

**PG & RESEARCH DEPARTMENT OF CHEMISTRY AND  
PG & RESEARCH DEPARTMENT OF PHYSICS  
& JAMAL INSTRUMENTATION CENTRE**

*Report on*

**One-week Faculty Development Programme on  
Instrumentation of UV-Visible, FT-IR and FT-Raman Spectroscopy  
04.12.2023 to 08.12.2023**



**JAMAL MOHAMED COLLEGE (Autonomous)**  
Accredited with A++ Grade by NAAC (4<sup>th</sup> Cycle) with CGPA 3.69 out of 4.0  
(Affiliated to Bharathidasan University)  
**Tiruchirappalli-620 020**



**PG & RESEARCH DEPARTMENT OF CHEMISTRY AND  
PG & RESEARCH DEPARTMENT OF PHYSICS  
& JAMAL INSTRUMENTATION CENTRE  
JAMAL MOHAMED COLLEGE (Autonomous)  
TIRUCHIRAPPALLI-20**

**REPORT OF THE PROGRAMME**

**Name of the Department : Chemistry, Physics & Jamal Instrumentation Centre**

**Type of the Programme : FDP**

**Title of the Programme : Instrumentation of UV-Visible, FT-IR and FT-Raman Spectroscopy**

**Venue : Physics Seminar Hall and Jamal Instrumentation Centre**

**Dates : 04.12.2023 to 08.12.2023**

**Report**

PG and Research Department of Chemistry, PG and Research Department of Physics and Jamal Instrumentation Centre (JAMIC) of Jamal Mohamed College (Autonomous), Tiruchirappalli jointly organized a one-week Faculty development Programme on “**Instrumentation of UV-Visible, FT-IR and FT-Raman Spectroscopy**” from 04.12.2023 to 08.12.2023.

Inauguration of the programme commenced with the Welcome address by Dr. A. Mohamed Saleem, HOD of Physics. Dr. A. Ishaq Ahamed, Additional Vice-Principal delivered the Presidential address. Theme of the Faculty development Programme was emphasized by the Convener Dr. M. Purushothaman, Associate Professor of Chemistry. Dr. R. Ramesh, Professor of Chemistry, Bharathidasan University delivered the inaugural address. In his talk, he highlighted the significance of spectroscopy techniques and pointed out its applications in medicine and applied industries.

On second day of the programme, theory, working principle and sample preparation of UV-Visible spectrophotometer were explained by Dr. M. Anwar Sathiq, Associate Professor of Chemistry and Dr. N. Mujafarkani, Assistant Professor of Chemistry demonstrated the instrument handling methods, sample recording,

data acquisition and interpretation of the results. On 06.12.2023, third day of the programme, Dr. K. Loganathan, Associate Professor of Chemistry highlighted the working principle and instrumentation of FT-IR Spectroscopy. Dr. M. Purushothaman, Associate Professor of Chemistry trained the participants on instrument handling, spectrum recording and interpretation. On 4<sup>th</sup> Day of the programme, 07.12.2023, Mr. J. Umar Malik and Dr. A. Abbas Manthiri, Associate Professors of Physics were highlighted the working of Fourier Transform technique, Michelson interferometer of FT-Raman Spectrometer followed by hands-on training, sample recording and interpretation of data.

The valedictory session of the Faculty Development Programme was held on 08.12.2023. Convener of the programme Dr. A. Abbas Manthiri, Associate Professor of Physics presented the report of the faculty development programme. Dr. D.I. George Amalarethnam, Vice-Principal delivered the valedictory address. All the participants appreciated the strenuous efforts of the organizers; meticulous planning, clear presentation of the technical sessions; critical analysis of spectral data during the programme was a lively one. All the participants together have succeeded in their attempts to complete training here which helped them to maintain their scientific temper in research. Totally 35-participants have undergone training Programme from the Department of Botany, Chemistry, Microbiology, Nutrition & Dietetics, Physics, Zoology of our College and from Seethalakshmi Ramaswami College, Tiruchirappalli. Certificates were distributed to all the participants during the valediction.

Prior to the valediction, the participants were allowed to handle the instruments and to record their test samples in the spectrometers at free of cost. They got clear idea on interpretation of the results with consultation of the instrument experts.

