	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
9.	Adheena Dev	3	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
10.	Adithyan Shiju	11	AAA	AA	AA	AA	AA	AA	AA																	
11.	Aiswarya Bindu	3	AAA	AA	AA	AA	AA	AA	AA																	
12.	Ajay Joy	2	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
13.	Ajin Johnson	3	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
14.	Akshay Shaji	2	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
15.	Alan Ferny	6	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
16.	Anandu Vijayan	5	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
17.	Anagha P.	5	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
18.	Anandha Krishnan CG	6	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
19.	Anandhu Saji	5	AA	AA	AA	AA	AA	AA	AA	AA	AA	AA	AA	AA	AA	AA	AA	AA	AA	AA	AA	AA	AA	AA	AA	
20.	Anandhu Ajithkumar	5	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
21.	Anania Santhosh	5	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
22.	Anula Anari	5	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
23.	Anjima Madhu	5	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
24.	Anjitha P.S.	2	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
25.	Antik Suder	5	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
26.	Ann Mary George	5	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
27.	Anthony C Robert	6	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
28.	Aravind Venugopal	2	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	



Total No. of Class  
Initial of faculty

1 2 3 4 5 3 4 5 6 7 8 6 8 9  
9 9 8 8 9 9 6 6 2 2 6 6

5/

November											
1	2	3	4	5	6	7	8	9	10	11	12
13	14	15	16	17	18	19	20	21	22	23	24
25	26	27	28	29	30	1	2	3	4	5	6
7	8	9	10	11	12	13	14	15	16	17	18
19	20	21	22	23	24	25	26	27	28	29	30
31	1	2	3	4	5	6	7	8	9	10	11

5/11/2022  
Sundar  
21/11/2022

Class No	Name	Month
		LTR
		Date
		Period
1.	Aayani S. Kumar	5
2.	Abhishek K.B.	3
3.	Abhiram V.M.	8
4.	Abhinav P.S.	6
5.	Abhiram K.Rajan	
6.	Abhishek Sunil	3
7.	Adams Jacob	5
8.	Adarsh Anil	12
9.	Adheena Dev	3
10.	Adithyan Shiju	11
11.	Aishwarya Bina	3
12.	Ajay Saji	2
13.	Ajin Johnson	3
14.	AKShay Shaji	2-10
15.	Alan Tony	8
16.	Anandu Vijayan	
17.	Anagha P.	
18.	Anandha Krishnan CG.	6
19.	Anandhu Saji	6
20.	Anandhu Ajithkumar	
21.	Anania Santhosh	
22.	Anuta Ansari	
23.	Anjima Madhu	
24.	Anjitha P.S.	2
25.	Ansul Suder	
26.	Ann Mary George	
27.	Antony C Robert	1
28.	Aravind Venugopal	2



Total no. of Classes  
Initial of faculty

Class No	Name	
1.	Aayani S. Kumari	5
2.	Abhijith K.B.	3
3.	Abhimanyu V.M.	8
4.	Abhinav P.S.	4
5.	Abhiram K.Rajan	3
6.	Abhishek Sunil	3
7.	Adams Jacob	5
8.	Adarsh Anil	b
9.	Adheena Dev	3
10.	Adithyan Shiju	3
11.	Aiswarya Biru	3
12.	Ajay Soji	2
13.	Ajin Johnson	3
14.	Akshay Shaji	2
15.	Alan Jerry	4
16.	Amrou Vijayan	2
17.	Anagha P.	3
18.	Anandha Krishnan CG	3
19.	Anandhu Soji	3
20.	Anandhu Ajithkumar	3
21.	Anania Santhosh	3
22.	Anila Ansari	3
23.	Anjima Madhu	3
24.	Anjitha P.S.	3
25.	Ankil Suder	3
26.	Ann Mary George	3
27.	Antony C Robert	3
28.	Aravind Venugopal	3



