



G.PULLAIAH COLLEGE OF ENGINEERING AND TECHNOLOGY::KURNOOL
(AUTONOMOUS)
ACCREDITED BY NAAC 'A' GRADE OF UGC AND NBA OF AICTE
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Department Circular –ADD-ON Course

DATE: 07-01-2019

The III year-II Semester and IV-year II Semester ECE Students are informed to enroll their names for the ADD-ON Course on “**High Speed Electronics**” with their respective class-in-charges on or before 14-01-2019. The course commences from 21st January and the duration of the course is 48 classes. The course is conducted from 4 pm to 5 pm regularly.

The bus facility is made available soon after the class work.

T. J. J. J.
HOD-ECE

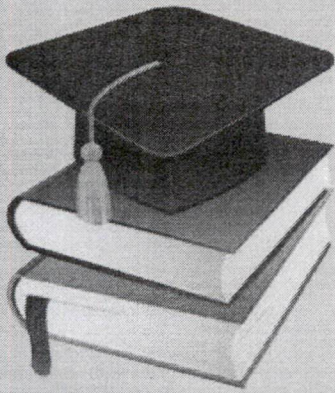
L. J. J. J.
PRINCIPAL
G.Pullaiah College of Engg & Tech.
Nandikotkur Road, VENKAYAPALLI
KURNOOL-518 452 (A.P)



G. PULLAIAH COLLEGE OF ENGINEERING AND TECHNOLOGY (AUTONOMOUS)

Department Of Electronics and Communication Engineering

ADD ON COURSE



Topic : HIGH SPEED ELECTRONICS
Target audience : III & IV Year Students
Total Course Duration : 48 hrs
Selection Procedure : Registration on First
come First serve basis

FREE

Register
Now

Date of commencement of the course : 21 Jan,2019.

End of Course : 18 May, 2019.

Exam Date: 22 May,2019.

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

HIGH SPEED ELECTRONICS

SYLLABUS

UNIT-I: Important parameters governing the high-speed performance of devices and circuits:

Transit time of charge carriers, junction capacitances, ON-resistances and their dependence on the device geometry and size, carrier mobility, doping concentration and temperature. Contact resistance and interconnection/interlayer capacitances in the Integrated Electronics Circuits.

UNIT-II: Silicon based MOSFET and BJT circuits for high-speed operation and their limitations:

Emitter coupled Logic (ECL) and CMOS Logic circuits with scaled down devices. Silicon On Insulator (SOI) wafer preparation methods and SOI based devices and SOICMOS circuits for high-speed low power applications.

UNIT-III: Materials for high-speed devices and circuits:

Merits of III -V binary and ternary compound semiconductors (GaAs, InP, InGaAs, AlGaAs ETC.), silicon-germanium alloys and silicon carbide for high speed devices, as compared to silicon based devices. Brief outline of the crystal structure, dopants and electrical properties such as carrier mobility, velocity versus electric field characteristics of these materials. Material and device process technique with these III-V and IV - IV semiconductors.

UNIT-IV: Metal semiconductor contacts and Metal Insulator Semiconductor and MOS devices:

Native oxides of Compound semiconductors for MOS devices and the interface state density related issues. Metal semiconductor contacts, Schottky barrier diode. Thermionic Emission model for current transport and current-voltage (I-V) characteristics. Effect of interface states and interfacial thin electric layer on the Schottky barrier height and the I-V characteristics.

UNIT-V: Metal semiconductor Field Effect Transistors (MESFETs):

Pinch off voltage and threshold voltage of MESFETs. D.C. characteristics and analysis of drain current. Velocity overshoot effects and the related advantages of GaAs, InP and GaN based devices for high speed operation. Sub threshold characteristics, short channel effects and the performance of scaled down devices.

REFERENCE BOOKS:

- 1) S.K Gandhi, "VLSI Fabrication Principles" Wiley, NY, 1994.
- 2) C.Y. Chang & F.Kat "GaAS High Speed Devices: "Physics, Technology & Circuit Applications", Wiley, NY 1994.
- 3) H.Beneking, "High speed semiconductor Devices: Circuit Aspects and Fundamental Behaviour" Chapman and Hall, London, 1994.
- 4) S.M Sze "High speed semiconductor Devices" Wiley, 1990.
- 5) Michael Shur, "GaAs Devices and Circuits" Plenum Press, NY, 1987.

