

# RESUME'



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**Dr. VINOD KUMAR YADAV**

**M.Sc., Ph.D. (Maths), NET (LS),  
NET (JRF, SRF) CSIR, GATE**

**Qualities: Simple, Honest, Truthful, Hardworking & 09 years teaching experience.**

## 2. ACADEMIC QUALIFICATIONS:

EXAM	COLLEGE / BOARD	YEAR	SUBJECT	DIVISION	%
Ph.D.	VSSD PG College / CSJMU Kanpur	2014	Mathematics	Awarded on a Topic 'A Study of Harish- Chandra Algebras of Matrices'	
GATE	IIT, Guwahati	February 2010	Mathematics	All India Rank-75	
NET JRF	CSIR, New Delhi	December 2008	Mathematics	JRF CSIR	
NET	CSIR, New Delhi	June 2008	Mathematics	NET (LS) CSIR	
M. Sc.	VSSD PG College / CSJMU Kanpur	2006	Mathematics	SECOND	59.00 %
B.Sc.	PPN PG College / CSJMU Kanpur	2002	Physics, Chemistry, Mathematics	FIRST	64.59 %
12 <sup>th</sup>	BPMG Inter College / UP Board Allahabad	1999	Hindi, English, Physics, Chemistry, Maths	FIRST	72.00 %
10 <sup>th</sup>	BPMG Inter College / UP Board Allahabad	1997	Hindi, English, Biology, Social Science, Maths-2 Science-2	FIRST	68.50 %

### **3. AWARDS:**

**Best Teacher Award-2020** given by Rama University Uttar Pradesh, Kanpur & Bioved Research Institute of Agriculture Technology and Sciences, Prayagraj in the field of Mathematics on the occasion of 'National Conference on Technical Approaches for Enhancement of Employment and Income in Agriculture' on 02 – 04<sup>th</sup> March, 2020.

### **4. RESEARCH PAPERS:** Total: 9

1. Vinod Kumar Yadav, "*Harish-Chandra Formula for the Product of Dirac-Matrices*", Journal Purvanchal Academy of Sciences, vol.14, pp.114-126 (2008). ISSN 0972-3498
2. Vinod Kumar Yadav, "*On a Tensor Quantity Involved in Harish-Chandra Formula for the Product of Dirac-Matrices*", Journal International Academy of Physical Sciences, vol.13(4), pp.451-464 (2009). ISSN 0974-9373
3. Vinod Kumar Yadav, "*A Note on the form of Wave Equation used in Harish-Chandra's paper 'Motion of an Electron in the Field of a Magnetic Pole'*", Ultra Scientist of Physical Sciences, vol.24 No.(1)A, pp.19-26 (2012). ISSN 0970-9150 Impact Factor: 2.98
4. Vinod Kumar Yadav, "*A Note on the Tensor form of Characteristic Equation of  $4 \times 4$  Matrix used in Harish-Chandra's paper 'Algebra of Dirac-Matrices'*", American Journal of Mathematics and Sciences, vol.1, No.1, pp.201-208 (2012). ISSN 2250-3102  
Impact Factor: 0.927
5. Vinod Kumar Yadav, "*A Note on the form of Jacobi Polynomial used in Harish-Chandra's Paper 'Motion of an Electron in the Field of a Magnetic Pole'*", e-Journal of Science & Technology, vol.7, No.1, pp.55-63 (2012). ISSN 1790-5613
6. Vinod Kumar Yadav, "*Some Concepts used in the Study of Harish-Chandra Algebras of Matrices*", International Journal of Engineering Science & Advanced Research, vol.1, No.1, pp.134-139 (March 2015). ISSN 2395-0730
7. Vinod Kumar Yadav, "*A Study of Relativistic Wave Equation of Electron*", International Journal of Engineering Science & Advanced Research, vol.1, No.3, pp.232-234 (September 2015). ISSN 2395-0730
8. Rati Bajpai & Vinod Kumar Yadav, "*Mathematical modeling of the filtering granular*", JUNI KHYAT JOURNAL, vol-10, Issue-6, No.11, pp.68-77 (June 2020). ISSN 2278-4632  
UGC Care Group I, Impact Factor: 6.625
9. Vinod Kumar Yadav, "*A Study of Harish-Chandra: A Kanpur Born Distinguished Mathematician of the World*", JUNI KHYAT JOURNAL, vol-10, Issue-7, No.4, pp.93-98 (July 2020). ISSN 2278-4632 UGC Care Group I, Impact Factor: 6.625

