



# ST FRANCIS DE SALES COLLEGE

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**A FRANSALIAN INSTITUTE OF HIGHER LEARNING**

## REPORT ON ROLE OF DIFFERENTIAL EQUATION IN INNOVATIVE RESEARCH

Date 12-13 January 2021

VENUE/Online Platforms: Google Meet

TIME : 10:00am to 11:30 am

SEMINAR ON 2021 was a platform for the students and faculties of the department to refresh themselves with the trends and applications of the dynamic world of science through persons who have proved for their expertise in their respective field of study. As part of the online guest lecture series, Infinity 2021 in collaboration with Research & IP Cell, the department conducted three guest lectures.

An online session on "Role of differential equations in innovative Research" was organised on 12-01-2021 from 10.00am to 11.30 am. The speaker for this session, Mr Naveen Kumar, Head, Department of Mathematics, RJS College, Koramangala, Bangalore is an established teacher and a Researcher, Mr Naveen is a scholar in Mathematics and a graduate in education. Mr Naveen handled the session and explained differential equations from basis to high end application in a way that can be imbibed by under graduate students.

Mr . Naveen Kumar made the session very interactive by involving the students in answering some questions and by encouraging the students to ask questions. The session was attended by I and III semester BSc (MEC & PCM) students.

Ms . Hashmi, Assistant Professor, Department of Science welcomed Mr . Naveen Kumar in the beginning of the session, Later after the session, Dr Nebula Murukesh, Coordinator, Department of Science made the concluding remarks and expressed gratitude.

On 13 January 2021, the department arranged to two online lectures. The first lecture was by Ms . Nalina Murthy, ICMR- Senior Research Fellow, CSIR- CFTRI, Mysore at 11:00 am. Ms . Nalina gave the talk on Advances in Biochemical Research, Ms . Nalina is M Tech holder in nanoscience and technology (2015) from kuvempu university . Shimoga currently



Electronics City P.O., Bengaluru - 560 100

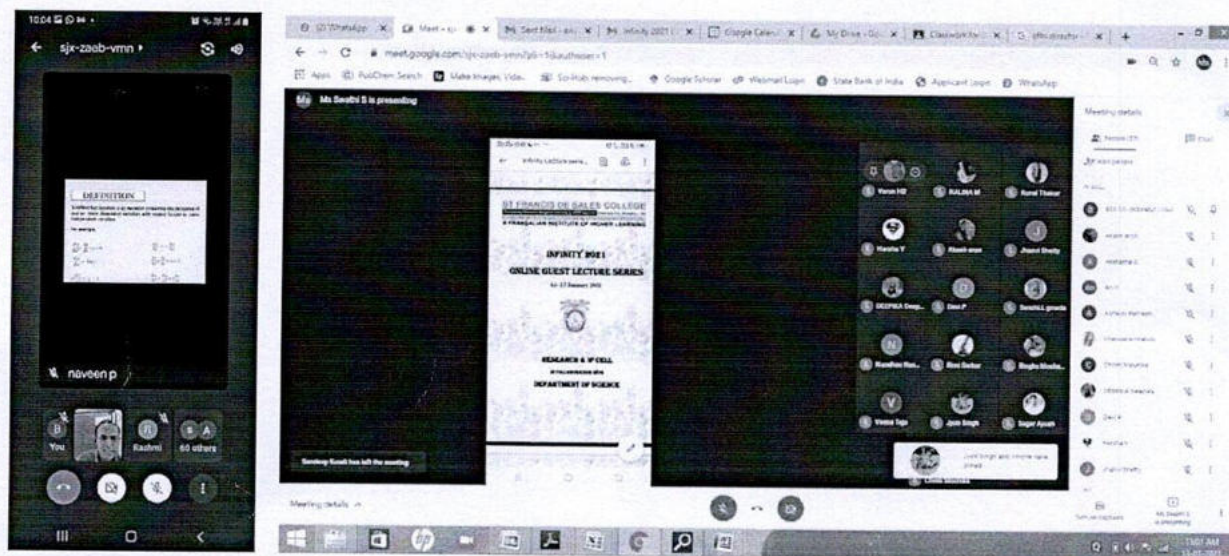
Tel.: 080-27836065 / 27834611, Fax: 080-27832299, Email: principal@sfscollege.in

www.sfscollege.in



Nanomedicines and drug delivery, Nanotechnology in food processing and nutrition. A active member of the society of bacteriophage research has received DST Nano mission Fellowship at Kuvempu University.

