

OMS COLLEGE KOTTAYAM (AUTONOMOUS)

$$
V_{1 / 2}=\frac{-b \pm \sqrt{b^{2}-48 c}}{22}
$$

$$
x^{2}+p x+q=0
$$




Department of Mathematics

## FUNCTIONAL MATHEMATICS

For the academic year 2017-18

## Report on the Add on Course 'Functional Mathematics'

An Add On course on 'Functional Mathematics' was offered by the Department of Mathematics, CMS College Kottayam during the academic Year 2017-18. The course covers the topics in Computational software, Mat lab and Python. The course was conducted by experts in the field from inside and outside the College. In addition to the direct contact classes, Google classroom and Moodle Platforms were used for conducting the program. A total of 60 students were enrolled for the course during the year and all of them successfully completed the course.

CMS COLLEGE KOTTAYAM (Autonomous) Maths -(2017-18)
Value Added Course -Functional Mathematics Attendance Sheet

| SI.No. | Reg No. | Name | $\begin{aligned} & \text { N } \\ & \text { N} \\ & \text { Nे } \\ & \text { Nे } \end{aligned}$ | $\begin{aligned} & N \\ & \stackrel{N}{1} \\ & \stackrel{1}{N} \\ & \stackrel{i}{N} \end{aligned}$ | $\begin{aligned} & N \\ & \underset{N}{N} \\ & \text { N} \\ & \text { N} \\ & \text { N } \end{aligned}$ | N N N 술 | $\begin{aligned} & \text { N } \\ & \text { N} \\ & \text { Nे } \\ & \dot{Q} \end{aligned}$ | $\begin{aligned} & \text { N } \\ & \text { N} \\ & \text { N} \\ & \text { Ǹ } \end{aligned}$ | $\begin{aligned} & \text { N } \\ & \text { N} \\ & \text { N} \\ & \text { Ǹ } \\ & \text { Non } \end{aligned}$ | N <br> $\stackrel{\rightharpoonup}{N}$ <br> N <br> $\stackrel{i}{c}$ |  | N N N © ָi |  |  | $\begin{aligned} & \text { N } \\ & \text { N } \\ & \text { N̦ } \\ & \text { N} \end{aligned}$ | N N N N |  | N |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | 151106301 | ABHIJITH ASHOK | X | A | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| 2 | 151106302 | ABIN ABRAHAM MANI | X | X | x | X | X | X | X | X | X | X | X | X | X | X | X | X |
| 3 | 151106303 | ADITHYA AJIKUMAR | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| 4 | 151106304 | AKHIL BALAN M | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| 5 | 151106305 | ANANDU SHAJI | X | X | X | X | x | A | X | X | X | X | X | X | X | X | X | X |
| 6 | 151106306 | ANITTA SUNNY | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| 7 | 151106307 | ARUN ALEXANDER NEDIYATH | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| 8 | 151106308 | ARUN CHANDRAN | X | X | A | X | X | X | X | X | X | X | X | X | X | X | X | X |
| 9 | 151106309 | ASWATHY VSHARMA | X | X | X | X | X | X | X | X | X | X | X | X | A | X | X | X |
| 10 | 151106310 | ATHIRA JAYAN | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| 11 | 151106311 | ATHIRA OR | X | X | x | X | X | X | X | X | X | X | X | X | X | X | X | X |
| 12 | 151106312 | ATHIRA UDAYAN | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| 13 | 151106313 | AYONA SHARLY JOSEPH | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| 14 | 151106314 | BENCYMOL BENNY | X | X | A | x | X | X | A | X | X | X | X | A | X | X | X | X |
| 15 | 151106315 | BIJILY MARY JOHN | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| 16 | 151106316 | CAROLINE SUSAN AJITH | X | $x$ | X | x | x | X | X | X | X | X | X | X | X | X | X | X |
| 14 | 151106317 | DEEPA P V | XE | - ${ }^{1}$ | X | X | - | X | X | X | X | X | X | X | X | X | X | X |
| omas | 151106318 | GARGY P YASODHARAN | X | X | x | X | X | X | X | X | X | X | X | X | X | X | X | X |


