



**MOTHER THERESA INSTITUTE OF ENGINEERING AND TECHNOLOGY**  
Recognized by AICTE, New Delhi::Affiliated to JNTUA, Ananthapuramu  
Melumoi Cross, Palamaner, Chittoor(Dist.) – 517408.  
**ELECTRONICS AND COMMUNICATION ENGINEERING DEPARTMENT**



Palamaner  
Date :02-12-2017

To  
The Principal,  
MTIET,  
Palamaner.

**SUB: IV B.TECH - ECE - Organizing the Value added course on CELLULAR & MOBILE COMMUNICATION and Technology – Req - Reg.**

\*\*\*\*\*

With the subject cited above, to enhance the technical skill and enrich the industry needs for the students the department is kindly bring to your kind notice to conduct the value added course on” **CELLULAR & MOBILE COMMUNICATION** “for the III B. Tech students during the period of inter semester break that is from **4.12.2017 to 9.12.2017**. In this connection the undersigned is requesting to grant the permission to organize the mentioned course for the final year students.  
Please consider with prior hierarchy.

Thanking you,

  
HOD/ECE

Copy to:  
Dept. file

Head of the Department  
Electronics & Communication Engg.  
Mother Theresa Institute of Engg.& Technology  
Palamaner, Chittoor(Dt.)- 517 408.



**MOTHER THERESA INSTITUTE OF ENGINEERING AND TECHNOLOGY**

Recognized by AICTE, New Delhi::Affiliated to JNTUA, Ananthapuramu

Melumoi Cross, Palamaner, Chittoor(Dist.) – 517408.



**ELECTRONICS AND COMMUNICATION ENGINEERING DEPARTMENT**

Palamaner

Date :25-11-2017

To  
The Principal,  
MTIET,  
Palamaner.

**SUB: IV B.TECH - ECE - Organizing the Value added course on CELLULAR & MOBILE COMMUNICATION and Technology – Req - Reg.**

\*\*\*\*\*

With the subject cited above, to enhance the technical skill and enrich the industry needs for the students the department is kindly bring to your kind notice to conduct the value added course on " **CELLULAR & MOBILE COMMUNICATION** "for the III B. Tech students during the period of inter semester break that is from 14.12.2017 to 9.12.2017. In this connection the undersigned is requesting to grant the permission to organize the mentioned course for the final year students.  
Please consider with prior hierarchy.

Thanking you,

Copy to:

Dept. file

  
HOD/ECE  
Head of the Department  
Electronics & Communication Engg,  
Mother Theresa Inst  
Palamaner, Chittoor(Dist.) - 517408



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**ELECTRONICS AND COMMUNICATION ENGINEERING DEPARTMENT**  
**VALUE ADDED COURSE :: CELLULAR & MOBILE COMMUNICATION**

\*\*\*\*\*

Ref.: MTIET/ECE/VAC/CIR-01

Palamaner

Date: 25-11-2017

**C I R C U L A R**


This is here by informed to the IV B.Tech students that the Department is very glad to organize the value added course to fill the academic and industry gap on "CELLULAR & MOBILE COMMUNICATION " during the period of inter semester break that is from 4-12-17 to 9-12-17. So all the interested students should register their names through the Department coordinator.

Copy to:

The III B.Tech Class room

The Dept. Notice board

Dept. file

  
25/11/17  
HOD/ECE

Head of the Department  
Electronics & Communication Engg.  
Mother Theresa Institute of Engg & Technology  
Palamaner, Chittoor(Dt.)- 517 408





ELECTRONICS AND COMMUNICATION ENGINEERING DEPARTMENT  
VALUE ADDED COURSE:: Cellular & Mobile Communication(15A04709)  
STUDENTS REGISTRATION FORM:: AY 2017-18

