

### ACCREDITED BY NAAC 'A' GRADE OF UGC AND NBA OF AICTE DEPARTMENT OFELECTRICAL AND ELECTRONICS ENGINEERING

DATE: 22-10-2021

TO

The principal,

GPCET,

Kurnool.

Sir,

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

The department of EEE requests you to accept the proposal for conducting ADD-ON Course on "Power Quality Improvement Techniques" for the odd semester of III-year I Semester and IV-year I Semester EEE students scheduled for the duration of 48 classes. Kindly accept the proposal.

Thanking you sir,

Yours Sincerely

HOD-ÉEE

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



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

#### Department Circular - ADD-ON Course

DATE: 21-10-2021

The III year & IV year-I semester EEE Students are informed to enroll their names for ADD-ON Course on "Power Quality Improvement Techniques" with their respective class-in-charges on or before 27-10-2021. The course commences from 29<sup>th</sup> October and the duration of the course is for 48 classes. The course is conducted from 4 pm to 5 pm regularly.

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

HOD-EEE



Department Of Electrical and Electronics Engineering



### **ADD ON COURSE**

Topic: Power Quality Improvement Techniques.

Target audience: II and III Year Students

Total Course Duration: 48 hrs

Selection Procedure: Registration on First

come First serve basis



Date of commencement of the course: 29 Oct, 2021. End of Course: 03 Jan, 2022.

Exam Date: 05 Jan,2022.

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### ACCREDITED BY NAAC 'A' GRADE OF UGC AND NBA OF AICTE

#### DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

### Power Quality for Electrical Engineer SYLLABUS

#### Unit - I

#### Introduction to Power Quality:

Definition and Importance of Power Quality, Power Quality Issues and Challenges, Standards and Regulations for Power Quality, Measurement and Monitoring of Power Quality Parameters, Economic Impacts of Poor Power Quality

Unit - II

#### Voltage Regulation Techniques:

Automatic Voltage Regulators (AVRs), Voltage Sag and Swell Mitigation, Voltage Flicker Reduction, Static Voltage Regulators, Dynamic Voltage Restorers (DVRs)

Unit - III

#### Harmonic Mitigation and Filtering:

Sources and Effects of Harmonics, Passive Harmonic Filters, Active Harmonic Filters, Hybrid Harmonic Filters, Harmonic Measurement and Analysis

Unit - IV

#### Power Factor Improvement:

Importance of Power Factor Correction, Power Factor Correction Techniques, Capacitor Banks and Reactive Power Compensation, Power Factor Improvement in Industrial Systems, Impact on Energy Efficiency and System Stability

Unit - V

#### Advanced Power Quality Solutions:

Uninterruptible Power Supply (UPS) Systems, Custom Power Devices, Energy Storage for Power Quality, Microgrid Solutions for Power Quality, Emerging Technologies in Power Quality Improvement

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#### ACCREDITED BY NAAC 'A' GRADE OF UGC AND NBA OF AICTE

#### DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

### POWER QUALITY IMPROVEMENT TECHNIQUES SCHEDULE

Name of the Instructor: Mr.S.Sankara Prasad

S. No	Content	No. of Hours
	Unit-I	
1.	Introduction to Power Quality	1
2.	Definition and Importance of Power Quality	1
3.	Power Quality Issues and Challenges	1
4.	Standards and Regulations for Power Qualit	1
5.	Measurement and Monitoring of Power Quality Parameters	1
6.	Economic Impacts of Poor Power Quality	1
	Unit-II	
7.	Voltage Regulation Techniques	1
8.	Automatic Voltage Regulators (AVRs)	2
9.	Voltage Sag and Swell Mitigation	2
10.	Voltage Flicker Reduction	2
11.	Static Voltage Regulators	2
12.	Dynamic Voltage Restorers (DVRs)	2
	Unit-III	
13.	Harmonic Mitigation and Filtering	2
14.	Sources and Effects of Harmonics	2
15.		
16.	Active Harmonic Filters	2
17.	Hybrid Harmonic Filters	2
	Unit-IV	
18.	Power Factor Improvement	2
19.	Importance of Power Factor Correction	2
20.	Power Factor Correction Techniques	2
21.	Capacitor Banks and Reactive Power Compensation	2
22.	Power Factor Improvement in Industrial System	2
23.	Impact on Energy Efficiency and System Stability	2
	Unit-V	
24.	Advanced Power Quality Solutions	1
25.	Uninterruptible Power Supply (UPS) Systems	1
26.	Custom Power Devices	1
27.	Energy Storage for Power Quality	2
28.	Microgrid Solutions for Power Quality	2
29.	Microgrid Solutions for Power Quality	2
	Total Hours	48

