

## Curriculum vitae



Name : Dr. Vijay Baburao Huse  
Qualification : M.Sc. (Physics), PhD, SET  
Designation : Assistant Professor  
College : Shri Shivaji Science and Arts College, Chikhli  
Address : At-Deshgavhan, Tal-Ambad, Dist-Jalna  
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Date of Birth : 02/05/1981  
Date of joining : 21/09/2019  
Nationality : Indian

### **Academic Qualification Details :**

| Examination passed | College/ Institute                     | Board/ University             | Subject/ Specialization                   | Year of passing | Division/ Grade |
|--------------------|--|-------------------------------|---|-----------------|-----------------|
| S.S.C.             | Chhtrapati Sambhaji Vidyalaya, Wakulni | Aurangabad Divisional Board   | Marathi , Hindi, English, Math, Science   | 1998            | A               |
| H.S.C. (10+2)      | Shri S.B. College Jalna                | Aurangabad Divisional Board   | Physics, Chemistry, Biology, Mathematics  | 2000            | B               |
| B.Sc.              | Deogiri College Aurangabad             | Dr. B.A.M.U Aurangabad        | Physics, computer science and Mathematics | 2003            | B               |
| M.Sc.              | Dept. of Physics,                      | Dr. B.A.M.U. Aurangabad       | Physics                                   | 2005            | A               |
| Ph.D.              | School of Physics,                     | Devi Ahilya University Indore | Physics                                   | 2016            | -----           |
| MH-SET             | SPPU, Pune                             | SPPU, Pune                    | Physics                                   | 2019            | ----            |

Experience: Teaching : 3 years

Research : 5 years (including PhD)

Ph.D. Thesis Title : Theory of Electromagnet Undulator Radiation and Its Design Studies

Ph.D. Supervisor : Dr. G. Mishra (PhD, IIT Delhi)  
Professor, School of Physics,  
Devi Ahilya Vishwavidyalya (DAVV), Indore

Area of Research : Free Electron Laser and Undulator Technology

Paper Published :8

Paper Presented : International -2

Conference/Workshop Attended : International-2

### **Research Publications**

#### **1. Research Papers published in journals:**

| <b>Sr. No</b> | <b>Title</b>  | <b>Name of Authors as mentioned in paper</b>                 | <b>Journal, Vol. No., Page No. Year</b>  | <b>Impact Factor</b> | <b>ISSN/ ISBN No.</b> |
|---------------|---|--|--|----------------------|-----------------------|
| 1             | Optical klystron undulator radiation with electromagnetic wave undulator                      | Vijay Huse, N.B. Thakre, Bramh Prakash                       | Journal physics : conference series 2021   | -----                | 1742-6596             |
| 2             | Beat Frequency undulator radiation and harmonic generation                                    | Vijay Huse   | Physica Scripta 94 115506  | 1.985                | 1402-4896             |
| 3             | Analysis of spectral properties of harmonic undulator radiation of an electromagnet undulator | Bramh Prakash, Vijay Huse, Mona Gehlot, G. Mishra, S. Mishra | Optik-International journal for light and electron optics, Vol.127 (2016) p.1639   | 1.191                | 0030-4026             |
| 4             | Design and optimization of an electromagnet undulator   | Vijay Huse, Geetanjali Sharma, Swati Mishra, G. Mishra       | Optik-International journal for light and electron optics, Vol. 125 (2014) p. 4739 | 1.191                | 0030-4026             |