## 5. LIST OF FDPs & WORKSHOPS: Total: 17

1. **Attended** Prof. P.N. Tandon Memorial Week-ends Lecture Series (Saturdays and Sundays) on “**Modelling and Computing**” organized by Department of Mathematics, HBTI, Kanpur (U.P.) during **Feb. 18 to March 18, 2012 (one month)**.
2. **Attended** **SIR S. Ramanujan Memorial Work-Shop/Lecture Series in “National Mathematical Year 2012” (sponsored by CSIR)** organized by Department of Mathematics, DAV College, Kanpur(U.P.) during **18<sup>th</sup> to 22<sup>nd</sup> December, 2012(one week)**.
3. **Attended** the Faculty Development Programme (FDP) organized by Department of Applied Sciences and Humanities (Faculty of Engineering and Technology), Rama University Uttar Pradesh, Kanpur (U.P.) on **25th January, 2016(one day)**.
4. **Attended** the International Workshop on “**Education Technology & Green ICT**” organized by Faculty of Engineering and Technology, Rama University Uttar Pradesh, Kanpur (U.P.) on **9th March, 2016 (one day)**.
5. **Attended** the Faculty Development Programme (FDP) on “**7 Habits of Highly Effective Teachers**” organized by Faculty of Commerce & Management, Rama University, Uttar Pradesh, Kanpur (U.P.) on **30th April, 2016 (one day)**.
6. **Attended** the **OneWeek** Faculty Development Programme (FDP) on “**Sustainable Management: New Dimensions for Enhanced Capabilities of Educators**” organized by Faculty of Commerce & Management, Rama University Uttar Pradesh, Kanpur (U.P.) from **17th July to 22<sup>nd</sup> July, 2017 (one week)**.
7. **Participated** in the **2 days Workshop** on “**Need and Relevance of Research Methodology**” organized by Faculty of Agriculture and Allied Industries, Rama University Uttar Pradesh, Kanpur (U.P.) during **1-2nd April, 2019 (two days)**.
8. **Attended** the online **OneWeek** Faculty Development Programme (FDP) on “**Application of different Tools and Techniques for Academic and Research Writing & Reporting**” organized by R. R. Institute of Modern Technology, Lucknow from **18 to 23 May, 2020 (one week)**.
9. **Attended** the **1 day online Virtual Workshop** on “**Modeling, Simulation and Implementation using MATLAB and Simulink (MSIMS-20)**” organized by R. R. Institute of Modern Technology, Lucknow from **30th May, 2020 (one day)**.
10. **Attended** the **OneWeek (seven days) online national Workshop** on “**Research Methodology**” organized by Magadh University, Bhod Gaya from **01 to 07 June, 2020 (one week)**.
11. **Attended** the online **OneWeek** Faculty Development Programme (FDP) on “**Udbhav: A lecture series to facilitate creative learning**” organized Magadh University, Bhod Gaya from **12 to 17 June, 2020 (one week)**.
12. **Attended** the online **OneWeek** Faculty Development Programme (FDP) on “**Pedagogy of Scientific Writing, Reporting and Scholarly Network**” organized by Feroze Gandhi Institute of Engineering and Technology, Raebareli from **19 to 23 June, 2020 (one week)**.

13. **Attended** the online **OneWeekInternational** Faculty Development Programme (FDP) on “**Post Pandemic Scenario Building using AI, ML and Optimization Techniques (PPSB-AIMLOT-2020)**” organized by KDK College of Engineering, Nagpur (Accredited by NBA & NAAC) from **10 to 14 July, 2020 (one week)**.
14. **Participated** in the online **2 days National Workshop** on “**Origin of Mathematics in Vedas and Its Different Dimensions**” organized by Gautam Buddha University and Siksha Sanskriti Utthan Nyas from **18 to 19<sup>th</sup> July, 2020 (two days)**.
15. **Attended** the online **OneWeek** Faculty Development Programme (FDP) on “**Emerging Trends, Issues and Challenges in Next-Generation Technology**” organized by Faculty of Engineering and Technology, Rama University Uttar Pradesh, Kanpur (U.P.) from **20 to 24<sup>th</sup> July, 2020 (one week)**.
16. **Attended** the online **OneWeek** Faculty Development Programme (FDP) on “**Artificial Intelligence**” organized by Bansal Institute of Engineering and Technology, Lucknow from **19 to 25<sup>th</sup> July, 2021 (one week)**.
17. **Attended** the online **OneWeek** Faculty Development Programme (FDP) on “**Amalgamation of Technical Pedagogy and Methodology for Effective Teaching-Learning Outcome**” organized by Faculty of Engineering and Technology, Rama University Uttar Pradesh, Kanpur (U.P.) from **03 to 07<sup>th</sup> August, 2021 (one week)**.