Dr. A.R. Mohamed Shanavas, Dean of Science and Dr. A. Jafar Ahamed, Associate Professor of Chemistry felicitated the gathering in the august presence of Honorable Secretary & Correspondent Dr. A.K. Khaja Nazeemudeen, Hajee. M.J. Jamal Mohamed, Treasurer, Dr. K. Abdus Samad, Assistant Secretary, Dr. S. Ismail Mohideen,


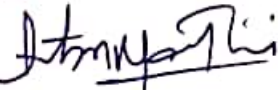
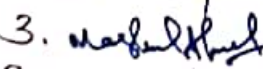
Principal, Dr. A.K. Abdul Kader Nihal, Member & Hon. Director, Dr. A.K. Mohamed Fazil, Director of Hostel Administration, Ms. J. Hajira Fathima, Director-Women Hostel,

Dr. M. Seeni Mubarak, Head of the Department of Chemistry, Dr. M. Syed Ali Padusha, Coordinator, IQAC. Finally convener Dr. F.M. Mashood Ahamed, Assistant Professor of Chemistry proposed a vote of thanks.

### Programme Outcomes:

On successful completion of the programme, the participants

- Well-versed in working principles of the instruments
- Experienced to handle the UV-Visible, FT-IR and FT-Raman Spectrometers using Standard operating procedures
- Familiarized Sensitivity and caution to the optical systems of the instruments
- Knew Data acquisition and interpretation of the results.

1.  (Dr. M. P. V. Subhakar)
  2.  (Dr. A. Abbas Manthi)
  3.  (Dr. F. M. Mashood Ahamed)
- Conveners of the Programme

  
Organising Secretary





Dr. A. Ishaq Ahamed, Additional Vice-Principal delivers presidential address



Conveners along with dignitaries



Dr. K. Loganathan, Associate Professor of Chemistry highlighted the working principle and instrumentation of FT-IR Spectroscopy.

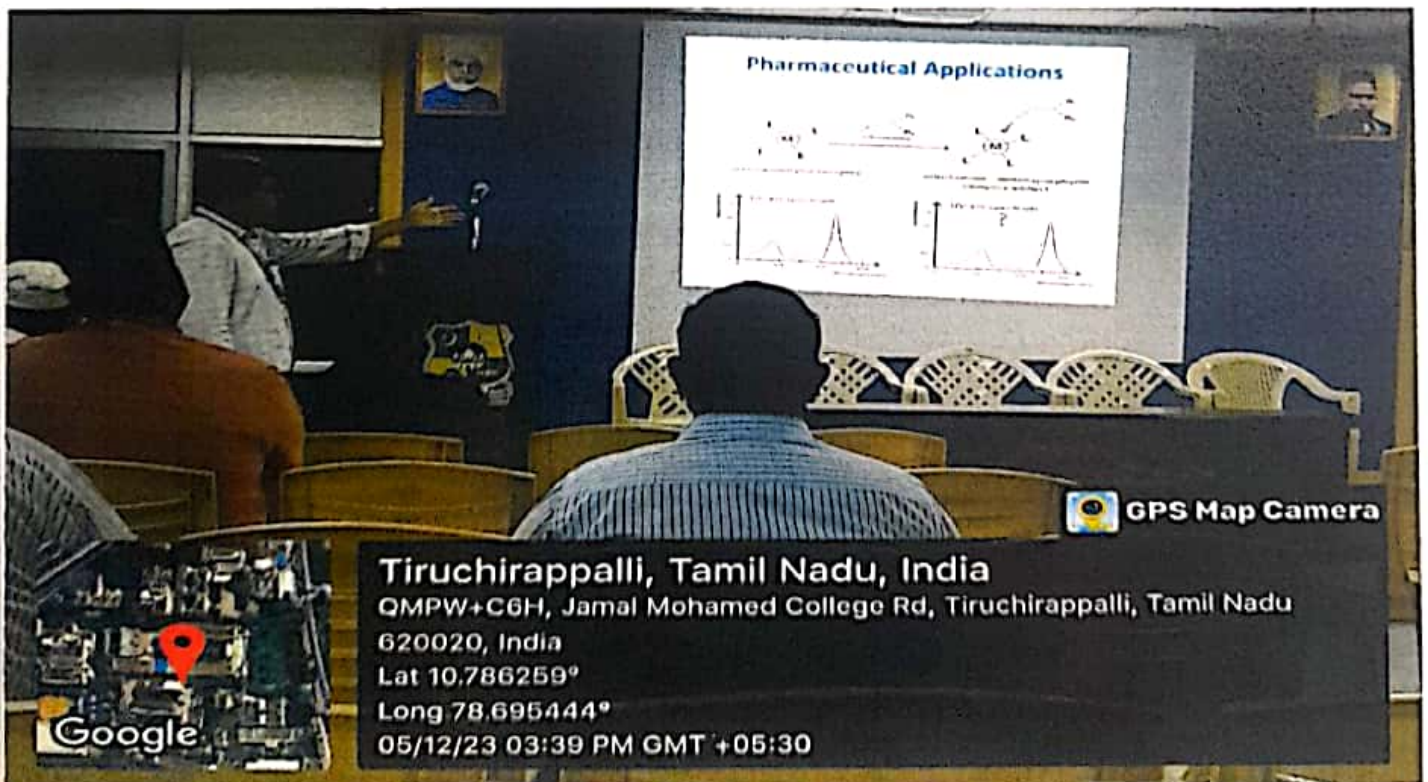


GPS Map Came



**Tiruchirappalli, Tamil Nadu, India**  
QMPW+886, Jamal Mohamed College Rd,  
Tiruchirappalli, Tamil Nadu 620020, India

Dr. M. Purushothaman, Associate Professor of Chemistry, trained the participants on instrument handling, spectrum recording and interpretation FT-IR