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|---|--|---|--|-------|-----------|
| 5 | Inclusion of finite permeability on design and optimization of an electromagnet undulator                          | Vijay Huse, Geetanjali Sharma, Swati Mishra, G. Mishra                          | Chinese Physics C Vol. 31, (2014) p. 034101-1                        | 2.944 | 1674-1137 |
| 6 | Inclusion of finite permeability on design and optimization of an electromagnet undulator                          | <b>Vijay Huse</b> , Geetanjali Sharma, Swati Mishra, G. Mishra                  | Chinese Physics Letter, Vol. 31, (2014) p. 034101-1.                 | 2.293 | 0256-307X |
| 7 | , “A polygon laser scanning micrometer for magnet size measurement studies”,                                       | R Khullar, G Mishra, G Sharma, B Prakash, M Gehlot, <b>V Huse</b> and S Mishra  | IOP Publishing, Journal of Instrumentations, Vol.9 (2014) p. T05003. | 1.121 | 1748-0221 |
| 8 | Studies on growth and characterization of ternary Cds1-xSex alloy thin films deposited by chemical bath deposition | J.B. Chuadhari, N.G. Deshpande, Y.G. Gudge, A. Ghosh, V.B. Huse, Ramphal Sharma | Applied Surface Science, Vol. 254 (2008) p.6810.                     | 7.392 | 0169-4332 |

## 2. Full Papers in Conference proceedings:

| Sr. No. | Name of Conference                                     | Level         | Title of Paper  | Name of Authors                           | Place & Date   | ISSN/ ISBN No. |
|---------|--|---------------|---|---|--|----------------|
| 1       | International Conference on Advances in Basic Sciences | international | Beat Frequency Undulator Radiation in Electromagnetic Undulator                     | Vijay Huse, Ramdas Huse and Bramh Prakash | February 7-9, 2019, Bahal, Dist-Bhiwani, Haryana, India. |                |
| 2       | International Conference on Advances in Basic Sciences | international | Small Period Electromagnet Undulator and Effect of Finite Conductor Width Variation | Vijay Huse, Ramdas Huse and Bramh Prakash | February 7-9, 2019, Bahal, Dist-Bhiwani, Haryana, India. |                |

### 3. Papers presented in Conferences / Seminar / Symposia / Workshop:

| Sr. No. | Title of Paper   | Title of Event   | Level         | Date                | Organizer  |
|---------|--|--|---------------|---------------------|--|
| 1       | Optical klystron undulator radiation with electromagnetic wave undulator | Second International Conference on Advances in Physical Sciences and Materials (ICAPSM 2021) | International | 12 -13, August 2021 | Department of Mechatronics, SNS College of Technology (SNSCT), Coimbatore. |

### 4. Conferences / Seminar / Symposia / Workshop Attended:

| Sr. No. | Theme  | Level         | Date                            | Organizer   |
|---------|--|---------------|---------------------------------|---|
| 1       | Science and technology of free electron laser        | international | 4-6 <sup>th</sup> December 2014 | School of Physics, Devi Ahilya University-                                      |
| 2       | Material Science, X-ray and Gamma ray Spectroscopies | National      | 29-30 <sup>th</sup> March 2017  | Department of Physics, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad |

### 5. Events Organized:

| Sr. No. | Events  | Level    | Funded By | Date                     | Position             |
|---------|---|----------|-----------|--------------------------|----------------------|
| 1       | Awareness Program on Energy Audit and Its Importance  | College  | -----     | 14/01/2022               | Organizing secretary |
| 2       | Awareness Program IPR and Patenting System.   | College  | -----     | 13/01/2022               | Organizing secretary |
| 3       | C.V. Raman Lecture Series on Modern Physics   | college  | -----     | 22/02/2021 to 27/02/2021 | Coordinator          |
| 4       | A Lecture on, "Fun with optics" on the occasion of physics association  | college  | -----     | 01/03/2021               | Coordinator          |
| 5       | Use of the Virtual Laboratory in Teaching and Learning  | national | -----     | 09/08/2021 to 10/08/2021 | Organizing Secretary |
| 6       | poster competition for undergraduate students for science, arts and commerce faculty on Energy Awareness and Environmental Conservation | state    | -----     | 12th March 2020          | Member               |

### 6. Reviewer of journal

1. Scientific journals (scientific.net)