\*\*\*\*\*

S.NO.	REGD. NO.	NAME OF THE STUDENT	SIGNATURE
1.	14HR1A0402	A DINESH	A. Dinesh
2.	14HR1A0404	ANANTHA HARITHA	Anantha
3.	14HR1A0405	ARITHA P	Aritha
4.	14HR1A0406	A S PRIYANKA	Priyanka
5.	14HR1A0407	ATHE SIREESHA	Sireesha
6.	14HR1A0408	ATCHANNAGARI PAVANI	Pavani
7.	14HR1A0409	B PRIYANKA	B. Priyanka
8.	14HR1A0410	B SINDHU	Sindhu
9.	14HR1A0411	B SOWJANYA	Sowjanya
10.	14HR1A0412	BANDA VIJAYAKUMARI	Vijaya
11.	14HR1A0413	BANDARLA MAHITHA	Mahitha
12.	14HR1A0414	B SANDHYASREE	Sandhya
13.	14HR1A0415	B SANJAY KUMAR	Sanjay
14.	14HR1A0416	B S PAVAN KUMAR	Pavan
15.	14HR1A0417	B VAMSI KRISHNA	Vamsi
16.	14HR1A0418	C ALEKHYA	Alekhy
17.	14HR1A0419	C DEEPTHIMAI	Deepthi
18.	14HR1A0421	C LATHA	Latha
19.	14HR1A0422	C SUFIYA BHANU	Sufiya
20.	14HR1A0423	CHENNASAMUDRAM SREENIVASULU	Sreenivasulu
21.	14HR1A0424	DEVAKKAGARI SONIYA	Soniya
22.	14HR1A0425	DOOGURI YASWANTH KUMAR	Yaswanth
23.	14HR1A0426	EMME ANUSHA	Anusha
24.	14HR1A0427	G B KALYAN KUMAR	Kalyan
25.	14HR1A0428	G CHAITANYA KRISHNA	Krishna
26.	14HR1A0430	G JAYABHARATHI	Jayabharathi
27.	14HR1A0431	G LAKSHMI	Lakshmi
28.	14HR1A0432	G M RAJESWARI	Rajeswari
29.	14HR1A0433	G PAVAN KUMAR	Pavan
30.	14HR1A0434	G S P KRISHNA	Krishna
31.	14HR1A0435	GUNDLURU LOKANATH REDDY	Lokanath
32.	14HR1A0436	GUNLOORU SARANKUMAR	Saran
33.	14HR1A0437	G YUGANDHAR	Yugandhar
34.	14HR1A0438	J POOJITHA	Poojitha
35.	14HR1A0439	JOHNSON MERLIN	Johnson



		HEPZIBAH	
36.	14HR1A0440	K C HEMANTH KUMAR	Hemant
37.	14HR1A0441	K CHETAN	Chetan
38.	14HR1A0442	K HEMALATHA	Hemalatha
39.	14HR1A0443	KOPPOLU MOUNIKA	mounika
40.	14HR1A0444	K PRABHAKAR	Prabhakar
41.	14HR1A0445	KADINTI MANJUNATHA	manjunath
42.	14HR1A0446	KAMSALA THEJASWI	thejaswi
43.	14HR1A0447	KONKI NAVEENA	naveena
44.	14HR1A0448	KUCHI ROJA	Raja
45.	14HR1A0449	LOKESH S	lokesh
46.	14HR1A0450	LIKITHPRASAD R M	Likith Prasad
47.	14HR1A0451	MARRI CHAITRA	chaitra
48.	14HR1A0452	M CHANAKYA SAI	Sai
49.	14HR1A0454	MOHAMMED NIZAM	NIZAM
50.	14HR1A0455	MORUMPALLE RAVICHANDRA	Ravichandra
51.	14HR1A0456	MUTHYALAREDDIGARI MAHESH KUMAR	mahesh
52.	14HR1A0457	NADIMINTI SRAVANI	sravani
53.	14HR1A0458	NAGIREDDIGARI SRINATH REDDY	srinath
54.	14HR1A0459	NARRA THEJASWI	thejaswi
55.	14HR1A0462	P HEMAMALINI	hemamalini
56.	14HR1A0463	P J PRABHUDEV	Prabhudev
57.	14HR1A0464	P PREETHI	Preethi
58.	14HR1A0466	PALEM CHAKRADHAR	chakradhar
59.	14HR1A0467	PANDIPATI KAVYA	kavya
60.	14HR1A0468	PATNOOL ZUBER	zuber
61.	14HR1A0469	PEDDAVASANNAGARI VANI	vani
62.	14HR1A0470	PUTTURU KISHORE	kishore
63.	14HR1A0471	R HARITHA	Haritha
64.	14HR1A0472	R KAVITHA	kavitha
65.	14HR1A0473	R NIROSHA	Nirosha
66.	14HR1A0474	REPANA SIVA	<del>Siva</del>
67.	14HR1A0475	REDDYVARI PALLAVI	Pallavi
68.	14HR1A0476	REDDYVARI SHARVANI	sharvani
69.	14HR1A0477	SANDHIYA S	sandhiya
70.	14HR1A0478	SANDIREDDYGARI DIVYA	divya
71.	14HR1A0480	S JEEVAN KUMAR	<del>kumar</del>
72.	14HR1A0481	SHAIK SHAMA PARVEEN	Parveen
73.	14HR1A0482	SHEIK MAHAMMAD FAROOQ	Farooq
74.	14HR1A0483	S MAMATHA	mamatha
75.	14HR1A0484	SOMPALLE GREESHMA	Greeshma
76.	14HR1A0485	SRIRAMA MAMATHA	mamatha