GPS Map Camera

Google

**Tiruchirappalli, Tamil Nadu, India**  
QMPW+C6H, Jamal Mohamed College Rd, Tiruchirappalli, Tamil Nadu  
620020, India  
Lat 10.786259°  
Long 78.695444°  
05/12/23 03:39 PM GMT +05:30

Dr. M. Anwar Sathiq, Associate Professor of Chemistry highlights the working principles of UV-Visible spectrophotometer



Dr. N. Mujafarkani, Assistant Professor of Chemistry demonstrated the instrument handling, data acquisition and interpretation UV-Visible spectrophotometer



Mr. J. Umar Malik, Associate Professors of Physics highlighted the working of Michelson interferometer of FT-Raman Spectrometer



**Tiruchirappalli, Tamil Nadu, India**  
QMPW+C6H, Jamal Mohamed College Rd, Tiruchirappalli, Tamil Nadu  
620020, India  
Lat 10.78627°  
Long 78.695468°  
07/12/23 03:17 PM GMT +05:30

Mr. J. Umar Malik, Associate Professors of Physics highlighted the working of Transform technique of FT-Raman Spectrometer



**Tiruchirappalli, Tamil Nadu, India**  
QMPW+C6H, Jamal Mohamed College Rd, Tiruchirappalli, Tamil Nadu

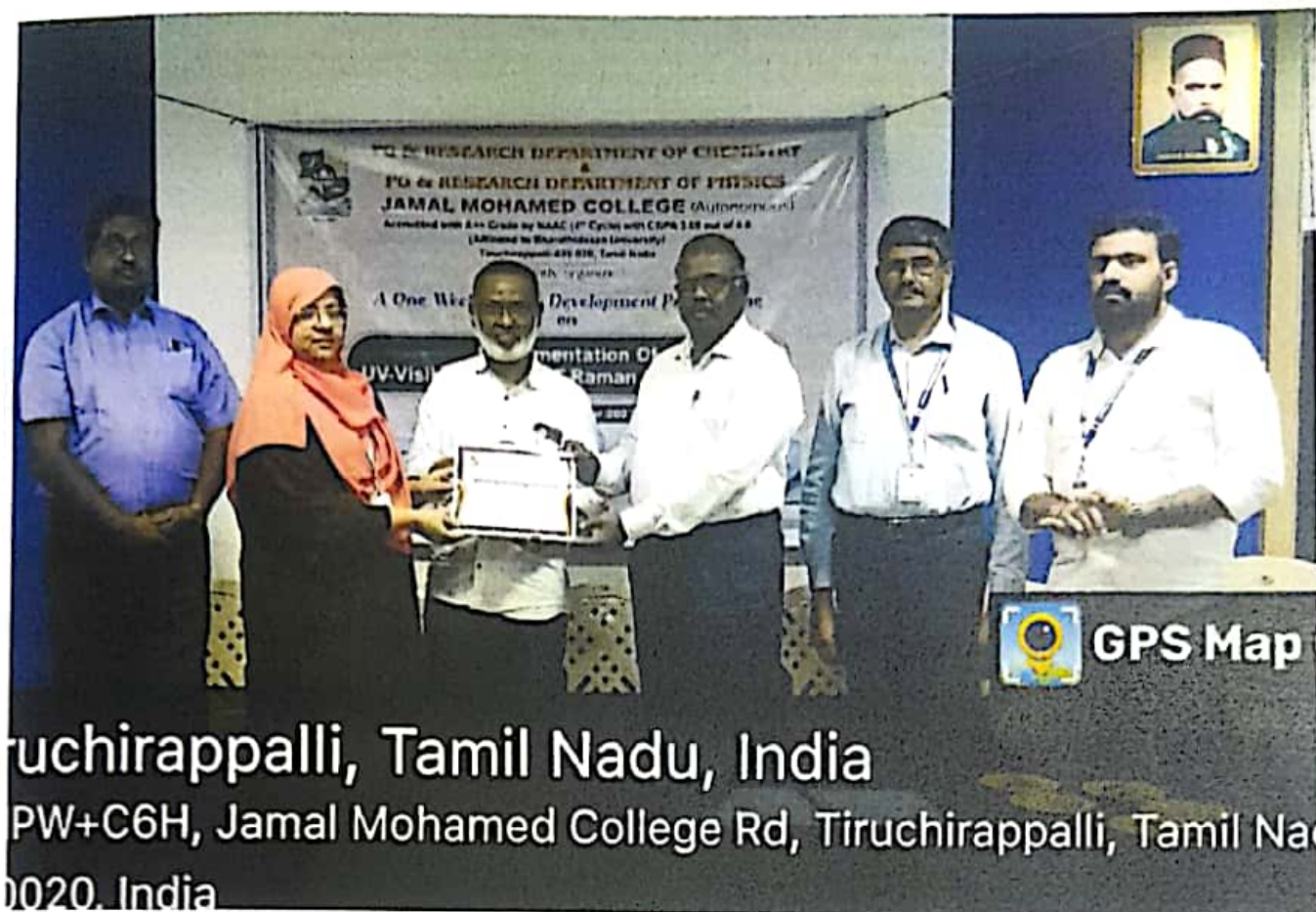
Dr. A. Abbas Manthiri, Associate Professors of Physics demonstrated FT-Raman Spectrometer hands-on training, sample recording



