



## G.Pullaiah College of Engineering and Technology

(Autonomous)

(Approved by AICTE, New Delhi | NAAC Accreditation with 'A' Grade |

Accredited by NBA (CSE, ECE & EEE) | Affiliated to JNTUA)

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

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DATE: 14-01-2019

To

The Principal,  
GPCET,  
Kurnool.

Sir,

**Sub: Approval of ADD-ON course for II CE & III CE Students-Regd**

The department of CE requests you to accept the proposal for conducting ADD-ON Course on "Design of Earthen dams" for the even semester of II & III year CE students scheduled for the duration of 42 hours. Kindly accept the proposal.

Thanking you sir,

Yours Sincerely

  
HOD-CE

PRINCIPAL

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



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### Department Circular –ADD-ON Course

DATE: 15-01-2019

The II year & III year-II semester CE Students are informed to enroll their names for ADD-ON Course on “Design of earthen dams” with their respective class-in-charges on or before 19-01-2019. The course commences from 21<sup>th</sup> January and the duration of the course is for 42 hours. The course is conducted from 4 pm to 5 pm regularly.

Bus facility is made available soon after the class work.

HOD-CE

**SYLLABUS FOR ADD-ON COURSE ON Design of Earthen Dams**

DAY	TOPICS
1	Introduction
2	Types of earthen dams
3	Construction methods
4	Design criteria
5	Failure of earthen dams
6	Causes of failure
7	Section of dam
8	Preliminary design
9	Problems
10	Problems
11	Control of seepage
12	Problems
13	Safety measures
14	Rolled fill dams
15	Hydraulic fill dams
16	Homogeneous embankment type
17	Zoned embankment type
18	Diaphragm embankment type
19	Hydraulic failures
20	Seepage failures
21	Structural failures
22	Wave erosion of upstream
23	Cracking due to frost action
24	Gully formation
25	Overtopping failure



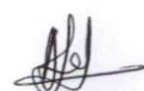
**G PULLAIAH COLLEGE OF ENGINEERING & TECHNOLOG**  
**DEPARTMENT OF CIVIL ENGINEERING**  
**ADDON COURSE SCHEDULE**

**Date: 11/03/2019**

II & III YEAR – II Semester		
Course	Faculty	Duration
Introduction	C Thejaswini Veena	1 hours
Types of earthen dams	C Thejaswini Veena	1 hours
Construction methods	C Thejaswini Veena	1 hours
Design criterions	C Thejaswini Veena	1 hours
Failure of earthen dams	C Thejaswini Veena	1 hours
Causes of failure	C Thejaswini Veena	1 hours
Section of dam	C Thejaswini Veena	1 hours
Preliminary design	C Thejaswini Veena	2 hours
Problems	C Thejaswini Veena	1 hours
Problems	C Thejaswini Veena	2 hours
Control of seepage	C Thejaswini Veena	1 hours
Problems	C Thejaswini Veena	2 hours
Safety measures	C Thejaswini Veena	1 hours
Rolled fill dams	C Thejaswini Veena	1 hours
Hydraulic fill dams	C Thejaswini Veena	1 hours



Homogeneous embankment type	C Thejaswini Veena	1 hours
Zoned embankment type	C Thejaswini Veena	1 hours
Diaphragm embankment type	C Thejaswini Veena	1 hours
Hydraulic failures	C Thejaswini Veena	1 hours
Seepage failures	C Thejaswini Veena	1 hours
Structural failures	C Thejaswini Veena	1 hours
Wave erosion of upstream	C Thejaswini Veena	1 hours
Cracking due to frost action	C Thejaswini Veena	2 hours
Gully formation	C Thejaswini Veena	1 hour
Overtopping failure	C Thejaswini Veena	2 hours







**G PULLAIAH COLLEGE OF ENGINEERING & TECHNOLOGY: KURNOOL (Autonomous)**

**Department of Civil Engineering**

The following is the list of the students who have attended Add on Course on “Design of earthen dams”