Ms. Swathi S. Assistant Professor, Department of Science welcomed and thanked the resource person. Dr. Ambika Nautiyal expressed the words of felicitation. The session was attended by I and III semester BSc (PCM) students.



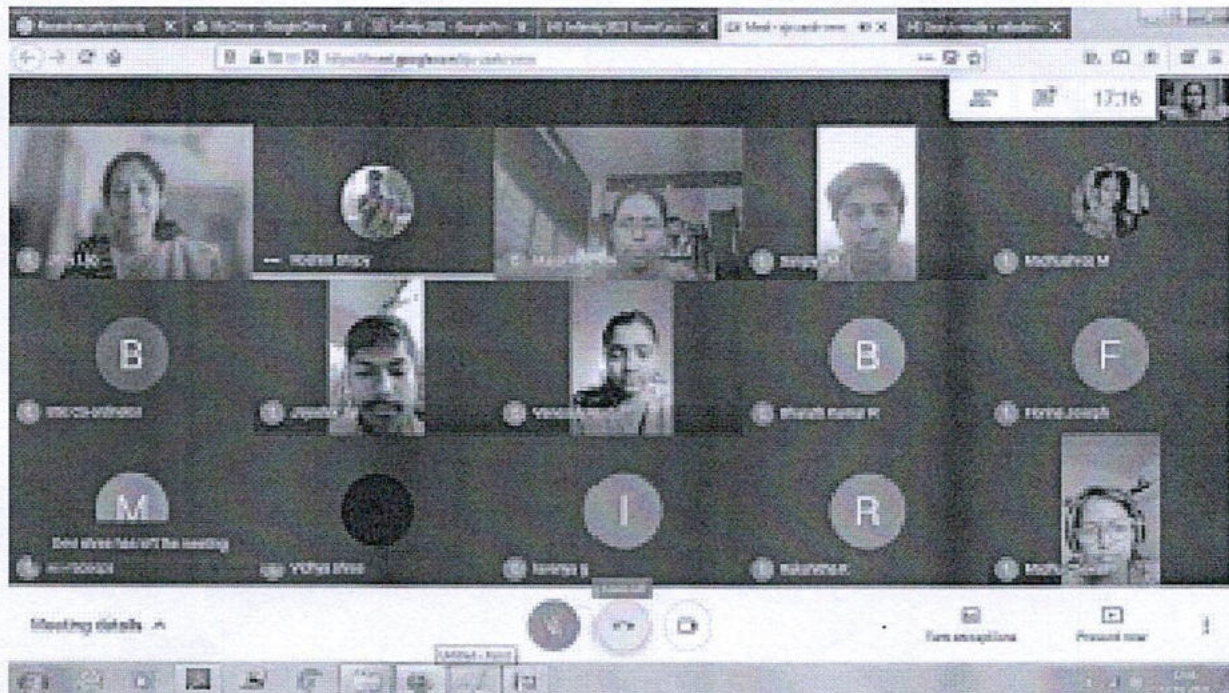
**Screen shots during the lectures by Mr. Naveen Kumar and Ms. Nalina Murthy**

The second lecture on 13<sup>th</sup> January 2021 was handled by Ms. Jithy Lijo, Assistant Professor in the Computer Science Department of Christ Academy Institute of Advanced Studies, Electronic City. Prof. Jithy spoke on “Basic Research Applications of Computer Science” with a special emphasis on Java Programming. Ms. Jithy is a dynamic teacher and researcher who is always engaged in activities to promote active learning among students. An Mphil holder with many publications has presented many papers in national and international conferences and seminars. Ms. Jithy is currently pursuing PhD in Computer Science from Christ University. The research areas of interest are Image processing, IOT, Machine Learning.