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Instructor Sign



### ACCREDITED BY NAAC 'A' GRADE OF UGC AND NBA OF AICTE DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

The following list of the students who are Registered the Add on Course on "Power Quality Improvement Techniques"

### 18<sup>th</sup> batch students

S.No	Roll No	Name of the Candidate
1.	18AT1A0201	BALAPALA ACHYUTH NARAYANA
2.	18AT1A0202	KANIKE AMARESH
3.	18AT1A0203	DUVVURI ANUHYA
4.	18AT1A0205	AAVULA CHAKRADHAR
5.	18AT1A0206	ARAVA CHANDANA
6.	18AT1A0207	NAYAKANTI CHARAN KUMAR
7.	18AT1A0208	POREDDY DHARANIKUMAR REDDY
8.	18AT1A0209	RAMIREDDY DILEEP REDDY
9.	18AT1A0210	DISHITHA
10.	18AT1A0211	INAGANDLA DIVYA SREE
11.	18AT1A0214	YALLALA HEMANTH KUMAR REDDY
12.	18AT1A0215	AKULA HINDU
13.	18AT1A0216	YELAMPALLI INDU
14.	18AT1A0217	YARRAMANANI JAYA CHANDRA
15.	18AT1A0218	THUPPAKONDA JAYA RAMUDU
16.	18AT1A0220	ANKISETTY LAVANYA
17.	18AT1A0221	YARABHAM LAVANYA
18.	18AT1A0222	CHITRALA LIKHITHA
19.	18AT1A0223	DEVAKI LOHITH KUMAR
20.	18AT1A0224	NALLABOTHULA MAHENDRA
21.	18AT1A0225	TIRUVEEDULA MANOJ KUMAR
22.	18AT1A0227	SRIVARI MEGHANA





		Ploneering Innovative Education
23.	18AT1A0230	PARAMANA CHINNA NAGASIVUDU
24.	18AT1A0231	MALA NAGAVENI
25.	18AT1A0232	MALAYATHI NAGENDRA BABU
26.	18AT1A0233	RENTACHINTHALA NANDINI
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28.	18AT1A0239	B PRAVEEN KUMAR
29.	18AT1A0242	KURUKUNDU RAKESH REDDY
30.	18AT1A0243	JUMPALA RAVI KUMAR
31.	18AT1A0244	KARANAM GURU SAI BHARATH
32.	18AT1A0245	SIGARAMBOTLA SAI BHARATH
33.	18AT1A0246	THUMMALA SAI JAHNAVI
34.	18AT1A0248	SHAIK SAMEER
35.	18AT1A0250	KOLLE SESHADRI
36.	18AT1A0253	PILARKHANA SRI LAKSHMI
37.	18AT1A0254	Alva Susmitha
38.	18AT1A0255	ATTAR MOHAMMED TABREZ
39.	18AT1A0258	TELUGU TOM SAI
40.	18AT1A0260	KALVA VAMSIDHAR REDDY
41.	18AT1A0261	KAMMARA VEERESH KUMAR
42.	18AT1A0262	USSANNAGARI VINAY
43.	18AT1A0263	INDLA VIRAJITHA
44.	18AT1A0264	RUDRAVARAM VISHNUVARDAN
45.	18AT1A0265	SAYA VIVEK .
46.	18AT1A0267	VAKITI YOGESWAR YADAV
47.	19AT5A0201	DUDEKULA ALIF BASHA
48.	19AT5A0202	B HIMAVANTH
49.	19AT5A0203	BAJARLA ISMAIL
50.	19AT5A0204	GOLLA LAKSHMI NARAYANA
51.	19AT5A0205	SHAIK MOHINUDDIN
52.	19AT5A0206	KOTEKAL MEDARI NAVYASREE
53.	19AT5A0207	KARAKUMMA RAJESWARI
54.	19AT5A0208	BOGOLU SANDHYARANI