| 19 | 151106319 | JABIN P CHERIAN | X | X | $x$ | X | A | X | X | X | X | X | X | X | A | X | X | X |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 20 | 151106320 | JEAN G JOSE | X | X | X | X | X | x | X | X | X | X | X | X | X | X | X | X |
| 21 | 151106321 | JISHA ANN ABRAHAM | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| 22 | 151106322 | JISHNURAJ G | X | X | X | X | X | x | X | X | X | X | X | X | X | X | X | X |
| 23 | 151106323 | JITHIN GEORGE | X | X | X | X | X | x | X | X | X | X | X | X | X | X | X | X |
| 24 | 151106324 | JUSTIN JOSE | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| 25 | 151106325 | KIRAN M JOSHUA | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| 26 | 151106326 | LUKOSE SIMON | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| 27 | 151106327 | MEENUM | X | X | X | X | X | X | X | X | X | X | A | X | X | X | X | X |
| 28 | 151106328 | NAKUL KRISHNAN K R | x | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| 29 | 151106329 | NANDA G KRISHNAN | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| 30 | 151106330 | NANDHANA K | X | X | X | x | X | X | x | X | x | X | X | X | X | X | X | X |
| 31 | 151106331 | NIHAL EASO VARGHESE | X | X | A | X | X | X | X | X | X | X | X | X | X | X | X | X |
| 32 | 151106332 | NIJIN RAVICHANDRAN | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| 33 | 151106333 | RADHIKA BIJU | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| 34 | 151106334 | RESHMA N | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| 35 | 151106335 | ROBINA RAJU | X | X | X | X | X | X | x | x | X | A | X | X | X | X | X | X |
| 36 | 151106336 | ROSE MOL JOLLY | X | X | A | X | X | X | X | X | X | X | X | X | X | X | X | X |
| 37 | 151106337 | ROSEMARY SHAJU | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| 38 | 151106338 | SALINI THANKARAJ | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | A |
| 39 | 151106339 | SALUMOL SASI | X | X | X | X | X | X | X | X | X | X | A | X | X | X | X | X |
| 40 | 151106340 | SHANU VARGHESE | X | X | X | A | X | X | X | X | X | X | X | X | X | X | X | X |
| 41 | 151106341 | SWATHI HARISH | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| 42 | 151106342 | TINKU MARIAM PAUL | X | X | A | X | X | X | X | X | X | X | X | X | X | X | X | X |
| 43 | 151106343 | TOMIN S THOMAS | X | X | X | X | X | X | X | X | X | X | A | X | X | X | X | X |
| 44 | 151106344 | TONY MATHEW | A | X | X | X | X | $x$ | $X$ | A | - | X | X | X | X | X | X | X |
| 45 | 151106345 | VAISHNAV G KRISHNA | X | X | X |  |  | - | A | X | x | X | X | X | X | X | X | X |
| 46 | 1511063,349 | VRINDHA MERCY JOY | X | X | X | x | 5 | X ${ }^{-5}$ | XO | LXE | ¢ | X | X | X | X | X | X | X |
| 47 | $16\{912 b 1910$ | ABARINFATHIMA | X | X | X | x | + |  | TXA | Y | X | - | X | X | X | X | X | X |


| 48 | 162112120 | JOMIYA JOY | $x$ | $x$ | X | x | x | $x$ | x | x | X | $x$ | x | x | x | x | x | $x$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 49 | 162112131 | SANDRA MARIA JOHN | x | x | x | X | x | X | x | x | X | X | X | X | X | x | x | x |
| 50 | 162112132 | SETHULAKSHMI | X | A | x | X | x | A | x | X | x | X | x | X | X | x | X | x |
| 51 | 162105106 | AMRUTHA ASHOKAN | X | x | x | X | X | X | X | X | X | x | x | x | x | A | x | x |
| 52 | 162105107 | ANAND CHAND HARI | X | X | X | X | X | X | X | X | A | x | X | x | X | x | x | x |
| 53 | 162105108 | ANJALI G | X | x | X | X | X | x | X | X | X | X | X | X | X | X | x | x |
| 54 | 162105123 | MELVIN THOMAS MATHEW | x | x | X | $x$ | X | x | $x$ | X | X | X | X | X | x | X | x | x |
| 55 | 162105124 | MUBEENA KABEER | x | x | X | X | A | X | X | X | X | X | X | A | X | X | x | x |
| 56 | 162105126 | NEENA ELISABATH ANTONY | X | X | X | X | x | x | X | X | X | X | X | X | x | X | x | x |
| 57 | 162105127 | NIKITHA SEIRA ALEXANDER | x | x | X | $x$ | $x$ | X | x | A | X | $x$ | X | X | A | x | x | x |
| 58 | 162105128 | RACHEL JAGAN | X | x | x | x | x | x | x | X | x | X | X | x | x | x | x | x |
| 59 | 162113101 | ABDUL REZIN AL-REJI | A | X | $x$ | F-x | 1 | x | x | A | X | X | X | X | X | X | X | x |
| 60 | 162113102 | ABHIRAMI MANOJ | $x$ | $\times$ | X | X | + | - | X | X | X | x | X | x | X | X | A | x |

