

**V.K. KRISHNA MENON COLLEGE OF COMMERCE AND ECONOMICS  
AND  
SHARAD SHANKAR DIGHE COLLEGE OF SCIENCE**

[AFFILIATED TO UNIVERSITY OF MUMBAI & ACCREDITED BY NAAC]

(MANAGED BY BHANDUP EDUCATIONAL SOCIETY)

BHANDUP (E), MUMBAI - 400 042.

Phone: 2566 8541 • Telefax : 022 - 2566 1897 • E-mail: vkkmenoncollege@gmail.com

**2.5.2 INDEX**

(Please click on the relevant document)

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**V.K. KRISHNA MENON COLLEGE OF COMMERCE AND ECONOMICS AND  
SHARAD SHANKAR DIGHE COLLEGE OF SCIENCE  
BHANDUP EAST, MUMBAI- 400042  
DEPARTMENT OF COMPUTER SCIENCE  
Internal Test 2020-2021  
Examination :- SEM -II/IV/VI – MARCH 2021**

DATE:22-02-2021

DAY/DATE	TIME	FYCS SEM-II	SYCS SEM-IV	TYCS SEM-VI
04/03/2021	8.00 AM-8.15 AM	USCS201	USCS401	USCS602
	8.20 AM-8.35 AM	USCS202	USCS402	USCS603
05/03/2021	8.00 AM-8.15 AM	USCS203	USCS403	USCS604
	8.20 AM-8.35 AM	USCS204	USCS404	USCS606
06/03/2021	8.00 AM-8.15 AM	USCS205	USCS405	USCS607
	8.20 AM-8.35 AM	USCS206	USCS406	
08/03/2021	8.00 AM-8.15 AM	USCS207	USCS407	

- Exam will be conducted in online mode(Edmodo)- 20 Marks
- Attendance is compulsory

  
DEPARTMENT OF COMPUTER SCIENCE

  
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Bhandup (E), Mumbai - 42.

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DEPARTMENT OF COMPUTER SCIENCE**

**Examination :- F.Y.B.Sc.(CS) CLASS TEST – SEM -I NOVEMBER 2020**

Date:29-10-2020

FYBSC SEM-I(Regular)	
Batch	Roll No
Batch-I	1 to 80

DATE	TIME	PAPER
06-11-2020	8.15 am - 8.30 am	Paper-I(Computer Organization and Design)
	8.35 am - 8.50 am	Paper-II(Programming with Python- I)
07-11-2020	8.15 am - 8.30 am	Paper-III(Free and Open Source Software)
	8.35 am - 8.50 am	Paper-IV(Database Systems)
09-11-2020	8.15 am - 8.30 am	Paper-V(Discrete Mathematics)
	8.35 am - 8.50 am	Paper-VI(Descriptive Statistics and Introduction to Probability)
10-11-2020	8.15 am - 8.30 am	Paper-VII(Soft Skills Development)

Test will be conducted on Edmodo app.

Students are supposed to join google meet 10 minutes prior to the schedule with video in on mode compulsorily.

Department of Computer Science



  
Principal

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DEPARTMENT OF COMPUTER SCIENCE

Examination :- CLASS TEST – SEM -III/V – SEPTEMBER 2020

Date:23-08-2020

<b>SYBSC SEM-III(Regular)</b>	
Batch	Roll No
Batch-I	1-62

<b>Date</b>	<b>Time</b>	<b>Paper</b>
02.09.2020	8.15 am - 8.30 am	Paper I
	8.35 am - 8.50 am	Paper II
03.09.2020	8.15 am - 8.30 am	Paper III
	8.35 am - 8.50 am	Paper IV
04.09.2020	8.10 am – 8.30 am	Paper V
	8.35 am - 8.50 am	Paper VI
05.09.2020	8.15 am – 8.30 am	Paper VII

<b>TYBSC SEM-V (Regular)</b>	
Batch	Roll No
Batch-I	1-50

<b>Date</b>	<b>Time</b>	<b>Paper</b>
02.09.2020	8.15 am - 8.30 am	Paper I (USCS502)
	8.35 am - 8.50 am	Paper II (USCS503)
03.09.2020	8.15 am - 8.30 am	Paper III (USCS505)
	8.35 am - 8.50 am	Paper IV(USCS506)
04.09.2020	8.15 am – 8.30 am	Paper V (USCS507)

Test will be conducted in Edmodo app.