The session was conducted at 3.30 PM. Ms. Roshini Anne Koshy welcomed Ms. Jithy for the session. The session proved to be a hands on session on the applications of Java. A very interactive session in which students were motivated and experienced each and every details of Java



programming. Desalite Florina Joseph, BSc (CJP) compared the session and expressed the vote of thanks.

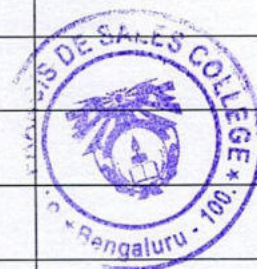


A screen shot of the session handled by Ms. Jithy Lijo

*Rajee*  
**PRINCIPAL**  
**St. Francis de Sales College**  
Electronics City Post, Bangalore - 560 100.

**List of Participants for Lecture 1**  
**“Role of differential equations in innovative Research”**

| Sl. No. | Name of the Student    | Register Number | Course, Class, Section | Remarks |
|---------|------------------------|-----------------|------------------------|---------|
| 1       | ASHOK KUMAR B          | 19MEC002T       | III SemBSc (MEC)       |         |
| 2       | CHAITHRA R             | 19MEC003K       | III SemBSc (MEC)       |         |
| 3       | CHALLA KISHAN CHOWDARY | 19MEC004E       | III SemBSc (MEC)       |         |
| 4       | HARSHITHA K            | 19MEC005K       | III SemBSc (MEC)       |         |
| 5       | HITHESH R              | 19MEC006K       | III SemBSc (MEC)       |         |
| 6       | KALAVATHI S            | 19MEC007K       | III SemBSc (MEC)       |         |
| 7       | MANOJ KUMAR G          | 19MEC008T       | III SemBSc (MEC)       |         |
| 8       | NAVYA G                | 19MEC009K       | III SemBSc (MEC)       |         |
| 9       | PUNITHA R              | 19MEC010K       | III SemBSc (MEC)       |         |
| 10      | ROJA E                 | 19MEC011K       | III SemBSc (MEC)       |         |
| 11      | SANDHYA V              | 19MEC012K       | III SemBSc (MEC)       |         |
| 12      | SANDROSE ALEXANDER     | 19MEC013M       | III SemBSc (MEC)       |         |
| 13      | SANJAY SINGH           | 19MEC014H       | III SemBSc (MEC)       |         |
| 14      | SHASHIKIRAN A          | 19MEC015K       | III SemBSc (MEC)       |         |
| 15      | SONIYA V               | 19MEC016K       | III SemBSc (MEC)       |         |
| 16      | SOUNDAR R              | 19MEC017K       | III SemBSc (MEC)       |         |
| 17      | SRIMANIGANDAN N        | 19MEC018E       | III SemBSc (MEC)       |         |
| 18      | SUJINPAUL S            | 19MEC019K       | III SemBSc (MEC)       |         |
| 19      | SUMIKSHA S             | 19MEC020K       | III SemBSc (MEC)       |         |
| 20      | VANDANA V              | 19MEC021K       | III SemBSc (MEC)       |         |
| 21      | YOGASATHISH S          | 19MEC022K       | III SemBSc (MEC)       |         |
| 22      | LIBIN S                | 19MEC023H       | III SemBSc (MEC)       |         |
| 23      | RASHMI                 | 19MEC024K       | III SemBSc             |         |



