



**HINDI MAHAVIDYALAYA**  
(ARTS, COMMERCE, SCIENCE & PG CENTRE)

(Autonomous & NAAC RE-ACCREDITED)

**Department of Mathematics**

**Students Projects for B.Sc. III Year in Mathematics**

**Academic Year 2022 - 23**

<b>S.NO.</b>	<b>H.T. NO.</b>	<b>NAME OF THE STUDENT</b>	<b>NAME OF THE PROJECT</b>
1	109220467001	A SHIVA	CLASIFICATION OF CYCLIC GROUPS
2	109220467006	D VIKAS REDDY	CLASIFICATION OF CYCLIC GROUPS
3	109220467017	PENTAM RAJESH	MATRICES AND ITS APPLICATIONS
4	109220467009	GANESH SUGURU	MATRICES AND ITS APPLICATIONS
5	109220467007	APOTO DHANRAJ	MATRICES AND ITS APPLICATIONS
6	109220467015	M SAI TEJA	APPLICATIONS OF FIRST ORDER DIFFERENTIAL EQUATIONS
7	109220467010	K VAMSHI	APPLICATIONS OF FIRST ORDER DIFFERENTIAL EQUATIONS
8	109220467004	CH SRIKANTH	APPLICATIONS OF FIRST ORDER DIFFERENTIAL EQUATIONS
9	109220467008	G SAI PRASAD	PARTIAL DIFFERENTIAL EQUATION & ITS APPLICATIONS
10	109220467020	ROHIT PANDEY	PARTIAL DIFFERENTIAL EQUATION & ITS APPLICATIONS
11	109220467024	T VIGNEESH	PARTIAL DIFFERENTIAL EQUATION & ITS APPLICATIONS
12	109220467018	PESARU NARENDER REDDY	NEMERICAL METHODS FOR THE SOLUTION FOR PARTIAL DIFFERENTIAL EQUATIONS
13	109220467022	SAYABOINA SRIKANTH	NEMERICAL METHODS FOR THE SOLUTION FOR PARTIAL DIFFERENTIAL EQUATIONS
14	109220467023	SRIRAM NIKHIL	NEMERICAL METHODS FOR THE SOLUTION FOR PARTIAL DIFFERENTIAL EQUATIONS
15	109220467016	P PRASANTH	SECOND ORDER LINEAR DIFFERENTIAL EQUATION WITH VARIABLE COEFFICIENT AND ITS APPLICATIONS
16	109220467002	V SHIVADEEP	SECOND ORDER LINEAR DIFFERENTIAL EQUATION WITH VARIABLE COEFFICIENT AND ITS APPLICATIONS
17	109220467003	C PAWAN	SECOND ORDER LINEAR DIFFERENTIAL EQUATION WITH VARIABLE COEFFICIENT AND ITS APPLICATIONS
18	109220467026	AMULYA SRIRAJ	CYCLIC GROUPS AND ITS APPLICATIONS
19	109220467019	R SRIJANI	CYCLIC GROUPS AND ITS APPLICATIONS
20	109220441005	B PRANATHI	CYCLIC GROUPS AND ITS APPLICATIONS
21	109220467021	SANIA	APPLICATIONS OF COSETS OF GROUP
22	109220467012	NAVEEN	APPLICATIONS OF COSETS OF GROUP
23	109220466013	JAHNAVI	APPLICATIONS OF COSETS OF GROUP
24	109220467005	DANE SAI KIRAN	RING THEORY AND ITS APPLICATIONS
25	109220467014	MANDALA MADHAVAN	RING THEORY AND ITS APPLICATIONS
26	109220467025	THOTA SRINIVAS	RING THEORY AND ITS APPLICATIONS

A  
STUDY PROJECT ON  
"CLASSIFICATION OF CYCLIC GROUPS"  
IN PARTIAL FULFILLMENT FOR THE AWARD OF DEGREE OF  
BACHELOR SCIENCE (M.S.CS.)



