KAMARAJ
COLLEGE OF ENGINEERING & TECHNOLOGY
(An Autonomous Institution - AFFILIATED TO ANNA UNIVERSITY, CHENNAI)
S.P.G.Chidambara Nadar - C.Nagammal Campus
S.P.G.C. Nagar, K.Vellakulam - 625 701, (Near Virudhunagar), Madurai District.

DEPARTMENT OF EEE
M.E.POWER SYSTEMS ENGINEERING

ACADEMIC YEAR 2020-2021 (Odd Semester)

YEAR: I st P.G. SEMESTER: 01

CLASS COMMITTEE REPORT

KAMARAJ
COLLEGE OF ENGINEERING & TECHNOLOGY

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S.P.G.Chidambara Nadar - C.Nagammal Campus
S.P.G.C.Nagar, K.Vellakulam - 625 701, (Near Virudhunagar), Madurai District.

Department of Electrical and Electronics Engineering

M.E. Power Systems Engineering

ACADEMIC YEAR 2020-2021 (Odd Semester)

All the staff members handling classes for I[st] year P.G. Power Systems Engineering are requested to attend the class committee meeting.

S.No	Staff Name	DATE & VENUE										
		11/01/2021	25/01/2021	09/02/2021	23/02/2021	08/02/2021	15/03/2021	29/03/2021				
1.	Mrs.B.NoorulHamitha, AP/EEE											
2.	Dr.J.JeslinDrusilaNesamalar, AP/EEE											
3.	Dr.S.Rajesh Babu, AP/EEE											
4.	Dr.M.Sudalaimani, AP/EEE											
5.	Dr.D.PrinceWinston, Professor/EEE											
6.	Dr.A.Thamilisai AP/Maths											
	Student Representatives 1. P.Sathya					-	-	-				
Signature of Chairperson												
Signature of HoD												
Signature of Dean for Academic Courses												

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DATE: 11/01/2021

AGENDA FOR CLASS COMMITTEE MEETING

1. Academic Schedule.

Period for report	Assessment Test period
30.12.2020 to 13.02.2021	08.02.2021 to 13.02.2021
15.02.2021 to 20.03.2021	15.03.2021 to 20.03.2021
22.03.2021 to 03.04.2021	29.03.2021 to 03.04.2021

2. Target for the current subjects.
3. NPTEL COURSE Registeration.
4. Cocurricular & Extracurricular activities.
5. Subject difficulties.

S. R

CLASS COMMITEEE IN-CHARGE

HoD/EEE

Staff Signature:

B.NH	J.JDN	S.RB	M.SM	D.PW	A.T

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CLASS COMMITTEE REPORT

M.E. Power Systems Engineering

CLASS: I[st] M.E. PSE SEMESTER: 01 DATE: 11/01/2021

SUB. CODE	SUBJECT NAME	FACULTY NAME	SYLLABUS COMPLETION	DIFFICULTIES	STEPS TAKEN
PS1101	Advanced Power System Operation and Control	Mrs.B.NoorulHamitha, AP/EEE	10%	-	-
PS1102	Computer Aided PSA Theory cum Lab	Dr.J.JeslinDrusilaNesamalar, AP/EEE	10%	-	-
PS1103	Electromagnetic Transients in Power System	Dr.S.Rajesh Babu, AP/EEE	10%	-	-
PS1104	System Theory	Dr.M.Sudalaimani, AP/EEE	10%	-	-
PS1136	Solar and Energy Storage Systems	Dr.D.PrinceWinston, Professor/EEE	10%	-	-
MA1103	Applied mathematics for Power system Engineers	Dr.A.Thamilisai AP/Maths	10%	-	-

Chairperson HoD Dean for Academic Courses

Class Representatives:
1. Miss.P.Sathya P. Sathya.

Staff Signature:

B.NH	J.JDN	S.RB	M.SM	D.PW	A.T

Important Points from Minutes of the Previous Meeting (Date: 11/01/2021)

Academic Schedule.

Target for the current semester subjects is fixed as 100%.

Important Points from Minutes of the Meeting (Date: 11/01/2021)

NPTEL Courses registeration.

Current Semester subjects discussion.

Actions, if any taken for grievances reported by students in the Previous Meeting:

— (Date : ~~11/01/2021~~)

S. Rajkumar
Chairperson

HoD/EEE

Dean for Academic Courses

Minutes of meeting.