55.	19AT5A0209	MAILA SRIRAM SWAROOP
56.	19AT5A0210	TUNGADAPALLI VIJAY BHARADWAZ
57.	19AT5A0211	YENDURI VIVEKA VARDHAN
58.	19AT5A0212	KAMMARA KALYANCHAKRAVARTHI
59.	19AT5A0214	AKUMALLA ARUN
60.	19AT5A0215	MANGALI CHIRANJEEVI
61.	19AT5A0217	DADI DHANA PRASAD
62.	19AT5A0218	MITTE ESHWAR
63.	19AT5A0219	SHAIK FAYAZ
.64.	19AT5A0220	TALARI GANESH
65.	19AT5A0221	GUDURU GAYATHRI
66.	19AT5A0222	KANNA KARTHIK
67.	19AT5A0224	PINJARI MAHABOOB BASHA
68.	19AT5A0225	VADDE MAHALAKSHMI
69.	19AT5A0226	MULLA MUDASSIR REHMAN
70.	19AT5A0227	THIRUPATI NAGANNA

#### 17th batch students

S.No	Roll No	Name of the Candidate
1.	17AT1A0201	SHAIK AMEER
2.	17AT1A0202	AMER TAUFIQ S
3.	17AT1A0205	ANNEM BHARGAV REDDY
4.	17AT1A0208	SHAIK DASTAGIRI
5.	17AT1A0209	GONGATI DEVENDRA REDDY
6.	17AT1A0213	SHAIK FAYAZ
7.	17AT1A0214	HARIKA BAI M
8.	17AT1A0215	UPPARA HASHWITHA
9.	17AT1A0216	SHAIK IMRAN BASHA
10.	17AT1A0217	SHAIK IRFAN BASHA
11.	17AT1A0218	KURUVA JHANSI

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		Pioneering Innovative Education
12.	17AT1A0219	THAADI KALYAN
13.	17AT1A0220	YELISETTY KAVYA
14.	17AT1A0221	VIBHUTI KEDARNATH SHARMA
15.	17AT1A0222	GONGATI KEERTHI
16.	17AT1A0223	KUNDURU KESHAVA
17.	17AT1A0224	PALAM KISHORE KUMAR REDDY
18.	17AT1A0225	AVVARU KRISHNA SAHITHI
19.	17AT1A0227	SHAIK MAHAMMAD ZIYAUL HAQ
20.	17AT1A0228	P MAHIKA EVANGALINE
21.	17AT1A0231	KANCHARLA MEGHANA
22.	17AT1A0233	SHAIK MOHAMMED HAFEEZ
23.	17AT1A0234	JAMPULA MOHAN KUMAR
24.	17AT1A0236	CHAKALI NAGARJUNA
25.	17AT1A0239	PASAM NIKHILESH KRISHNA
26.	17AT1A0240	PUJARI PARANDHAMUNI
27.	17AT1A0242	THOTAKURA PRAVEEN KUMAR
28.	17AT1A0243	MUDIYAM PREETHI SINDHUJA
29.	17AT1A0246	PUJARI RAMESH
30.	17AT1A0247	GUDDETI RAMYA
31.	17AT1A0249	S SAFIYYAH TAHSEEN
32.	17AT1A0250	ANDREDDY SAHITHI
. 33.	17AT1A0252	AVULA SAI GEETHA
34.	17AT1A0253	KONKA SAI JANITHA
35.	17AT1A0257	KOPPULA SAIPRIYA
36.	17AT1A0258	M SAMEER MALIK
37.	17AT1A0259	TUGGHACHUDU SANA AMREEN
38.	17AT1A0260	ARAPALLI SANDEEP
39.	17AT1A0261	KAMBALA SANJANA REDDY





