



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

DATE: 09-03-2022

TO
The principal,
GPCET,
Kurnool.

Sir,

Sub: Approval of ADD-ON course for III and IV ECE Students-Regd

The department of ECE requests you to accept the proposal for conducting ADD-ON Course on "ASIC Physical Design" for the odd semester of III-year II Semester and IV-year II Semester ECE students scheduled for the duration of 48 classes. Kindly accept the proposal.

Thanking you sir,

Yours Sincerely

Thirupat
HOD-ECE

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



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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Department Circular –ADD-ON Course

DATE: 09-03-2022

The III year-II Semester and IV-year II Semester ECE Students are informed to enroll their names for the ADD-ON Course on “ASIC Physical Design” with their respective class-in-charges on or before 12-03-2022. The course commences from 14th March 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.

Thiruvud
HOD-ECE

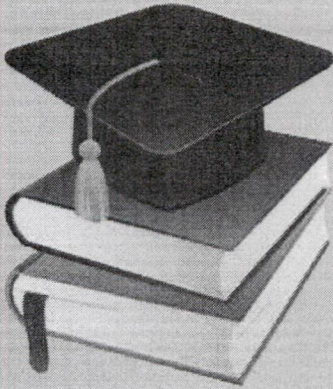
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**G. PULLAIAH COLLEGE OF
ENGINEERING AND TECHNOLOGY
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Department Of Electronics and Communication Engineering

ADD ON COURSE



**Topic : ASIC Physical Design
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 : 14 March, 2022.

End of Course : 02 June, 2022.

Exam Date: 04 June, 2022.

T. V. R. Prasad

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ASIC PHYSICAL DESIGN
SYLLABUS

UNIT - I

Types of ASICs, VLSI Design flow, Programmable ASICs - Antifuse, SRAM, EPROM, EEPROM based ASICs. Programmable ASIC logic cells and I/O cells. Programmable interconnects. Latest Version - FPGAs and CPLDs and Soft-core processors.

UNIT - II

Trade off issues at System Level: Optimization with regard to speed, area and power, asynchronous and low power system design. ASIC physical design issues, System Partitioning, Power Dissipation, Partitioning Methods.

UNIT - III

ASIC floor planning, Placement and Routing.

UNIT - IV

System-On-Chip Design - SoC Design Flow, Platform-based and IP based SoC Designs, Basic Concepts of Bus-Based Communication Architectures, On-Chip Communication Architecture Standards, Low-Power SoC Design.

UNIT - V

High performance algorithms for ASICs/ SoCs as case studies – Canonic Signed Digit Arithmetic, KCM, Distributed Arithmetic, High performance digital filters for sigma-delta ADC, USB controllers, OMAP

TEXT BOOKS

1. M.J.S. Smith, "Application Specific Integrated Circuits", Pearson, 2003
2. H.Gerez, "Algorithms for VLSI Design Automation", John Wiley, 1999.

Thompson
HOD-ECE

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ASIC PHYSICAL DESIGN
SCHEDULE

Name of the Instructor: Dr. T. Tirupal

S. No	Content	No. of Hours
UNIT-I		
1.	Types of ASICs, VLSI Design flow, Programmable ASICs - Antifuse	1
2.	SRAM, EPROM, EEPROM based ASICs	1
3.	Programmable ASIC logic cells and I/O cells	1
4.	Programmable interconnects	1
5.	Latest Version - FPGAs and CPLDs and Soft-core processors	1
UNIT-II		
6.	Trade off issues at System Level: Optimization with regard to speed, area and power	3
7.	asynchronous and low power system design	3
8.	ASIC physical design issues	3
9.	System Partitioning, Power Dissipation, Partitioning Methods	3
UNIT-III		
10.	ASIC floor planning, Placement and Routing	10
UNIT-IV		
11.	System-On-Chip Design - SoC Design Flow	3
12.	Platform-based and IP based SoC Designs	3
13.	Basic Concepts of Bus-Based Communication Architectures	3
14.	On-Chip Communication Architecture Standards, Low-Power SoC Design	3
UNIT-V		
15.	High performance algorithms for ASICs/ SoCs as case studies	3
16.	Canonic Signed Digit Arithmetic, KCM, Distributed Arithmetic	3
17.	High performance digital filters for sigma-delta ADC, USB controllers, OMAP	3
Total Hours		48