**Tiruchirappalli, Tamil Nadu, India**  
QMPW+C6H, Jamal Mohamed College Rd, Tiruchirappalli, Tamil Nadu

Dr. M. Purushothaman, Associate Professor of Chemistry explains the interpretation of FT Raman spectrograph





Tiruchirappalli, Tamil Nadu, India

PW+C6H, Jamal Mohamed College Rd, Tiruchirappalli, Tamil Nadu, India

Participants receiving certificate from the dignitaires



Participants receiving certificate from the dignitaires



**PG & RESEARCH DEPARTMENT OF CHEMISTRY  
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**Jointly organize**

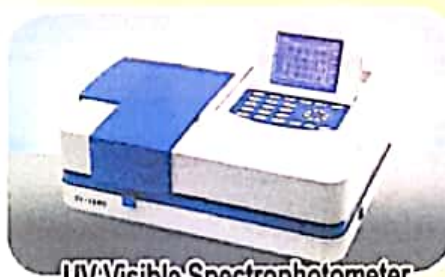
***Faculty Development Programme***  
**on**

**Instrumentation of  
UV-Visible, FT-IR & FT-Raman Spectroscopy**

**04.12.2023 to 08.12.2023**

**FDP COVERS**

- Theory**
- Sample Preparation**
- Hands - on Training**
- Sample Recording**
- Interpretation**
- Course Certificate**



UV-Visible Spectrophotometer



FT-IR Spectrometer



FT-Raman Spectrometer

**ONE SAMPLE CAN BE RECORDED AT FREE OF COST**

**FOR REGISTRATION:**

<https://forms.gle/dwSTGYAUH97jUjgt8>

Account No: 046702000000009

Jamal Mohamed College

IFSC: IOBA0000467

FOR REGISTRATION



**Registration  
Fee:**

**₹400/-**

**Amount paid by the Participants for the One Week Faculty Development Programme on Instrumentation of UV-Visible, FT-IR and FT-Raman Spectroscopy from 04.12.2023 to 08.12.2023**