1. Safety measures need to be followed as per government directions.
2. NPTEL Courses need to be registered
   List of eligible courses
   1. Power system Engineering
   2. Statiscial signal processing.
   3. Advanced control Systems.
3. NPTEL courses 12 ~~hours~~ weeks course need to registered.
4. Research proposals need to submitted for agencies like DST, AICTE, SERB.
5. Literature survey need to be made for submitting research proposals.
6. More concentration need to be ~~made~~ given for Advanced mathematics.

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DEPARTMENT OF EEE

ACADEMIC YEAR 2020-2021 (EVEN Semester)

YEAR: II EEE SEMESTER: IV

CLASS COMMITTEE REPORT

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DEPARTMENT OF ELECTRICAL &ELECTRONICS ENGINEERING

ACADEMIC YEAR 2020-2021 (EVEN SEMESTER)

All the staff members handling classes for II Year B.E. (EEE) are requested to attend the class committee meeting.

S.No	Staff Name	DATE							
		15/02/2021	01/03/2021	15/03/2021	29/03/2021	16/04/2021	26/04/2021	10/05/2021	24/05/2021
1.	Mr.R.Ganesan/EEE								
2.	Mr.K.Ganesan/EEE								
3.	Dr.S.Rajeshbabu/EEE								
4.	Dr.M.Sudalaimani/EEE								
5.	Dr.J.Jeslin Drusila Nesamalar/EEE								
6.	Mr.S.Gopinath/Maths Dr.Brindha/Maths								
7.	Mr.A.Karthikeyan/EEE								
8.	Mr.S.Jegan/EEE								
	Student Representatives: 1. Puruchothaman.K				—	—	—	—	—
	2. Sri AnanthaSeshan.K.M				—	—	—	—	—
	3. Jayashree.S				—	—	—	—	—
	4. Shalini.S				—	—	—	—	—
Signature of Chairperson									
Signature of HoD									
Signature of Dean Academics									

KAMARAJ
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DATE: 15/02/21

AGENDA FOR CLASS COMMITTEE MEETING

1) Dissemination of Vision, Mission, PEOs, PSOs
2) Maintaining COVID'19 Protocols
3) Subject difficulties
4) Class Attendance
5) Involvement in co-curricular activities
6) Dress code & ID card
7) Time table & Saturday order
8) Class room - rearrangement of desks

Staff Signature:

Mr. R.G.	Mr. K.G.	Dr. S.RB	Dr. M.S.	Dr. J.JDN	Mr.S.G	Mr.A.K.	Mr.S.J

CLASS COMMITTEE IN-CHARGE

HoD/EEE

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CLASS COMMITTEE REPORT

CLASS: II EEE SEMESTER: IV DATE: 15/02/21

SUBJECT CODE	SUBJECT NAME	FACULTY NAME	SYLLABUS COMPLETION	DIFFICULTIES	STEPS TAKEN
EE8401	Electrical Machines-II	Mr.R.Ganesan/EEE	10 %	–	–
EE8402	Transmission and Distribution	Mr.K.Ganesan/EEE	10 %	–	–
EE8403	Measurements and Instrumentatio	Dr.S.Rajeshbabu/EEE	10 %	–	–
IC8451	Control System	Dr.M.Sudalaimani/EEE	10 %	–	–
EE8451	Linear Integrated Circuits and Application	Dr.J.Jeslin Drusila Nesamalar/EEE	10 %	–	–
MA8491	Numerical Methods	Mr.S.Gopinath/Maths Dr.Brindha/Maths	12 %	–	–
EE8411	Electrical Machines Laboratory –	Mr.A.Karthikeyan/EEE Dr.S.Rajeshbabu/EEE	Preassesment was Completed	–	–
EE8461	Linear and Digital Integrated Circ Lab	Mr.S.Jegan/EEE Ms.R.Reenu/EEE	Preassesment was done	–	–

Chairperson HoD /EEE Dean Academic Courses

Class Representatives:

1. K.Puvan
2. [signature]
3. [signature]
4. S.[signature]

Mr. R.G.	Mr. K.G.	Dr. S.RB	Dr. M.S.	Dr. J.JDN	Mr.S.G	Mr.A.K.	Mr.S.J
[signature]	[signature]	[signature]	[signature]	[signature]	[signature]	[signature]	[signature]

Important Points from Minutes of the Previous Meeting (Date: —)

Important Points from Minutes of the Meeting (Date: 15/2)

- Course Plan to be circulated
- Second Saturday to be given holiday
- Machines-1 basics to be taught in two classes & students have requested R. Ganesan sir
- Textbooks to be given.
- LIC will be cobhared with FTE faculty
- LIC, Control System - common papers

Actions, if any taken for grievances reported by students in the Previous Meeting: (Date : —)