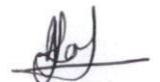
**II year students**

S.No	Roll No	Name of the Student
1	17AT1A0102	JOLAPURAM ALKHAMA
2	17AT1A0103	SADURLA ASHOK
3	17AT1A0105	KUNTAVATH CHANDRAKALA BAI
4	17AT1A0106	PARISHAPOGU FRANCHIS PAUL
5	17AT1A0107	PINJARI HARIFA
6	17AT1A0108	AKULA JAGANNATH
7	17AT1A0109	DUDEKULA JAMAL BASHA
8	17AT1A0110	MURAMANI KAMALA RANI
9	17AT1A0111	BOYA KEERTHI
10	17AT1A0112	PINJARI MABEE
11	17AT1A0113	YEDDULA MADHU SUDHAN REDDY
12	17AT1A0114	SUGADASI MAHESH BABU
13	17AT1A0115	MURABOINA MALLIKARJUNA
14	17AT1A0116	A MAZAHAR HASSAN
15	17AT1A0117	SHAIK MD TAUQIR RAHIMAN
16	17AT1A0118	SHAIK MOHAMMAD ARSHAD
17	17AT1A0119	SHAIK MOHAMMEDD FAREED IQBAL
18	17AT1A0120	B MOHAMMED MARUF
19	17AT1A0121	PERUMALLA MUKESH
20	17AT1A0122	KRISHTIPATI NAGA TEJASHWARA REDDY
21	17AT1A0125	SETTY PRAVEEN
22	17AT1A0126	NAYAKALLU RAHUL
23	17AT1A0127	DEBBE RAJASEKHAR
24	17AT1A0128	BUKKALA RAJESH BABU
25	17AT1A0129	RITHIK JAIN S
26	17AT1A0131	VALMIKI SAI HEMANTH
27	17AT1A0132	DHANIREDDY SAI KUMAR REDDY
28	17AT1A0133	PINJARI SHAHNAZ PARVEEN
29	17AT1A0134	SHAIK THADAKALA SHAIKSHAVALI
30	17AT1A0135	SHAIK SHAMSHUR BASHA
31	17AT1A0137	K SHYAM SUNDAR
32	17AT1A0138	SHAIK MOHAMMED SIRAJ AHMED
33	17AT1A0139	GADIGE SHIVA HEMANATH
34	17AT1A0140	DIBBANAKAL SIVA KUMAR

35	17AT1A0143	DESETTY SIVA SATHISH
36	17AT1A0144	TARIMALA RANGANATHA SRIVANI
37	17AT1A0145	GADDAM SUPRIYA
38	17AT1A0146	RAMPOGU TEJOMAI
39	17AT1A0147	BEGARI UPENDRA
40	17AT1A0148	SAGINALA VEERESHWARA NAGA PRASAD
41	17AT1A0149	A VENKATA SAI SANDEEP KUMAR
42	17AT1A0150	D VENU MADHAV
43	17AT1A0152	L WAJAHAT-UL-KAREEM
44	17AT1A0153	KANDULA YOGA MUKESH
45	17AT1A0154	SHAIK ZARIN TAJ
46	17AT1A0155	SHAIK ZEBA ISMATH
47	17AT1A0156	VADITHE MADHURI
48	17AT1A0157	SHAIK NIDANAAZ
49	18AT5A0101	MADDELA ABHISHEK
50	18AT5A0102	SUGALI AMARESH
51	18AT5A0103	SHAIK MOHAMMED ASIF KAREEM
52	18AT5A0104	JAKKULA MOUNIKA
53	18AT5A0105	SANGATI NAVEEN
54	18AT5A0106	KURUVA RAMESWARI
55	18AT5A0107	VELURI SAI PRUTHVI
56	18AT5A0108	SUGUNAVATH SAINATH NAIK
57	18AT5A0109	TALARI SREENIVASULU

III year students

S.No	Roll No	Name of the Candidate
1	16AT1A0101	SHAIK ABDULLAH
2	16AT1A0102	ABRAR BAIG
3	16AT1A0103	KATI AJAY PRASANTH
4	16AT1A0104	PATAN ATHAULLA KHAN
5	16AT1A0105	GOKULAPADU AZMATHULLA
6	16AT1A0106	KATTA BALAJI
7	16AT1A0107	K CHARAN SRI RAM
8	16AT1A0108	NASARI CHARAN TEJA
9	16AT1A0109	GADUMURI CHENCHU NAGANNA