Thirupathi
HOD-ECE

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

HIGH SPEED ELECTRONICS

SCHEDULE

Name of the Instructor: Dr. T. Tirupal

S. No	Content	No. of Hours
UNIT-I: Important parameters governing the high-speed performance of devices and circuits		
1.	Transit time of charge carriers, junction capacitances	1
2.	ON-resistances and their dependence on the device geometry and size	1
3.	carrier mobility, doping concentration and temperature	1
4.	Contact resistance and interconnection	1
5.	interlayer capacitances in the Integrated Electronics Circuits.	1
UNIT-II: Silicon based MOSFET and BJT circuits for high-speed operation and their limitations		
6.	Emitter coupled Logic (ECL) and CMOS Logic circuits with scaled down devices	3
7.	Silicon On Insulator (SOI) wafer preparation methods	3
8.	SOI based devices	3
9.	SOICMOS circuits for high-speed low power applications	3
UNIT-III: Materials for high-speed devices and circuits		
10.	Merits of III –V binary and ternary compound semiconductors (GaAs, InP, InGaAs, AlGaAs ETC.)	3
11.	silicon-germanium alloys and silicon carbide for high speed devices, as compared to silicon based devices	3
12.	Brief outline of the crystal structure, dopants and electrical properties such as carrier mobility, velocity versus electric field characteristics of these materials	2
13.	Material and device process technique with these III-V and IV – IV semiconductors	2
UNIT-IV: Metal semiconductor contacts and Metal Insulator Semiconductor and MOS devices		
14.	Native oxides of Compound semiconductors for MOS devices and the interface state density related issues	3
15.	Metal semiconductor contacts, Schottky barrier diode	3
16.	Thermionic Emission model for current transport and current-voltage (I-V) characteristics	3
17.	Effect of interface states and interfacial thin electric layer on the Schottky barrier height and the I-V characteristics	3

Tirupal

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S. No	Content	No. of Hours
UNIT-V: Metal semiconductor Field Effect Transistors (MESFETs):		
18.	Pinch off voltage and threshold voltage of MESFETs. D.C. characteristics and analysis of drain current	3
19.	Velocity overshoot effects and the related advantages of GaAs, InP and GaN based devices for high speed operation	3
20.	Sub threshold characteristics, short channel effects and the performance of scaled down devices	3
Total Hours		48

Thirupad
Instructor Sign

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G PULLAIAH COLLEGE OF ENGINEERING & TECHNOLOGY (AT), KURNOOL

DEPARTMENT OF ECE

HIGH SPEED ELECTRONICS

S.NO.	ROLL NO.	Name of the Student
IV ECE		
1	16AT1A04B9	KASIREDDY SHIVANI
2	16AT1A04C0	RAJAMMURI SIREESHA
3	16AT1A04C1	P SIRISHA
4	16AT1A04C2	PUNYAMURTHY SIVA SAI KUMAR
5	16AT1A04C4	I SIVA SUBRAMANYAM
6	16AT1A04C5	GADIGA SOWJANYA
7	16AT1A04C6	C SOWMYA
8	16AT1A04C7	ELLURU SOWMYA
9	16AT1A04C8	U SOWMYA SRI
10	16AT1A04C9	NUKALA SRAVANI
11	16AT1A04D0	V SREE AMRUTHA
12	16AT1A04D1	V SREENATH REDDY
13	16AT1A04D2	G SRI LAKSHMI
14	16AT1A04D3	K SRILAKSHMI
15	16AT1A04D4	YARRAM SRILATHA
16	16AT1A04D5	DEVANURU SRINIVASULU
17	16AT1A04D6	THUPPUKONDA SRINIVASULU
18	16AT1A04D7	SAYA SUDHAKAR BABU
19	16AT1A04D8	DARA SUDHEER KUMAR
20	16AT1A04D9	S SUMA
21	16AT1A04E0	PESALA SUMANTH
22	16AT1A04E1	KANIKE SURYA
23	16AT1A04E2	EDIGA SWETHA
24	16AT1A04E3	VIRUPA SWETHA
25	16AT1A04E4	A TANMAI TEJ
26	16AT1A04E5	ELLURU TARUN KUMAR
27	16AT1A04E6	SREERAMA TARUN
28	16AT1A04E7	M TARUNANJAN
29	16AT1A04E8	M THIRUMALESH NAIDU
30	16AT1A04E9	SHAIK UMEY HONEY
31	16AT1A04F0	KALVA VAMSHI KRISHNA YADAV
32	16AT1A04F1	A VAMSHIDHAR
33	16AT1A04F2	ALIVELI VAMSI KRISHNA
34	16AT1A04F3	EDIGA VAMSI KRISHNA GOUD
35	16AT1A04F4	KAPPALA VARSHINI
36	16AT1A04F6	NAKKA VASUNDHARA DEVI
37	16AT1A04F7	R VEENA MADHURI
38	16AT1A04F8	PODILI VEERENDRA SAI
39	16AT1A04F9	ANUMULA VENKATA NAGA SAI PAVANI
40	16AT1A04G0	ELAPAVANAM VENKATASAI PRANEETH
41	16AT1A04G2	K VENKATESWAR REDDY
42	16AT1A04G3	ETIKALA VIGNATHA
43	16AT1A04G4	YEKBOTE VIJAYSAI
44	16AT1A04G6	CHAKALI VINODH