T. Tirupal
Instructor Sign

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

DEPARTMENT OF ECE

ASIC PHYSICAL DESIGN

S.NO.	ROLL NO.	Name of the Student
III ECE		
1	19AT1A0401	SHAIK ABDUL KABEER
2	19AT1A0402	SHAIK ABDUL REHAMAN
3	19AT1A0403	KOVELAKUNTLA SHAIK AFSARJAHA
4	19AT1A0404	GODUGU AKANKSHA
5	19AT1A0405	KUKATLA AKARSHA
6	19AT1A0406	G AKASH VENKATA RAMANA
7	19AT1A0407	BOYA AKHILA
8	19AT1A0408	KUKATIKONDA AKSHARA
9	19AT1A0409	GOLLA AKSHAYA
10	19AT1A0410	SHAIK ALISHA
11	19AT1A0411	MUNUGULA ANDAN AFRID
12	19AT1A0412	MALA ANUSHA
13	19AT1A0413	DUDEKULA ARIF
14	19AT1A0414	SHAIK ARSHAD BASHA
15	19AT1A0415	PELLURI ASWINI
16	19AT1A0416	B E AVINASH
17	19AT1A0417	GOOTY AYESHA ALIYA
18	19AT1A0418	JAKKULA BADRINATH
19	19AT1A0419	TELUGU BALASAI
20	19AT1A0420	HEBBARE BHARANI BAI
21	19AT1A0421	A BHARATH KUMAR
22	19AT1A0422	MUTHYALA BHARATH
23	19AT1A0423	M BHARATH SIMHA REDDY
24	19AT1A0424	VADISELA BHAVISHYA
25	19AT1A0425	S CHAKRADHAR REDDY
26	19AT1A0426	MUNIPATI RAVI CHANDRA KUMAR
27	19AT1A0427	GUNDA CHARAN SIDDARTH
28	19AT1A0428	AVULA CHARITHA
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33	19AT1A0464	SHAIK MAHABOOB BASHA
34	19AT1A0465	AKKEM MAHESH
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40	19AT1A0471	CHANCHANI MANOJ
41	19AT1A0472	DUDEKULAKOTLO MASTAN VALI
42	19AT1A0473	SHAIK MOHAMMAD TALHA
43	19AT1A0474	SHAIK MOHAMMAD WAHAZ
44	19AT1A0475	SHAIK MOHAMMED AQUIB