| S. No | Name                        | Department            | Transaction                                  | Amount (INR) | Date         |
|-------|-----------------------------|-----------------------|--|--------------|--------------|
| 1.    | Dr. K. Mohamed Rafi         | Botany                | 170653                                       | 400          | 30/11/2023 ✓ |
| 2.    | Dr. R. Syed Moideen         | Botany                | 333443012640                                 | 400          | 30/11/2023 ✓ |
| 3.    | N. Vennila                  | Microbiology          | 333558174905                                 | 400          | 01/12/2023 ✓ |
| 4.    | A. Swedha                   | Microbiology          |  | 400          | 01/12/2023 ✓ |
| 5.    | Dr. M. Yaseen Mowlana       | Chemistry             | 333586084902                                 | 400          | 01/12/2023 ✓ |
| 6.    | Pragadeeswari G             | Physics               | 333537046824                                 | 400          | 01/12/2023 ✓ |
| 7.    | Dr. K. Mahmoodah Parveen    | Chemistry             | 333689032522                                 | 200          | 02/12/2023 ✓ |
| 8.    | MRS. G. Banu Karthi         | Chemistry             | 333660319307                                 | 200          | 02/12/2023 ✓ |
| 9.    | MRS. H. Asia Thabassoom     | Chemistry             | 370280697140                                 | 200          | 02/12/2023 ✓ |
| 10.   | Dr. A. Mushira Banu         | Chemistry             | 333631507024                                 | 200          | 02/12/2023 ✓ |
| 11.   | Dr. R. Arulnangai           | Chemistry             | 333671880212                                 | 200          | 02/12/2023 ✓ |
| 12.   | Dr. B. Arifa Farzana        | Chemistry             | 333642948202                                 | 200          | 02/12/2023 ✓ |
| 13.   | Dr. A. Samsathbegum         | Chemistry             | 333701271179                                 | 200          | 03/12/2023 ✓ |
| 14.   | Dr. Hema Sindhuja G         | Chemistry             | 214180                                       | 200          | 02/12/2023 ✓ |
| 15.   | M. Varusai Mohamed          | Chemistry             | T2312040727014973118318                      | 200          | 04/12/2023 ✓ |
| 16.   | Dr. A. Asrar Ahamed         | Chemistry             | 333846253394                                 | 200          | 04/12/2023 ✓ |
| 17.   | Dr. S. Mohamed Rabeek       | Chemistry             | T2312040845029449302950                      | 200          | 04/12/2023 ✓ |
| 18.   | Dr. S. K. Periyasamy        | Chemistry             | 333814793097                                 | 400          | 04/12/2023 ✓ |
| 19.   | MRS. G. Jayapriya           | Chemistry             | 333819567764                                 | 400          | 04/12/2023 ✓ |
| 20.   | L. Umaralikhan              | Physics               | 370408226985                                 | 400          | 04/12/2023 ✓ |
| 21.   | Dr. H. Mohamed Kasim Sheit  | Chemistry             | 333890832695                                 | 200          | 04/12/2023 ✓ |
| 22.   | M. Ragamath Ali             | Computer Science      | 370459541859                                 | 400          | 04/12/2023 ✓ |
| 23.   | Pradeep D                   | Botany                | 370441763004                                 | 400          | 04/12/2023 ✓ |
| 24.   | MR. S. Parthiban            | Botany                | 370477263310                                 | 400          | 04/12/2023 ✓ |
| 25.   | S. Sheerin                  | Nutrition & Dietetics | 333815237638                                 | 400          | 04/12/2023 ✓ |
| 26.   | Dr. I. Joseph Antony Jerald | Zoology               |  |              |              |
| 27.   | Dr. P. Rujasekar            | Zoology               | 370592482849                                 |              |              |
| 28.   | Dr. S. Mohamed Hussain      | Zoology               |  | 1200         | 05/12/2023 ✓ |
| 29.   | Ayisha Sukaina              | Nutrition & Dietetics | 370240461419                                 | 400          | 02/12/2023 ✓ |
| 30.   | Dr. J. Muneer Ahmadi        | Chemistry             | T2312062023170179296127<br>T2312062013500165 | 400          | 06/12/2023 ✓ |
| 31.   | Dr. A. Zahir Hussain        | Chemistry             | 334214693899                                 |              |              |
| 32.   | Dr. J. Sirajudeen           | Chemistry             |  |              | 08/12/2023 ✓ |
| 33.   | Dr. S. Farook Basha         | Chemistry             | 33392448899                                  |              | 05/12/2023 ✓ |

34 Mr. S. Md. Ibrahim Sultan  
set fly hand



5-12-2023

PG and Research Department of Chemistry  
&  
PG and Research Department of Physics  
Jamal Mohamed College (Autonomous), Tiruchirappalli

A one-week Faculty Development Programme  
on  
Instrumentation of UV-Visible, FT-IR & FT-Raman Spectroscopy

INAUGURATION

AGENDA

4<sup>th</sup> December 2023 (Monday) @ 2.30 p.m.

Venue: Physics Seminar Hall

Tamil Thai Vazhthu

**Welcome Address** : Dr. A. Jafar Ahamed  
Associate Professor of Chemistry

**Presidential Address** : Dr. S. Ismail Mohideen  
Principal, Jamal Mohamed College, Trichy

**Theme of the FDP** : Dr. M. Purushothaman  
Associate Professor of Chemistry

**Introduction of the Resource Person** : Dr. M. Syed Ali Padusha  
Associate Professor of Chemistry

**Keynote Address** : Dr. R. Ramesh  
Professor of Chemistry  
Bharathidasan University, Tiruchirappalli

**Topic: Application of Spectroscopy in Medicine & Material Science**

**Felicitations** : Dr. A.K. Khaja Nazeemudeen  
Secretary & Correspondent, Jamal Mohamed College  
**Hajee. M. Jamal Mohamed**  
Treasurer, Jamal Mohamed College  
**Dr. K. Abdus Samad**  
Assistant Secretary, Jamal Mohamed College  
**Dr. K.N. Abdul Kader Nihal**  
Member & Hon. Director, Jamal Mohamed College  
**Dr. D.I. George Amalarethinam**  
Vice-Principal, Jamal Mohamed College  
**Dr. A. Ishaq Ahamed**  
Addl. Vice-Principal, Jamal Mohamed College  
**Dr. A.J. Haja Mohideen**  
Addl. Vice-Principal, Jamal Mohamed College

**Vote of Thanks** : Dr. K. Loganathan  
Associate Professor of Chemistry

**National Anthem**

PG and Research Department of Chemistry  
&  
PG and Research Department of Physics  
Jamal Mohamed College (Autonomous), Tiruchirappalli

A one-week Faculty Development Programme  
on  
Instrumentation of UV-Visible, FT-IR & FT-Raman Spectroscopy

VALEDICTION

AGENDA

08<sup>th</sup> December 2023 (Friday) @ 04.00 p.m.