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45	16AT1A04G7	JEETHURI VISHNU
46	16AT1A04G8	SHAIK WASEEM BASHA
47	16AT1A04G9	BOYA YALLARAJU
48	16AT1A04H0	PERUMALA YAMINI
49	16AT1A04H1	ENAMETLA YASHASWINI
50	16AT1A04H2	M YATISHA
51	16AT1A04H3	NEELI YOGISWAR
52	16AT1A04H4	STEFFY BADRI
53	15AT1A0475	KRISHNAJADA PRABHAVATHI
54	15AT1A0481	M RAGHUVAMSI
55	17AT5A0401	MULE ARUNA
56	17AT5A0402	HOUDEKARI JAVAHARLAL
57	17AT5A0403	B JAYANTH KUMAR
58	17AT5A0404	KURUVA KRISHNAVENI
59	17AT5A0405	BYSANI MALLIKARJUNA
60	17AT5A0406	J MALLIKARJUNA
61	17AT5A0407	SEMIKALA MURALIDHARA REDDY
62	17AT5A0408	SURIVIGARI NAGA TEJESWARA REDDY
63	17AT5A0409	MOGATHALI RAMU
64	17AT5A0410	YEDDULA RUBY SWAROOPA RANI
65	17AT5A0411	KALIMI SANDEEP REDDY
66	17AT5A0412	KOVURU SRAVAN KUMAR
67	17AT5A0413	DASARI SUMANTH KUMAR
68	17AT5A0414	THIRIVEEDI SUPRIYA
69	17AT5A0415	KALUVA VINAY KUMAR
III ECE		
70	17AT1A0487	HARIBELKAMLEKAR NEHA
71	17AT1A0488	SHAIK NUSRATH NAAZ
72	17AT1A0489	K PAVAN TEJA
73	17AT1A0490	AKULA PAVANKALYAN
74	17AT1A0491	KASHIGARI PAWAN
75	17AT1A0492	CHILUKURU POOJITHA
76	17AT1A0493	K PRAVALLIKA
77	17AT1A0494	GURRAM PREETHI
78	17AT1A0495	MALLELA PREETHI YADAV
79	17AT1A0496	JANGAM RAJAKUMAR
80	17AT1A0497	REDDYPOGU RAKESH
81	17AT1A0498	KURUVA RAMADEVI
82	17AT1A0499	BOYINI RAMAKANTH REDDY
83	17AT1A04A0	YASAM RAMASUCHARITHA
84	17AT1A04A1	YEDLAPALLI RAMU
85	17AT1A04A2	YANNAM PEDDA RANGA SWAMY
86	17AT1A04A4	YATAGIRI TELUGU RUPA SREE
87	17AT1A04A5	SALKAPURAM SAI CHARAN
88	17AT1A04A6	MADDELA SAI CHARAN TEJA
89	17AT1A04A7	L SAI JYOTHSNA
90	17AT1A04A8	NUTHANAPATI SAI KIRAN CHOWDARY
91	17AT1A04A9	SATHOORI SAI KRISHNA GOUD
92	17AT1A04B0	SAI ROHITH V
93	17AT1A04B1	PANCHANGAM SAI SAMYUKTHA