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46	19AT1A0477	MANIYAR MOHAMMED SAQLAIN
47	19AT1A0478	KATIKA MOHAMMED SHAHID
48	19AT1A0479	SHAIK MOHAMMED TAJ
49	19AT1A0480	YERUKU MOHANA MUKHESH
50	19AT1A0481	TALARI MOSES
51	19AT1A0482	SHAIK MOUNAM
52	19AT1A0483	HOUDEKARI MOUNIKA BAI
53	19AT1A0484	SHAIK MUBEENA SULTANA
54	19AT1A0485	SHAIK MUZAMIL
55	19AT1A0486	POBBATHI NAGALAKSHMI
56	19AT1A0487	MANGALI NAGENDRAMMA
57	19AT1A0488	PASULA NARESH KUMAR
58	19AT1A0489	VASTHRALA NARESH
59	19AT1A0490	SAGINELA NAVEEN KUMAR
60	19AT1A0491	YEPUER NAVEEN
61	19AT1A04C4	P SAI NIKHITHA
62	19AT1A04C5	P SAI SUMANTH
63	19AT1A04C6	K SAI TEJA
64	19AT1A04C7	PALAGIRI SAI THARUN
65	19AT1A04C8	YATA SAI VAMSHI
66	19AT1A04C9	ALLAMPUR SAIVAMSI
67	19AT1A04D0	D SAMEER
68	19AT1A04D1	ANKIREDDYPALLI SATHVIKA
69	19AT1A04D2	MOHAMMAD SHARFI
70	19AT1A04D3	MD SHAHFAHAD
71	19AT1A04D4	UPPARA SHAMINI
72	19AT1A04D5	PANDLA SHANKAR GOUD
73	19AT1A04D6	SYED SHASHAVALI
74	19AT1A04D7	K SHASHI KIRAN
75	19AT1A04D8	V SHASHIDHAR
76	19AT1A04D9	GADIGE SHIRISHA
77	19AT1A04E0	ARAVETI SHIVA MEGHANA
78	19AT1A04E1	ATHMAKUR SHIVANANDA REDDY
79	19AT1A04E2	MADASU SIVAPRASAD
80	19AT1A04E3	CHARUKONDA SIVAKUMAR
81	19AT1A04E4	MATCHA SIVAKUMAR
82	19AT1A04E5	PATAN SOHAIL KHAN
83	19AT1A04E6	SHAIK SOHAIL
84	19AT1A04E7	ANUMALA SONALIKA
85	19AT1A04E8	DADI SRAVANI
86	19AT1A04E9	GUNTHA SRAVYA LIKITHA
87	19AT1A04F0	B H SREEHARSHA JAYA SIMHA
88	19AT1A04F1	THOGATA MADAM SREELAKSHMI
89	19AT1A04F2	JEETHURI SUCHITRA
90	19AT1A04F3	PERUMALA SUMA
IV ECE		
91	18AT1A0425	ARAPALLI CHARANI
92	18AT1A0426	GOLLA CHATRAPATI SHIVAJI
93	18AT1A0427	NELLORE DEEPTHI

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94	18AT1A0428	P.DEVENDER REDDY
95	18AT1A0429	MASAPOGU DHANALAKSHMI
96	18AT1A0430	N.G.DHEERAJ
97	18AT1A0431	BANDA DIVYA
98	18AT1A0432	SANKHAR DIVYA SAI
99	18AT1A0433	M DIVYA SREE
100	18AT1A0434	GRANDHI GANESH
101	18AT1A0435	KAMMARI GAYATHRI
102	18AT1A0436	AVULA GOUTHAMI
103	18AT1A0437	MYLA GOWTHAM KUMAR
104	18AT1A0438	MODALA HARIKA
105	18AT1A0439	MOGILLAPALLI HARISH
106	18AT1A0441	NARAYANA HEMA PRIYA
107	18AT1A0442	P HEMANTH KUMAR
108	18AT1A0443	Y INDRAVATHI
109	18AT1A0444	MANGALI JAGADEESH
110	18AT1A0445	BHOOMIREDDY JAHNAVI
111	18AT1A0446	MEKALA JAIPAL
112	18AT1A0447	BORELLI JASMIN
113	18AT1A0448	BUKKINENI JAYA PRAKASH
114	18AT1A0449	M JAYA SURYA RAJ
115	18AT1A0450	SHAIK JEELAN
116	18AT1A0494	MOLAKATHALLA PRATHYUSHA
117	18AT1A0495	S.PRAVEENA
118	18AT1A0496	GOLLA PREMNATH YADAV
119	18AT1A0497	MUDIYAM PRIYANKA
120	18AT1A0498	DUDEKULA SHAIK RABBANI
121	18AT1A0499	MEDAM RAGHUVARDHAN REDDY
122	18AT1A04A0	PUDURU RAJANNA
123	18AT1A04A1	KATEPOGU CHINNA RAJU
124	18AT1A04A2	LAYAM RAKESH
125	18AT1A04A3	G RAMADEVI
126	18AT1A04A5	BANDAM RANGS
127	18AT1A04A6	PERUMALA RANJITH KUMAR
128	18AT1A04A7	M.RANJITH
129	18AT1A04A8	B.RAVI TEJA
130	18AT1A04A9	ATAGARA RENUKA
131	18AT1A04B0	BADDULA ROHEETH
132	18AT1A04B1	M.ROHITH
133	18AT1A04B2	AKSHINTALA SAHITHI
134	18AT1A04B3	NUNEPALLI SAHITHI
135	18AT1A04B4	N.SAI ACHYUTH
136	18AT1A04B5	LOKERE SAI CHARAN
137	18AT1A04B6	K SAI KIRAN
138	18AT1A04B7	MUNDLADINNI SAI PRAKASH REDDY
139	18AT1A04B8	S SAI PREETHAM SREENIVAS
140	18AT1A04B9	K.SAI PRUTHVI RAJ
141	18AT1A04G1	DARA VICTOR PRANEETH
142	18AT1A04G2	CHAKALI VIMALA
143	18AT1A04G4	KALLAPARI VISHNU PRIYA