77.	14HR1A0486	TAPAL AYUB	Ayub
78.	14HR1A0487	T HARI PRIYA	Priya
79.	14HR1A0488	TIRIMI POOJA	Pooja
80.	14HR1A0489	T R RAMYASREE	Ramyasree
81.	14HR1A0490	VAYALPATE TEJA	Teja
82.	14HR1A0491	V JAYASREE	Jayasree
83.	14HR1A0492	V LAVANYA	Lavanya
84.	14HR1A0493	VULAVA MADHUSUDHAN	Madhusudhan
85.	14HR1A0494	V SARANYA	Saranya
86.	14HR1A0495	VULAVA VINOD KUMAR	Vinod
87.	14HR1A0496	VUPPALAPATI MADHU	Madhu
88.	14HR1A0497	Y RAMBHUPAL REDDY	Reddy
89.	14HR1A0498	YADA KISHORE KUMAR REDDY	Kishore
90.	14HR1A0499	AENAMANDALA CHANDUPRASAD	Chandu Prasad

*Ajay*  
9/12/17  
**CO-ORDINATOR**

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Coordinator

*S*  
9/12/17  
**HOD/ECE**

Head of the Department  
Electronics & Communication Engg.  
Mother Theresa Institute of Engg. & Technology  
Palamaner, Chittoor(Dt.)- 517 408





**DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING**

**VALUE ADDED COURSE :: Cellular & Mobile Communication(15A04709)**

**Duration:30 Hrs**

**SYLLABUS**

**Total:6 Hrs**

**UNIT-1** Introduction to Cellular Mobile system, Uniqueness of mobile radio environment, operation of cellular systems, Hexagonal shaped cells General description of the problem, concept of frequency channels.

**Total:6 Hrs**

**UNIT-2 INTERFERENCE:** Introduction to Co-channel interference, CELL COVERAGE FOR SIGNAL AND TRAFFIC: Signal reflections in flat and hilly Terrain, Phase difference between direct and reflected paths, constant standard deviation.

**Total:6 Hrs**

**UNIT-3** Cell site and mobile antenna ,Sum and difference patterns and their synthesis, Omni directional antennas, directional antennas for interference reduction, Minimum separation of cell site antennas, high gain antennas.

**Total:6 Hrs**

**UNIT-4** Frequency Management And Channel Assignment, Setup access and paging channels channel assignments to cell sites and mobile units, Handoff, dropped calls and cell splitting, types of handoff.

**Total:6 Hrs**

**UNIT-5** Intersystem handoff, cell splitting, micro cells, vehicle locating methods, GSM architecture, GSM channels, Multiplex access scheme, TDMA, CDMA.



DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

VALUE ADDED COURSE :: Cellular & Mobile Communication(15A04709)

PROGRAMME SCHEDULE :: AY 2017-18

(From 04-12-17 to 9-12-17)