Thirumala

94	17AT1A04B2	K SAI SARANYA
95	17AT1A04B3	MALAVATH SAI SOWMYA BAI
96	17AT1A04B4	DANDIMENI SAI VENNELA
97	17AT1A04B5	KG SAKETH KUMAR
98	17AT1A04B6	MARRI SAKETH KUMAR
99	17AT1A04B7	H SAMARA SIMHA REDDY
100	17AT1A04B8	MULLA SAMEENA
101	17AT1A04B9	MD SARFARAZ NASIRJAH
102	17AT1A04C0	BELLARY SANAULLAH
103	17AT1A04C1	MANGALI SANDEEP
104	17AT1A04C3	S SHEHBAZ ABDUL WAASI
105	17AT1A04C4	DARGA SHAMSHEER
106	17AT1A04C5	SHAIK SHAMSHUN
107	17AT1A04C6	KATIKA SHANAVAJ
108	17AT1A04C7	A SHANTHI SAI
109	17AT1A04C9	K SHREYA
110	17AT1A04D0	GOLLA SIREESHA
111	17AT1A04D1	GOLLA SIREESHA
112	17AT1A04D2	KOTLA SIVANI
113	17AT1A04D3	L SONICA TEJASWINI
114	17AT1A04D4	PIDATHALA SOWMYA
115	17AT1A04D5	PURETI SREEDARSHINI KISHORE
116	17AT1A04D6	BANDAPALLI SREENATH
117	17AT1A04D7	ALAM SREEVIDYA
118	17AT1A04D8	BANDI SRUJAN ABHISHEK
119	17AT1A04D9	M STANLEY RHEMA CALVIN
120	17AT1A04E0	A SUDEPTHI REDDY
121	17AT1A04E1	PEDDA BOYEENA SUDHEER KUMAR
122	17AT1A04E2	CHALLA SUJITHA
123	17AT1A04E3	YALLATURU SUMANTH
124	17AT1A04E4	KAMISHETTI SUNIL KUMAR
125	17AT1A04E5	BOYA SUNITHA
126	17AT1A04E6	RACHAMADUGU SUPRIYA
127	17AT1A04E7	M SUSHMA
128	17AT1A04E8	U SUSHMANJALI
129	17AT1A04E9	KAPA SUSHMAREDDY
130	17AT1A04F0	D SUSMITHA
131	17AT1A04F1	N TANMAI
132	17AT1A04F2	DHARMAVARAM TEJA
133	17AT1A04F4	KUMMARI TEJASWINI
134	17AT1A04F5	MUTYALA TEJASWINI
135	17AT1A04F6	M UDAY KIRAN
136	17AT1A04F7	EDIGA UDAY KUMAR
137	17AT1A04F8	UPPARA UDAY SAI
138	17AT1A04F9	POLURU UMA DEVI
139	17AT1A04G0	T VAIBHAV SHARMA
140	17AT1A04G1	KATEPOGU VAMSI KUMAR
141	17AT1A04G2	Y VAMSI
142	17AT1A04G3	NAGARAJU VARSHITHA
143	17AT1A04G4	VEEKSHITHA REDDY R

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144	17AT1A04G5	KASIREDDY VENKATA BHAVANA REDDY
145	17AT1A04G6	BOYA VENKATA MURALI
146	17AT1A04G7	M VENUSRI
147	17AT1A04G8	G VIJAY
148	17AT1A04G9	DADEPOGU VIJAY KUMAR
149	17AT1A04H0	DUDUMANNAGARI VIJAYA KUMAR
150	17AT1A04H1	G VIKAS
151	17AT1A04H2	D VIRAAAL RICHARD
152	17AT1A04H3	V VYSHNAVI
153	17AT1A04H4	KASETTY YASHASREE
154	17AT1A04H5	MOLLA YASIRABI
155	17AT1A04H6	KUMMARI YESHWANTH
156	17AT1A04H7	SHAIK ZIA FURQAN
157	17AT1A04H8	SURA AKHIL KUMAR
158	17AT1A04H9	B MOHEEB ALI KHAN
159	17AT1A04I0	KURUKUNDU SOWMYA
160	17AT1A04I1	KAREDDY VAISHNAVI
161	22AT5A0436	SHAIK ABDUL UMAR
162	22AT5A0437	SHAIK ESMAIL
163	22AT5A0438	SOMU PAVAN KUMAR REDDY
164	22AT5A0439	TELUGU GANGADHAR
165	22AT5A0440	TATI REDDY PRATHYUSHA