Class No	Name
1.	Aayani B. Kumarat 5
2.	Abhijith K.B. 3
3.	Abhimanyu V.M. 8
4.	Abhinav P.S. 6
5.	Abhiram K. Rajan 3
6.	Abhishek Sunil 3
7.	Adams Jacob 5
8.	Adarsh Anil 10
9.	Adheena Dev 3
10.	Adithyan Shiju 11
11.	Aiswarya Biru 3
12.	Ajay Joy 2
13.	Ajin Johnson 3
14.	AKshay Shaji 2
15.	Alan Jerry 4
16.	Ankith Vijayan
17.	Anagha P.
18.	Anandha Krishnan CG
19.	Anandhu Saji
20.	Anandhu Ajith Kumar 5
21.	Ananya Santhosh
22.	Anula Ansari
23.	Arjima Madhu
24.	Arjitha P.S. 2
25.	Ankil Suder
26.	Ann Mary George
27.	Antony C Robert
28.	Aravind Venugopal

Total No. of Class

Initial of faculty



	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
1.	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	
2.	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	
3.	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	
4.	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	
5.	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	
6.	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	
7.	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	
8.	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	
9.	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	
10.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
11.	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	
12.	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	
13.	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	
14.	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	
15.	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	
16.	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	
17.	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	
18.	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	
19.	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	
20.	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	
21.	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	
22.	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	
23.	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	
24.	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	
25.	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	
26.	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	
27.	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	
28.	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	

Regular Class Viva (15)

9/12	14/15	2/2
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Total



Class No	Name	
1.	Aayani S. Kumar	5
2.	Abhijith K.B.	3
3.	Abhimanyu V.M.	8
4.	Abhinav P.S.	1
5.	Abhiram K. Rajan	
6.	Abhishek Sunil	3
7.	Adams Jacob	5
8.	Adarsh Anil	b
9.	Adheena Dev	3
10.	Adithyan Shiju	WII
11.	Aiswariya Biru	3
12.	Ajay Joy	2
13.	Ajin Johnson	3
14.	Akshay Shaji	2
15.	Alan Paroy	x
16.	Anoush Vijayan	
17.	Anagha P.	
18.	Anandha Krishnan CG	
19.	Anandhu Saji	
20.	Anandhu Ajithkumar	
21.	Anania Santhosh	
22.	Anuila Ansari	
23.	Anjima Madhu	
24.	Anjitha P.S.	
25.	Ankit- Suder	
26.	Ann Mary George	
27.	Antony C Robert	
28.	Ayavind Venugopal	



Total No. of Class

Initial of faculty



35 36 37 38 39

二

Systech Software and Microprocessor Lab.

Class : R5A

Subject with Code No : CSL331

No. of period per week : 3+3

Class No.	Name	Month	September										October										
			LT/IR	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	
		Date	20 20 26 26 26 26 30 30 19 19 19 25 25 25 25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
		Period	3 A	3	3	4	2	3	4	2	3	4	2	3	4	2	3	4	1				
29.	Andra Suresh			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
30.	Ajmal Biju	3		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
31.	Ashin Girish	3+4		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
32.	Ashly Shaji	3+4		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
33.	Aishna Suresh			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
34.	AS Wal K. Sunil	3+4		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
35.	Aswan I.E.S.	3+4		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
36.	Av. Guruprasad	3+4		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
37.	Basil Baby	3+4		O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O
38.	Basakew paul	3+4		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
39.	Basil kunjunan	3		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
40.	Bhagyalakshmi Biju	3+4		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