10	16AT1A0110	MAHENDRAKAR DINESH
11	16AT1A0111	B GANESH
12	16AT1A0112	G GOVARDHANA CHOWDARY
13	16AT1A0114	B HARINATH REDDY
14	16AT1A0115	K HEMANTH KUMAR REDDY
15	16AT1A0116	S IMTHIYAS BASHA
16	16AT1A0117	M JASLIN
17	16AT1A0118	H KARAN KUMAR
18	16AT1A0119	S KARTHIK
19	16AT1A0120	U LEELA PRASANTH
20	16AT1A0121	BOYINI LOKESH YADAV
21	16AT1A0122	DANDUGALA MADHU KRISHNA
22	16AT1A0123	J MANOJ KUMAR
23	16AT1A0124	G K MARUTHI
24	16AT1A0125	SHAIK MOHAMMED ISMAIL
25	16AT1A0126	SHAIK MOHAMMED TANVEER
26	16AT1A0127	BATEGERI MOHAMMED WASEEM
27	16AT1A0128	PINJARI NABISA
28	16AT1A0129	KHALEEL NASHRA MARIAM KHAN
29	16AT1A0130	DAMAGATLA NAVEEN BABU
30	16AT1A0131	VEERAPURAM NAVEEN
31	16AT1A0132	AKEPOGU NIVYA
32	16AT1A0133	PITCHIGUNTLA PRASANNA KUMAR
33	16AT1A0134	M PRASANNA KUMARI





34	16AT1A0135	YARABAM PRAVALLIKA
35	16AT1A0136	KUNA PRAVEEN KUMAR
36	16AT1A0137	GITTA RAJU
37	16AT1A0138	KURUVA RAMESH
38	16AT1A0139	K REVANTH KUMAR REDDY
39	16AT1A0140	BOYA SAI VARDHAN
40	16AT1A0141	PULLA SAINIKHILA
41	16AT1A0143	SHAIK SHAHBAAZ
42	16AT1A0144	VELDURTHI SRI TEJA REDDY
43	16AT1A0145	PANYAM SUHASINI
44	16AT1A0146	DEVALAPURAM UMADEVI
45	16AT1A0147	TATIKONDA VIJAY KUMAR
46	16AT1A0148	TOPI VINOD KUMAR
47	16AT1A0149	ERRAMANANE YAMINI
48	16AT1A0151	Y YUVARANI YADAV
49	17AT5A0101	BHEEMANAPALLI LAKSHMI DUSHANTH KUMAR
50	17AT5A0102	KAMIREDDY JYOSHNA
51	17AT5A0103	M MADHAN GOPAL REDDY
52	17AT5A0104	B MALLIKARJUNA REDDY
53	17AT5A0105	MANJULA NAGENDRA BABU
54	17AT5A0106	U RANJITH KUMAR
55	17AT5A0107	YERUKULA SAIKIRAN
56	17AT5A0108	DANDU SATYANARAYANA SWAMY
57	17AT5A0109	JAGGAPURAM SHAFIVULLA



58	17AT5A0110	B SIVA PRASAD
59	17AT5A0111	PAKANTI SREEDEVI YADAV
60	17AT5A0112	KURUVA NANNOORU SURESH
61	17AT5A0113	NUKALA ADARSHA KUMAR
62	17AT5A0114	UPPARI CHANDRA
63	17AT5A0116	SHAIK ERAMULLAH