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HIGH SPEED ELECTRONICS
ASSESSMENT TEST

1. What is the primary purpose of high-speed electronics?
 - A) To reduce power consumption
 - B) To increase processing speed
 - C) To minimize component size
 - D) To enhance electromagnetic shielding
2. Which semiconductor material is commonly used in high-speed electronic devices?
 - A) Silicon
 - B) Germanium
 - C) Gallium arsenide (GaAs)
 - D) Indium phosphide (InP)
3. What is the main challenge in designing high-speed digital circuits?
 - A) Thermal management
 - B) Electromagnetic interference
 - C) Signal integrity
 - D) Power supply stability
4. Which of the following is NOT a characteristic of high-speed interconnects?
 - A) Low resistance
 - B) Low capacitance
 - C) High bandwidth
 - D) High latency
5. What does DDR SDRAM stand for in the context of high-speed electronics?
 - A) Dual Data Rate Synchronous Dynamic Random Access Memory
 - B) Double Density Random Static Memory
 - C) Digital Data Relay Synchronized DRAM
 - D) Direct Dynamic Random Access Module
6. Which of the following is a common technique for reducing signal skew in high-speed digital systems?
 - A) Delay-locked loop (DLL)
 - B) Voltage-controlled oscillator (VCO)
 - C) Field-programmable gate array (FPGA)
 - D) Pulse-width modulation (PWM)
7. What is the significance of rise time and fall time in high-speed digital signals?
 - A) They indicate the frequency of the signal
 - B) They measure the transition speed of the signal
 - C) They determine the signal-to-noise ratio
 - D) They represent the signal propagation delay

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8. Which type of transmission line is preferred for high-speed data transfer over long distances?
 - A) Coaxial cable
 - B) Twisted-pair cable
 - C) Microstrip line
 - D) Optical fiber

9. Which of the following factors affects the propagation delay of signals in high-speed electronic circuits?
 - A) Capacitance
 - B) Inductance
 - C) Resistance
 - D) All of the above

10. What is the purpose of impedance matching in high-speed electronic circuits?
 - A) To maximize power consumption
 - B) To minimize electromagnetic interference
 - C) To minimize signal reflection
 - D) To maximize signal distortion

11. Which of the following is NOT a component of a high-speed serial link?
 - A) Serializer
 - B) Deserializer
 - C) Phase-locked loop (PLL)
 - D) Multiplexer

12. What is the function of clock skew correction in high-speed digital systems?
 - A) To synchronize data transmission
 - B) To reduce power consumption
 - C) To minimize electromagnetic interference
 - D) To compensate for timing differences between clock signals

13. Which of the following modulation techniques is commonly used in high-speed wireless communication?
 - A) Amplitude modulation (AM)
 - B) Frequency modulation (FM)
 - C) Phase-shift keying (PSK)
 - D) Pulse-amplitude modulation (PAM)

14. What is jitter in high-speed digital systems?
 - A) The delay between input and output signals
 - B) The variation in signal amplitude over time
 - C) The variation in signal timing
 - D) The interference caused by electromagnetic radiation

15. Which type of filter is commonly used for signal conditioning in high-speed communication systems?
 - A) Butterworth filter
 - B) Chebyshev filter
 - C) Bessel filter
 - D) Elliptic filter

16. What is the significance of eye diagrams in high-speed digital communication?
 - A) They represent the amplitude of the signal