Join in google meet 10 minutes prior to the schedule with video in on mode compulsorily.

Department of Computer Science



*[Signature]*

Principal

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**REPORT OF ICT TOOLS USED**

**ACADEMIC YEAR: 2020-21**

1. Department / Committee-Department of Computer science
2. Details of ICT tools used -

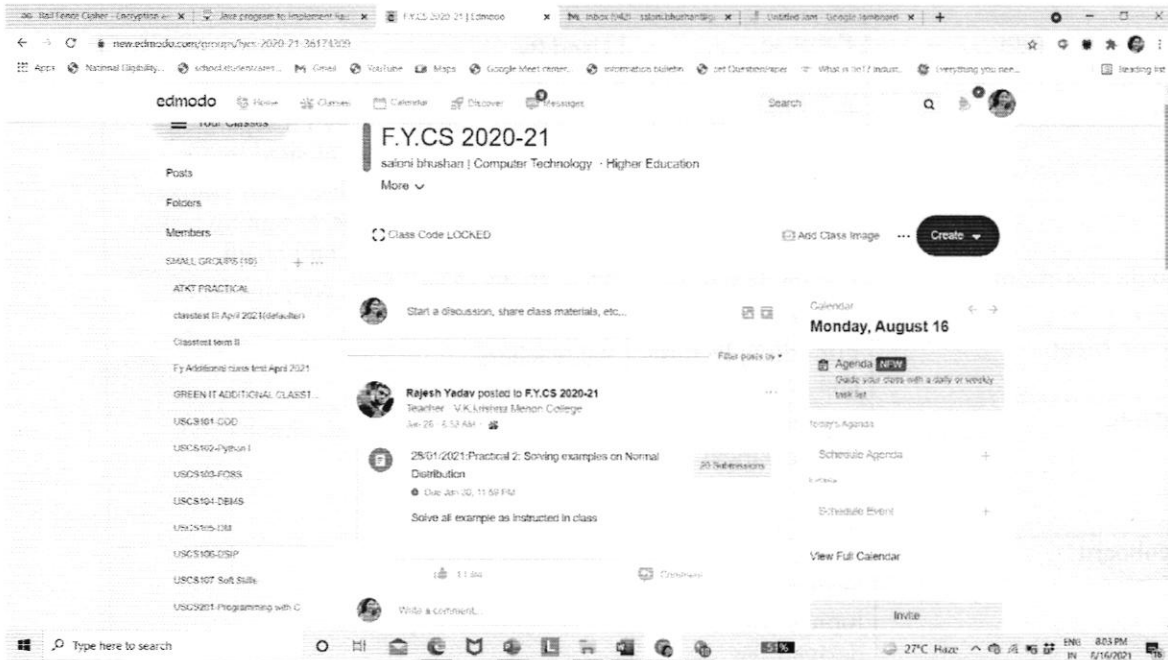
Sr. No.	Name of the tool	Purpose	Used By
1.	Edmodo	For implementing virtual classroom	FY,SY, TY Classrooms with separated group of each course is created by Dr. Saloni B. All teachers used their course groups for notes sharing, assigning tasks, conducting internal test and result.
2.	Google classroom	For implementing virtual classroom	Mrs. Shubha Nair, Mrs. Kalpana B.,Dr. Deepa Nyayadhish
3.	Google Meet	For online lectures and practicals	All teachers
4.	Onenote	For teaching Mathematical topics and derivations	Dr. Saloni Bhushan, Mrs. Shubha Nair
5.	Openboard	For teaching Mathematical topics and derivations	Dr. Saloni Bhushan
6.	Ziteboard	For teaching Mathematical topics and derivations	Dr. Saloni Bhushan
7.	MSPowerpoint	Content preparation	All Teachers
8.	MS Excel, MS Word	Question Paper preparation	All teachers
9.	Anydesk tool	For Performing practicals remotely	Dr. Saloni Bhushan
10.	Google Sheet	For maintaining practical assignment submission status	Google sheet for FY,SY,TY was created with sheets for each practical course by Dr. Saloni B. All teachers were maintaining the status of practical assignment submission .
11	TestMoz	Assessment	Mr.Rajesh Yadav