Venue: Physics Seminar Hall

Tamil Thai Vazhthu

- Welcome Address : Dr. M. Syed Ali Padusha  
Associate Professor, Chemistry
- Presidential Address : Dr. S. Ismail Mohideen  
Principal, Jamal Mohamed College, Trichy
- Report of the FDP : Dr. A. Abbas Manthiri  
Associate Professor of Physics
- Felicitations  
& Certificate Distribution : Dr. A.K. Khaja Nazeemudeen  
Secretary & Correspondent, Jamal Mohamed College  
Hajee. M. Jamal Mohamed  
Treasurer, Jamal Mohamed College  
Dr. K. Abdus Samad  
Assistant Secretary, Jamal Mohamed College  
Dr. K.N. Abdul Kader Nihal  
Member & Hon. Director, Jamal Mohamed College  
Dr. D.I. George Amalarethinam  
Vice-Principal, Jamal Mohamed College  
Dr. A. Ishaq Ahamed  
Addl. Vice-Principal, Jamal Mohamed College  
Dr. A.J. Haja Mohideen  
Addl. Vice-Principal, Jamal Mohamed College
- Vote of Thanks : Dr. F. M. Mashood Ahamed  
Assistant Professor of Chemistry

National Anthem

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*One-week Faculty Development Programme on  
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04.12.2023 to 08.12.2023*


**STATEMENT OF EXPENDITURE**

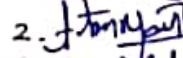
| S.No. | Credit          |                 | Debit  |              |
|-------|-----------------|-----------------|--|--------------|
|       | Particulars     | Amount<br>₹     | Particulars  | Amount<br>₹  |
| 01    | 35 Participants | -               | Chief Guest  | 750          |
| 02    | 20@ ₹400        | 8,000/-         | Shawl  | 350          |
| 03    | 14@ ₹200        | 2,800/-         | Kit (Pen, Scribbling Pad)                                | 318          |
| 04    |                 |                 | Honorarium for Resource Persons<br>(6 sessions @ ₹750/-) | 4,500        |
| 05    |                 |                 | Certificate design and Petrol                            | 200          |
| 06    |                 |                 | Certificate printing                                     | 640          |
| 07    |                 |                 | Water bottle   | 80           |
| 08    |                 |                 | Refreshment  | 2290         |
| 09    |                 |                 | Report Preparation                                       | 500          |
| 10    |                 |                 | Flex   | 950          |
|       | <b>Total</b>    | <b>10,800/-</b> | <b>Total</b>   | <b>10578</b> |

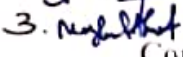
Balance Rupees: 222/- (Two hundred and twenty-two only)

  
Organizing Secretary



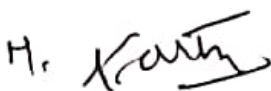
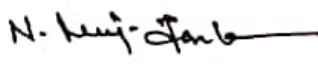
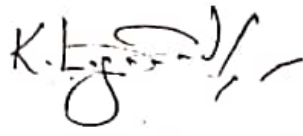

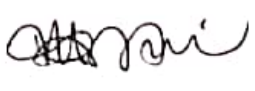
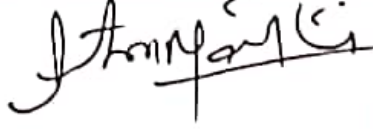
1.  (Dr. M. P. Prasad)

2.  (Dr. A. ABOT S. MANTHAN)

3.  (Dr. F. M. MASHA'AH)  
Convener

**PG and Research Department of Chemistry**  
**Jamal Mohamed College (Autonomous)**  
**Tiruchirappalli-620 020**

Received honorarium for serving as resource person in Faculty Development programme on UV-Visible, FT-IR and FT-Raman Spectroscopy from 4<sup>th</sup> to 8<sup>th</sup> December 2023.