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- B) They show the signal-to-noise ratio
 - C) They visualize signal integrity and timing
 - D) They indicate the frequency spectrum of the signal
17. Which of the following is NOT a common method for reducing power consumption in high-speed electronic devices?
- A) Dynamic voltage scaling
 - B) Clock gating
 - C) Signal amplification
 - D) Power gating
18. What is the role of jitter tolerance in high-speed communication receivers?
- A) To amplify the received signal
 - B) To filter out noise
 - C) To compensate for timing variations in the received signal
 - D) To synchronize multiple data streams
19. Which of the following is NOT a factor affecting signal integrity in high-speed digital systems?
- A) Crosstalk
 - B) Power supply voltage
 - C) Reflections
 - D) Skew
20. What is the function of equalization in high-speed communication systems?
- A) To balance signal amplitudes
 - B) To compensate for channel distortion
 - C) To synchronize data transmission
 - D) To reduce signal jitter
21. Which of the following is NOT a common type of noise in high-speed electronic systems?
- A) Thermal noise
 - B) Shot noise
 - C) Signal noise
 - D) Crosstalk
22. What is the significance of bit error rate (BER) in high-speed communication systems?
- A) It measures the speed of data transmission
 - B) It quantifies the reliability of data transmission
 - C) It indicates the signal-to-noise ratio
 - D) It represents the bandwidth of the communication channel
23. Which type of amplifier is commonly used in high-speed communication systems?
- A) Class A amplifier
 - B) Class B amplifier
 - C) Class AB amplifier
 - D) Class D amplifier
24. What is the role of clock distribution networks in high-speed digital systems?
- A) To generate clock signals
 - B) To amplify clock signals
 - C) To distribute clock signals with minimal skew
 - D) To synchronize clock signals with data signals

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25. Which of the following is a common method for reducing electromagnetic interference in high-speed electronic systems?
- A) Shielding
 - B) Amplification
 - C) Voltage regulation
 - D) Impedance matching


Instructor Sign


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DEPARTMENT OF ECE
HIGH SPEED ELECTRONICS

S.NO.	ROLL NO.	ROLL NO.	Marks (50M)
IV ECE			
1	16AT1A04B9	KASIREDDY SHIVANI	50
2	16AT1A04C0	RAJAMMURI SIREESHA	33
3	16AT1A04C1	P SIRISHA	35
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6	16AT1A04C5	GADIGA SOWJANYA	50
7	16AT1A04C6	C SOWMYA	45
8	16AT1A04C7	ELLURU SOWMYA	50
9	16AT1A04C8	U SOWMYA SRI	50
10	16AT1A04C9	NUKALA SRAVANI	50
11	16AT1A04D0	V SREE AMRUTHA	50
12	16AT1A04D1	V SREENATH REDDY	25
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14	16AT1A04D3	K SRILAKSHMI	50
15	16AT1A04D4	YARRAM SRILATHA	48
16	16AT1A04D5	DEVANURU SRINIVASULU	44
17	16AT1A04D6	THUPPUKONDA SRINIVASULU	50
18	16AT1A04D7	SAYA SUDHAKAR BABU	49
19	16AT1A04D8	DARA SUDHEER KUMAR	41
20	16AT1A04D9	S SUMA	36
21	16AT1A04E0	PESALA SUMANTH	50
22	16AT1A04E1	KANIKE SURYA	50
23	16AT1A04E2	EDIGA SWETHA	50
24	16AT1A04E3	VIRUPA SWETHA	46
25	16AT1A04E4	A TANMAI TEJ	45
26	16AT1A04E5	ELLURU TARUN KUMAR	50
27	16AT1A04E6	SREERAMA TARUN	50
28	16AT1A04E7	M TARUNANJAN	10
29	16AT1A04E8	M THIRUMALESH NAIDU	46
30	16AT1A04E9	SHAIK UMEY HONEY	45
31	16AT1A04F0	KALVA VAMSHI KRISHNA YADAV	49
32	16AT1A04F1	A VAMSHIDHAR	50
33	16AT1A04F2	ALIVELI VAMSI KRISHNA	50
34	16AT1A04F3	EDIGA VAMSI KRISHNA GOUD	44
35	16AT1A04F4	KAPPALA VARSHINI	49
36	16AT1A04F6	NAKKA VASUNDHARA DEVI	43
37	16AT1A04F7	R VEENA MADHURI	50
38	16AT1A04F8	PODILI VEERENDRA SAI	34
39	16AT1A04F9	ANUMULA VENKATA NAGA SAI PAVANI	50
40	16AT1A04G0	ELAPAVANAM VENKATASAI PRANEETH	48
41	16AT1A04G2	K VENKATESWAR REDDY	50
42	16AT1A04G3	ETIKALA VIGNATHA	48
43	16AT1A04G4	YEKBOTE VIJAYSAI	50
44	16AT1A04G6	CHAKALI VINODH	50