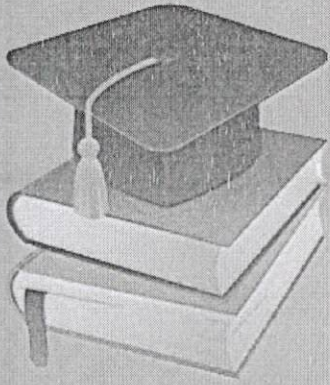




**G. PULLAIAH COLLEGE OF  
ENGINEERING AND TECHNOLOGY  
(AUTONOMOUS)**

Department Of Civil Engineering

ADD ON PROGRAM



**Topic : Design of Earth and Dams**  
**Target audience : II and III Year Students**  
**Total Courses hrs : 42 hrs**  
**Selection Procedure : Registration on First  
come First serve basis**  
**Venue : Seminar Hall**

**FREE**

**Register  
Now**

**Date of commencement the course : 21 Jan, 2019. End of  
Course : 18 May, 2019. Exam Date: 22 May,2019.**



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

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1. Which of the following earth dam is suitable only on impervious foundation? (            )
  - a) Zoned embankment type
  - b) Homogenous embankment type**
  - c) Non-homogenous type
  - d) Diaphragm type
2. Which of the following zone in Zoned type embankment prevents piping through cracks?
  - a) Central core
  - b) Transition zone**
  - c) Outer zone
  - d) Core wall
3. Which of the following soil material is most preferred for the central core material of zoned embankment type dam? (            )
  - a) Highly impervious clay
  - b) Sands or silty clays**
  - c) Coarse sands
  - d) Gravels
4. Which embankment has the thickness of the diaphragm at an elevation less than 10 meters or the height of the embankment above the corresponding elevation? (            )
  - a) Diaphragm type dam**
  - b) Zoned type dam
  - c) Non-homogenous earth dam
  - d) Homogenous earth dam
5. The blanket in earth dam is provided \_\_\_\_\_ (            )
  - a) at the ground level on u/s side**
  - b) at the ground level on the d/s side



c) at the ground level of the D/s side of the dam

d) on the D/s slope

6. Which of the following statement is correct with reference to earthen dams? ( )

a) These dams are very costly as compared to other types

b) Gravity dams are less susceptible to failure as compared to rigid dams

**c) These dams are suitable for construction on almost every type of foundation**

d) Highly skilled labor is generally not required

7. During the construction of an earthen dam by hydraulic fill method, development of pore pressure becomes important in the \_\_\_\_\_ ( )

**a) central impervious core**

b) pervious outer shell

c) transition zone

d) both central core and outer shell

8. The process of laying and compacting earth in layers by power rollers under OMC for construction of earthen dams is known as \_\_\_\_\_ ( )

**a) Rolled fill method**

b) Hydraulic fill method

c) OMC method

d) Compaction

9. The central core of the zoned embankment type earth dam \_\_\_\_\_ ( )

**a) checks the seepage**

b) prevents piping

c) gives stability to the central impervious fill

d) distribute the load over a large area

10. Which type of dam is suitable on shallow pervious foundations? ( )

**a) Zoned embankment type**

b) Homogenous embankment type

c) Both Non-homogenous type and homogenous type

d) Diaphragm type

11. What is the U.S.B.R recommended value for freeboard when the height of the dam is more than 60 m? ( )

a) 2 m to 3 m

b) 2.5 m above the top of gates

c) 3 m above the top of gates

d) More than 3 m

12. What is the recommended formula for top width of a very low dam? ( )

a)  $H + 3$

b)  $0.2H + 3$

c)  $0.2 H$

d)  $H + 5$

13. What is the Terzaghi's recommended value of U/s side slope for earth dam of height less than 15m of homogenous silty clay? ( )

a) 2: 1

b) 2.5: 1

c) 3: 1

d) 3.5: 1

14. If the height of the dam is 10 m, then the value of top width (A) according to Strange's recommendations is \_\_\_\_\_ ( )

a) 1.85 m

b) 2.5 m

c) 3.0 m

d) 4.0 m

15. When the height of the dam is in between 7.5 to 15, the Strange's recommended value for maximum freeboard of low earth dams is \_\_\_\_\_ ( )

a) 1.2 to 1.5

b) 1.5 to 1.8

c) 1.85

d) 2.1

16. Calculate the top width (A) of the earth dam of height 50 m. ( )

a) 5.0 m

b) 4.75 m

c) 6.10 m

d) 3 m

17. A phreatic line in seepage analysis is defined as the line on which pressure is \_\_\_\_\_

- a) equal to the atmosphere
- b) greater than atmosphere
- c) lower than atmosphere
- d) varying

