



## St. JOHN'S COLLEGE OF ARTS & SCIENCE

(Accredited with B++ by NAAC & Approved by UGC under section 2(f) & 12(B) status)

(Affiliated to Manonmaniam Sundaranar University, Tirunelveli)

(A Christian Minority Institution)

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## PROJECT DETAILS – MSC MATHEMATICS

**St. John's College of Arts and Science**  
**Ammandivilai**  
**II M.Sc Mathematics 2022-2023**

| Sl No | Reg. No        | Name                    | Project Title                                                            |
|-------|----------------|-------------------------|--------------------------------------------------------------------------|
| 1     | 20213222515201 | AMISHA MAURISH. A       | A STUDY ON MONOPHONIC DOMINATION NUMBER OF A GRAPH AND ITS TYPES         |
| 2     | 20213222515202 | ANGEL. S                | A STUDY ON TOTAL DOMINATION OF SOME GRAPHS                               |
| 3     | 20213222515203 | DHIVYA BHARATHI. B      | A STUDY ON VERTEX EDGE AND EDGE VERTEX DOMINATION POLYNOMIAL OF GRAPHS   |
| 4     | 20213222515205 | ITHAYA SEFNIYA. J       | A STUDY ON RELATIONS OF BOOLEAN ALGEBRA ON NEAR RINGS                    |
| 5     | 20213222515206 | JENI. S                 | A STUDY ON HAMILTONIAN DECOMPOSITION OF SOME GRAPHS                      |
| 6     | 20213222515207 | JENISHA. J              | A STUDY ON NON ZERO COMPONENT GRAPH OF A FINITE DIMENSIONAL VECTOR SPACE |
| 7     | 20213222515208 | JENISHA RAJ. R          | CAYLEY GRAPHS ON GROUPS                                                  |
| 8     | 20213222515209 | KARTHIKA. C             | A STUDY ON DOMINATOR AND TOTAL DOMINATOR CHROMATIC NUMBER OF GRAPHS      |
| 9     | 20213222515210 | MACLIN. A               | A STUDY ON GRACEFUL LABELING                                             |
| 10    | 20213222515211 | MARIA LIVINCY. M        | A STUDY ON SPLIT DOMINATION NUMBER IN A GRAPH                            |
| 11    | 20213222515212 | MARIA PUSHPA JENIFER. E | A STUDY ON PRODUCT CORDIAL LABELING OF SOME GRAPHS                       |
| 12    | 20213222515213 | MELID DEVA JIDO. D      | LUCKY LABELING AND PROPER LUCKY LABELING OF SOME GRAPHS                  |
| 13    | 20213222515214 | NISHA. G                | A STUDY ON FOURIER SERIES AND ITS APPLICATIONS                           |
| 14    | 20213222515215 | NISHA. V                | A STUDY ON BOOLEAN LIKE SEMI RING                                        |
| 15    | 20213222515216 | NITHIN. D. M            | A STUDY ON DOMINATOR SEQUENCE OF GRAPHS                                  |
| 16    | 20213222515217 | RATHI SABREENA. M       | A STUDY ON VECTOR SPACES AND LINEAR TRANSFORMATIONS                      |
| 17    | 20213222515218 | RENU. R                 | A STUDY ON EDGE RECONSTRUCTION PARAMETERS OF GRAPH                       |

|    |                |                           |                                                        |
|----|----------------|---------------------------|--------------------------------------------------------|
| 18 | 20213222515219 | SABISHA JERLIN<br>MARY. G | A STUDY ON GEODETIC DECOMPOSITION OF<br>A GRAPH        |
| 19 | 20213222515220 | SAHAYA DARNI. J. R        | A STUDY ON MONOPHONIC NUMBER OF A<br>GRAPH             |
| 20 | 20213222515221 | SHARMILA<br>SUSHMA. A     | A STUDY ON SPECTRUM OF GRAPH                           |
| 21 | 20213222515222 | SOWMIYA. S                | A STUDY ON PLANAR GRAPHS                               |
|    |                |                           |                                                        |
| 22 | 20213222515223 | STAR EMY. R               | A STUDY ON CENTER AND MEDIAN<br>CONCEPT IN GRAPHS      |
| 23 | 20213222515224 | THANYA<br>RASANTHINI. R   | A STUDY ON INDEPENDENT DOMINATION<br>IN LINE<br>GRAPHS |
| 24 | 20213222515225 | THIRISHA. S               | A STUDY ON INTEGRAL SUM GRAPHS                         |
| 25 | 20213222515226 | VIGNESH. J. K             | A STUDY ON CERTAIN MEAN LABELLING OF<br>GRAPHS         |

**A STUDY ON INDEPENDENT DOMINATION IN LINE GRAPHS**

**A PROJECT**

*Submitted by*

**R.THANYA RASANTHINI**

**Reg No: 20213222515224**

*In Partial Fulfilment for the award of the degree of*

**MASTER OF SCIENCE IN  
MATHEMATICS**



**DEPARTMENT OF MATHEMATICS  
ST. JOHN'S COLLEGE OF ARTS AND SCIENCE  
AMMANDIVILAI – 629204  
MAY - 2023**



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### DECLARATION

I hereby declare that the details and information given above are complete and true to the best of my knowledge and belief.

  
Dr. M. EDWIN GNANADHAS  
PRINCIPAL  
St. John's College of Arts and Science  
Ammandivilai- 629 204