|    |                     |           | (MEC)               |  |
|----|---------------------|-----------|---------------------|--|
| 24 | ARUN M              | 19PCM003K | III SemBSc<br>(PCM) |  |
| 25 | ASHISH ROBIN BARA   | 19PCM004E | III SemBSc<br>(PCM) |  |
| 26 | AUXILIYA J P        | 19PCM005K | III SemBSc<br>(PCM) |  |
| 27 | BHAVANA RAJU RATHOD | 19PCM007H | III SemBSc<br>(PCM) |  |
| 28 | CHANDANA B S        | 19PCM009K | III SemBSc<br>(PCM) |  |
| 29 | DEEPTHI V           | 19PCM010K | III SemBSc<br>(PCM) |  |
| 30 | DEVI P              | 19PCM011K | III SemBSc<br>(PCM) |  |
| 31 | JHANVI S            | 19PCM013K | III SemBSc<br>(PCM) |  |
| 32 | JYOTHI G P          | 19PCM014K | III SemBSc<br>(PCM) |  |
| 33 | JYOTI SINGH         | 19PCM015E | III SemBSc<br>(PCM) |  |
| 34 | M DUNDAIAH          | 19PCM017K | III SemBSc<br>(PCM) |  |
| 35 | MALLIKARJUN K       | 19PCM018E | III SemBSc<br>(PCM) |  |
| 36 | MONISHA S           | 19PCM019K | III SemBSc<br>(PCM) |  |
| 37 | SAGAR B NALATAWADA  | 19PCM020K | III SemBSc<br>(PCM) |  |
| 38 | SANDEEP KURALI      | 19PCM021K | III SemBSc<br>(PCM) |  |
| 39 | SANTHOSHA           | 19PCM022K | III SemBSc<br>(PCM) |  |
| 40 | SWATHI L            | 19PCM024K | III SemBSc<br>(PCM) |  |
| 41 | VEENA H S           | 19PCM027K | III SemBSc<br>(PCM) |  |
| 42 | POOJASHREE N        | 19PCM029K | III SemBSc<br>(PCM) |  |
| 43 | SHALINI S SANGWAN   | 19PCM030K | III SemBSc<br>(PCM) |  |
| 44 | RIMI SARKAR         | 19PCM032E | III SemBSc<br>(PCM) |  |
| 45 | KUNAL THAKUR        | 19PCM034E | III SemBSc<br>(PCM) |  |
| 46 | CHAYASHREE K        | 19PCM036K | III SemBSc<br>(PCM) |  |
| 48 | VARUN H D           | 19PCM038K | III SemBSc<br>(PCM) |  |
| 49 | AKSHATHA C          | 20PCM001K | I Sem BSc<br>(PCM)  |  |



|    |                            |            |                    |  |
|----|----------------------------|------------|--------------------|--|
| 50 | ANCY E S                   | 20PCM002H  | I Sem BSc<br>(PCM) |  |
| 51 | ANKUSH S                   | 20PCM003K  | I Sem BSc<br>(PCM) |  |
| 52 | ASHWINI R                  | 20PCM004TA | I Sem BSc<br>(PCM) |  |
| 53 | BENITTO PRAKASH A          | 20PCM005K  | I Sem BSc<br>(PCM) |  |
| 54 | DEEPIKA D                  | 20PCM006K  | I Sem BSc<br>(PCM) |  |
| 55 | LIKITHA LAKSHMI N          | 20PCM008K  | I Sem BSc<br>(PCM) |  |
| 56 | NISHANTH KALYAN B          | 20PCM009K  | I Sem BSc<br>(PCM) |  |
| 57 | RAJU A                     | 20PCM010TA | I Sem BSc<br>(PCM) |  |
| 58 | ROSHNI KOLKAR              | 20PCM011H  | I Sem BSc<br>(PCM) |  |
| 59 | SHILPA K                   | 20PCM012K  | I Sem BSc<br>(PCM) |  |
| 60 | YAKSHITH C                 | 20PCM013K  | I Sem BSc<br>(PCM) |  |
| 61 | KANAKA T                   | 20PCM014K  | I Sem BSc<br>(PCM) |  |
| 62 | S PRAVEENSHREE THANUJA     | 20PCM015K  | I Sem BSc<br>(PCM) |  |
| 64 | BRINDA JENIFFER SANTINER R | 20MEC00TA  | I Sem BSc<br>(MEC) |  |
| 65 | DEVISHREE R V              | 20MEC002K  | I Sem BSc<br>(MEC) |  |
| 66 | HARSHA KUMAR V             | 20MEC003K  | I Sem BSc<br>(MEC) |  |
| 67 | LAVANYA G                  | 20MEC004K  | I Sem BSc<br>(MEC) |  |
| 68 | MALLESH N                  | 20MEC005TE | I Sem BSc<br>(MEC) |  |
| 69 | MANIKANTA R                | 20MEC006K  | I Sem BSc<br>(MEC) |  |
| 70 | SAHIL MOLLAH               | 20MEC007H  | I Sem BSc<br>(MEC) |  |
| 72 | MADHAN P S                 | 20MEC009K  | I Sem BSc<br>(MEC) |  |
| 73 | HARSHITH S                 | 20MEC010K  | I Sem BSc<br>(MEC) |  |
| 74 | NANDHINI G                 | 20MEC011TA | I Sem BSc<br>(MEC) |  |
| 75 | NITHIN M                   | 20MEC012E  | I Sem BSc<br>(MEC) |  |