18. Provision of horizontal berms at suitable vertical intervals may be provided in the downstream face of an earthen dam in order to \_\_\_\_\_ ( )

- a) allow the movement of cattle
- b) allow the inspection of vehicles to move
- c) reduce the erosion caused by the flowing rainwater
- d) increase the erosion

19. During seepage through an earthen mass, the direction of seepage is \_\_\_\_\_ to the equipotential lines. ( )

- a) perpendicular
- b) parallel
- c) not defined
- d) diagonal

20. The upstream face of the earth dam is considered as \_\_\_\_\_ ( )

- a) equipotential line
- b) streamline
- c) streak line
- d) path line

21. The effects of capillary fringe are on the slightly safer side and are neglected. ( )

- a) True
- b) False

22. Which of the following line acts as a dividing line between dry (or moist) and submerged line?

- a) Equipotential line
- b) Path line
- c) Seepage line
- d) Streak line

23. 1. Stone pitching or riprap is generally provided to avoid \_\_\_\_\_ ( )

- a) over-topping

b) erosion of U/s and d/s face

c) cracking due to frost action

d) gully formation

24. The collection and removal of water before it acquires high downward velocities is ensured by provision of \_\_\_\_\_( )

a) berms

b) freeboard

c) burrow pits

d) spoil banks

25. In order to prevent the possibility of the cross-flow towards the earthen embankments, it is necessary to provide \_\_\_\_\_( )

a) counter berms

b) sides walls of sufficient height and length

c) spoil banks

d) sufficient freeboard





G PULLAIAH COLLEGE OF ENGINEERING & TECHNOLOGY: KURNOOL (Autonomous)

Department of Civil Engineering

The following is the list of the students who have appeared for assessment Add on Course on  
“DESIGN OF EARTHEN DAM”

EVALUATION SHEET

S.No	Roll No	Name of the Student	EVALUATION MARKS
1	17AT1A0102	JOLAPURAM ALKHAMA	21
2	17AT1A0103	SADURLA ASHOK	20
3	17AT1A0105	KUNTAVATH CHANDRAKALA BAI	FAIL
4	17AT1A0106	PARISHAPOGU FRANCHIS PAUL	19
5	17AT1A0107	PINJARI HARIFA	8
6	17AT1A0108	AKULA JAGANNATH	22
7	17AT1A0109	DUDEKULA JAMAL BASHA	17
8	17AT1A0110	MURAMANI KAMALA RANI	21
9	17AT1A0111	BOYA KEERTHI	20
10	17AT1A0112	PINJARI MABEE	ABSENT
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16	17AT1A0118	SHAIK MOHAMMAD ARSHAD	17
17	17AT1A0119	SHAIK MOHAMMEDD FAREED IQBAL	FAIL
18	17AT1A0120	B MOHAMMED MARUF	ABSENT
19	17AT1A0121	PERUMALLA MUKESH	22
20	17AT1A0122	KRISHTIPATI NAGA TEJASHWARA REDDY	9
21	17AT1A0125	SETTY PRAVEEN	12
22	17AT1A0126	NAYAKALLU RAHUL	18
23	17AT1A0127	DEBBE RAJASEKHAR	18
24	17AT1A0128	BUKKALA RAJESH BABU	21
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26	17AT1A0131	VALMIKI SAI HEMANTH	22
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40	17AT1A0148	SAGINALA VEERESHWARA NAGA PRASAD	FAIL
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43	17AT1A0152	L WAJAHAT-UL-KAREEM	19
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45	17AT1A0154	SHAIK ZARIN TAJ	20
46	17AT1A0155	SHAIK ZEBA ISMATH	FAIL
47	17AT1A0156	VADITHE MADHURI	19
48	17AT1A0157	SHAIK NIDANAAZ	8
49	18AT5A0101	MADDELA ABHISHEK	22
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54	18AT5A0106	KURUVA RAMESWARI	9
55	18AT5A0107	VELURI SAI PRUTHVI	21
56	18AT5A0108	SUGUNAVATH SAINATH NAIK	14
57	18AT5A0109	TALARI SREENIVASULU	19