#### 6. **LIST OF ATTENDED CONFERENCES & PAPER PRESENTED:** Total: 11

1. **Attended** the seminar and **Presented a paper** entitled ‘**On a Tensor Quantity Involved in Harish-Chandra Formula for the Product of Dirac-Matrices**’ in a two days (**Jan.31 and Feb.01, 2009**) national seminar in Mathematics on “**Mathematics & its Application to Industries**” organized by Department of Mathematics D.B.S. College, Kanpur (U.P.).
2. **Attended** the National conference in Mathematics on “**National Conference on Mathematical Modelling and Computer Simulation**” organized by Bhabha Group of Institutions, Kanpur (U.P.) during **July 7-9<sup>th</sup>, 2011**.
3. **Attended** **Regional Rural Science Congress** on “**Innovations in Science and Technology for Inclusive Development**” organized by Indian Science Congress Association, Kanpur Chapter (U.P.) during **23<sup>rd</sup> and 24<sup>th</sup> November, 2013**.
4. **Attended** the conference and **Presented a paper** entitled “**A Study of Relativistic Wave Equation of Electron**” in national conference on “**Trends in Signal Processing & Computing**” organized by Faculty of Engineering and Technology, Rama University Uttar Pradesh, Kanpur during **19-20<sup>th</sup> September, 2015**.
5. **Attended** the National conference and **Presented a paper** entitled “**A Note on the form of Indicial Equation used in Harish-Chandra’s Paper ‘Motion of an Electron in the Field of a Magnetic Pole’**” in national conference on “**Current Advances in Science & Technology (CAST 2016)**” organized by Department of Applied Sciences and Humanities (Faculty of Engineering and Technology), Rama University Uttar Pradesh, Kanpur on **19<sup>th</sup> March, 2016**.
6. **Attended** the **International** conference and **Presented a paper** entitled “**A Study of Harish-Chandra Algebras of Dirac and Meson Matrices**” in International conference on

**“Engineering Science & Advance Research (ESAR-18)”** organized by Faculty of Engineering and Technology, Rama University Uttar Pradesh, Kanpur during **23-24th February, 2018.**

7. **Attended** the **2<sup>nd</sup>International conference** and **Presented a paper** entitled **“A note on the form of Harish-Chandra Formula for the product of Dirac matrices”** in International conference on **“Engineering Science & Advance Research (ESAR-19)”** organized by Faculty of Engineering and Technology, Rama University Uttar Pradesh, Kanpur (U.P.) during **13-15th March, 2019.**
8. **Attended** the **International conference** and **Presented a paper** entitled **“A note on Representation of Numbers, Function & Transformation”** in International conference on **“Artificial Intelligence & Robotics in Life Sciences (ICAR2020)”** organized by Faculty of Engineering and Technology, Rama University Uttar Pradesh, Kanpur during **29-30th November, 2019.**
9. **Attended** the National conference in Mathematics on **“National Conference on Mathematical Structures and Models in Science”** Under Aegis of Silver Jubilee Celebration of International Academy of Physical Sciences (IAPS) organized by Department of Mathematics, Nehru Gram Bharati University, Prayagraj (U.P.) during **23-24<sup>th</sup> November, 2019.**
10. **Attended** the **International conference** and **Presented a paper** entitled **“A note on Harish-Chandra Formula”** in International conference on **“Advanced Nanomaterials (ICAN2020)”** organized by Faculty of Engineering and Technology, Rama University Uttar Pradesh, Kanpur during **27-29th February, 2020.**
11. **Attended** the online **International conference** in Mathematics entitled **“Recent Advances in Mathematics & Covid-19”** organized by Department of Mathematics and Statistics & IQAC, St. Joseph’s College for Women(A), Visakhapatnam, Andhra Pradesh during **15-16th June, 2020.**

**12. Total Attended One day Webinars during lockdown & post lockdown 2020: 17**

**7. COMPUTER PROFICIENCY:**

1. Six month computer training in private institute.
2. Knowledge of Internet & M.S. Office.
3. Basic knowledge of **C-programming.**

**8. TEACHING EXPERIENCE:**

**Total: 9 years**

1. Teaching experience in Mathematics U.G. Evening classes in **V.S.S.D.P.G. College, Kanpur (NAAC ‘A’ Grade College)** as a **Part time lecturer** in session **2006-07, 2007-08, 2008-09 and 2013-2014.**
2. Teaching experience in Mathematics B.Tech. classes in **Dr.B.R.A.E.C.I.T., Bijnor (at HBTU Campus, Kanpur)** as a **Guest Faculty** in session **2014-2015 (One & half month).**

3. **Six years and two & half months** teaching experience in Mathematics, B.Tech., M.Tech., BSc(BT), BSc(AG), Polytechnic & BPharma classes in **Rama University Uttar Pradesh, Kanpur** (UGC recognized Private University) as a **Assistant Professor** since **16-09-2014 to 30-11-2020**.
4. Teaching Experience in **Department of Mathematics, UIET, CSJM University, Kanpur** in **BTech, MSc(Maths), MSc(Life Science)** as a **Guest Lecturer** since **04-01-2021 to 30-09-2021 (Nine months)**.