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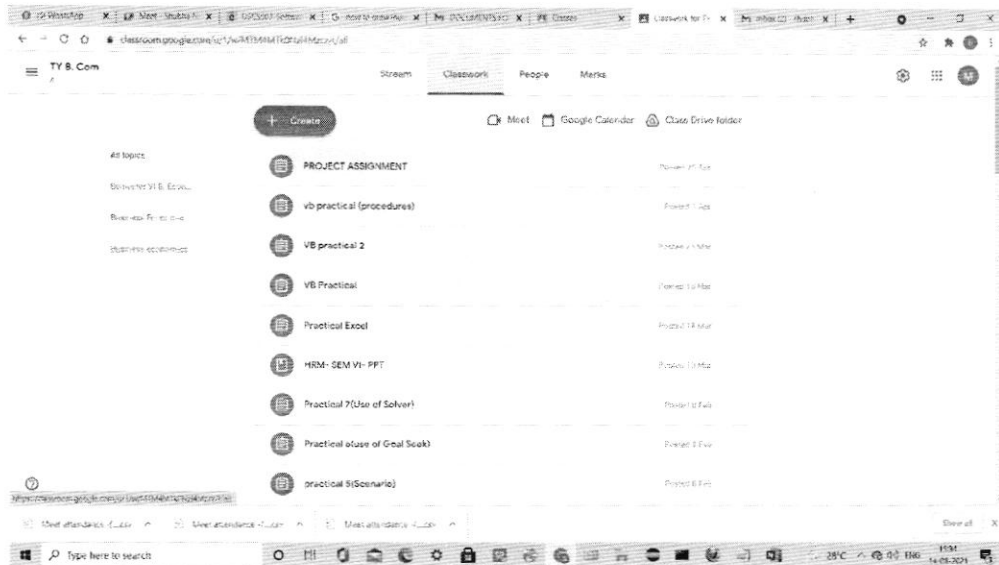
13	Telegram	Notes Sharing and discussion	Mr.Rajesh Yadav,Dr. Deepa Nyayadhish
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**Edmodo Classrooms**