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S.NO.	DAY(S)	DATE	TIME	TOPIC(S)	EXPERT DETAILS
1	DAY 1	04-12-17	9:30-10:00	INAUGARATION	MR.B.PRAVEEN KUMAR
2			10:00-11:00	Introduction to Cellular Mobile system	Mrs.M.DIVYA
3			11:00-1:00	Uniqueness of mobile radio environment, operation of cellular systems, Hexagonal shaped cells	MR.B.PRAVEEN KUMAR
4			2:00-4:30	General description of the problem, concept of frequency channels	Mrs.V.RUKMINAMMA
5	DAY 2	05-12-17	9:30-10:00	INTERFERENCE: Introduction to Co-channel interference	Mrs.M.DIVYA
6			10:00-11:00	Real time co-channel interference, Co-channel measurement, design of Antenna system	MR.B.PRAVEEN KUMAR
7			11:00-1:00	CELL COVERAGE FOR SIGNAL AND TRAFFIC:Signal reflections in flat and hilly terrain	Mrs.V.RUKMINAMMA
8			2:00-4:30	Phase difference between direct and reflected paths, constant standard deviation	Mrs.G.PRIYANKA
9	DAY 3	06-12-17	9:30-10:00	Cell site and mobile antenna	Mrs.M.DIVYA
10			10:00-11:00	Sum and difference patterns and their synthesis	MR.B.PRAVEEN KUMAR
11			11:00-1:00	Omni directional antennas, directional antennas for interference reduction	Mrs.V.RUKMINAMMA
12			2:00-4:30	Space diversity antennas, umbrella pattern antennas	Mrs.G.PRIYANKA
13	DAY 4	07-12-17	9:30-10:00	Minimum separation of cell site antennas, high gain antennas.	Mrs.M.DIVYA
14			10:00-11:00	FREQUENCY MANAGEMENT AND CHANNEL ASSIGNMENT	MR.B.PRAVEEN KUMAR



					Mrs.V.RUKMINAMMA
15			11:00-1:00	Setup access and paging channels channel assignments to cell sites and mobile units	Mrs.V.RUKMINAMMA
16			2:00-4:30	Handoff, dropped calls and cell splitting, types of handoff	MR.B.PRAVEEN KUMAR
17	DAY 5	08-12-17	9:30-10:00	Intersystem handoff, cell splitting, micro cells, vehicle locating methods	Mrs.M.DIVYA
18			10:00-11:00	DIGITAL CELLULAR NETWORKS	Mrs.V.RUKMINAMMA
19			11:00-1:00	GSM architecture, GSM channels	MR.B.PRAVEEN KUMAR
20			2:00-4:30	Multiplex access scheme, TDMA, CDMA.	Mrs.G.PRIYANKA
21	DAY 6	9-12-17	9:30-10:00	REVIEW ON ENTIRE COURSE	Mrs.M.DIVYA
22			10:00-11:00	CONDUCTION OF EXAMINATION	Mrs.G.PRIYANKA
23			11:00-1:00	ASSESSMENT OF EXAMINATION	Mrs.M.DIVYA
24			2:00-4:30	CERTIFICATE ISSUING	MR.B.PRAVEEN KUMAR

Total:36 Hrs

*Anil 9/12/17*  
CO-ORDINATOR

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Coordinator  
Expert (For Information)  
Notice Board

*Raj 9/12/17*  
HOD/ECE  
Head of the Department  
Electronics & Communication Engg.  
Mother Theresa Institute of Engg & Technology  
Palamaner, Chittoor(Dt.)- 517 408.









		PALLAVI	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
68.	14HR1A0476	REDDYVARI SHARVANI	✓	✓	✓	A	✓	✓	✓	✓	✓	✓	✓	✓
69.	14HR1A0477	SANDHIYA S	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
70.	14HR1A0478	SANDIREDDYGARI DIVYA	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
71.	14HR1A0480	S JEEVAN KUMAR	✓	✓	A	A	✓	✓	✓	✓	✓	✓	✓	✓
72.	14HR1A0481	SHAIK SHAMA PARVEEN	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
73.	14HR1A0482	SHEIK MAHAMMAD FAROOQ	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
74.	14HR1A0483	S MAMATHA	✓	✓	✓	✓	✓	✓	✓	✓	A	A	✓	✓
75.	14HR1A0484	SOMPALLE GREESHMA	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
76.	14HR1A0485	SRIRAMA MAMATHA	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	A
77.	14HR1A0486	TAPAL AYUB	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
78.	14HR1A0487	T HARI PRIYA	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
79.	14HR1A0488	TIRIMI POOJA	A	A	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
80.	14HR1A0489	T R RAMYASREE	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	14HR1A0490	VAYALPATE TEJA	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
82.	14HR1A0491	V JAYASREE	✓	✓	✓	✓	A	A	✓	✓	✓	✓	✓	✓
83.	14HR1A0492	V LAVANYA	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
84.	14HR1A0493	VULAVA MADHUSUDHAN	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
85.	14HR1A0494	V SARANYA	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
86.	14HR1A0495	VULAVA VINOD KUMAR	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
87.	14HR1A0496	VUPPALAPATI MADHU	✓	✓	A	A	✓	✓	✓	✓	✓	✓	✓	✓
88.	14HR1A0497	Y RAMBHUPAL REDDY	✓	✓	✓	✓	✓	✓	✓	A	✓	✓	✓	✓
89.	14HR1A0498	YADA KISHORE KUMAR REDDY	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
90.	14HR1A0499	AENAMANDALA CHANDUPRASAD	✓	✓	✓	✓	A	A	✓	✓	✓	✓	✓	✓