Chairperson
15/2/21

HoD/EEE

Dean Academic Courses

Additional:-

1) 5 Lateral Entry students

Hariharan A

Harikrishnan. S

Sakthisundar. P

Arun Karthick

Prakash Raj M

has been informed to give the course completio certificate of their Diploma course as early. Undertaking letters will be obtained again for the continuation of IV semester

* It seems, the online classes of III semester had ~~more~~ ~~lacking~~ lacked the face-face teaching in explaining several core concepts

. The III semester core papers can be given as a few lecture hours for better understandability & continuity for IV semester

Courses needed:-

(1) Electrical Machines-I

(2) Electron Devices & Circuits

(3) Digital Logic Circuits

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IAPRE06.1

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING &

DEPARTMENT OF INFORMATION TECHNOLOGY

Rubrics for Question Paper Scrutiny- Internal Assessment

Name of the Staff : Ms. K. Muthulakshmi, AP/CSE, Ms. S. Janani, AP/CSE

Class : II yr (CSE & IT) Date of Submission : 22.4.2021

Sub. Code/ Sub. Name : CS8451/ Design and Analysis of Algorithms

Name of the Subject Expert : Dr. P. Subathra Prof./IT Cycle Test : 2

Syllabus Coverage

As per Course Plan	Actual Coverage	Justification if Any
30%	30%	--

List of Course Outcomes Covered

CO Index	Course Outcomes	Bloom's Taxonomy (Knowledge Level)
CO3	Illustrate Greedy and Dynamic Programming techniques for Graph and Combinatorial Problems.	K2 - Understand
C04	Interpret the roles of iterative improvement technique to solve real world problems.	K2 - Understand

Check list

S. No.	Items to be checked	Yes/ No	Remarks / Actions if any
1.	Adherence to the given QP pattern for the batch	Yes	
2.	Presence of Typographical Errors	No	
3.	Presence of Grammatical Errors	No	
4.	Appropriateness of verbs used as per the knowledge level committed	Yes	
5.	Appropriateness of knowledge level addressed as per the CO	Yes	
6.	Appropriateness of weightage assigned to respective CO	Yes	
7.	Equal weight age (marks) given for subdivisions in either or choices with respect to COs	NA	
8.	Either or choices represent equal knowledge levels	NA	
9.	Difficulty level- Existence of scope for average/below average learners to score 50% marks	Yes	
10.	Challenge level- Scope for evaluation of higher order thinking skills given	Yes	

Rectified

Overall Comments by Subject Expert

Questions set as per norms

22/4/2021

Signature of Subject Expert

22/4/2021 22/04/2021

Signature of the HoD/IT & CSE

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B.E./B.Tech. Degree Examinations

Academic Session FEB 2021 - APR 2021/ EVEN SEM

Department of Computer Science and Engineering and Information Technology

Cycle test: II

Semester: IV

Subject Code and Name: CS8451- Design and Analysis of Algorithm

(Regulation: AU R2017)

ONLINE EXAMINATION – MCQ TYPE

Time: 50 Minutes **Maximum Marks: 60**

CO Index	Course Outcomes	Blooms Taxonomy Level
CO 3	Illustrate Greedy and Dynamic Programming techniques for Graph and Combinatorial Problems.	K2 - Understand
CO 4	Interpret the roles of iterative improvement technique to solve real world problems.	K2 - Understand

Part A (30 x 1 = 30 Marks)

Q. No.	Question	Blooms Taxonomy Level	CO Index
1.	Name the type of data structure that can be given as the input for finding the minimum spanning tree. a) Stack **b) Connected graph** c) Tree d) List	K2 - Understand	CO 3
2.	Exhaustive search is when a) Brute force applied to numeric problems **b) Brute force applied to combinatorial problems** c) Greedy approach applied to numeric problems d) Greedy approach applied to combinatorial problems	K1 - Remember	CO 3
3.	In greedy technique, once the choice is made in each step, that cannot be changed. What is name of this property? a) Principle of Optimality **b) Irrevocable** c) Infeasible d) Reusable	K2 - Understand	CO 3