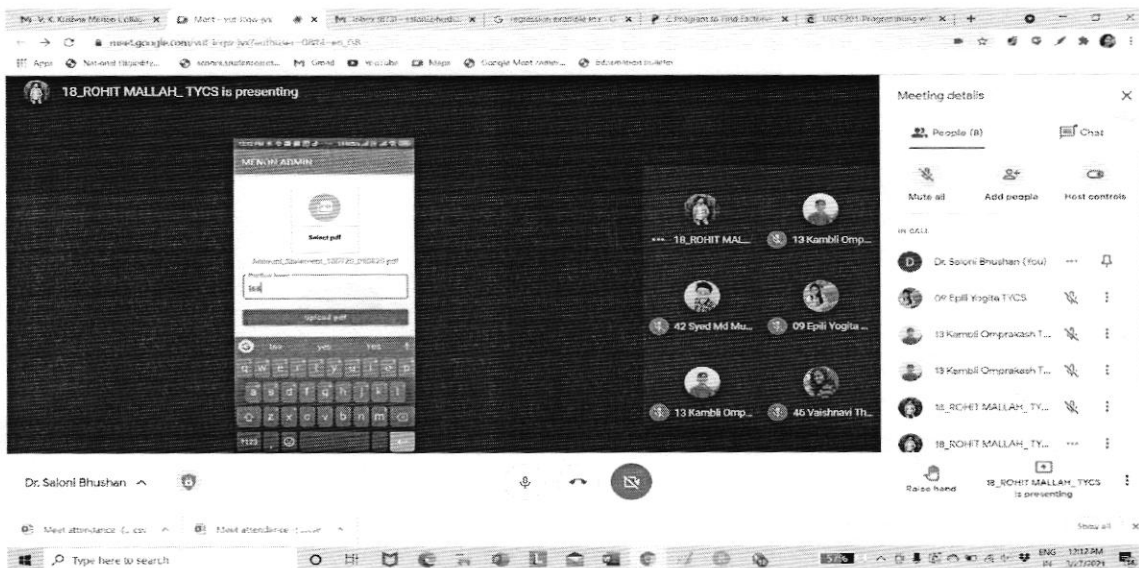




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### Google Meet



### Use of Onenote for teaching calculus



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10 February 2021 09:37

Differentiability of a function at the end points of the closed interval [a,b]

1) F is said to be differentiable at a if

$$Df(a^+) = \lim_{x \rightarrow a^+} \frac{f(x) - f(a)}{x - a} \text{ exists i.e denoted by } (x > a)$$

$$Df(a^-) = \lim_{x \rightarrow a^-} \frac{f(x) - f(a)}{x - a} \text{ exists i.e denoted by } (x < b)$$

Whenever these limits exists they are called as derivatives of f at 'a' And 'b' and it is denoted by f'(a) and f'(b) resp.

If  $f(x) = 4x + 7, x < 3$   
 $= x^2 + 3x + 1, x \geq 3$ ; at  $x = 3$ , then find f is differentiable or not

Soln:  
 $F(x) = f(3) = x^2 + 3x + 1 = 9 + 9 + 1 = 19$

$$Df(a^+) = \lim_{x \rightarrow a^+} \frac{f(x) - f(a)}{x - a}$$

$$Df(3^+) = \lim_{x \rightarrow 3^+} \frac{f(x) - f(3)}{x - 3} = \lim_{x \rightarrow 3^+} \frac{x^2 + 3x + 1 - 19}{x - 3}$$

$$\lim_{x \rightarrow 3^+} \frac{x^2 + 3x - 18}{x - 3} = \lim_{x \rightarrow 3^+} \frac{(x+6)(x-3)}{x-3}$$

$$= \lim_{x \rightarrow 3^+} (x + 6) = 9$$

$$Df(b^-) = \lim_{x \rightarrow b^-} \frac{f(x) - f(b)}{x - b}$$

	0	1	2	3	4	5	6
0 #	0	1	2	3	4	5	6
1 s	1	1	2	3	4	5	6
2 j	2	2	1	2	3	4	5
3 t	3	3	2	1	2	3	4
4 e	4	4	3	2	1	2	3
5 i	5	5	4	3	2	2	3
6 n	6	6	5	4	3	3	2
7 g	7	7	6	5	4	4	3

1.  $i=1, j=0, m=0$   
 $i=1, j=0, m=0$   
 $m(i-1, j) = m(0, 1) = 1 + 1 = 2$   
 $m(i, j-1) = m(1, 0) = 1 + 1 = 2$   
 $m(i, j) = \min(2, 2) = 2 + 1 = 3$

2.  $i=1, j=2$   
 $m(i-1, j) = m(0, 2) = 2 + 1 = 3$   
 $m(i, j-1) = m(1, 1) = 2 + 1 = 2$   
 $m(i, j) = \min(3, 2) = 2 + 1 = 3$

3.  $i=1, j=3$   
 $m(i-1, j) = m(0, 3) = 3 + 1 = 4$   
 $m(i, j-1) = m(1, 2) = 3 + 1 = 3$   
 $m(i, j) = \min(4, 3) = 3 + 1 = 4$

4.  $i=1, j=4$   
 $m(i-1, j) = m(0, 4) = 4 + 1 = 5$

7.  $i=2, j=1$   
 $m(i-1, j) = m(1, 1) = 2 + 1 = 3$   
 $m(i, j-1) = m(2, 0) = 2 + 1 = 3$   
 $m(i, j) = \min(3, 3) = 3 + 1 = 4$



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**Use of OpenBoard for teaching Theory of Computation in SYBSC CS**