| S. No. | Name and Designation  | Amount (Rs.) | Signature  |
|--------|---|--------------|--|
| 1.     | <b>Dr. M. ANWAR SATHIQ</b><br>Associate Professor<br>PG & Research Department of Chemistry<br>Jamal Mohamed College (Autonomous)<br>Tiruchirappalli-620 020.  | 750/-        |    |
| 2.     | <b>Dr. N. MUJAFARKANI</b><br>Assistant Professor<br>PG & Research Department of Chemistry<br>Jamal Mohamed College (Autonomous)<br>Tiruchirappalli-620 020.   | 750/-        |    |
| 3.     | <b>Dr. K. LOGANATHAN</b><br>Associate Professor<br>PG & Research Department of Chemistry<br>Jamal Mohamed College (Autonomous)<br>Tiruchirappalli-620 020.    | 750/-        |   |
| 4.     | <b>Dr. M. PURUSHOTHAMAN</b><br>Associate Professor<br>PG & Research Department of Chemistry<br>Jamal Mohamed College (Autonomous)<br>Tiruchirappalli-620 020. | 750/-        |  |
| 5.     | <b>Mr. J. UMAR MALIK</b><br>Assistant Professor<br>PG & Research Department of Physics<br>Jamal Mohamed College (Autonomous)<br>Tiruchirappalli-620 020.      | 750/-        |  |
| 6.     | <b>Dr. A. ABBAS MANTHIRI</b><br>Associate Professor<br>PG & Research Department of Physics<br>Jamal Mohamed College (Autonomous)<br>Tiruchirappalli-620 020.  | 750/-        |  |



One Week FDP (04.12.2023-08.12.2023)

ATTENDANCE

| S.No | Name                      | Designation         | 04.12.2023         | 05.12.2023         | 06.12.2023         | 07.12.2023         | 08.12.2023         |
|------|---------------------------|---------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| 1.   | Dr. K. MOHAMED RAFI       | Assistant Professor | <i>[Signature]</i> | <i>[Signature]</i> | <i>[Signature]</i> | <i>[Signature]</i> | <i>[Signature]</i> |
| 2.   | Dr. R. SYED MOIDEEN       | Assistant Professor | <i>[Signature]</i> | <i>[Signature]</i> | <i>[Signature]</i> | <i>[Signature]</i> | <i>[Signature]</i> |
| 4.   | N. VENNILA                | Assistant Professor | <i>[Signature]</i> | <i>[Signature]</i> | <i>[Signature]</i> | <i>[Signature]</i> | <i>[Signature]</i> |
| 5.   | Dr. M. YASEEN MOWLANA     | Assistant Professor | <i>[Signature]</i> | <i>[Signature]</i> | <i>[Signature]</i> | <i>[Signature]</i> | <i>[Signature]</i> |
| 6.   | PRAGADEESWARI G           | Assistant Professor | <i>[Signature]</i> | <i>[Signature]</i> | <i>[Signature]</i> | <i>[Signature]</i> | <i>[Signature]</i> |
| 7.   | Dr. K. MAHMOODAH PARVEEN  | Assistant Professor | <i>[Signature]</i> | <i>[Signature]</i> | <i>[Signature]</i> | <i>[Signature]</i> | <i>[Signature]</i> |
| 8.   | MRS. G. BANU KARTHI       | Assistant Professor | <i>[Signature]</i> | <i>[Signature]</i> | <i>[Signature]</i> | <i>[Signature]</i> | <i>[Signature]</i> |
| 9.   | MRS. H.ASIA THABASSOOM    | Assistant Professor | <i>[Signature]</i> | <i>[Signature]</i> | <i>[Signature]</i> | <i>[Signature]</i> | <i>[Signature]</i> |
| 10.  | Dr. A. MUSHIRA BANU       | Assistant Professor | <i>[Signature]</i> | <i>[Signature]</i> | <i>[Signature]</i> | <i>[Signature]</i> | <i>[Signature]</i> |
| 11.  | Dr.R.ARULNANGAI           | Assistant Professor | <i>[Signature]</i> | <i>[Signature]</i> | <i>[Signature]</i> | <i>[Signature]</i> | <i>[Signature]</i> |
| 12.  | Dr.B. ARIFA FARZANA       | Assistant Professor | <i>[Signature]</i> | <i>[Signature]</i> | <i>[Signature]</i> | <i>[Signature]</i> | <i>[Signature]</i> |
| 13.  | Dr. A. SAMSATHBEGUM       | Assistant Professor | <i>[Signature]</i> | <i>[Signature]</i> | <i>[Signature]</i> | <i>[Signature]</i> | <i>[Signature]</i> |
| 14.  | Dr. HEMA SINDHUJA G       | Assistant Professor | <i>[Signature]</i> | <i>[Signature]</i> | <i>[Signature]</i> | <i>[Signature]</i> | <i>[Signature]</i> |
| 15.  | M. VARUSAI MOHAMED        | Assistant Professor | <i>[Signature]</i> | <i>[Signature]</i> | <i>[Signature]</i> | <i>[Signature]</i> | <i>[Signature]</i> |
| 16.  | Dr. A. ASRAR AHAMED       | Assistant Professor | <i>[Signature]</i> | <i>[Signature]</i> | <i>[Signature]</i> | <i>[Signature]</i> | <i>[Signature]</i> |
| 17.  | Dr. S. MOHAMED RABEEK     | Assistant Professor | <i>[Signature]</i> | <i>[Signature]</i> | <i>[Signature]</i> | <i>[Signature]</i> | <i>[Signature]</i> |
| 18.  | Dr.S.K.PERIYASAMY         | Assistant Professor | <i>[Signature]</i> | <i>[Signature]</i> | <i>[Signature]</i> | <i>[Signature]</i> | <i>[Signature]</i> |
| 19.  | MRS.G.JAYAPRIYA           | Assistant Professor | <i>[Signature]</i> | <i>[Signature]</i> |                    |                    |                    |
| 20.  | L. UMARALIKHAN            | Assistant Professor | <i>[Signature]</i> | <i>[Signature]</i> | <i>[Signature]</i> | <i>[Signature]</i> | <i>[Signature]</i> |
| 21.  | Dr.H. MOHAMED KASIM SHEIT | Assistant Professor | <i>[Signature]</i> | <i>[Signature]</i> | <i>[Signature]</i> | <i>[Signature]</i> |                    |
| 22.  | M. RAGAMATH ALI           | Assistant Professor | <i>[Signature]</i> | <i>[Signature]</i> | <i>[Signature]</i> | <i>[Signature]</i> |                    |