**List of Participants for Lecture 2**  
**“Advances in Biochemical Research”**

| Sl. No. | Name of the Student | Register Number | Course, Class, Section | Remarks                |
|---------|---------------------|-----------------|------------------------|------------------------|
| 1       | ARUN M              | 19PCM003K       | III SemBSc (PCM)       | Attended Lecture 1 & 2 |
| 2       | ASHISH ROBIN BARA   | 19PCM004E       | III SemBSc (PCM)       | Attended Lecture 1 & 2 |
| 3       | AUXILIYA J P        | 19PCM005K       | III SemBSc (PCM)       | Attended Lecture 1 & 2 |
| 4       | BHAVANA RAJU RATHOD | 19PCM007H       | III SemBSc (PCM)       | Attended Lecture 1 & 2 |
| 5       | CHANDANA B S        | 19PCM009K       | III SemBSc (PCM)       | Attended Lecture 1 & 2 |
| 6       | DEEPTHI V           | 19PCM010K       | III SemBSc (PCM)       | Attended Lecture 1 & 2 |
| 7       | DEVI P              | 19PCM011K       | III SemBSc (PCM)       | Attended Lecture 1 & 2 |
| 8       | JHANVI S            | 19PCM013K       | III SemBSc (PCM)       | Attended Lecture 1 & 2 |
| 9       | JYOTHI G P          | 19PCM014K       | III SemBSc (PCM)       | Attended Lecture 1 & 2 |
| 10      | JYOTI SINGH         | 19PCM015E       | III SemBSc (PCM)       | Attended Lecture 1 & 2 |
| 11      | M DUNDAIAH          | 19PCM017K       | III SemBSc (PCM)       | Attended Lecture 1 & 2 |
| 12      | MALLIKARJUN K       | 19PCM018E       | III SemBSc (PCM)       | Attended Lecture 1 & 2 |
| 13      | MONISHA S           | 19PCM019K       | III SemBSc (PCM)       | Attended Lecture 1 & 2 |
| 14      | SAGAR B NALATAWADA  | 19PCM020K       | III SemBSc (PCM)       | Attended Lecture 1 & 2 |
| 15      | SANDEEP KURALI      | 19PCM021K       | III SemBSc (PCM)       | Attended Lecture 1 & 2 |
| 16      | SANTHOSHA           | 19PCM022K       | III SemBSc (PCM)       | Attended Lecture 1 & 2 |
| 17      | SWATHI L            | 19PCM024K       | III SemBSc (PCM)       | Attended Lecture 1 & 2 |
| 18      | VEENA H S           | 19PCM027K       | III SemBSc (PCM)       | Attended Lecture 1 & 2 |
| 19      | POOJASHREE N        | 19PCM029K       | III SemBSc (PCM)       | Attended Lecture 1 & 2 |
| 20      | SHALINI S SANGWAN   | 19PCM030K       | III SemBSc (PCM)       | Attended Lecture 1 & 2 |
| 21      | RIMI SARKAR         | 19PCM032E       | III SemBSc (PCM)       | Attended Lecture 1 & 2 |
| 22      | KUNAL THAKUR        | 19PCM034E       | III SemBSc (PCM)       | Attended Lecture 1 & 2 |
| 23      | CHAYASHREE K        | 19PCM036K       | III SemBSc (PCM)       | Attended Lecture 1 & 2 |