40.	17AT1A0262	CHATAKONDA SANTOSH
41.	17AT1A0264	MANDA SIVAPULLA REDDY
42.	17AT1A0266	GUNDRATHI SOWJANYA
43.	17AT1A0268	PARADESI SOWMYA
44.	17AT1A0269	BACHIREDDY SREEDEVI
45.	17AT1A0270	SANIA SULTHANA
46.	17AT1A0271	K SUMANTH
47.	17AT1A0272	BHAVANI SUNANDA
48.	17AT1A0274	PALURI SUREKHA
49.	17AT1A0275	VEMULA SUSHMA
50.	17AT1A0276	MIDDEPOGU SUVARNA
51.	17AT1A0277	SHAIK TASLEEM KOUSAR
52.	17AT1A0278	PULLAMMA GARI THIMMA REDDY
53.	17AT1A0279	BUSIREDDY VARUNKUMAR REDDY
54.	17AT1A0281	MITIKIRI VASAVI
55.	17AT1A0282	YERRAGORLA VENKATA KUMAR
56.	17AT1A0283	GUVVALA VENKATESH
57.	17AT1A0284	VANKAM VENKATESWARLU
58.	17AT1A0285	PULAKURTHY VIJAY KUMAR
59.	17AT1A0286	KARRE VINAY KUMAR
60.	17AT1A0287	RASALAY VISHNUVARDHAN
61.	17AT1A0288	POTHUREDDY YAMINI
62.	17AT1A0290	AREKANTI CHAKRAVARTHI
63.	18AT5A0201	KURUVA ADINARAYANA
64.	18AT5A0202	CHAKALI BALAJI
65.	18AT5A0203	KALUMURI BALAJI
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### G.Pullaiah College of Engineering and Technology

(Autonomous)

(Approved by AICTE, New Delhi | NAAC Accreditation with 'A' Grade | Accredited by NBA (CIV,CSE, ECE & EEE) | Affiliated to JNTUA)

Nandikotkur Road, Venkayapalli (V), Kurnool - 518452, Andhra Pradesh

## Department of Electrical and Electronics Engineering Add- on Course Question Paper Power Quality Improvement Techniques

1. What is the primary objective of power quality im	provement techniques?
a) To increase power generation	
b) To decrease system losses	
c) To enhance the reliability of power distribution	
d) To minimize environmental impact	
2. Which device is commonly used for voltage regula	ition in power distribution systems?
a) Capacitor bank	
b) Surge protector	
c) Voltage stabilizer	
d) Transformer	
3. What does the acronym DVR stand for in power q	uality improvement?
a) Distribution Voltage Regulator	
b) Dynamic Voltage Restorer	
c) Digital Voltage Regulator	
d) Distributed Voltage Recorder	
4. Which technique is used to mitigate voltage sags a	nd swells in power systems?
a) Static VAR compensator (SVC)	b) Active power filters (APFs)
c) Unified power quality conditioner (UPQC)	d) Dynamic voltage restorer (DVR)

5.	What is the primary function of an uninterruptible power supply (UPS) in p improvement?	oower quality	
a) '	Voltage regulation		
b)	Power factor correction		
c) F	Providing backup power during outages		
d) I	Harmonic suppression		
6.	Which type of filter is commonly used for harmonic mitigation in power sys	stems?	
a) F	Passive filter		
b) A	Active filter		
c) F	Hybrid filter		
d) F	Resonant filter	in the second	
×			
7.	What is the purpose of a surge arrester in power systems?		
a) T	To regulate voltage		
b) T	To protect against lightning strikes and switching surges		
c) T	o balance reactive power		
d) T	To suppress harmonics		
8.	Which technique is used to mitigate flicker in power systems?		
a) V	oltage sag compensation		
b) R	Reactive power injection		
c) P	hase balancing		
d) D	Dynamic voltage restorer		
9.	Which device is used to compensate for reactive power in power systems?		
a) S	ynchronous condenser		
b) S	hunt reactor		
c) C	apacitor bank	0 100	
d) Si	urge arrester	July	

10. Which parameter is NOT directly	related to power quality?
a) Voltage	
b) Current	
c) Energy efficiency	
d) Harmonics	
11. Which power quality issue is asso	ciated with the distortion of voltage and current waveforms?
a) Voltage sag	
b) Voltage swell	
c) Harmonics	
d) Transients	
12. What is the primary purpose of a	voltage sag ride-through capability in sensitive equipment?
a) To maintain constant voltage levels	
b) To ride through short interruptions i	in power supply
c) To eliminate harmonics from the por	wer supply
d) To protect against lightning strikes	
13. Which technique is used to suppre currents?	ess harmonics by generating opposite-phase harmonic
a) Passive filtering	
b) Active filtering	
c) Resonant filtering	*
d) Capacitive filtering	
14. What is the main advantage of act	ive power filters over passive filters for harmonic mitigation?
a) Lower cost	b) Higher efficiency
c) Easier installation	d) Better reliability