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144	18AT1A04G5	KANIKE VISHNUVARDHAN
145	18AT1A04G6	S V VYSHALINI
146	18AT1A04G7	H YIRENDRANATH
147	18AT1A04G8	CHINTHA YOGESWARI
148	18AT1A04G9	V VYSHNAVI
149	18AT1A04H0	SYED FAHAD PEER
150	18AT1A04H1	K BHARATH
151	18AT1A04H2	NIDARAM NIHARIKA
152	19AT5A0402	PRODDUTUR BHAVANI
153	19AT5A0403	TALARI GURUNATH
154	19AT5A0404	DUDEKULA HALIMA BEEBI
155	19AT5A0405	PERUMALA KAVITHA
156	19AT5A0406	DANDU LAKSHMI
157	19AT5A0407	MUGGU MALLESWARAIAH
158	19AT5A0408	MALLEPOGU MANISHA

Thiruvipat
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ASIC PHYSICAL DESIGN
ASSESSMENT TEST

1. Gallium arsenide has _____ electron mobility.
 - a) high speed
 - b) low speed
 - c) smaller
 - d) larger

2. Which technology has semi-insulating substrate?
 - a) silicon
 - b) silicon nitride
 - c) gallium oxide
 - d) gallium arsenide

3. Gallium is produced as a byproduct of
 - a) aluminium production process
 - b) sulphur production process
 - c) nitrogen production process
 - d) oxygen production process

4. Arsenic is produced from
 - a) AsS₃
 - b) As₂S₃
 - c) As₂S
 - d) As₂S₃ or As₂S₄

5. The first process involved in the production of arsenic is
 - a) reduction
 - b) oxidation
 - c) combination
 - d) diffusion

6. Gallium has a
 - a) positively charged nucleus +31
 - b) positively charged nucleus +33
 - c) negatively charged nucleus -31
 - d) negatively charged nucleus -33

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7. Energy level of electrons are dictated by
- electron's charges
 - electron's momentum
 - electron's mass
 - electron's weight
8. The energy is greater as closer the electron is to the nucleus.
- true
 - false
9. Which are more stronger?
- outer orbit electrons
 - outer orbit protons
 - inner orbit electrons
 - inner orbit protons
10. Gallium arsenide is made up of
- single element
 - compound of two elements
 - compound of three elements
 - compound of four elements
11. Gallium has _____ valence electrons.
- two
 - three
 - four
 - five
12. Gallium arsenide is a
- binary semiconductor
 - trinary semiconductor
 - ternary semiconductor
 - unary semiconductor
13. Gallium arsenide crystals are grown from
- boron oxide
 - silicon oxide
 - silicon nitride
 - boron nitride
14. Wafers in GaAs fabrication are thermally unstable.
- true
 - false