Moore machine to Mealy Machine  
 $\sigma_{\text{start}} = (0, 1)$   
 $\delta_{\text{start}} = (a, b)$

	0	1	output
A	B	A	1
B	B	C	0
C	B	A	1

Mealy Machine

	0	1
A	B, 0	A, 1
B	B, 0	C, 1
C	B, 0	A, 1

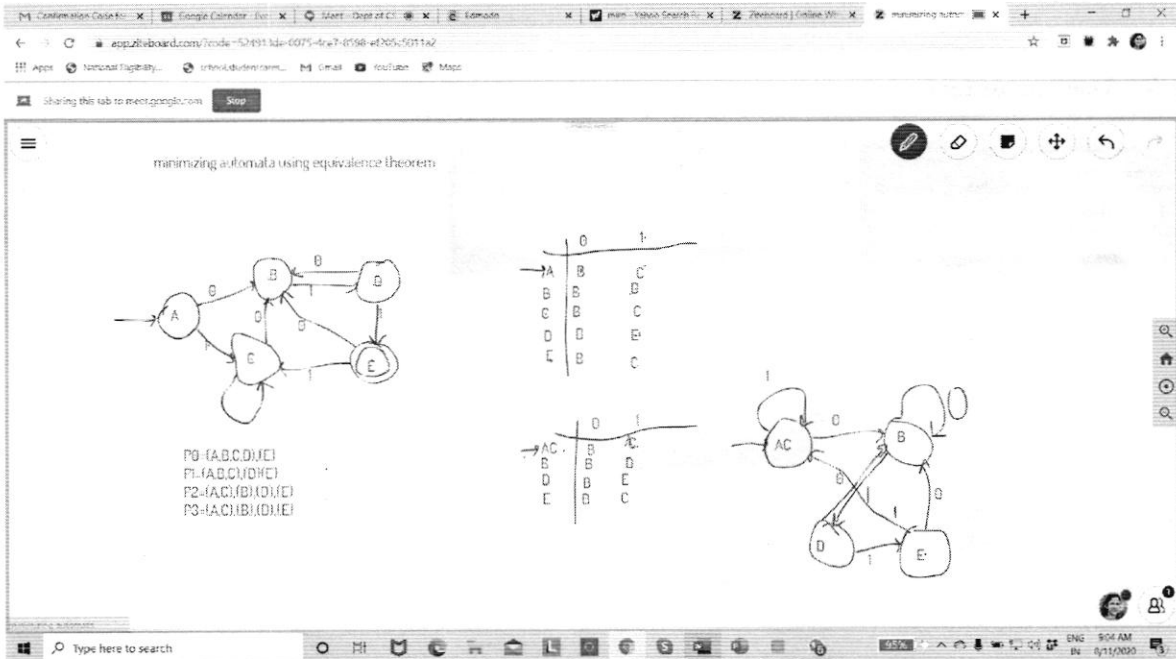
Mealy machine to Moore Machine

	0	1	output
A	B	A	1
B	C	B	0
C	D	C	1
D	E	D	0
E	A	E	1

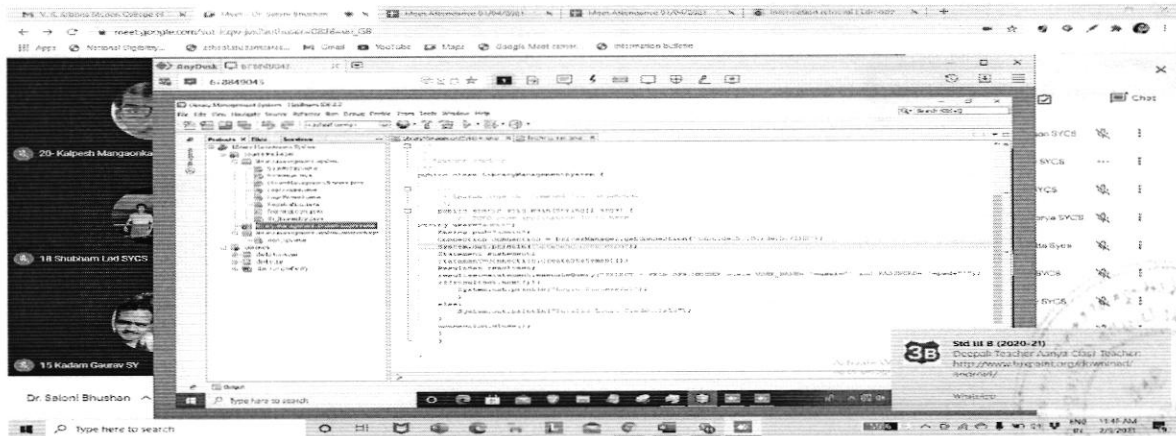
**Use of ZiteBoard for teaching Theory of Computation in SYBSC CS**