Submitted By

A.SHIVA

H.NO:109220467001

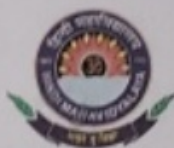
D.VIKAS REDDY

H.NO:109220467006

Under the Guidance of

Smt. G. Sreevani

Assistant Professor, Department of Mathematics



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( 2020 – 2023)

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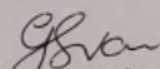


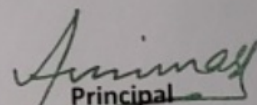
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## DEPARTMENT OF MATHEMATICS

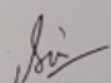
### CERTIFICATION

This is to certify that the Project Report title "**CLASSIFICATION OF CYCLIC GROUPS**" submitted in partial fulfillment for the award of B.Sc.(M.S.Cs) Programme of Department of Mathematics, Hindi Mahavidyalaya, Hyderabad, was carried out by **A.SHIVA H.NO:109220467001, D.VIKAS REDDY H.NO:109220467006** under my guidance. This has not been submitted to any other University or Institution for the award of any degree / diploma / certificate.

  
Project Guide  
Smt. G. Sreevani

  
Principal  
Dr. Avinash Jaiswal

PRINCIPAL  
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External Examiner



A  
STUDY PROJECT ON  
"MATRICES AND ITS APPLICATIONS"  
IN PARTIAL FULLFILLMENT FOR THE AWARD OF DEGREE OF  
BACHELOR SCIENCE (M.S.CS.)



Submitted By

PENTAM RAJESH  
GANESH SUGURU  
APOTO DHANRAJ

H.T.NO:109220467017  
H.T.NO:109220467009  
H.T.NO:109220467007

Under the Guidance of  
Smt. G. SRIVANI  
Assistant Professor, Department of Mathematics



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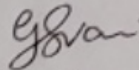


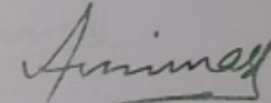
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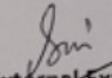
DEPARTMENT OF MATHEMATICS

CERTIFICATION

This is to certify that the Project Report title "**MATRICES AND ITS APPLICATIONS**" submitted in partial fulfillment for the award of B.Sc.(M.S.Cs) Programme of Department of Mathematics, Hindi Mahavidyalaya, Hyderabad, was carried out by MR. PENTAM RAJESH H.T.No: 109220467017, MR. GANESH SUGURU H.T.No:109220467009, MR. APOTO DHANRAJ H.T.No.:109220467007 under my guidance. This has not been submitted to any other University or Institution for the award of any degree / diploma / certificate.

  
Project Guide  
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External Examiner

A  
STUDY PROJECT ON  
**"APPLICATIONS OF FIRST ORDER DIFFERENTIAL EQUATIONS"**  
IN PARTIAL FULFILLMENT FOR THE AWARD OF DEGREE OF  
BACHELOR SCIENCE (M.S.CS.)



Submitted By

M.SAITEJA	109220467015
K.VAMSHI	109220467010
CH.SRIKANTH	109220467004

Under the Guidance of

**Sri. M.Sudhakar**

Assistant Professor, Department of Mathematics



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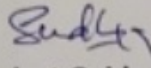


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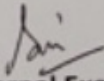
DEPARTMENT OF MATHEMATICS

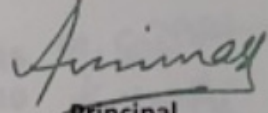
CERTIFICATION

This is to certify that the Project Report title "**APPLICATIONS OF FIRST ORDER DIFFERENTIAL EQUATIONS**" submitted in partial fulfillment for the award of B.Sc.(M.S.Cs) Programme of Department of Mathematics, Hindi Mahavidyalaya, Hyderabad, was carried out by **M.SAITEJA H.No.: 109220467015, K.VAMSHI H.No.: 109220467010, CH.SRIKANTH H.No.: 109220467004** under my guidance. This has not been submitted to any other University or Institution for the award of any degree / diploma / certificate.

  
Project Guide  
Sri. M.Sudhakar

M.SAITEJA  
K.VAMSHI  
CH.SRIKANTH

  
External Examiner

  
Principal  
Dr. Avinash Jaiswal  
PRINCIPAL  
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A  
STUDY PROJECT ON  
"PARTIAL DIFFERENTIAL EQUATIONS AND ITS APPLICATIONS"  
IN PARTIAL FULFILLMENT FOR THE AWARD OF DEGREE OF  
BACHELOR SCIENCE (M.S.CS.)