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45	16AT1A04G7	JEETHURI VISHNU	49
46	16AT1A04G8	SHAIK WASEEM BASHA	50
47	16AT1A04G9	BOYA YALLARAJU	50
48	16AT1A04H0	PERUMALA YAMINI	10
49	16AT1A04H1	ENAMETLA YASHASWINI	30
50	16AT1A04H2	M YATISHA	30
51	16AT1A04H3	NEELI YOGISWAR	50
52	16AT1A04H4	STEFFY BADRI	50
53	15AT1A0475	KRISHNAJADA PRABHAVATHI	46
54	15AT1A0481	M RAGHUVAMSI	48
55	17AT5A0401	MULE ARUNA	50
56	17AT5A0402	HOUDEKARI JAVAHARLAL	48
57	17AT5A0403	B JAYANTH KUMAR	49
58	17AT5A0404	KURUVA KRISHNAVENI	49
59	17AT5A0405	BYSANI MALLIKARJUNA	47
60	17AT5A0406	J MALLIKARJUNA	50
61	17AT5A0407	SEMIKALA MURALIDHARA REDDY	10
62	17AT5A0408	SURIVIGARI NAGA TEJESWARA REDDY	47
63	17AT5A0409	MOGATHALI RAMU	49
64	17AT5A0410	YEDDULA RUBY SWAROOPA RANI	50
65	17AT5A0411	KALIMI SANDEEP REDDY	44
66	17AT5A0412	KOVURU SRAVAN KUMAR	50
67	17AT5A0413	DASARI SUMANTH KUMAR	50
68	17AT5A0414	THIRIVEEDI SUPRIYA	37
69	17AT5A0415	KALUVA VINAY KUMAR	50
III ECE			
70	17AT1A0487	HARIBELKAMLEKAR NEHA	50
71	17AT1A0488	SHAIK NUSRATH NAAZ	33
72	17AT1A0489	K PAVAN TEJA	35
73	17AT1A0490	AKULA PAVANKALYAN	50
74	17AT1A0491	KASHIGARI PAWAN	33
75	17AT1A0492	CHILUKURU POOJITHA	50
76	17AT1A0493	K PRAVALLIKA	45
77	17AT1A0494	GURRAM PREETHI	50
78	17AT1A0495	MALLELA PREETHI YADAV	50
79	17AT1A0496	JANGAM RAJAKUMAR	50
80	17AT1A0497	REDDYPOGU RAKESH	50
81	17AT1A0498	KURUVA RAMADEVI	25
82	17AT1A0499	BOYINI RAMAKANTH REDDY	32
83	17AT1A04A0	YASAM RAMASUCHARITHA	50
84	17AT1A04A1	YEDLAPALLI RAMU	48
85	17AT1A04A2	YANNAM PEDDA RANGA SWAMY	10
86	17AT1A04A4	YATAGIRI TELUGU RUPA SREE	50
87	17AT1A04A5	SALKAPURAM SAI CHARAN	49
88	17AT1A04A6	MADDELA SAI CHARAN TEJA	41
89	17AT1A04A7	L SAI JYOTHSNA	36
90	17AT1A04A8	NUTHANAPATI SAI KIRAN CHOWDARY	50
91	17AT1A04A9	SATHOORI SAI KRISHNA GOUD	50
92	17AT1A04B0	SAI ROHITH V	50
93	17AT1A04B1	PANCHANGAM SAI SAMYUKTHA	46