Thirupat

15. The sequence of the steps followed in fabrication of GaAs is

- i. lapping
 - ii. polishing
 - iii. grinding
 - iv. wafer scrubbing
- a) ii, iii, i, iv
 - b) i, ii, iii, iv
 - c) iii, i, ii, iv
 - d) iv, i, ii, iii

16. Which devices are fabricated using planar process?

- a) enhancement mode MESFET
- b) depletion mode MESFET
- c) enhancement mode MOSFET
- d) depletion mode MOSFET

17. Threshold voltage can be varied by

- a) varying impurity concentration
- b) varying doping level
- c) varying channel length
- d) varying source voltage

18. Stable native oxide was produced by

- a) oxidation of silicon
- b) oxidation of gallium
- c) oxidation of boron
- d) oxidation of aluminium

19. In GaAs technology, deposited dielectric films brings about

- a) passivation
- b) combination
- c) decomposition
- d) diffusion

20. Formation of n-active layer is achieved by

- a) indirect ion implantation
- b) direct ion implantation
- c) liquifying
- d) wafering

Thimpa

21. Implantation of _____ is done for the formation of source and drain.

- a) n- layer
- b) n+ layer
- c) p- layer
- d) p+ layer

22. The channel resistance is high for

- a) source contact
- b) drain contact
- c) gate contact
- d) source and drain contacts

23. Stress at the interface cannot arise from

- a) lattice mismatch
- b) intrinsic stress
- c) thermal mismatch
- d) pressure mismatch

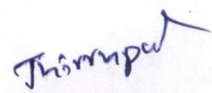
24. Which has the greatest mismatch?

- a) Si
- b) Ga
- c) GaAs
- d) SiO₂

25. Which was employed as the first level capping material?

- a) SiO₂
- b) SiO
- c) Si₃N₄
- d) Si₂N₄


Instructor Sign


HOD-ECE

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

DEPARTMENT OF ECE

ASIC PHYSICAL DESIGN

S.NO.	ROLL NO.	ROLL NO.	Marks (50M)
III ECE			
1	19AT1A0401	SHAIK ABDUL KABEER	50
2	19AT1A0402	SHAIK ABDUL REHAMAN	33
3	19AT1A0403	KOVELAKUNTLA SHAIK AFSARJAHA	35
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8	19AT1A0408	KUKATIKONDA AKSHARA	50
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11	19AT1A0411	MUNUGULA ANDAN AFRID	50
12	19AT1A0412	MALA ANUSHA	43
13	19AT1A0413	DUDEKULA ARIF	50
14	19AT1A0414	SHAIK ARSHAD BASHA	50
15	19AT1A0415	PELLURI ASWINI	48
16	19AT1A0416	B E AVINASH	44
17	19AT1A0417	GOOTY AYESHA ALIYA	50
18	19AT1A0418	JAKKULA BADRINATH	49
19	19AT1A0419	TELUGU BALASAI	41
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23	19AT1A0423	M BHARATH SIMHA REDDY	50
24	19AT1A0424	VADISELA BHAVISHYA	46
25	19AT1A0425	S CHAKRADHAR REDDY	45
26	19AT1A0426	MUNIPATI RAVI CHANDRA KUMAR	50
27	19AT1A0427	GUNDA CHARAN SIDDARTH	50
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31	19AT1A0462	KURUVA MADHU	49
32	19AT1A0463	PINJARI MAHABOOB BASHA	50
33	19AT1A0464	SHAIK MAHABOOB BASHA	7
34	19AT1A0465	AKKEM MAHESH	44
35	19AT1A0466	JONNALA MAHESH BABU	49
36	19AT1A0467	UPPARI MANASA	43
37	19AT1A0468	R MANJULA	50
38	19AT1A0469	MALASANI MANJUVANI	12
39	19AT1A0470	BETHI MANOHAR	50
40	19AT1A0471	CHANCHANI MANOJ	48
41	19AT1A0472	DUDEKULAKOTLO MASTAN VALI	50
42	19AT1A0473	SHAIK MOHAMMAD TALHA	48
43	19AT1A0474	SHAIK MOHAMMAD WAHAZ	50
44	19AT1A0475	SHAIK MOHAMMED AQUIB	50