**Submitted By**

G.SAIPRASAD	H.NO. 109220467008
ROHIT PANDEY	H.NO. 109220467020
T.VIGNESH	H.NO. 109220467024

**Under the Guidance of**

**Smt. G.Sreevani**

Assistant Professor, Department of Mathematics  
&

**Sri. M. SUDHAKAR**

Assistant Professor, Department of Mathematics



**HINDI MAHAVIDYALAYA**  
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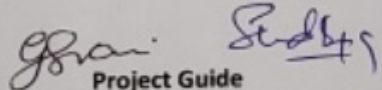


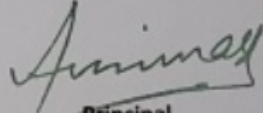
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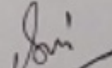
DEPARTMENT OF MATHEMATICS

CERTIFICATION

This is to certify that the Project Report title "**PARTIAL DIFFERENTIAL EQUATIONS AND ITS APPLICATIONS**" submitted in partial fulfilment for the award of **B.Sc.(M.S.Cs)** Programme of Department of Mathematics, Hindi Mahavidyalaya, Hyderabad, was carried out by **G.SAIPRASAD H.NO.: 109220467008, ROHIT PANDEY H.NO.: 109220467020, T.VIGNESH H.NO.: 109220467024** under my guidance. This has not been submitted to any other University or Institution for the award of any degree / diploma / certificate.

  
Project Guide  
Smt. G.Sreevani & Sri. M. Sudhakar

  
Principal  
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**PRINCIPAL**  
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External Examiner

**A**  
**STUDY PROJECT ON**  
**"NUMERICAL METHODS FOR THE SOLUTION FOR**  
**PARTIAL DIFFERENTIAL EQUATIONS"**  
**IN PARTIAL FULFILLMENT FOR THE AWARD OF DEGREE OF**  
**BACHELOR SCIENCE (M.S.CS.)**



**Submitted By**

**PESARU NARENDER REDDY**  
**SAYABOINA SRIKANTH**  
**SRIRAM NIKHIL**

**H.T.NO:109220467018**  
**H.T.NO:109220467022**  
**H.T.NO:109220467023**

**Under the Guidance of**

**Smt. G. SRIVANI**

**Assistant Professor, Department of Mathematics**

**and**

**Sri. M. Sudhakar**

**Assistant Professor, Department of Mathematics**



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**(Affiliated to Osmania University)**

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**( 2020 – 2023)**



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(उस्मानिया विश्वविद्यालय से संबद्ध)  
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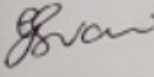


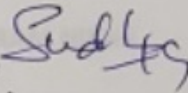
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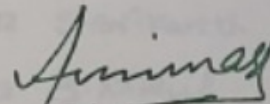
CERTIFICATION

This is to certify that the Project Report title "**NUMERICAL METHODS FOR THE SOLUTION FOR PARTIAL DIFFERENTIAL EQUATIONS**" submitted in partial fulfillment for the award of **B.Sc.(M.S.Cs)** Programme of Department of Mathematics, Hindi Mahavidyalaya, Hyderabad, was carried out by **MR.PESARU NARENDER REDDY H.T.No: 109220467018**, **MR. SAYABOINA SRIKANTH H.T.No:109220467022**, **MR. SRIRAM NIKHIL H.T.No.:109220467023** under my guidance. This has not been submitted to any other University or Institution for the award of any degree / diploma / certificate.

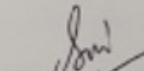
  
Project Guide  
Smt. G. Srivani  
Sri. M.Sudhakar



H.T.No: 109220467022  
H.T.No: 109220467023

  
Principal

Dr. Avinash Jaiswal  
PRINCIPAL  
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External Examiner



**A**  
**STUDY PROJECT ON**  
**"SECOND ORDER LINEAR DIFFERENTIAL EQUATION WITH VARIABLES COEFFICIENT**  
**AND ITS APPLICATIONS"**

**IN PARTIAL FULLFILLMENT FOR THE AWARD OF DEGREE OF**  
**BACHELOR SCIENCE (M.S.CS.)**



**Submitted By**

<b>P.PRASHANTH</b>	<b>109220467016</b>
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<b>C.PAWAN</b>	<b>109220467003</b>

**Under the Guidance of**

**Smt. T. RAMADEVI**

**Assistant Professor, Department of Mathematics**



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DEPARTMENT OF MATHEMATICS

CERTIFICATION

This is to certify that the Project Report title "SECOND ORDER LINEAR DIFFERENTIAL EQUATION WITH VARIABLES COEFFICIENT AND ITS APPLICATIONS" submitted in partial fulfillment for the award of B.Sc.(M.S.Cs) Programme of Department of Mathematics, Hindi Mahavidyalaya, Hyderabad, was carried out by **P.PRASHANTH H.No.: 109220467016, B.SHIVADEEP H.No.: 109220467002 , C.PAWAN H.No.: 109220467003** under my guidance. This has not been submitted to any other University or Institution for the award of any degree / diploma / certificate.

