

## **Dr. Amit Kumar Khaskalam**

Department of Information Technology, Guru Ghasidas Vishwavidyalaya, (Central University), Bilaspur 495009

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**Administrative Experience** in Guru Ghasidas Vishwavidyalaya, (Central University), Bilaspur.

- **Director, GGV Startup Foundation (GSF),**
- **Co-coordinator of DST-Inclusive Technology Business Incubator (DST-iTBI\_GGV),** Supported by Department of Science & Technology, Gol.
- **Co-coordinator of DST-Technology Enabling Centre (TEC),** Supported by Department of Science & Technology, Gol.
- **Assistant-coordinator of SAMARTH a project** is in implementation phase in Guru Ghasidas University. It is developed by Institute of Informatics and Communication, University of Delhi South Campus (IIC UDSC) as per the direction of MHRD.
- **Member of Incubation Centre** , Guru Ghasidas Vishwavidyalaya, Bilaspur.
- **Core Committee Member of Integrated University Management System(IUMS):** Successfully implemented A ERP solution- **Integrated University Management System** in the university from 2012 to 2020 with **21 modules** like **Examination module, Finance module, HR module, Inventory module.**
- **Assistant Nodal Officer to Campus Connect :**
  - Designed, developed, implemented and maintaining the Wi-Fi facility in the university campus to make Wi-Fi campus under the project **Campus-Connect** of Ministry of Human Resources, Govt. of India till 2020.
  - Designed , developed, implemented and maintaining the **National Knowledge Network (NKN)** with **460 nodes** spread over in 50 departments in the university campus with the speed of **1 Gbps.**
- **Assistant Dean Students Welfare (ADWS):**
  - Successfully Coordinated the Students activities like Tech-Fest of Institute of Technology, Cultural fest of different departments, Insurance of students, Scholarships of students, Welfare schemes of students, Student's council meetings etc. of around 7000 students in the campus from 2014 to 2018
  - Assisting the Dean Student Welfare in different students supports activities and students related administrative activities.
- **Member of Institute- Industry Interaction cell of University:** Developing the modules for Institute and Industry interaction for providing the opportunities to develop practical orientation of the subject and skill development of students. Organizing the Industry visit for students, Interaction with Industry personals.
- **Election Officer of Student's Council Election:** Successfully conducted student's council elections from 2012 to 2019 as an Election officer.
- **Teacher Member of Alumni Cell of University -** Successfully organized the different alumni activities like Alumni meet, Motivational Lectures by Alumni, Placement activity by alumni etc. in different departments of the university from 2015 to 2022.
- **Nodal Officer for Laptops/ Tablets/Mobile Distribution.**
  - Successfully distributed the Laptops to Final Year students of Engineering & MCA students from 2014.to 2018
  - Successfully distributed the Tablets to Final Year students from 2015-16 and 2016-17.
  - Successfully distributed the Smart Mobile phones to All eligible students of session 2017-18 of University. Total 4845 mobiles distributed.
- **Member of anti-ragging committee** from 2004 to 2009 of Institute of Technology, GGV

- **Member of Disciplinary committee** of Institute of Technology, GGV.  
Convener Disciplinary committee of SOS Engineering & Technology for Session 2019-2025
- **Examination Discipline Committee (EDC):**  
Successfully maintained the Discipline of Examination among all the students of **09 schools** and **33 Departments** of the university from session 2012-13, 2013-14 and 2014-15 as member of EDC.
- **Superintendent of Examination:**
  - Successfully Conducted **End Semester Examinations** of School of Engineering & Technology for session 2002-03, 2005-06, 2006-07 and 2011-12 as Superintendent of Examination.
  - Successfully Conducted **Vishwavidyalaya Entrance Test (VET) (VET-2010, VET-2011, VET2012, VET 2013 & VET 2014, VET 2015, VET 2016, VET 2017)** as Superintendent of Examination.
- **Convener, Central Valuation:**  
Successfully completed the valuation of **End semester examination answer books** of all the branches available in three Engineering colleges affiliated to the university for session 2007-08 and 2008-09 as Convener.
- **Assistant Superintendent of Examination:**  
Successfully Conducted UGC - **National Eligibility Test (NET)** examination as Assistant Superintendent of Examination for session 2013-14 and 2014-15.
- Successfully conducted **End Semester Examinations** of School of Engineering & Technology for session 2000-01,, 2001-02 as Assistant Superintendent of Examination.
- **Chairman of Board of studies:**  
Successfully completed **two tenure as Chairman of Board of studies** of Information Technology from 2009 to 2016. Design and implemented **Choice Based Credit System (CBCS)** for B. Tech. Information Technology students from session 2015-16..
- **Member of Board of studies**  
Contributed as member of Board of Studies for Information Technology from 2000 to 2009 and implemented **AICTE model Scheme & Syllabus** for Information Technology Students from 2002-03.
- **Head, Department of Information Technology from July 2000 to March 2017**
- First program coordinator of e-class room in 2003.
- Member of IT Cell