NOVEMBER												DECEMBER											
29	1	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	2
30	2	2	2	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3	3	3
31	4	4	4	4	4	4	4	4	4	4	4	5	5	5	5	5	5	5	5	5	5	5	5
1	6	6	6	6	6	6	6	6	6	6	6	7	7	7	7	7	7	7	7	7	7	7	7
2	8	8	8	8	8	8	8	8	8	8	8	9	9	9	9	9	9	9	9	9	9	9	9
3	10	10	10	10	10	10	10	10	10	10	10	11	11	11	11	11	11	11	11	11	11	11	11
4	12	12	12	12	12	12	12	12	12	12	12	13	13	13	13	13	13	13	13	13	13	13	13
5	14	14	14	14	14	14	14	14	14	14	14	15	15	15	15	15	15	15	15	15	15	15	15
6	16	16	16	16	16	16	16	16	16	16	16	17	17	17	17	17	17	17	17	17	17	17	17
7	18	18	18	18	18	18	18	18	18	18	18	19	19	19	19	19	19	19	19	19	19	19	19
8	20	20	20	20	20	20	20	20	20	20	20	21	21	21	21	21	21	21	21	21	21	21	21
9	22	22	22	22	22	22	22	22	22	22	22	23	23	23	23	23	23	23	23	23	23	23	23
10	24	24	24	24	24	24	24	24	24	24	24	25	25	25	25	25	25	25	25	25	25	25	25
11	26	26	26	26	26	26	26	26	26	26	26	27	27	27	27	27	27	27	27	27	27	27	27
12	28	28	28	28	28	28	28	28	28	28	28	29	29	29	29	29	29	29	29	29	29	29	29



Total No. of Class  
Initial of faculty

1 2 3 4 5 6 7 8 9 10 11 12  
9 9 9 9 9 9 9 9 9 9 9 9

6/

Smitha  
2/11/2011

Class  
No.

160

- |     |                    |     |
|-----|--------------------|-----|
| 29. | Ardra Suresh       |     |
| 30. | Arenal Biju        | 3   |
| 31. | Ashin Girish       | 3+4 |
| 32. | Ashly Shaji        | 3+4 |
| 33. | Aishna Suresh      |     |
| 34. | As Wal k. Sunil    | 3+4 |
| 35. | Aswan K.S.         | 3+3 |
| 36. | AV. Guruprasad     | 3+  |
| 37. | Basil Baby         | 3+3 |
| 38. | Basilious paul     | 3+  |
| 39. | Basil kunjunnon    | 3   |
| 40. | Bhagyalakshmi Biju | 3   |



Total No. of Class

**Initial of faculty**

Page

1-34

20 21 22 23 24 25 26 27

Class R5A

Subject with Code No: C  
Systems

Class  
No

Name

- 29. Andra Suresh
- 30. Arreval Biju
- 31. Ashin Girish
- 32. Ashly Shaji
- 33. Ashna Suresh
- 34. Aswath h. Sunil
- 35. Aswan K.S.
- 36. Av. Guruprasad
- 37. Basil Baby
- 38. Basakous Paul
- 39. Basil kunjumon
- 40. Bhagyalakshmi Biju

Performance / Result (20)

1st

24	30	25	15
29	30	30	30
30	30	30	30
31	30	0	0
32	30	0	30
33	30	30	30
34	30	0	30
35	30	30	30
36	30	30	30
37	30	0	25
38	30	0	30
39	30	0	30
40	30	0	30



Class  
No

Name

29. Andra Suresh  
 30. Aranmal Biju  
 31. Ashin Girish  
 32. Ashly Shaji  
 33. Ashna Suresh  
 34. Aswath K. Sunil  
 35. Aswan K.S.  
 36. Av. Guruprasad  
 37. Basil Baby  
 38. Basalious Paul  
 39. Basil Kunjumon  
 40. Bhagyalakshmi Biju

Total No. of Class

Initial of faculty



1 Oct - 1 Nov.

29	15	15	15	15	15
30	15	15	a	15	
31	15	a	14	a	
32	15	a	15	a	
33	15	15	14	14	
34	15	a	14	a	
35	15	15	15	a	15
36	15	15	14	a	15
37	15	15	14	a	15
38	15	a	14	a	
39	15	15	14	15	15
40	15	a	14	a	15

Regular Class Viva (15)