2016 batch students

S.No	Roll No	Name of the Candidate	EVALUATION MARKS
1	16AT1A0101	SHAIK ABDULLAH	21
2	16AT1A0102	ABRAR BAIG	22
3	16AT1A0103	KATI AJAY PRASANTH	9
4	16AT1A0104	PATAN ATHAULLA KHAN	17
5	16AT1A0105	GOKULAPADU AZMATHULLA	21
6	16AT1A0106	KATTA BALAJI	18
7	16AT1A0107	K CHARAN SRI RAM	17
8	16AT1A0108	NASARI CHARAN TEJA	15
9	16AT1A0109	GADUMURI CHENCHU NAGANNA	FAIL



10	16AT1A0110	MAHENDRAKAR DINESH	18
11	16AT1A0111	B GANESH	17
12	16AT1A0112	G GOVARDHANA CHOWDARY	19
13	16AT1A0114	B HARINATH REDDY	20
14	16AT1A0115	K HEMANTH KUMAR REDDY	22
15	16AT1A0116	S IMTHIYAS BASHA	21
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17	16AT1A0118	H KARAN KUMAR	9
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26	16AT1A0127	BATEGERI MOHAMMED WASEEM	18
27	16AT1A0128	PINJARI NABISA	24
28	16AT1A0129	KHALEEL NASHRA MARIAM KHAN	14
29	16AT1A0130	DAMAGATLA NAVEEN BABU	9
30	16AT1A0131	VEERAPURAM NAVEEN	8
31	16AT1A0132	AKEPOGU NIVYA	FAIL
32	16AT1A0133	PITCHIGUNTLA PRASANNA KUMAR	24
33	16AT1A0134	M PRASANNA KUMARI	22

34	16AT1A0135	YARABAM PRAVALLIKA	18
35	16AT1A0136	KUNA PRAVEEN KUMAR	7
36	16AT1A0137	GITTA RAJU	15
37	16AT1A0138	KURUVA RAMESH	21
38	16AT1A0139	K REVANTH KUMAR REDDY	20
39	16AT1A0140	BOYA SAI VARDHAN	FAIL
40	16AT1A0141	PULLA SAINIKHILA	19
41	16AT1A0143	SHAIK SHAHBAAZ	8
42	16AT1A0144	VELDURTHI SRI TEJA REDDY	22
43	16AT1A0145	PANYAM SUHASINI	17
44	16AT1A0146	DEVALAPURAM UMADEVI	21
45	16AT1A0147	TATIKONDA VIJAY KUMAR	20
46	16AT1A0148	TOPI VINOD KUMAR	ABSENT
47	16AT1A0149	ERRAMANANE YAMINI	20
48	16AT1A0151	Y YUVARANI YADAV	21
49	17AT5A0101	BHEEMANAPALLI LAKSHMI DUSHANTH KUMAR	18
50	17AT5A0102	KAMIREDDY JYOSHNA	17
51	17AT5A0103	M MADHAN GOPAL REDDY	9
52	17AT5A0104	B MALLIKARJUNA REDDY	23
53	17AT5A0105	MANJULA NAGENDRA BABU	14
54	17AT5A0106	U RANJITH KUMAR	18
55	17AT5A0107	YERUKULA SAIKIRAN	18
56	17AT5A0108	DANDU SATYANARAYANA SWAMY	FAIL
57	17AT5A0109	JAGGAPURAM SHAFIVULLA	17



58	17AT5A0110	B SIVA PRASAD	14
59	17AT5A0111	PAKANTI SREEDEVI YADAV	24
60	17AT5A0112	KURUVA NANNOORU SURESH	17
61	17AT5A0113	NUKALA ADARSHA KUMAR	FAIL
62	17AT5A0114	UPPARI CHANDRA	14
63	17AT5A0116	SHAIK ERAMULLAH	24