#### □ **Teaching& Research Experience:**

- **Research Publications :**
  - Papers Published in **International/ National Journals** **14**
  - Papers presented in **International conferences/Workshops** **11**
  - Papers presented in **National Conferences/workshops** **09**
  - Edited a book **“Electronic Materials & Devices “** with ISBN-10 81 88342-18-1/@2007
- **Teaching :**
  - **UG** – More than **26** years teaching experience for BE & B Tech students
  - **PG-** More than **12** years teaching experience for M.Tech., M.Sc. (Physics),M.Sc. (IT), and MCA
- **Organized Academic activities** in the University  
Successfully Organized the following Academic Activities in the University.
  - Organized **Two days National Ideathon** organized by TEC, GGV as **Co-Convenor** on 18-19 March 2024
  - Organized **National seminar on IPR AWARENESS PROGRAM FOR ACADEMIA & INDUSTRY** as **co-coordinator** on 22 March 2024.
  - Organized National conference on **Advances in Electronic Materials and Devices** as **Organizing Secretary** on March 5-6,2006.

- Organized **A National seminar on “ Technology for sustainable development Perspectives & strategies”** as a **Organizing Secretary** on January 6-7, 2007.
- Organized **3<sup>rd</sup> National conference on Advances in Electronic Materials & Devices (AEMD-07)** as a **Organizing Secretary** on March 25-26, 2007.
- Participated in **International Conference on “Interdisciplinary Approaches in Physical Sciences : Growing Trends and Recent advancement “** as a **Member of Organizing committee** on January 12-14, 2008.
- Organized **A National conference on Information security: Practices & Challenges (ISPC-08)** as a **Convener** on February 9-10, 2008.
- Organized **6<sup>th</sup> Chhattisgarh Young Scientist congress** as a **Co- convener** on February 28-29, 2008.

#### List of Papers Published by Amit K Khaskalam

1. Integrating Machine Learning and Deep Learning in Material Science: A comprehensive review on Methods, Applications, Tools.  
International Research Journals of Science, Engineering and Technology Vol 15 (2025) 60-75.  
**Amit Kumar Khaskalam** and Prem Nath Kamlesh
2. Lightweight Elliptical Curve Cryptography for Data Confidentiality with Output Feedback Mode  
Wesleyan Journal of Research, Vol 13 No 2 (2020) 77-84.  
**Amit Kumar Khaskalam**, Abhishek Jain, S Umesh Chandra and Rahul Kumar
3. Relaxed structural properties of Al nano-cluster : Theory  
AIP Vol 1536 (2013) 217-218.  
**Amit Kumar Khaskalam and B D Diwan**
4. Size Effect on the Cohesive Energy of Palladium Nanoparticle  
Proceeding of International conference on Research in Condensed Matter Physics, (2013) 60-62  
**Amit Kumar Khaskalam and B D Diwan**
5. Thermo Mechanical Properties of  $DyP_{1-x}As_x$  Solid Solution.  
Proceeding of International conference on Research in Condensed Matter Physics, (2013) 77- 80.  
**Amit Kumar Khaskalam and B D Diwan**
6. Anisotropic superconducting state parameters of Tl 2212 superconductors  
**Amit Kumar Khaskalam**, R.K.Singh and Dinesh Varshney  
Proc. 43<sup>rd</sup> DAE Solid state Physics symposium, JP29 Dec. 27-31, 2000 Organised by  
Guru Ghasidas University, Bilaspur. (Chhattigarh)
7. Analysis of specific heat in  $YBa_2Cu_3O_{7-\delta}$  ceramic superconductors.  
**Amit K. Khaskalam**, Dinesh Varshney and R.K.Singh  
Physica status solidi (b) (1998) **206**, 02.
8. Effect of oxygen deficiency on the normal state resistivity of  $Yba_2Cu_3O_{7-d}$  Superconductors.  
**Amit Kumar Khaskalam**, Dinesh Varshney, and R.K.Singh  
Bull. Mat. Sci. Vol. **21** (1998) 457.
9. On the Effect of oxygen deficiency variation with transition temperature in (Y,Sm,Er)  $Ba_2Cu_3O_{7-\delta}$  superconductors.  
**Amit Kumar Khaskalam**, R.K.Singh, and Dinesh Varshney  
Bull. Mat. Sci. Vol. **20** (1997) 259.
10. Role of acoustic phonon and plasmon in a coupled array of planes and chains in  $YBa_2Cu_3O_{7-\delta}$  Superconductors.  
**Amit Kumar Khaskalam** , Dinesh Varshney, and R.K.Singh  
Materials Science Forum Vol. **223-224** (1996) 365.
11. Effect of oxygen deficiency (d) on transition temperature of yttrium cuprate superconductors.  
**Amit Kumar Khaskalam**, R.K.Singh and Dinesh Varshney  
Bull. Mat. Sci. Vol. **19** (1996) 737.