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15. Which power quality issue is characterized by rapid changes in voltage or current?
a) Voltage sag
b) Transients
c) Harmonics
d) Voltage swell
16. Which technique is used to balance three-phase loads in power systems?
a) Phase shifting
b) Capacitor switching
c) Phase sequence correction
d) Synchronous condensing
17. What is the purpose of a power conditioner in power quality improvement?
a) To regulate voltage
b) To protect against lightning strikes
c) To reduce system losses
d) To improve power factor
18. Which technique is used to reduce the impact of voltage variations in sensitive equipment?
a) Voltage regulation
b) Voltage balancing
c) Voltage stabilization
d) Voltage sag compensation
19. What is the primary function of a STATCOM (Static Synchronous Compensator) in power systems?
a) Voltage regulation
b) Harmonic suppression

c) Reactive power compensation

d) Transient voltage control

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20. Which power quality issue is associated with a sudden increase in voltage levels?
a) Voltage sag
b) Voltage swell
c) Harmonics
d) Transients
21. Which technique is used to mitigate voltage fluctuations caused by rapid changes in load?
a) Voltage regulation
b) Voltage stabilization
c) Voltage sag compensation
d) Voltage flicker reduction
22. Which device is used to provide a temporary source of power during short interruptions?
a) Surge protector
b) UPS (Uninterruptible Power Supply)
c) Voltage stabilizer
d) Capacitor bank
23. Which technique is used to improve power factor in power systems?
a) Capacitor switching
b) Synchronous condensing
c) Voltage regulation
d) Surge protection
24. What does the term "power factor correction" refer to in power quality improvement?
a) Balancing the phases of a three-phase system

b) Reducing harmonics in the power supply

d) Stabilizing voltage levels

c) Compensating for reactive power in the system

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25. Which power quality issue is associated with short-duration fluctuations in voltage levels?

- a) Voltage sag
- b) Voltage swell
- c) Harmonics
- d) Transients

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### DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

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19.	18AT1A0223	DEVAKI LOHITH KUMAR	21





20.	18AT1A0224	NALLABOTHULA MAHENDRA	25
21.	18AT1A0225	TIRUVEEDULA MANOJ KUMAR	
	101506.5 3571.144 (35.5)		24
22.	18AT1A0227	SRIVARI MEGHANA	20
23.	18AT1A0230	PARAMANA CHINNA NAGASIVUDU	19
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43.	18AT1A0263	INDLA VIRAJITHA	25
44.	18AT1A0264	RUDRAVARAM VISHNUVARDAN	07
45.	18AT1A0265	SAYA VIVEK	25
46.	18AT1A0267	VAKITI YOGESWAR YADAV	24
47.	19AT5A0201	DUDEKULA ALIF BASHA	22





48.	19AT5A0202	B HIMAVANTH	08
49.	19AT5A0203	BAJARLA ISMAIL	24
50.	19AT5A0204	GOLLA LAKSHMI NARAYANA	24
51.	19AT5A0205	SHAIK MOHINUDDIN	22
52.	19AT5A0206	KOTEKAL MEDARI NAVYASREE	24
53.	19AT5A0207	KARAKUMMA RAJESWARI	21
54.	19AT5A0208	BOGOLU SANDHYARANI	06
55.	19AT5A0209	MAILA SRIRAM SWAROOP	24
56.	19AT5A0210	TUNGADAPALLI VIJAY BHARADWAZ	21
57.	19AT5A0211	YENDURI VIVEKA VARDHAN	22
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59.	19AT5A0214	AKUMALLA ARUN	22
60.	19AT5A0215	MANGALI CHIRANJEEVI	20
61.	19AT5A0217	DADI DHANA PRASAD	04
62.	19AT5A0218	MITTE ESHWAR	20
63.	19AT5A0219	SHAIK FAYAZ	25
64.	19AT5A0220	TALARI GANESH	20
65.	19AT5A0221	GUDURU GAYATHRI	20
66.	19AT5A0222	KANNA KARTHIK	20
67.	19AT5A0224	PINJARI MAHABOOB BASHA	24
68.	19AT5A0225	VADDE MAHALAKSHMI	21
69.	19AT5A0226	MULLA MUDASSIR REHMAN	18
70.	19AT5A0227	THIRUPATI NAGANNA .	22