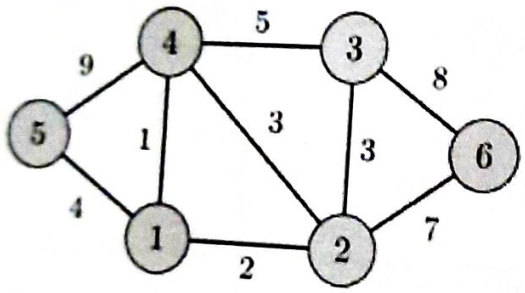
4.	Which algorithm needs initial preprocessing of arranging the edges weights in non-decreasing order to find the minimum spanning tree? **a) Kruskal's Algorithm** b) Prim's Algorithm c) Warshall's Algorithm d) Floyds Algorithm	K1 - Remember	CO 3
5.	What is the time complexity of Prims Algorithm? **a) O(|E|log|V|)** b) O(log|E|) c) O(log|V|) d) O(|V|log|E|)	K1 - Remember	CO 3
6.	The cost of minimum spanning tree found for a graph by Prim's algorithm is A and that done on the same graph by kruskal's algorithm is B. Choose the right answer: **a) A is always equal to B** b) A is never equal to B c) A is sometimes equal to B d) A is greater than B	K2 - Understand	CO 3
7.	What is the use of Ford Fulkerson Algorithm? **a) Finding Maximum flow in a graph** b) Finding Maximum Matching in a bipartite graph c) Finding Maximum profit d) Finding the shortest path in a graph	K1 - Remember	CO 4
8.	Greedy Technique _____ when applied to a problem. a) always gives optimal solution b) never gives optimal solution **c) always gives a feasible solution** d) never gives a feasible solution	K2 - Understand	CO 3
9.	What type of encoding scheme has advantages of using minimum number of bits for representing the frequently used characters / symbols? a) Fixed Length encoding **b) Variable Length encoding** c) Mixed Length encoding d) Optimal Length encoding	K2 - Understand	CO 3

10.	Decode the string "11011100101" for the following encoding scheme (Huffman Coding). **character code-word** f 0 c 100 d 101 a 1100 b 1101 e 111 a)dad **b)bad** c)cad d)dab	K2 - Understand	CO 3
11.	Select the invalid code from the following codes(Refer the encoding scheme given in Problem 10) a) 0100 b) 101111 **c) 1111** d) 100111	K2 - Understand	CO 3
12.	Categorize the algorithmic methodology used in solving container loading problem. **a) Greedy Technique** b) Dynamic Programming Technique c) Dynamic Programming Technique using Memory Function d) Iterative improvement Technique	K1 - Remember	CO 3
13.	Classify the type of code obtained through Huffman code. a) Prefix code b) Postfix code **c) Non-Prefix code** d) Non-Postfix	K2 - Understand	CO 3
14.	When two or more sorted files are to be merged all together to form a single file _____ methodology is used **a) Optimal merge pattern** b) Merge method c) File concatenation d) Optimal conquer	K2 - Understand	CO 3
15.	What is the benefit of Huffman coding? a) More number of characters can be encoded **b) Implementation cost is less** c) All characters have the same length d) Encoding and Decoding is easy	K2 - Understand	CO 3

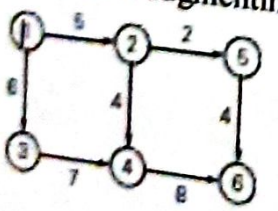
16.	Cost of connecting all the nodes in a given graph with minimum cost can be identified using **a) Prim's Algorithm** b) Dijkstra's Algorithm c) Warshall's Algorithm d) TSP	K2 - Understand	CO 3
17.	Which of the following technique starts with a feasible solution and improves the solution after every pass and arrives at the final solution? a) Greedy Technique b) Dynamic Programming Technique c) Brute Force Technique **d) Iterative Improvement Technique**	K2 - Understand	CO 4
18.	Simplex methodology is used to solve a linear equation with ---------- of variables a) 2 number b) 3 number c) 5 number **d) finite number**	K2 - Understand	CO 4
19.	What change should be done to minimize the equation in linear programming problem (Simplex method) **a) Multiply the objective function by -1** b) Subtract 1 from the objective function c) Change the sign of the constraint d) Add the slake variable with negative sign	K1 - Remember	CO 4
20.	Identify the pivot column in the following simplex tableau. **a) x column** b) y column c) u column d) v column	K2 - Understand	CO 4
21.	Which is the pivot row in the above simplex tableau? **a) First row (u row)** b) Second row (v row) c) Third row (objective row) d) Pivot row can't be selected	K2 - Understand	CO 4