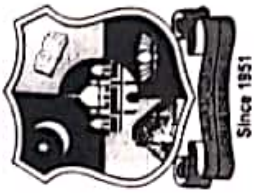




| S.No | Name                        | Designation                  | 04.12.2023 | 05.12.2023 | 06.12.2023 | 07.12.2023 | 08.12.2023 |
|------|-----------------------------|------------------------------|------------|------------|------------|------------|------------|
| 23.  | PRADEEP D                   | Others                       |            |            |            |            |            |
| 24.  | Mr. S. PARTHIBAN            | Others                       |            |            |            |            |            |
| 25.  | Ms. S. SHEERIN              | Assistant Professor          |            |            |            |            |            |
| 26.  | Ms. A. SWEDHA               | Assistant Professor          |            |            |            |            |            |
| 27.  | Dr. I. JOSEPH ANTONY JERALD | Associate professor and Head |            |            |            |            |            |
| 28.  | Dr. P. RAJASEKAR            | Assistant Professor          |            |            |            |            |            |
| 29.  | Dr. S. MOHAMED HUSSAIN      | Assistant Professor          |            |            |            |            |            |
| 30.  | AYISHA SUKAINA              | Assistant Professor          |            |            |            |            |            |
| 31.  | Dr. J. MUNEER AHAMATH       | Assistant Professor          |            |            |            |            |            |
| 32.  | Dr. A. ZAHIR HUSSAIN        | Associate professor          |            |            |            |            |            |
| 33.  | Dr. J. SIRAJUDEEN           | Associate professor          |            |            |            |            |            |
| 34.  | Dr. S. FAROOK BASHA         | Assistant Professor          |            |            |            |            |            |

35. Mr. S. MOHAMED IBRAHIM SULAIMAN SAIT Asst. prof of physics





**PG & RESEARCH DEPARTMENT OF CHEMISTRY  
PG & RESEARCH DEPARTMENT OF PHYSICS and  
JAMAL INSTRUMENTATION CENTRE**

**JAMAL MOHAMED COLLEGE (Autonomous)**

Accredited with A++ Grade by NAAC (4<sup>th</sup> Cycle) with CGPA 3.69 out of 4.0  
(Affiliated to Bharathidasan University)  
Tiruchirappalli-620 020, Tamil Nadu

**Faculty Development Programme  
on**

**Instrumentation of UV-Visible, FT-IR & FT-Raman Spectroscopy**

*Certificate*

This is to certify that **Dr. I. JOSEPH ANTONY JERALD, ASSISTANT PROFESSOR,**  
**DEPARTMENT OF ZOOLOGY, JAMAL MOHAMED COLLEGE**.....

..... has participated in the "Faculty Development Programme on Instrumentation of UV-Visible, FT-IR & FT-Raman Spectroscopy" from 4<sup>th</sup> to 8<sup>th</sup> December 2023, jointly organized by PG & Research Department of Chemistry, PG & Research Department of Physics and Jamal Instrumentation Centre, Jamal Mohamed College (Autonomous), Tiruchirappalli - 620 020.

**Dr. M. Seeni Mubarak**  
Organizing Secretary



**Dr. S. Ismail Mohideen**  
Principal