*Ami*  
9/12/17  
CO-ORDINATOR

*S*  
9/12/17  
HOD/ECE  
Head of the Department  
Electronics & Communication Engg.  
M. Theresa Institute of Engg. & Technology  
Paramaner, Chittoor(Dt.)- 517 403.



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Melumoi Cross, Palamaner, Chittoor(Dist.) – 517408.

DEPARTMENT ELECTRONICS AND COMMUNICATION ENGINEERING  
VALUE ADDED COURSE: CELLULAR & MOBILE  
COMMUNICATION

- 1 Which among this is the frequency is allocated for cellular [ ]  
communication by FCC  
A 780MHz B 800MHz C 640MHz D 1100MHz
- 2 Which among this circuit merit provide excellent voice [ ]  
quality service  
A CM1 B CM3 C CM5 D CM2
- 3 The mean opinion score (MOS) should be [ ]  
A  $\geq 1$  B  $\geq 4$  C  $\geq 9$  D  $\geq 10$
- 4 The expression for  $C_2/C_1 =$  [ ]  
A  $\left(\frac{R_2}{R_1}\right)^2$  B  $\left(\frac{R_2}{R_1}\right)^{-4}$  C  $\left(\frac{R_2}{R_1}\right)^{-4} \pi r^2$  D (A)&(C)
- 5 What is delay spread( $\Delta$ ,  $\mu s$ ) inside a building [ ]  
A  $< 0.2$  B 0.5 C  $< 0.1$  D 3
- 6 ..... provides interference between MTSO and [ ]  
mobile unit  
A Cell site B HLR C MOS D Air-bis
- 7 The offered load(A) is given as [ ]  
A  $A = Q_i/60$  B  $A = Q_i T/6$  C  $A = Q_i T/65$  D  $A = Q_i T/60$
- 8 The propagation path loss ( $\gamma$ ) varies from [ ]  
A 0 to 4 B 2 to 3 C 2 to 4 D 3 to 4
- 9 The frequency reuse distance(D) is given by [ ]  
A  $D = \sqrt{3}$  B  $D = \sqrt{3}R$  C  $D = \sqrt{3}N$  D  $D = \sqrt{3NR}$

- 13 How many cell causes interference in  $k=7$  cell pattern [ ]  
 A 3 B 4 C 5 D 6
- 14 The co-channel reduction factor for  $k=7$  cell pattern is [ ]  
 A 4 B 4.6 C 5 D 5.8
- 15 Cellular communication is a ..... transmission system [ ]  
 A Low power B High power  
 C Low frequency D High frequency
- 16 ..... is the advantage of sectorization of cells [ ]  
 A Increased (C/I) B Decreased traffic C Increased noise power D None
- 17 If number of cell pattern (K) increases, the (C/I) ratio [ ]  
 A Decreases B Increases C Not effected D None
- 18 The voice quality of the system depends on the .....value [ ]  
 A  $\left(\frac{C+I}{I}\right)$  B  $\left(\frac{C}{I}\right)$  C  $\left(\frac{I}{C}\right)$  D  $\left(\frac{I}{C+I}\right)$
- 19 Hard handoff is a [ ]  
 A Break-before-make process B Make-before-break process  
 C (a)&(b) D None
- 20 MAHO stands for [ ]  
 A Mobile associated handoff B Mobile assisted handoff  
 C Mobile and handoff D Mobile arithmetic handoff





DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING  
VALUE ADDED COURSE:: Cellular & Mobile Communication(15A04709)  
IV B.TECH STUDENT EVALUATION FORM:: AY 2017-18