|    |                        |            |                   |                        |
|----|------------------------|------------|-------------------|------------------------|
| 24 | VARUN H D              | 19PCM038K  | III Sem BSc (PCM) | Attended Lecture 1 & 2 |
| 25 | AKSHATHA C             | 20PCM001K  | I Sem BSc (PCM)   | Attended Lecture 1 & 2 |
| 26 | ANCY E S               | 20PCM002H  | I Sem BSc (PCM)   | Attended Lecture 1 & 2 |
| 27 | ANKUSH S               | 20PCM003K  | I Sem BSc (PCM)   | Attended Lecture 1 & 2 |
| 28 | ASHWINI R              | 20PCM004TA | I Sem BSc (PCM)   | Attended Lecture 1 & 2 |
| 29 | BENITTO PRAKASH A      | 20PCM005K  | I Sem BSc (PCM)   | Attended Lecture 1 & 2 |
| 30 | DEEPIKA D              | 20PCM006K  | I Sem BSc (PCM)   | Attended Lecture 1 & 2 |
| 31 | LIKITHA LAKSHMI N      | 20PCM008K  | I Sem BSc (PCM)   | Attended Lecture 1 & 2 |
| 32 | NISHANTH KALYAN B      | 20PCM009K  | I Sem BSc (PCM)   | Attended Lecture 1 & 2 |
| 33 | RAJU A                 | 20PCM010TA | I Sem BSc (PCM)   | Attended Lecture 1 & 2 |
| 34 | ROSHNI KOLKAR          | 20PCM011H  | I Sem BSc (PCM)   | Attended Lecture 1 & 2 |
| 35 | SHILPA K               | 20PCM012K  | I Sem BSc (PCM)   | Attended Lecture 1 & 2 |
| 36 | YAKSHITH C             | 20PCM013K  | I Sem BSc (PCM)   | Attended Lecture 1 & 2 |
| 37 | KANAKA T               | 20PCM014K  | I Sem BSc (PCM)   | Attended Lecture 1 & 2 |
| 38 | S PRAVEENSHREE THANUJA | 20PCM015K  | I Sem BSc (PCM)   | Attended Lecture 1 & 2 |