## Papers Presented in International conferences

1. Thermoelectric Power of Zinc Nanowires composites : Phonon scattering Mechanism  
Amit Khaskalam with K K Choudhary, Dinesh varshney and R K Singh  
International conference on Advances in Nanotechnology Nov. 06-08,2008, MATS University, Raipur.
2. A model for efficient and secure outsourcing Database services.  
Amit Khaskalam with Rajesh mahule& R K Singh  
International conference: Tenth Conference of International Academy of Physical Sciences (CONIAPS-X)  
Jan 12-14, 2008, Guru Ghasidas University, Bilaspur.
3. Phonons and spin fluctuations Exchange paring of cuprates  
**Amit K. Khaskalam** with R.K.Singh and Dinesh Varshney  
International Conference on Phonons in condensed materials. Jan.2-23, 2003, Barkatullah University, Bhopal
4. Oxygen deficiency dependence of Normal state Resistivity of Y-Ba-Cu-O superconductors.  
**Amit Khaskalam** with R K Singh & Dinesh Varshney  
VII Asia Pacific Physics Conference Beijing China , 1997 .
5. Effect of impurity doping on transition temperature of  $Y_{1-x}Pr_xBa_2Cu_3O_{7-\delta}$ .  
**Amit K. Khaskalam** with R.K.Singh and Dinesh Varshney  
International workshop on high temperature superconductivity Dec. 16-21, 1996 held at University of Rajasthan, Jaipur.
6. Role of acoustic phonon and plasmons in a coupled array of planes and chains in  $YBa_2Cu_3O_{7-\delta}$  superconductors.  
**Amit K. Khaskalam** with R.K.Singh and Dinesh Varshney  
International seminar on "Current Developments in Disordred Materials" E- 15,  
Jan. 20-24, 1996 held at Kurukshetra University, Kurukshetra.
7. Effect of temperature and oxygen ordering on normal state resistivity of  $YBa_2Cu_3O_{7-\delta}$ .  
**Amit K. Khaskalam** with R.K.Singh and Dinesh Varshney  
International conference on " Strong Correlated Electron Systems"(1995) P-24 Sept.  
27-30,1995 held at Goa Organised by TIFR, Mumbai.
8. Thermal and themoelectric properties of Yttrium cuprate superconductors.  
**Amit K. Khaskalam** with R.K.Singh and Dinesh Varshney  
International Conference on The Physics of Disordered Materials (1997) D-16 Jan. 27- 29,  
1997 Organised by University of Rajasthan, Jaipur.

## Papers presented in National Conferences.

1. Size dependence Effective Band Gap in Silicon Nano film  
Amit khaskalam with B.D.Diwan and Avinashkhaskalam  
National Seminar on Nanomaterials : Synthesis and Application (NSNSA) 4-6, Marsh 2013 P-95, organized  
by Dept. of Physics, Govt. PG college, Chindwada M.P.
2. Effective Encryption on Limited Devices  
Amit Khaskalam with Renu Trivedi, Vijay K and shiv Kumar  
National conference on Information security : Practices & Challenges (ISPC-08) Feb. 9-10, 2008 organized  
by Department of Information Technology, GGV, Bilaspur
3. A Manufacturing Business Process Reengineering Method: Using Object Oriented Methodology called TAD  
Amit Khaskalam with Renu Trivedi, Vijay K and shiv Kumar  
National conference on Information security : Practices & Challenges (ISPC-08) Feb. 9-10, 2008 organized  
by Department of Information Technology, GGV, Bilaspur
4. A Pioneer Compression Technique for Databases  
Amit Khaskalam with Sushil Kumar, Shiv Kumar  
National conference on Information security : Practices & Challenges (ISPC-08) Feb. 9-10, 2008 organized  
by Department of Information Technology, GGV, Bilaspur
5. Data Mining approach for Intrusion detection  
Amit Khaskalam with Renu Trivedi, Shiv Kumar, Monika Bhatanagar  
National conference on Information security : Practices & Challenges (ISPC-08) Feb. 9-10, 2008 organized  
by Department of Information Technology, GGV, Bilaspur.