\*\*\*\*\*

S.NO.	REGD. NO.	NAME OF THE STUDENT	GRADE
1	14HR1A0402	A DINESH	B
2	14HR1A0404	ANANTHA HARITHA	A
3	14HR1A0405	ARITHA P	C
4	14HR1A0406	A S PRIYANKA	C
5	14HR1A0407	ATHE SIREESHA	A
6	14HR1A0408	ATCHANNAGARI PAVANI	B
7	14HR1A0409	B PRIYANKA	C
8	14HR1A0410	B SINDHU	C
9	14HR1A0411	B SOWJANYA	C
10	14HR1A0412	BANDA VIJAYAKUMARI	B
11	14HR1A0413	BANDARLA MAHITHA	B
12	14HR1A0414	B SANDHYASREE	B
13	14HR1A0415	B SANJAY KUMAR	A
14	14HR1A0416	B S PAVAN KUMAR	A
15	14HR1A0417	B VAMSI KRISHNA	A
16	14HR1A0418	C ALEKHYA	C
17	14HR1A0419	C DEEPHIMAI	B
18	14HR1A0421	C LATHA	C
19	14HR1A0422	C SUFIYA BHANU	B
20	14HR1A0423	CHIENNASAMUDRAM SREENIVASULU	C
21	14HR1A0424	DEVAKKAGARI SONIYA	B
22	14HR1A0425	DOOGURI YASWANTHI KUMAR	A
23	14HR1A0426	EMME ANUSHA	A
24	14HR1A0427	G B KALYAN KUMAR	A
25	14HR1A0428	G CHAITANYA KRISHNA	B
26	14HR1A0430	G JAYABHARATHI	C
27	14HR1A0431	G LAKSHMI	A
28	14HR1A0432	G M RAJESWARI	B
29	14HR1A0433	G PAVAN KUMAR	C
30	14HR1A0434	G S P KRISHNA	A
31	14HR1A0435	GUNDLURU LOKANATH REDDY	B
32	14HR1A0436	GUNDLOORU SARANKUMAR	C
33	14HR1A0437	G YUGANDHAR	C
34	14HR1A0438	J POOJITHA	A
35	14HR1A0439	JOHNSON MERLIN HEPZIBAH	D

36	14HR1A0440	K C HEMANTH KUMAR	C
37	14HR1A0441	K CHETAN	A
38	14HR1A0442	K HEMALATHA	B
39	14HR1A0443	KOPPOLU MOUNIKA	B
40	14HR1A0444	K PRABHAKAR	C
41	14HR1A0445	KADINTI MANJUNATHA	A
42	14HR1A0446	KAMSALA THEJASWI	A
43	14HR1A0447	KONKI NAVEENA	B
44	14HR1A0448	KUCHI ROJA	C
45	14HR1A0449	LOKESH S	B
46	14HR1A0450	LIKITHPRASAD R M	C
47	14HR1A0451	MARRI CHAITRA	A
48	14HR1A0452	M CHANAKYA SAI	A
49	14HR1A0454	MOHAMMED NIZAM	B
50	14HR1A0455	MORUMPALLE RAVICHANDRA	C
51	14HR1A0456	MUTHYALAREDDIGARI MAHESH KUMAR	B
52	14HR1A0457	NADIMINTI SRAVANI	C
53	14HR1A0458	NAGIREDDIGARI SRINATH REDDY	A
54	14HR1A0459	NARRA THEJASWI	C
55	14HR1A0462	P HEMAMALINI	A
56	14HR1A0463	P J PRABHUDEV	B
57	14HR1A0464	P PREETHI	A
58	14HR1A0466	PALEM CHAKRADHAR	B
59	14HR1A0467	PANDIPATI KAVYA	C
60	14HR1A0468	PATNOOL ZUBER	A
61	14HR1A0469	PEDDAVASANNAGARI VANI	A
62	14HR1A0470	PUTTURU KISHORE	B
63	14HR1A0471	R HARITHA	B
64	14HR1A0472	R KAVITHA	C
65	14HR1A0473	R NIROSHA	C
66	14HR1A0474	REPANA SIVA	A
67	14HR1A0475	REDDYVARI PALLAVI	A
68	14HR1A0476	REDDYVARI SHARVANI	B
69	14HR1A0477	SANDHIYA S	B
70	14HR1A0478	SANDIREDDYGARI DIVYA	C
71	14HR1A0480	S JEEVAN KUMAR	C
72	14HR1A0481	SHAIK SHAMA PARVEEN	A
73	14HR1A0482	SHEIK MAHAMMAD FAROOQ	A
74	14HR1A0483	S MAMATHA	A
75	14HR1A0484	SOMPALLE GREESHMA	B