Thimpa

94	17AT1A04B2	K SAI SARANYA	45
95	17AT1A04B3	MALAVATH SAI SOWMYA BAI	50
96	17AT1A04B4	DANDIMENI SAI VENNELA	50
97	17AT1A04B5	KG SAKETH KUMAR	36
98	17AT1A04B6	MARRI SAKETH KUMAR	46
99	17AT1A04B7	H SAMARA SIMHA REDDY	45
100	17AT1A04B8	MULLA SAMEENA	49
101	17AT1A04B9	MD SARFARAZ NASIRJAH	50
102	17AT1A04C0	BELLARY SANAULLAH	50
103	17AT1A04C1	MANGALI SANDEEP	17
104	17AT1A04C3	S SHEHBABZ ABDUL WAASI	49
105	17AT1A04C4	DARGA SHAMSHEER	43
106	17AT1A04C5	SHAIK SHAMSHUN	50
107	17AT1A04C6	KATIKA SHANAVAJ	34
108	17AT1A04C7	A SHANTHI SAI	50
109	17AT1A04C9	K SHREYA	48
110	17AT1A04D0	GOLLA SIREESHA	50
111	17AT1A04D1	GOLLA SIREESHA	48
112	17AT1A04D2	KOTLA SIVANI	50
113	17AT1A04D3	L SONICA TEJASWINI	50
114	17AT1A04D4	PIDATHALA SOWMYA	49
115	17AT1A04D5	PURETI SREEDARSHINI KISHORE	50
116	17AT1A04D6	BANDAPALLI SREENATH	50
117	17AT1A04D7	ALAM SREEVIDYA	50
118	17AT1A04D8	BANDI SRUJAN ABHISHEK	30
119	17AT1A04D9	M STANLEY RHEMA CALVIN	30
120	17AT1A04E0	A SUDEEPHI REDDY	13
121	17AT1A04E1	PEDDA BOYEENA SUDHEER KUMAR	50
122	17AT1A04E2	CHALLA SUJITHA	46
123	17AT1A04E3	YALLATURU SUMANTH	48
124	17AT1A04E4	KAMISHETTI SUNIL KUMAR	50
125	17AT1A04E5	BOYA SUNITHA	48
126	17AT1A04E6	RACHAMADUGU SUPRIYA	49
127	17AT1A04E7	M SUSHMA	49
128	17AT1A04E8	U SUSHMANJALI	47
129	17AT1A04E9	KAPA SUSHMAREDDY	50
130	17AT1A04F0	D SUSMITHA	50
131	17AT1A04F1	N TANMAI	47
132	17AT1A04F2	DHARMAVARAM TEJA	49
133	17AT1A04F4	KUMMARI TEJASWINI	50
134	17AT1A04F5	MUTYALA TEJASWINI	12
135	17AT1A04F6	M UDAY KIRAN	50
136	17AT1A04F7	EDIGA UDAY KUMAR	50
137	17AT1A04F8	UPPARA UDAY SAI	37
138	17AT1A04F9	POLURU UMA DEVI	50
139	17AT1A04G0	T VAIBHAV SHARMA	50
140	17AT1A04G1	KATEPOGU VAMSI KUMAR	33
141	17AT1A04G2	Y VAMSI	35
142	17AT1A04G3	NAGARAJU VARSHITHA	50
143	17AT1A04G4	VEEKSHITHA REDDY R	33

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144	17AT1A04G5	KASIREDDY VENKATA BHAVANA REDDY	50
145	17AT1A04G6	BOYA VENKATA MURALI	45
146	17AT1A04G7	M VENUSRI	50
147	17AT1A04G8	G VIJAY	50
148	17AT1A04G9	DADEPOGU VIJAY KUMAR	50
149	17AT1A04H0	DUDUMANNAGARI VIJAYA KUMAR	50
150	17AT1A04H1	G VIKAS	25
151	17AT1A04H2	D VIRAAAL RICHARD	32
152	17AT1A04H3	V VYSHNAVI	50
153	17AT1A04H4	KASETTY YASHASREE	48
154	17AT1A04H5	MOLLA YASIRABI	44
155	17AT1A04H6	KUMMARI YESHWANTH	50
156	17AT1A04H7	SHAIK ZIA FURQAN	49
157	17AT1A04H8	SURA AKHIL KUMAR	41
158	17AT1A04H9	B MOHEEB ALI KHAN	36
159	17AT1A04I0	KURUKUNDU SOWMYA	50
160	17AT1A04I1	KAREDDY VAISHNAVI	50


Instructor Sign


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