**List of Participants for Lecture -3**  
**“Basic Research Applications of Computer Science”**

| Sl. No. | Name of the Student      | Register Number | Course, Class, Section | Remarks |
|---------|--------------------------|-----------------|------------------------|---------|
| 1       | AFREEN TAJ T             | 20CJP001H       | I Sem BSc (CJP)        |         |
| 2       | ASISHA VERGHESE          | 20CJP002H       | I Sem BSc (CJP)        |         |
| 3       | BHARATH KUMAR R          | 20CJP003K       | I Sem BSc (CJP)        |         |
| 4       | CHANDHANA C              | 20CJP004K       | I Sem BSc (CJP)        |         |
| 5       | D GOWTHAM                | 20CJP005TA      | I Sem BSc (CJP)        |         |
| 6       | K M DEEPSHIKHA           | 20CJP007H       | I Sem BSc (CJP)        |         |
| 7       | KUSUMA V                 | 20CJP008KA      | I Sem BSc (CJP)        |         |
| 8       | SANJAY M                 | 20CJP011K       | I Sem BSc (CJP)        |         |
| 9       | VANESSA GEORGE NADAR     | 20CJP013E       | I Sem BSc (CJP)        |         |
| 10      | RAVI L                   | 20CJP017TA      | I Sem BSc (CJP)        |         |
| 11      | NAMITHA SABURAJ          | 20CJP018H       | I Sem BSc (CJP)        |         |
| 12      | JAYADEV V                | 20CJP019K       | I Sem BSc (CJP)        |         |
| 13      | SAJITHA FATHIMA S        | 20CJP020K       | I Sem BSc (CJP)        |         |
| 14      | VINAY R                  | 20CJP021TA      | I Sem BSc (CJP)        |         |
| 15      | MOIN PASHA M             | 20CJP022 H      | I Sem BSc (CJP)        |         |
| 16      | THEKKANATH STEFFI JOSEPH | 20CJP023 E      | I Sem BSc (CJP)        |         |
| 17      | MADHU SHREE A CHARAN     | 20CJP024 E      | I Sem BSc (CJP)        |         |
| 18      | ARUN V                   | 20CJP025TA      | I Sem BSc (CJP)        |         |
| 19      | NOEL S                   | 20CJP026E       | I Sem BSc (CJP)        |         |
| 20      | ANKITHA S                | 20CJP027K       | I Sem BSc (CJP)        |         |
| 21      | ABIRAMI V                | 19CJP002T       | III Sem BSc (CJP)      |         |
| 22      | ARAVINTHA JINESH B S     | 19CJP003H       | III Sem BSc (CJP)      |         |
| 23      | DHARUN VIJAY R           | 19CJP005T       | III Sem BSc (CJP)      |         |
| 24      | FLORINA JOSEPH           | 19CJP006E       | III Sem BSc (CJP)      |         |
| 25      | GURUKIRAN R              | 19CJP007T       | III Sem BSc (CJP)      |         |
| 26      | JAGADISHWAR REDDY S      | 19CJP008K       | III Sem BSc (CJP)      |         |
| 27      | MADHUSHREE M             | 19CJP011K       | III Sem BSc (CJP)      |         |
| 28      | MATHEW ALAN X            | 19CJP013T       | III Sem BSc (CJP)      |         |
| 29      | MOHAMED TUFAIL M         | 19CJP014T       | III Sem BSc (CJP)      |         |
| 30      | MOHAMMED ADIL K          | 19CJP015H       | III Sem BSc (CJP)      |         |
| 31      | NANDEM MOHAN CHAITHANYA  | 19CJP016E       | III Sem BSc (CJP)      |         |
| 32      | NAVYA R                  | 19CJP017K       | III Sem BSc (CJP)      |         |
| 33      | PHILJOE JOSEPH           | 19CJP018M       | III Sem BSc (CJP)      |         |
| 34      | POOJA R T                | 19CJP019K       | III Sem BSc (CJP)      |         |
| 35      | SAHIL GEORGE KUNJUR      | 19CJP021E       | III Sem BSc (CJP)      |         |
| 36      | SAIKISHORE L             | 19CJP022T       | III Sem BSc (CJP)      |         |
| 37      | TEJA K                   | 19CJP026K       | III Sem BSc (CJP)      |         |
| 38      | V SAI RAM                | 19CJP028H       | III Sem BSc (CJP)      |         |

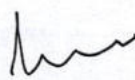
|    |                |           |                   |  |
|----|----------------|-----------|-------------------|--|
| 39 | VIDHYASHREE A  | 19CJP029K | III Sem BSc (CJP) |  |
| 40 | VIKAS E        | 19CJP030K | III Sem BSc (CJP) |  |
| 41 | HARSHITHA B S  | 19CJP032K | III Sem BSc (CJP) |  |
| 42 | JANHAVI M      | 19CJP033K | III Sem BSc (CJP) |  |
| 43 | JASHWANTH L    | 19CJP035K | III Sem BSc (CJP) |  |
| 44 | D BHUVANESHREE | 19CJP038K | III Sem BSc (CJP) |  |
| 45 | ROHIT V        | 19CJP040K | III Sem BSc (CJP) |  |
| 46 | SHASHIDHAR D E | 19CJP041K | III Sem BSc (CJP) |  |
| 47 | CHAITHRA K     | 19CJP042K | III Sem BSc (CJP) |  |
| 48 | JAYASHREE R    | 19CJP043K | III Sem BSc (CJP) |  |
| 49 | NANDINI Y      | 19CJP044H | III Sem BSc (CJP) |  |

\*Attach the excel generated from responses for feedback form

Link to excel sheet for Feed back forms

<https://docs.google.com/spreadsheets/d/1VWz6ID-n6jq6KYnWjLHfDEbr7noogblzrGiOT4HTR1M/edit?usp=sharing>

  
**PRINCIPAL**  
 St. Francis de Sales College  
 Electronics City Post, Bangalore

  
**COORDINATOR**  
 Research Cell  
 St. Francis de Sales College  
 Bengaluru - 560100