No. of periods per week		3+3	SUBJECT COVERAGE		Total Expected	
Module	Sl. No of Periods	Dates Planned	Topics Covered	Dates Engaged:	Period	Mode of Instruction/ Remarks
V CO4	10	20/9/22 26/9/22 30/9/22 14/10/22 18/10/22 21/10/22 25/10/22 28/10/22 1/11/22	CPU Scheduling Algorithms 1. FCFS			
				20/9/22	3,4	Batch 1 & 2
			2 SJF, Priority Scheduling 3	26/9/22	2,3,4	Batch 1
				30/9/22	2,3,4	Batch 2
			4. Round Robin Algorithms, Banks's Algorithms (Deadlock Avoidance).	14/10/22 18/10/22	1,2,3 2,3,4	Batch 1 Batch 2
			Disk Scheduling Algorithms FCFS, SCAN, C-SCAN.	21/10/22	1,2,3	Batch 1.
				25/10/22	2,3,4	Batch 2
			Page Replacement Algorithms LRU, LFU, FIFO	28/10/22	1,2,3	Batch 1.
				1/11/22	2,3,4	Batch 2.
			Pass 1 of two pass Assembler	1/11/22	1,2,3	Batch 1.
VI CO5	5	4/11/22 11/11/22		1/11/22	2,3,4	Batch 2.
			Pass 2 of two pass Assembler			



Verifed  
Anitha  
11/11/22

No. of periods  
per week

3+3

## SUBJECT COVERAGE

Total Expected

Module	Sl. No of Periods	Dates Planned	Topics Covered	Dates Engaged	Period	Mode of Instruction/ Remarks
VI						
C05						
		14/11/22	Single pass Assembler	14/11/22	1,2,3	Batch 1
		18/11/22	Two pass macro processor	15/11/22	2,3,4	Batch 2
		21/11/22	Single pass macro processor	22/11/22	2,3,4	Batch 1
		25/11/22	Absolute Loader	29/11/22	2,3,4	
			Relocating Loader	29/11/22	2,3,4	Batch 2.
I			<u>Microprocessor Lab.</u>			
			<u>Trainer kit Experiments</u>			
C01						
			Decimal Arithmetic			
		29/11/22	and bit manipulation operations.	6/12/22	2,3,4	Batch 1
				9/12/22	1,2,3	Batch 2
		2/12/22	Code conversions between BCD, Binary, Hexadecimal and ASCII.			



No. of periods  
per week

S13

## SUBJECT COVERAGE

Total Expected

Module	Sl. No of Periods	Dates Planned	Topics Covered	Dates Engaged	Period	Mode of Instruction/ Remarks
II			<u>Masimo Experiments</u>			
CQ2		6/12/22	16 and 32 bit Decimal Arithmetic operations	6/12/22	7	Batch 1
		9/12/22	String Manipulation programs	6/12/22	7	Batch 2
		16/12/22	Searching and sorting	7/12/22	5	Batch 1
		20/12/22	of 16 bit numbers			Batch 2
III		23/12/22	Interfacing with Stepper motor - Rotate through any sequence.	16/12/22 1,2,3		Batch 1
CQ3		27/12/22	Interfacing with 8279.	20/12/22 2,3,4		Batch 2
			<u>8051 Trainer kit</u>			
		30/12/22	Decimal Arithmetic and Bit manipulation operations	28/12/22 1,2,3		Batch 1
		31/1/23	Timer Programming (mode 1)			Batch 2



## Syllabus

### MICROPROCESSOR LAB

- I. Assembly Language Programming Exercises/Experiments using 8086 Trainer kit
- II. Exercises/Experiments using MASM (PC required)
- III. Interfacing Exercises/Experiments with 8086 trainer kit through Assembly Language programming
- IV. Exercises/Experiments using 8051 trainer kit

### SYSTEM SOFTWARE LAB:

- I. Experiments related to the operating system.
- II. Exercises/Experiments related to the assemblers, loaders and macroprocessors



**Text Books**

1. Bhurchandi and Ray, Advanced Microprocessors and Peripherals, Third Edition McGraw Hill.
2. Andrew S Tanenbaum, "Modern Operating Systems", 4th Edition, Prentice Hall, 2015.
3. Leland L Beck, System Software: An Introduction to Systems Programming, 3/E, Pearson Education Asia, 1997.