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**Debugging remotely during Practical session using Anydesk application**



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**TestMoj-An Assessment tool**

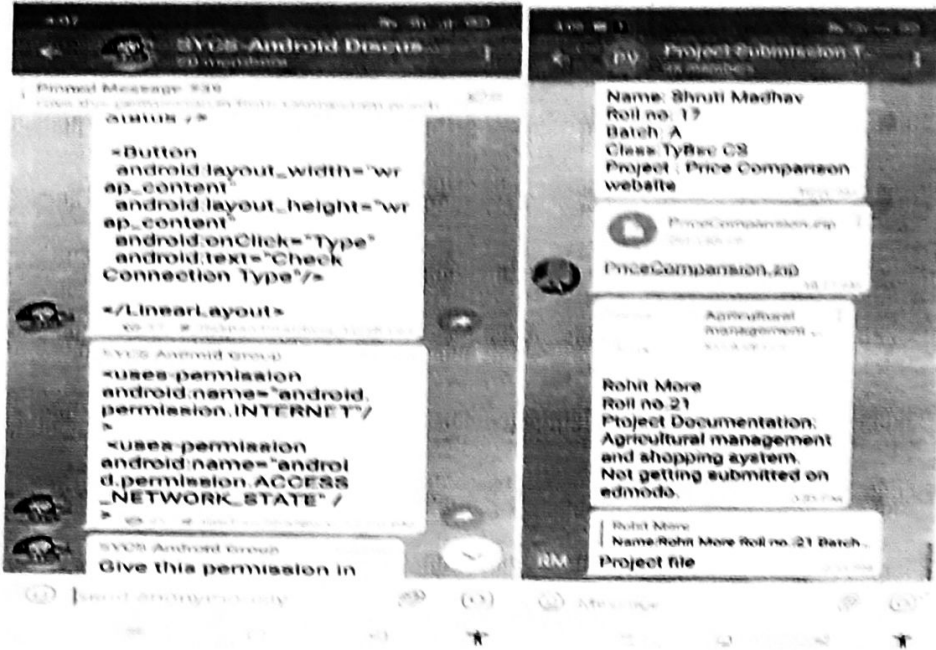


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**Telegram**



  
Signature



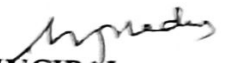
  
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**NOTICE**

Students May Contact the following Teacher-In-Charges when they came across with any problems during Online MCQ Examination 2020.

TYBCom A	Dr. (Mrs) Ruchi Tandon	8850318952
TYBCom B	Nitin K. Kadam	9323131981
TYBCom C	Dr. (Mrs) Deepali Moghe	9833994753
TYBSc and TYBsc (CS)	Dr. (Mrs) Saloni B	9324247941
TYBMS and MCom	Mr. Prashant R.	8080255215
Ex-Students	Nitin K. Kadam	9987027981

  
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Enquiry into Unfair means during Examination Committee

Report 2020-21

This was a pandemic year, examinations were conducted online. Examination Committee has taken all measures to meet the ends of justice. This practice eliminated cases of complaints and unfair means.

The Committee has analysed the file at the end of the academic year and concluded that no case of unfair means or complaints were reported during the year 2020-21.

*Sunitha*

Dr. K.K.Sunitha (Convener)

*Sunitha*  
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