*T. Ramadevi*  
Project Guide  
Smt. T.Ramadevi

*Dr. Avinash Joshi*  
Principal  
Dr. Avinash Joshi  
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*[Signature]*  
External Examiner

A  
STUDY PROJECT ON  
"CYCLIC GROUPS AND ITS APPLICATIONS"  
IN PARTIAL FULFILLMENT FOR THE AWARD OF DEGREE OF  
BACHELOR SCIENCE (M.S.CS.)



**Submitted By**

AMULYA SRIRAJ	109220467026
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R.SRIJANI	109220467019

**Under the Guidance of**  
**Sri. T.Thirupathaiah**  
Assistant Professor, Department of Mathematics



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नल्लकुन्ता, हैदराबाद -500 044



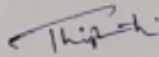
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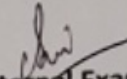


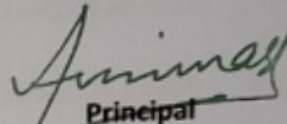
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CERTIFICATION

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Project Guide  
Sri. T.Thirupathaah

  
External Examiner

  
Principal  
Dr. Avinash Jaiswal  
PRINCIPAL  
HINDI MAHA VIDYALAYA  
(AUTONOMOUS)  
Arts, Commerce & Science  
Nallakunta, Hyderabad - 44

CANDIDATE DECLARATION

We hereby declare that this project Report entitled "**CYCLIC GROUPS AND ITS APPLICATIONS**" submitted by me to the Department of Mathematics, HINDI

A  
STUDY PROJECT ON  
"APPLICATIONS OF COSETS OF GROUP"  
IN PARTIAL FULLFILLMENT FOR THE AWARD OF DEGREE OF  
BACHELOR SCIENCE (M.S.CS. & M.P.CS.)



Submitted By

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Under the Guidance of

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**HINDI MAHAVIDYALAYA**

(AUTONOMOUS & NAAC RE-ACCREDITED)

(ARTS, COMMERCE, SCIENCE AND P.G. CENTRE)

(Affiliated to Osmania University)

Nallakunta, Hyderabad - 500 044

(2020 - 2023)

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(कला, वाणिज्य, विज्ञान और पीजी केंद्र)  
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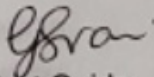
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
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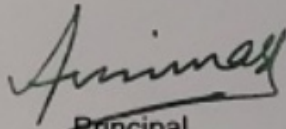
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CERTIFICATION

This is to certify that the Project Report title "**APPLICATIONS OF COSETS OF GROUP**" submitted in partial fulfillment for the award of B.Sc.( MSCs. & MPCs.) Programme of Department of Mathematics, Hindi Mahavidyalaya, Hyderabad, was carried out by SANIA H.NO:109220467021, JAHNAVI H.NO:109220468013, NAVEEN H.NO:109220467012 under my guidance. This has not been submitted to any other University or Institution for the award of any degree / diploma / certificate.

  
Project Guide  
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A  
STUDY PROJECT ON  
"RING THEORY AND ITS APPLICATIONS"  
IN PARTIAL FULLFILLMENT FOR THE AWARD OF DEGREE OF  
BACHELOR SCIENCE (M.S.CS.)



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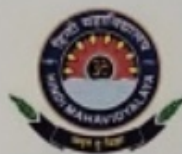
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( 2020 – 2023)

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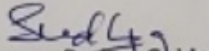
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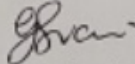
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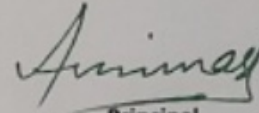
#### CERTIFICATION

This is to certify that the Project Report title **"RING THEORY AND ITS APPLICATIONS"** submitted in partial fulfillment for the award of B.Sc.(M.S.Cs) Programme of Department of Mathematics, Hindi Mahavidyalaya, Hyderabad, was carried out by **MR.DANE SAIKIRAN H.T.No: 109220467005, MR.MANDALA MADHAVAN H.T.NO:109220467014, MR.THOTA SRINIVAS H.T.NO:10922046702** under my guidance. This has not been submitted to any other University or Institution for the award of any degree / diploma / certificate.

  
Project Guide

Sri. M. Sudhakar & Smt. G. Srivani



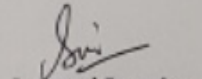
  
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