1. **Major activities and achievements** (Maximum 150 words)

The Department runs two PG courses namely, M.Tech. in Microwave Electronics and M.Sc. in Electronics. Besides these courses, the faculty members are actively engaged in research as well as supervision of research leading to the Ph.D degree in the field of optical electronics, semiconductors, microwaves and microelectronics. This year, the department has 43 publications in reputed journals and 20 conference presentations. Prof. Enakshi K. Sharma was visited Arctic University of Norway at Tromso, Norway, 26-30 June 2017. Prof. Mridula Gupta received IEEE EDS best Chapter of the year award in 2017. Under Erasmus Munduc Intact programme, Mr. Nikhil Dhingra visited at City, University of London from 2017, January to 2017, June and Mrs. Niharika Kohli visited Carleton University, Canada from 2018 February till date under Shastri Indo-Canadian programme. 54 PG students are passed and 4 Ph.D degrees are awarded. 47% M.Tech. and 25% M.Sc. passed students are placed and 11% students joined for higher studies.

Apart from this, the Department organizes the regular seminars, lectures and talks as extra curriculum activities. Prof. Mridula Gupta coordinated an Open House Project Presentation organized by IEEE WIE-Delhi on April 29th2017 at University of Delhi South Campus. She also coordinated a MiniColloquia organized by IEEE EDS-Delhi chapter On “Insights of Emerging Nanoscale Research Devices” on December 11, 2017 at Maharaja Agrasen Institute of Tehnology (Indraprastha University), Plot No. 1, Sector-22, PSP Area, Rohini, Delhi. Dr. H. Kaur coordinated a Workshop on VLSI Current Trends Using Mentor Graphics & Xilinx” jointly organized by Department and CoreEL TECHNOLOGIES with technically sponsored by IEEE EDS Delhi Chapter on 21-22 March, 2018 at University of Delhi South Campus. Annual visitors programme and Alumni meet are organized on 24 March, 2018, where talks are given by Mr. Anuj Mathur, Aricent, Gurgaon, Dr. P K Gupta, Visiting Professor, IIT Delhi and Dr. Mahesh Abegaonkar, IIT Delhi. Students of M.Tech. and M.Sc. went an educational trip to DEAL and IRDE, Dehradun.

2. **Honours/Distinctions**

NIL

3. **Publications**


4. Journals

- Published by the Department: NIL
- Number of Department teachers serving as Editor(s)/member(s) of Editorial Board: 2

2. Dr. Kamlesh Patel, Associate Editor, MAPAN-Journal of Metrology Society of India

5. Research Projects

<table>
<thead>
<tr>
<th>S. No.</th>
<th>Funding agency</th>
<th>Year/Period</th>
<th>Title</th>
<th>Amount sanctioned</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>UGC</td>
<td>2015 - till date</td>
<td>Physics Based Modeling and Simulation of Channel Material Engineered Ring FET for Sensing Applications <em>(Prof. Mridula Gupta: PI)</em></td>
<td>Rs. 13.93 Lakh</td>
</tr>
<tr>
<td>2</td>
<td>CSIR</td>
<td>2017 - till date</td>
<td>Modeling and Simulation of Gate Electrode Engineered and Dielectric Pocket steep Sub-threshold Swing Device for Low Power Digital Circuit Design and Optical Applications <em>(Prof. Mridula Gupta: PI)</em></td>
<td>Rs. 25 Lakh</td>
</tr>
</tbody>
</table>
6. Patents Filed/Granted
- NIL

7. Seminar Organized
1. Open House Project Presentation organized by IEEE WIE-Delhi on April 29th 2017 at Delhi University, South Campus (Prof. Mridula Gupta).
2. MiniColloquia organized by IEEE EDS-Delhi chapter On “Insights of Emerging Nanoscale Research Devices” on December 11, 2017 at Maharaja Agrasen Institute of Technology (Indraprastha University), Plot No. 1, Sector-22, PSP Area, Rohini, Delhi, 110086 (Prof. Mridula Gupta).
3. “Workshop on VLSI Current Trends Using Mentor Graphics & Xilinx” jointly organized by Department of Electronic Science University of Delhi South Campus and CoreEL TECHNOLOGIES (Technically sponsored by IEEE EDS Delhi Chapter) on 21-22 March, 2018 at University of Delhi South Campus (Dr. Harsupreet Kaur).

8. Conferences organized
- Nil.

9. Seminar/Conference Presentations


10. National/International MoUs Signed

- NOT APPLICABLE

11. Other Inter-institutional collaborations

- NOT APPLICABLE

12. Students under Exchanged Programme

1. Nikhil Dhingra at City, University of London from 2017, January to 2017, June under Erasmus Munduc Intact programme.

2. Niharika Kohli at Carleton University, Canada from 2018 February till date under Shastri Indo-Canadian programme.

13. Placement Details (Number and percentage of students placed)

- Number and percentage of students placed:

<table>
<thead>
<tr>
<th>Course</th>
<th>Number</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>M.Tech. (Microwave Electronics)</td>
<td>9 (3 DRDO Sponsored)</td>
<td>47%</td>
</tr>
<tr>
<td>M.Sc. (Electronics)</td>
<td>8 (4 higher studies)</td>
<td>25%</td>
</tr>
</tbody>
</table>

- Number of companies visited for campus recruitment: NIL

14. Extension and Outreach Activities (Prof. Enakshi K.Sharma & Mr. Amit Birwal ).

1. Annual visitors programme & Alumni meet on 24th March 2018
   - Speaker -1 Mr. Anuj Mathur, Aricent, Gurgaon
   - Speaker-2 Dr. P K Gupta, Visiting Professor, IIT Delhi (formerly at RRCAT, Indore)
   - Speaker-3 Dr. Mahesh Abegaonkar, IIT Delhi

2. Educational Trip
   From 4- 7th March 2018 at DEAL and IRDE, Dehradun

15. Numbers of M.Phil./Ph.D. Degrees Awarded

- M.Phil: Not applicable
- Ph.D.: 4

16. Faculty Strength

<table>
<thead>
<tr>
<th>Designation</th>
<th>Professor</th>
<th>Assistant Professor</th>
</tr>
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<tbody>
<tr>
<td>Number</td>
<td>3</td>
<td>4</td>
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</tbody>
</table>

17. Other Significant Information

NIL

Head of the Department