	x	y	u	v	
u	2	0	1	-1	2
v	1	1	0	1	2
obj	-4	0	0	5	10

22.	Name the variable which can be introduced if an inequality constraint is given in the linear programming problem while using simplex method. **a) Slack variable** b) Extra variable c) Minimizing variable d) Compensating variable	K1 - Remember	CO 4
23.	Find the application of Maximum Flow Problem a) Project selection **b) Maximum Matching in Bi partite Graph** c) Assignment Problem d) Edge Disjoint paths	K2 - Understand	CO 4
24.	The total amount of material entering an intermediate vertex must be equal to the total amount of the material leaving the vertex. Name this requirement. **a) flow - conservation requirement** b) Principle of optimality requirement c) Min cut requirement d) ellipsoid method requirement	K1 - Remember	CO 4
25.	What is the length of the augmenting path? **a) Odd length** b) Even length c) Prime length d) Squared length	K1 - Remember	CO 4
26.	Find the reason for the following statement "Stable Marriage problem is called as man-optimal problem". **a) Men's options are alone considered** b) Men are represented in rows c) Women are represented in rows d) Men are represented in column	K2 - Understand	CO 4
27.	If man m and woman w are not matched in M but they prefer each other to their mates in M, then the pair(m,w) are called as a) Best pair b) Compromised pair **c) Blocking Pair** d) Fixed pair	K2 - Understand	CO 4
28.	In a bipartite graph, all the vertices can be partitioned into two disjoint sets V, U. What is the choice of number of vertices of U and V? a) Size of U and V must be same **b) Size o U and V need not be same** c) Size of U must be greater than V d) Size of V must be greater than U	K2 - Understand	CO 4

29.	A graph is said to be a bipartite graph if all the vertices can be partitioned into two disjoint sets V and U. Find the condition to be satisfied. **a) Every edge connects a vertex in one of these sets to a vertex in the other set** b) Edges may connect any two vertices in the U set c) Edges may connect any two vertices in the V set d) Some edges connect a vertex in one of these sets to a vertex in the other set	K1 - Remember	CO 4
30.	In a linear programming problem using simplex method find the point of the problem's feasible region, where an optimal solution can always be found. **a) Extreme Point** b) Regional Point c) Margin point d) Minimization point	K2 - Understand	CO 4
	Part B (15 x 2 = 30 Marks)		
31.	Find the first edge that can be added in the minimum spanning tree while using prim's algorithm for the following graph.(starting vertex is 1)  **a) (1,4)** b) (1,5) c) (1,2) d) (1,3)	K2 - Understand	CO 3
32.	Find the second edge to be added in the minimum spanning tree for the graph given in problem no. 31. a) (3,4) b) (1,5) **c) (1,2)** d) (1,3)	K2 - Understand	CO 3
33.	Find the first edge to be added in the minimum spanning tree using Kruskal's Algorithm for the problem no.31. a) (1,2) **b) (1,4)** c) (2,3) d) (2,4)	K2 - Understand	CO 3

34.	Find the fifth edge to be added in the minimum spanning tree in the graph shown in problem 31using Kruskal's Algorithm. a) (3,6) b) (2,6) **c) (1,5)** d) (3,4)	K2 - Understand	CO 3
35.	Apply Greedy Technique to find the maximum value of the given knapsack problem. Maximum Capacity is 25. (Use profit/ weight ratio) Item A B C D Profit 24 18 18 10 Weight 24 10 10 7 **a) 24** b) 36 c) 34 d) 10	K3 - Apply	CO 3
36.	A digital storage device would like to use an effective coding methodology for storing in minimum space for the data given in the table. Find the maximum number of bits needed to represent the given set of data. Characters a e i o Frequencies 10 15 12 3 **a) 3** b) 2 c) 4 d) 6	K3 - Apply	CO 3
37.	For the problem given in problem no.36, what is the code for representing character 'a'. a)000 **b)111** c)101 d)100	K3 - Apply	CO 3
38.	Consider the below linear programming problem. Find the departing variable in the first iteration while using simplex method.(Slake variables are u and v) Maximize 6x+5y Subject to x+y<=5 3x+2y<=12 a) u **b) v** c) x d) y	K2 - Understand	CO 4

39.	Refer the question no 38 and find the entering variable in the second iteration. **a) y** b) x c) u d) v	K2 - Understand	CO 4
40.	Arrange the steps of simplex method in the correct order. a) Optimality Test, Initialization, Finding the entering variable, Finding the departing variable, Forming the next tableau. **b) Initialization, Optimality Test, Finding the entering variable, Finding the departing variable, Forming the next tableau.** c) Optimality Test, Initialization, Forming the next tableau, Finding the entering variable, Finding the departing variable d) Finding the entering variable, Initialization, Optimality Test, Finding the departing variable, Forming the next tableau.	K2 - Understand	CO 4
41.	Tamil Matrimony website has a matching pair of (Raja, Rani), (Ilavarasan, ilavarasi). How would you categorize the output of this website? **a) No blocking pair available** b) (Raja, Rani) is a Blocking pair c) (Ilavarasan, ilavarasi) is a Blocking pair d) Produces an unstable Matching	K3 - Apply	CO 4
42.	Find the first augmenting path for the following Network using shortest augmenting path algorithm.  **a) 1-2-5-6** b) 1-2-3-6 c) 1-4-3-6 d) 1-3-4-6	K2 - Understand	CO 4