**Reference Books**

1. A. NagoorKani, Microprocessors and Microcontrollers, Second Edition, Tata McGraw Hill
2. Douglas V. Hall, SSSP Rao, Microprocessors and Interfacing, Third Edition, McGrawHill Education.
3. William Stallings, "Operating systems", 6th Edition, Pearson, Global Edition, 2015.
4. Garry Nutt, Nabendu Chaki, Sarmistha Neogy, "Operating Systems", 3rd Edition, Pearson Education.
5. D.M. Dhamdhere, Systems Programming and Operating Systems, Second Revised Edition, Tata McGraw Hill.

**Practice Questions****MICROPROCESSORS LAB : List of Exercises/ Experiments**

(Minimum 10 Exercises (at least 2 questions from each part I, II, III &amp; IV)) : 2 Hrs/week

**I. Assembly Language Programming Exercises/Experiments using 8086 Trainer kit**

- ✓ 1. Implementation of simple decimal arithmetic and bit manipulation operations. — 1 hr
- ✓ 2. Implementation of code conversion between BCD, Binary, Hexadecimal and — 1 hr. ASCII.
- 3. Implementation of searching and sorting of 16-bit numbers.

**II. Exercises/Experiments using MASM (PC Required)**

- 4. Study of Assembler and Debugging commands.
- ✓ 5. Implementation of decimal arithmetic (16 and 32 bit) operations. 1 hr
- ✓ 6. Implementation of String manipulations. 1 hr
- ✓ 7. Implementation of searching and sorting of 16-bit numbers. 1 hr

**III. Interfacing Exercises/Experiments with 8086 trainer kit through Assembly Language Programming**

- ✓ 8. Interfacing with stepper motor - Rotate through any given sequence. 1 hr
- ✓ 9. Interfacing with 8255 (mode0 and mode1 only). 1 hr
- ✓ 10. Interfacing with 8279 (Rolling message, 2 key lockout and N-key rollover implementation).



11. Interfacing with Digital-to-Analog Converter.

#### IV. Exercises/Experiments using 8051 trainer kit

11. Familiarization of 8051 trainer kit by executing simple Assembly Language programs such as decimal arithmetic and bit manipulation.
12. Implementation of Timer programming (in model).

#### SYSTEM SOFTWARE LAB: List of Exercises/ Experiments

(Minimum 8 Exercises (at least 3 and 5 questions from each part V and VI)) : 2 Hrs/week

#### V. Exercises/Experiments from operating system

1. Simulate the following non-preemptive CPU scheduling algorithms to find turnaround time and waiting time.
  - a) FCFS
  - b) SJF
  - c) Round Robin (pre-emptive)
  - d) Priority
2. Simulate the following file allocation strategies.
  - a) Sequential
  - b) Indexed
  - c) Linked
3. Implement the different paging techniques of memory management.
4. Simulate the following file organization techniques
  - a) Single level directory
  - b) Two level directory
  - c) Hierarchical
5. Implement the banker's algorithm for deadlock avoidance.
6. Simulate the following disk scheduling algorithms.
  - a) FCFS
  - b) SCAN
  - c) C-SCAN
7. Simulate the following page replacement algorithms:
  - a) FIFO
  - b) LRU
  - c) LFU

#### VI. Exercises/Experiments from assemblers, loaders and macroprocessor

1. Implement pass one of a two pass assembler.
2. Implement pass two of a two pass assembler.
3. Implement a single pass assembler.
4. Implement a two pass macro processor
5. Implement a single pass macro processor.
6. Implement an absolute loader.
7. Implement a relocating loader.