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48	19AT1A0479	SHAIK MOHAMMED TAJ	35
49	19AT1A0480	YERUKU MOHANA MUKHESH	30
50	19AT1A0481	TALARI MOSES	13
51	19AT1A0482	SHAIK MOUNAM	50
52	19AT1A0483	HOUDEKARI MOUNIKA BAI	50
53	19AT1A0484	SHAIK MUBEENA SULTANA	46
54	19AT1A0485	SHAIK MUZAMIL	48
55	19AT1A0486	POBBATHI NAGALAKSHMI	50
56	19AT1A0487	MANGALI NAGENDRAMMA	14
57	19AT1A0488	PASULA NARESH KUMAR	49
58	19AT1A0489	VASTHRAA NARESH	49
59	19AT1A0490	SAGINELA NAVEEN KUMAR	47
60	19AT1A0491	YEPUER NAVEEN	50
61	19AT1A04C4	P SAI NIKHITHA	49
62	19AT1A04C5	P SAI SUMANTH	47
63	19AT1A04C6	K SAI TEJA	49
64	19AT1A04C7	PALAGIRI SAI THARUN	50
65	19AT1A04C8	YATA SAI VAMSHI	44
66	19AT1A04C9	ALLAMPUR SAIVAMSI	50
67	19AT1A04D0	D SAMEER	50
68	19AT1A04D1	ANKIREDDYPALLI SATHVIKA	14
69	19AT1A04D2	MOHAMMAD SHARFI	50
70	19AT1A04D3	MD SHAHFAHAD	50
71	19AT1A04D4	UPPARA SHAMINI	33
72	19AT1A04D5	PANDLA SHANKAR GOUD	35
73	19AT1A04D6	SYED SHASHAVALI	50
74	19AT1A04D7	K SHASHI KIRAN	33
75	19AT1A04D8	V SHASHIDHAR	11
76	19AT1A04D9	GADIGE SHIRISHA	45
77	19AT1A04E0	ARAVETI SHIVA MEGHANA	50
78	19AT1A04E1	ATHMAKUR SHIVANANDA REDDY	50
79	19AT1A04E2	MADASU SIVAPRASAD	50
80	19AT1A04E3	CHARUKONDA SIVAKUMAR	50
81	19AT1A04E4	MATCHA SIVAKUMAR	36
82	19AT1A04E5	PATAN SOHAIL KHAN	50
83	19AT1A04E6	SHAIK SOHAIL	48
84	19AT1A04E7	ANUMALA SONALIKA	45
85	19AT1A04E8	DADI SRAVANI	50
86	19AT1A04E9	GUNTHA SRAVYA LIKITHA	49
87	19AT1A04F0	B H SREEHARSHA JAYA SIMHA	41
88	19AT1A04F1	THOGATA MADAM SREELAKSHMI	36
89	19AT1A04F2	JEETHURI SUCHITRA	50
90	19AT1A04F3	PERUMALA SUMA	50
IV ECE			
91	18AT1A0425	ARAPALLI CHARANI	46
92	18AT1A0426	GOLLA CHATRAPATI SHIVAJI	45
93	18AT1A0427	NELLORE DEEPTHI	50