76	14HR1A0485	SRIRAMA MAMATHA	C
77	14HR1A0486	TAPAL AYUB	A
78	14HR1A0487	T HARI PRIYA	B
79	14HR1A0488	TIRIMI POOJA	A
80	14HR1A0489	T R RAMYASREE	B
81	14HR1A0490	VAYALPATE TEJA	C
82	14HR1A0491	V JAYASREE	A
83	14HR1A0492	V LAVANYA	C
84	14HR1A0493	VULAVA MADHUSUDHAN	B
85	14HR1A0494	V SARANYA	C
86	14HR1A0495	VULAVA VINOD KUMAR	C
87	14HR1A0496	VUPPALAPATI MADHU	C
88	14HR1A0497	Y RAMBHUPAL REDDY	A
89	14HR1A0498	YADA KISHORE KUMAR REDDY	A
90	14HR1A0499	AENAMANDALA CHANDUPRASAD	B

**GRADE: A>75%, B>65%, C>50%, D-FAIL**

*[Signature]*  
9/12/17  
**CO-ORDINATOR**

Copy to:  
Dept. file  
Coordinator

*[Signature]*  
9/12/17  
**HOD/ECE**

**Head of the Department**  
Electronics & Communication Engg.  
Theresa Institute of Engg. & Technology  
Pannamaner, Chittoor(Dt.)- 517 403.



DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING  
VALUE ADDED COURSE:: CELLULAR & MOBILE COMMUNICATION

IV B.TECH

AY 2017-2018(4.12.2017 TO 9.12.2017)

\*\*\*\*\*

**Feedback Form**

Name of the Staff: G S P KRISHNA

Choose:

- 5- Excellent
- 4- Very Good
- 3- Good
- 2- Fair
- 1- Poor

S.No	Description	5	4	3	2	1
1	Organization of Subject in Logical Sequence	5				
2	Clarity and audibility of Speech	5				
3	Method of Explanation with proper Illustrations & Examples	5				
4	Way of Raising doubts & Effective clarification of doubts	4				
5	Relevance of the lecture to the topic announced	5				
6	Overall Performance	5				

Suggestions if any:

*Teishna*  
9/12/17  
Signature (Optional)





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Melumoi Cross, Palamaner, Chittoor(Dist.) – 517408.



DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING  
VALUE ADDED COURSE:: CELLULAR & MOBILE COMMUNICATION

IV B.TECH

AY 2017-2018(4.12.2017 TO 9.12.2017)

\*\*\*\*\*

**Feedback Form**

Name of the Staff: A DINESH

Choose:

- 5- Excellent
- 4- Very Good
- 3- Good
- 2- Fair
- 1- Poor

S.No	Description	5	4	3	2	1
1	Organization of Subject in Logical Sequence	5				
2	Clarity and audibility of Speech	5				
3	Method of Explanation with proper Illustrations & Examples	5				
4	Way of Raising doubts & Effective clarification of doubts	5				
5	Relevance of the lecture to the topic announced	5				
6	Overall Performance	5				

Suggestions if any:

*Dinesh*  
9/12/17  
Signature (Optional)



DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING  
VALUE ADDED COURSE:: CELLULAR & MOBILE COMMUNICATION

IV B.TECH

AY 2017-2018(4.12.2017 TO 9.12.2017)

\*\*\*\*\*

Feedback Analysis

Number of students submitted Feedback Forms: 90

Total number of Points: 450

S.No	Description	Excellent	Very Good	Good	Fair	Poor	%
1	Organization of Subject in Sequence	30	40	10	10	0	69.23
2	Clarity and audibility of Speech	40	30	10	10	0	71.15
3	Method of Explanation with proper Illustrations & Examples	50	20	10	10	0	73.07
4	Way of Raising doubts & Effective clarification of doubts	50	10	20	10	0	71.15
5	Relevance of the lecture to the topic announced	50	20	20	0	0	75.0
6	Overall Performance	50	20	10	10	0	73.07
<b>Total(Average)</b>							<b>72.11</b>

- Total Points  $\geq 90$  → Excellent (5 Points)  
Total Points  $\geq 80$  → Very Good (4 Points)  
Total Points  $\geq 70$  → Good (3 Points)  
Total Points  $\geq 50$  → Fair (2 Points)  
Total Points  $\leq 49$  → Poor (1 Points)

Feedback analysis report: The WORKSHOP was very good based on the feedback percentage that was given by the students.