	Rani	Ilavarasi
Raja	(1,1)	(2,1)
Ilavarasan	(1,2)	(2,2)

43.	Find the second augmenting path for the above given (Refer Problem 42) network.(Use chronological order of the names of the nodes to process) a) 1-5-4-6 **b) 1-2-4-6** c) 1-3-5-6 d) 1-2-3-6	K2 - Understand	CO 4
44.	Find the first matching pair/pairs for the following graph in the first iteration while using maximum Bipartite Matching Algorithm.  a) (1,6)(2,5) **b) (1,5)** c) (1,6) d) (1,5)(3,4)	K2 - Understand	CO 4
45.	Find the matching pair / pairs(Second iteration) for the above graph(Refer Problem 44) a) (1,5) b) (2,5)(1,6) **c) (3,4)(1,5)** d) (1,6)	K2 - Understand	CO 4

Staff in-charge

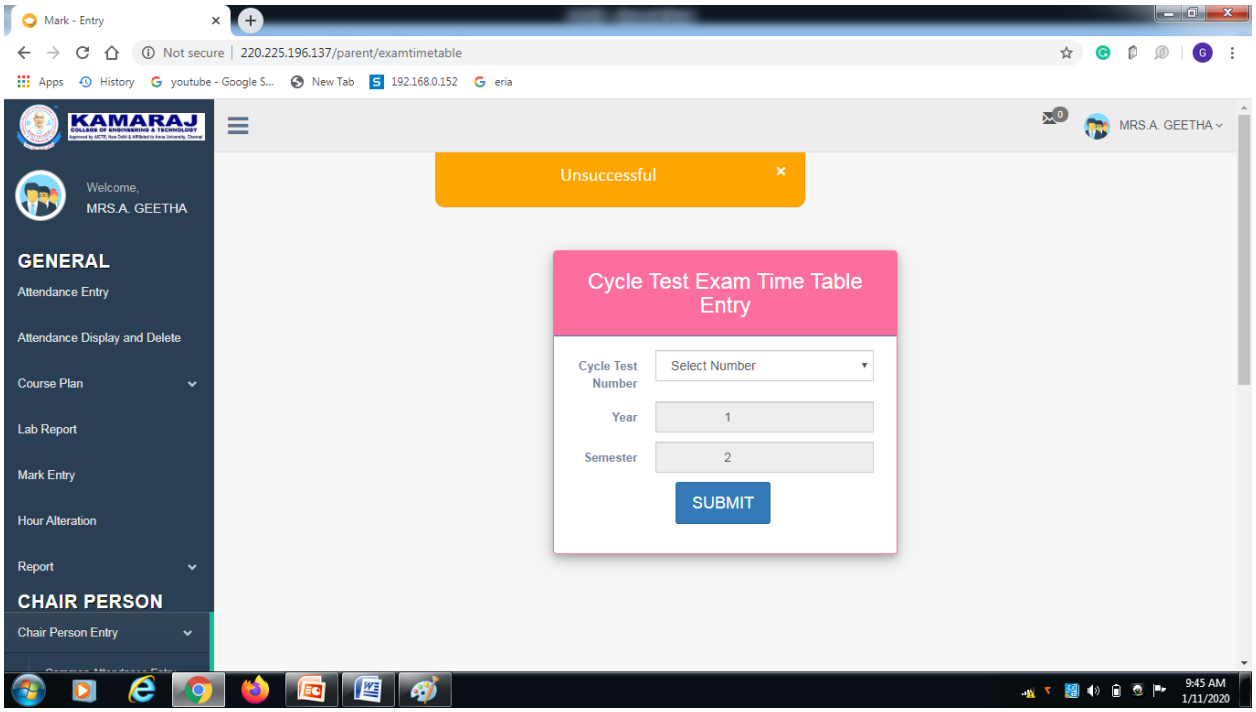
Subject Expert

HoD/IT & HoD/CSE

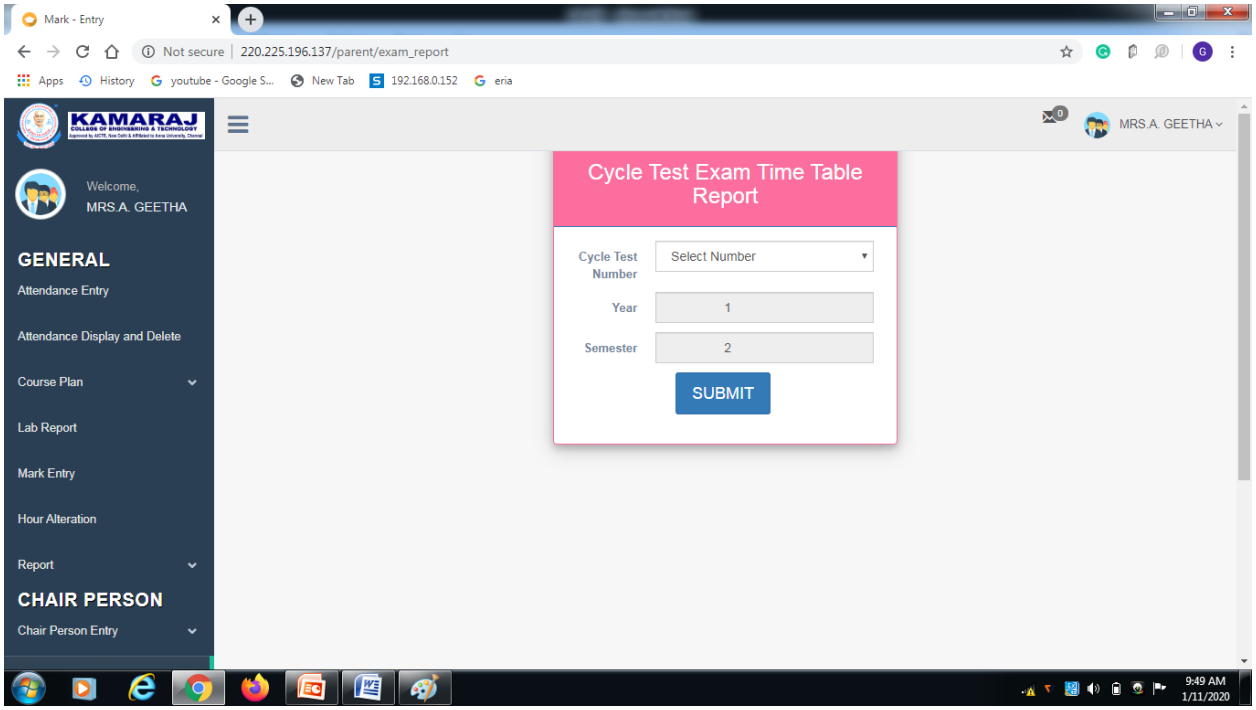
In our Institution, we were uniquely followed the **ERP**(Enterprise Resource Planning) for Cycle TEST Exam time table Entry, Cycle test time Analysis report, Cycle test Hall ticket, Cycle test Progress Report, Cycle test Progress Report.

The sample Screen Shots for the above mentioned platform is shown below.