Thirumpan


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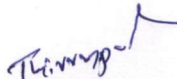
94	18AT1A0428	P.DEVENDER REDDY	50
95	18AT1A0429	MASAPOGU DHANALAKSHMI	32
96	18AT1A0430	N.G.DHEERAJ	46
97	18AT1A0431	BANDA DIVYA	45
98	18AT1A0432	SANKHAR DIVYA SAI	49
99	18AT1A0433	M DIVYA SREE	50
100	18AT1A0434	GRANDHI GANESH	50
101	18AT1A0435	KAMMARI GAYATHRI	48
102	18AT1A0436	AVULA GOUTHAMI	49
103	18AT1A0437	MYLA GOWTHAM KUMAR	43
104	18AT1A0438	MODALA HARIKA	50
105	18AT1A0439	MOGILLAPALLI HARISH	34
106	18AT1A0441	NARAYANA HEMA PRIYA	50
107	18AT1A0442	P HEMANTH KUMAR	48
108	18AT1A0443	Y INDRAVATHI	50
109	18AT1A0444	MANGALI JAGADEESH	48
110	18AT1A0445	BHOOMIREDDY JAHNAVI	50
111	18AT1A0446	MEKALA JAIPAL	50
112	18AT1A0447	BORELLI JASMIN	49
113	18AT1A0448	BUKKINENI JAYA PRAKASH	50
114	18AT1A0449	M JAYA SURYA RAJ	50
115	18AT1A0450	SHAIK JEELAN	50
116	18AT1A0494	MOLAKATHALLA PRATHYUSHA	43
117	18AT1A0495	S.PRAVEENA	45
118	18AT1A0496	GOLLA PREMNATH YADAV	46
119	18AT1A0497	MUDIYAM PRIYANKA	50
120	18AT1A0498	DUDEKULA SHAIK RABBANI	46
121	18AT1A0499	MEDAM RAGHUVARDHAN REDDY	48
122	18AT1A04A0	PUDURU RAJANNA	50
123	18AT1A04A1	KATEPOGU CHINNA RAJU	48
124	18AT1A04A2	LAYAM RAKESH	49
125	18AT1A04A3	G RAMADEVI	49
126	18AT1A04A5	BANDAM RANGS	47
127	18AT1A04A6	PERUMALA RANJITH KUMAR	50
128	18AT1A04A7	M.RANJITH	50
129	18AT1A04A8	B.RAVI TEJA	47
130	18AT1A04A9	ATAGARA RENUKA	49
131	18AT1A04B0	BADDULA ROHEETH	50
132	18AT1A04B1	M.ROHITH	49
133	18AT1A04B2	AKSHINTALA SAHITHI	50
134	18AT1A04B3	NUNEPALLI SAHITHI	50
135	18AT1A04B4	N.SAI ACHYUTH	43
136	18AT1A04B5	LOKERE SAI CHARAN	50
137	18AT1A04B6	K SAI KIRAN	50
138	18AT1A04B7	MUNDLADINNI SAI PRAKASH REDDY	10
139	18AT1A04B8	S SAI PREETHAM SREENIVAS	35
140	18AT1A04B9	K.SAI PRUTHVI RAJ	50
141	18AT1A04G1	DARA VICTOR PRANEETH	33
142	18AT1A04G2	CHAKALI VIMALA	50
143	18AT1A04G4	KALLAPARI VISHNU PRIYA	45

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144	18AT1A04G5	KANIKE VISHNUVARDHAN	50
145	18AT1A04G6	S V VYSHALINI	50
146	18AT1A04G7	H YIRENDRANATH	50
147	18AT1A04G8	CHINTHA YOGESWARI	50
148	18AT1A04G9	V VYSHNAVI	25
149	18AT1A04H0	SYED FAHAD PEER	32
150	18AT1A04H1	K BHARATH	50
151	18AT1A04H2	NIDARAM NIHARIKA	48
152	19AT5A0402	PRODDUTUR BHAVANI	44
153	19AT5A0403	TALARI GURUNATH	12
154	19AT5A0404	DUDEKULA HALIMA BEEBI	49
155	19AT5A0405	PERUMALA KAVITHA	41
156	19AT5A0406	DANDU LAKSHMI	36
157	19AT5A0407	MUGGU MALLESWARAIAH	40
158	19AT5A0408	MALLEPOGU MANISHA	50


Instructor Sign


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