6. Secure Our Computer By “Data Bank”  
Devendra Singh and Amit Khaskalam  
National seminar on Technology for sustainable development – perspective & strategies” organized by Institute of technology, Guru ghasidas University, Bilaspur during January 6-7, 2007.
7. Anisotropic superconducting state parameters of TI 2212 superconductors  
**Amit K. Khaskalam** with R.K.Singh and Dinesh Varshney  
Proc. 43<sup>rd</sup> DAE Solid state Physics symposium, JP29 Dec. 27-31,2000Organised by Guru Ghasidas University, Bilaspur. (Chhattigarh)
8. Study of the anisotropy superconducting state parameters of TI based superconductors.  
**Amit K. Khaskalam** with R.K.Singh and Dinesh Varshney  
National seminar “Condensed Matter Days – 2000, O-VII-91 (29-31August, 2000), Organised by Guru Ghasidas University, Bilaspur.
9. Effect of oxygen ordering on transition temperature of  $ABa_2Cu_3O_{7-\delta}$  (A= Y, Yb, Sm) Superconductors.  
**Amit K. Khaskalam** with R.K.Singh and Dinesh Varshney  
Proc. Solid state Physics symposium **37C**, 369 Dec. 27-31 1994Organised by University of Rajasthan, Jaipur.

#### Attended Workshops / Short term courses / Industrial Training

S.No.	Programme	Duration	Organised By
01	Workshop on distributed Laboratory Instrumentation systems	3 weeks (20 Oct -14 Nov. 2003)	ICTP, Italy
02	Attended the short term Course on “ Intelligent Control “	01 week ( March 19-23, 2005),	IIT, Kanpur at NIIT, Raipur
03	Short term programme on “ Repair of UPS, Printers & CRO”	1 week (20-24 June 2005)	NITTTR, Chandigarh
04	Short term Programme on “ Embedded Systems “	1 week ( 6-10 feb 2006)	NITTTR, Chandigarh
05	Short term programme on “ Computer Network “	1 week ( 17-21 July 2006)	IIT, Kanpur & Govt. of CG
06	Short term programme on “ Digital Signal Processing “	1 week ( 17-21 July 2006)	IIT, Kanpur & Govt. of CG
07	Short term course on “Oracle 9i administration “	1 week ( 10 <sup>th</sup> -15 <sup>th</sup> Dec. 2006 )	IIT, Kanpur & Govt. of CG
08	Workshop on “Development of self Learning Materials”	22 <sup>nd</sup> -24 <sup>th</sup> Dec. 2006	Pt. sundarlal Sharma (Open) University Bilaspur
09	Workshop on “Research Methodology in science : Managing Quality in Research & Identification of thrust Area “	29 <sup>th</sup> Sep. to 1 Oct. 2007	Department of Pure & Applied Physics, GGV
10	Entrepreneurship Educator Orientation Program	07-11 March, 2022	EDII, Ahmedabad
11	Cyber Crime and Forensic tools	23-05-2022 to 27-05-2022	NITTTR , Chandigarh Online
12	Industrial Training on Data Science, AI, Machine Learning using Python	15-09-2023 to 16010-23.	Academy of Skill Development

Actively participated in Conferences / workshops/ seminars attended (without Papers)

Attended A National Conference on " IPR issues an opportunities in research and Education" organized by Indian Institute of Technology, Roorkee on Feb. 16-17, 2002.

Building Human Capabilities: Towards A knowledge Society, Organized by Guru Ghasidas University on October 25-26, 2002.

Attended International Conference on Emerging trends in Soft Computing and ICT, Organized by department of Computer Science & Information technology, GGV, on March 16-17, 2011.

Attended A National Conference on Higher Education in The next Millennium organized by Guru Ghasidas University, Bilaspur on Nov. 22, 1999.

Attended A National conference on **Advances in Electronic Materials and Devices** organized by Department of Pure & Applied Physics, GGV, on March 5-6,2006.

Attended **A National seminar on " Technology for sustainable development – Perspectives & strategies"** organized by Department of Pure & Applied Physics, GGV,on January 6-7, 2007.

Attended**3<sup>rd</sup> National conference on Advances in Electronic Materials & Devices (AEMD-07)** organized by Department of Pure & Applied Physics, GGV,on March 25-26,2007.

**Attended 6<sup>th</sup> Chhattisgarh Young Scientist congress** Organized by Guru Ghasidas University, Bilaspuron February 28-29, 2008.

Technical Skill

Certified  
Language

**DB2 certified from IBM  
JAVA, C, FORTRAN,**

O/S Platforms

**WIN-NT, Windows-98, 95, UNIX and DOS**

Assembly Language Programming in **8085, 8086** Microprocessor and programming for **Microcontrollers.**

Amit Kumar Khaskalam