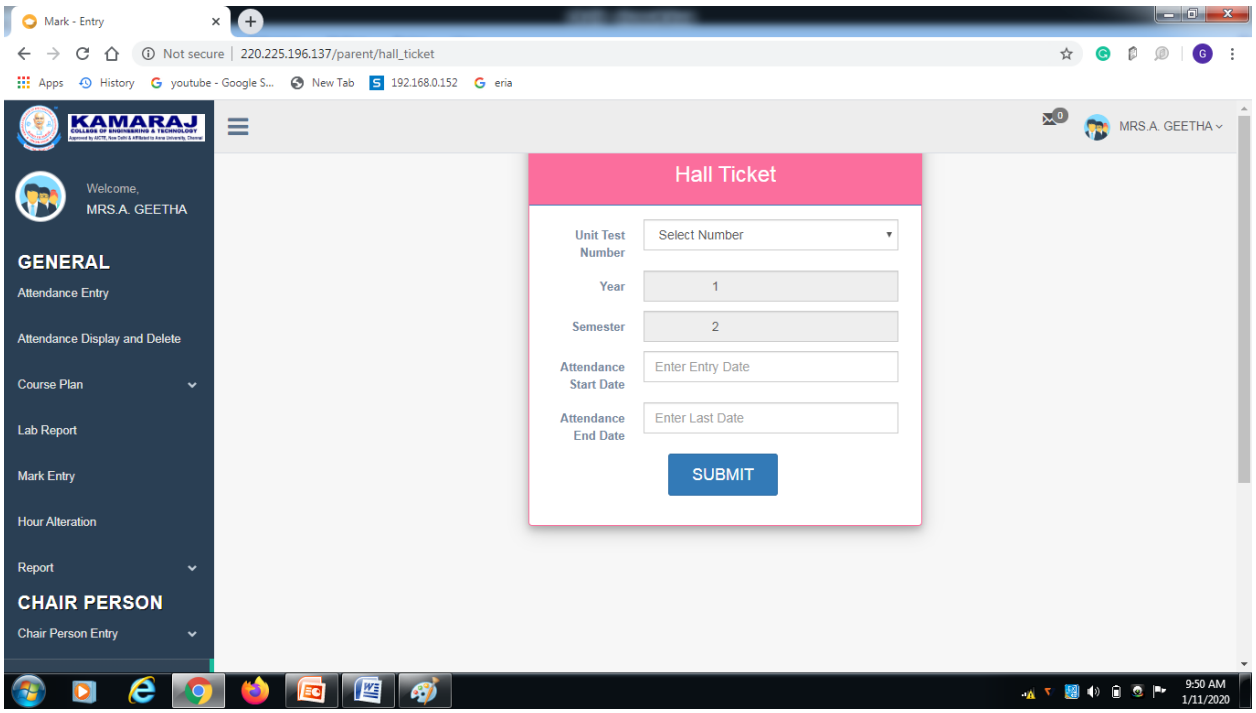
1. Cycle TEST Exam time table Entry



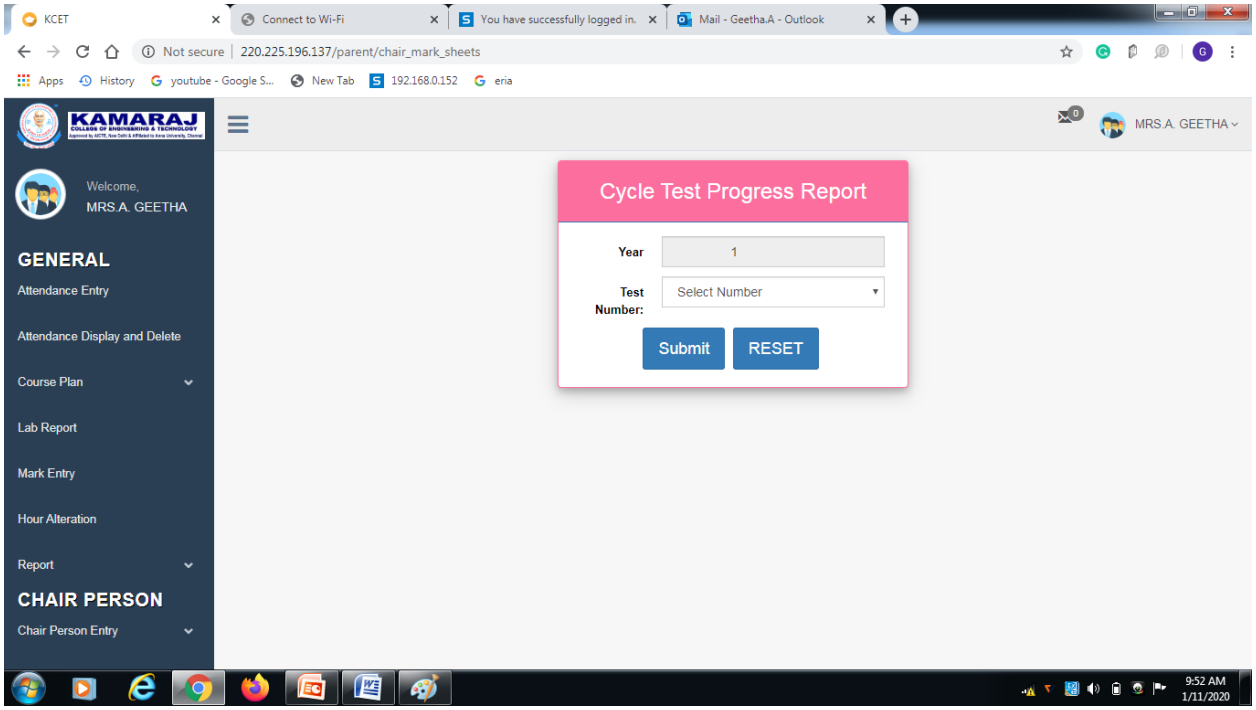
2. Cycle test time table report



3. Cycle test Hall ticket



4. Cycle test Progress Report



5. Cycle test Analysis report