  
CO-ORDINATOR

  
HOD/ECE  
Head of the Department  
Electronics & Communication Engg.  
Mother Theresa Institute of Engg. & Technology  
Palamaner, Chittoor(Dt.)- 517 408





Report-On  
**VALUE ADDED COURSE:: CELLULAR & MOBILE COMMUNICATION**  
**IV B.TECH**  
**AY 2017-2018(14.12.2017 to 19.12.2017)**

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As the Department of ECE conducting the value added course on **CELLULAR & MOBILE COMMUNICATION** organized for students of IV Year ECE on 14<sup>th</sup> DEC to 19<sup>th</sup> DEC 2017 to explore the knowledge of Cellular Communication. The technical team has given mix of theory and practical knowledge on signal and circuit design.

This program was organized by Mr.G.SANKARAPPA, Professor & Head of the department with the co-ordination of Mr. P. Anil Kumar, Associate Professor, ECE Department.

The Workshop was organized for Six days effective from 14/12/2017 to 19/12/2017 with a total duration of 30 Hours. Ninety one students from second year ECE were benefitted from this program. The program was held in ECE Seminar hall for inauguration, theory and technical session practical's were conducted in E-Yantra lab.

**TOPICS COVERED**

Introduction to Cellular Mobile system, Uniqueness of mobile radio environment, operation of cellular systems, Hexagonal shaped cells General description of the problem, concept of frequency channels, INTERFERENCE: Introduction to Co-channel interference, CELL COVERAGE FOR SIGNAL AND TRAFFIC: Signal reflections in flat and hilly Terrain, Phase difference between direct and reflected paths, constant standard deviation, Cell site and mobile antenna, Sum and difference patterns and their synthesis, Omni directional antennas, directional antennas for interference reduction, Minimum separation of cell site antennas, high gain antennas. Frequency Management And Channel Assignment, Setup access and paging channels channel assignments to cell sites and mobile units, Handoff, dropped calls and cell splitting, types of handoff, Intersystem handoff, cell splitting, micro cells, vehicle locating methods, GSM architecture, GSM channels, Multiplex access scheme, TDMA, CDMA.

The total program is successfully completed with the cooperation of each and every faculty member of the department and student participants.

**Objective & Outcome:** The conducted Add-on course ensured knowledge enhancement in the area of Cellular & Mobile communication, in its quality and aimed for the development of skills towards academics and placements / employment.



Cellular & Mobile Communication technical classes

Anil  
9/12/19  
CO-ORDINATOR



# Mother Theresa Institute of Engineering and Technology



(Approved by AICTE, New Delhi and Affiliated to JNTUA, Anantapuramu)

Melumoi (Post), Palamaner-517408, Chittoor Dist., A.P.

Website: [www.mtitech.edu.in](http://www.mtitech.edu.in) email: [mtieat@gmail.com](mailto:mtieat@gmail.com) ☎ 08579 268589



## Certificate

This is to Certify that Mr./Ms. SOMPALLE GREESHMA Reg. No. 14HR1A0484 Dept. of ECE has successfully completed a course in "Cellular & Mobile Communication(15A04709)", conducted by the department of Electronics & Communication Engineering, MTIET, Palamaner from 04-12-17 to 9-12-17 and has obtained B grade.

CO-ORDINATOR

HOD

PRINCIPAL



# Mother Theresa Institute of Engineering and Technology



(Approved by AICTE, New Delhi and Affiliated to JNTUA, Anantapuramu)

Melumol (Post), Palamaner-517408, Chittoor Dist., A.P.

Website: [www.mtietech.edu.in](http://www.mtietech.edu.in) email: [mtietat@gmail.com](mailto:mtietat@gmail.com) ☎ 08579 268589



## Certificate

This is to Certify that Mr./Ms. S MAMATHA Reg. No. 14HR1A0483 Dept. of ECE has successfully completed a course in "Cellular & Mobile Communication(15A04709)", conducted by the department of Electronics & Communication Engineering, MTIET, Palamaner from 04-12-17 to 9-12-17 and has obtained A grade.

CO-ORDINATOR

HOD

PRINCIPAL