**9. FELLOWSHIP & RESEARCH EXPERIENCE:**

**Total: 4 years**

1. V.S.S.D. College fellowship (scholarship) in M.Sc. (Final) in session 2005-06.
2. Junior Research Fellowship (**NET-JRF**) of **CSIR**, 1<sup>st</sup> July 2009 - 30<sup>th</sup> June 2011.
3. Senior Research Fellowship (**NET-SRF**) of **CSIR**, 1<sup>st</sup> July 2011 – 31<sup>st</sup> March 2013.

**10. MEMBERSHIP:**

Life member of **Journal International Academy of Physical Sciences**.

**11. OTHER EXPERIENCES:**

1. **BTech, BSc & Diploma Class Coordinator&Mentor** in FET, Rama University, Kanpur in 2015-16, 2016-17, 2017-18, 2018-19 & 2019-20.
2. **Worked** as “**Active Member of Organizing Committee**” and “**Sponsorship Committee**” in national conference on “**Trends in Signal Processing & Computing (TSPC-15)**” organized by Faculty of Engineering and Technology, Rama University Uttar Pradesh, Kanpur during **19-20th September, 2015**.
3. **Worked** as “**Active Member of Organizing Committee**” and “**Sponsorship Committee**” in 1<sup>st</sup> National conference on “**Current Advances in Science & Technology (CAST-2016)**” organized by Department of Applied Sciences and Humanities (Faculty of Engineering and Technology), Rama University, Uttar Pradesh, Kanpur on **19th March, 2016**.
4. **Worked** as “**Active Member of Organizing Committee**” and “**Sponsorship Committee**” in 1<sup>st</sup> International conference on “**Engineering Science & Advance Research (ESAR-18)**” organized by Faculty of Engineering and Technology, Rama University Uttar Pradesh, Kanpur (U.P.) during **23-24th February, 2018**.
5. **Worked** as “**Active Member of Organizing Committee**” and “**Discipline Committee**” in 2<sup>nd</sup> International conference on “**Engineering Science & Advance Research (ESAR-19)**” organized by Faculty of Engineering and Technology, Rama University Uttar Pradesh, Kanpur during **13-15th March, 2019**.
6. **Supervisor** of one PhD research scholar in **Mathematicssince 2019** session in Rama University, Kanpur.
7. **Internal Member** of **BOS** (Board of Studies) for syllabus modification in Rama University, Kanpur.

8. Worked as “Active Member of Discipline Committee” in International conference on “Artificial Intelligence & Robotics in Life Sciences (ICAR2020)” organized by Faculty of Engineering and Technology, Rama University Uttar Pradesh, Kanpur during **29-30th November, 2019**.
9. Worked as “Active Member of Organizing Committee” and “Discipline Committee” in International conference on “Advanced Nanomaterials (ICAN2020)” organized by Faculty of Engineering and Technology, Rama University Uttar Pradesh, Kanpur during **27-29th February, 2020**.
10. Worked as “Active Member of Organizing Committee” in the online 1 week Faculty Development Programme (FDP) on “Emerging Trends, Issues and Challenges in Next-Generation Technology” organized by Faculty of Engineering and Technology, Rama University Uttar Pradesh, Kanpur (U.P.) from **20 to 24<sup>th</sup> July, 2020**.

## **12. PERSONAL PROFILE:**

**Name:** Dr. Vinod Kumar Yadav  
**Date of birth:** 08-11-1983  
**Marital status:** Married

**Father’s Name:** Shri Ram Gopal Yadav  
**Brother & Sister** One Younger Brother(service in Indian Air Force on the rank of Sergeant) & no sister

**Permanent Address:** Village- Meghanipurawa, Post- Chaubepur Dist.- Kanpur (Nagar)  
Pin-209203 (U.P.)

**Family Occupation:** Farming  
**Nationality:** Indian  
**Cast:** Yadav (OBC)  
**Language Known:** Hindi, English  
**Mobile No.:** 09198893117  
**E-mail:** vinodkumaryadav3@gmail.com  
**Qualities:** Simple, Honest, Truthful, Hardworking  
**Hobbies:** Cooking and Studying Mathematics

**Date :** 08-11-2021

**(Dr. Vinod Kumar Yadav)**