### 17th batch students

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2.	17AT1A0202	AMER TAUFIQ S	24

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		Pioneering Innovative Education	
3.	17AT1A0205	ANNEM BHARGAV REDDY	22
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8.	17AT1A0215	UPPARA HASHWITHA	18
9.	17AT1A0216	SHAIK IMRAN BASHA	22
10.	17AT1A0217	SHAIK IRFAN BASHA	24
11.	17AT1A0218	KURUVA JHANSI	25
12.	17AT1A0219	THAADI KALYAN	20
13.	17AT1A0220	YELISETTY KAVYA	18
14.	17AT1A0221	VIBHUTI KEDARNATH SHARMA	04
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16.	17AT1A0223	KUNDURU KESHAVA	21
17.	17AT1A0224	PALAM KISHORE KUMAR REDDY	24
18.	17AT1A0225	AVVARU KRISHNA SAHITHI	20
19.	17AT1A0227	SHAIK MAHAMMAD ZIYAUL HAQ	05
20.	17AT1A0228	P MAHIKA EVANGALINE	24
21.	17AT1A0231	KANCHARLA MEGHANA	20
22.	17AT1A0233	SHAIK MOHAMMED HAFEEZ	23
23.	17AT1A0234	JAMPULA MOHAN KUMAR	19
24.	17AT1A0236	CHAKALI NAGARJUNA	20
25.	17AT1A0239	PASAM NIKHILESH KRISHNA	25
26.	17AT1A0240	PUJARI PARANDHAMUNI	22
27.	17AT1A0242	THOTAKURA PRAVEEN KUMAR	22
28.	17AT1A0243	MUDIYAM PREETHI SINDHUJA	06
29.	17AT1A0246	PUJARI RAMESH	19
30.	17AT1A0247	GUDDETI RAMYA	18

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31.	17AT1A0249	S SAFIYYAH TAHSEEN	21
32.	17AT1A0250	ANDREDDY SAHITHI	20
33.	17AT1A0252	AVULA SAI GEETHA	23
34.	17AT1A0253	KONKA SAI JANITHA	23
35.	17AT1A0257	KOPPULA SAIPRIYA	25
36.	17AT1A0258	M SAMEER MALIK	21
. 37.	17AT1A0259	TUGGHACHUDU SANA AMREEN	23
38.	17AT1A0260	ARAPALLI SANDEEP	22
39.	17AT1A0261	KAMBALA SANJANA REDDY	20
40.	17AT1A0262	CHATAKONDA SANTOSH	24
. 41.	17AT1A0264	MANDA SIVAPULLA REDDY	24
42.	17AT1A0266	GUNDRATHI SOWJANYA	22
43.	17AT1A0268	PARADESI SOWMYA	24
44.	17AT1A0269	BACHIREDDY SREEDEVI	22
45.	17AT1A0270	SANIA SULTHANA	20
46.	17AT1A0271	K SUMANTH	20
47.	17AT1A0272	BHAVANI SUNANDA	25
48.	17AT1A0274	PALURI SUREKHA	25
49.	17AT1A0275	VEMULA SUSHMA	23
50.	17AT1A0276	MIDDEPOGU SUVARNA	23
51.	17AT1A0277	SHAIK TASLEEM KOUSAR	19
52.	17AT1A0278	PULLAMMA GARI THIMMA REDDY	19
53.	17AT1A0279	BUSIREDDY VARUNKUMAR REDDY	20
54.	17AT1A0281	MITIKIRI VASAVI	25
55.	17AT1A0282	YERRAGORLA VENKATA KUMAR	19
56.	17AT1A0283	GUVVALA VENKATESH	25
57.	17AT1A0284	VANKAM VENKATESWARLU	25
58.	17AT1A0285	PULAKURTHY VIJAY KUMAR	20

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59.	17AT1A0286	KARRE VINAY KUMAR	21
60.	17AT1A0287	RASALAY VISHNUVARDHAN	25
61.	17AT1A0288	POTHUREDDY YAMINI	24
62.	17AT1A0290	AREKANTI CHAKRAVARTHI	24
63.	18AT5A0201	KURUVA ADINARAYANA	25
64.	18AT5A0202	CHAKALI BALAJI	22
65.	18AT5A0203	KALUMURI BALAJI	25

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