

**PROFORMA**

1. **Name** : DR. GOURANG CHANDRA MOHANTY
2. **Designation** : READER IN PHYSICS
3. **Date of Birth** : 01.04.1955 (First April Nineteen Fifty Five)
4. **Educational Qualification** :

Sl. No.	Qualifications	Year of passing	Subjects (PG onwards)	Division	Name of the University
1.	B.Sc.	1975	PHYSICS(Hons.)	1st	Utkal
2.	M.Sc.	1978	PHYSICS	1st	Utkal
3.	M.Phil.				
4.	Dip. Adv. Phys.	1980	PHYSICS	-	Inst. of Phys., BBSR
5.	Ph.D.	1988	PHYSICS	-	Utkal

**5. List of Publications**

**A. Papers Published in National and International Journals**

Sl.No No.	Title	Name of the Journals with Full Address	Number	Volume	Month & Year of Publication	Page No. From – To	National/ International
	<b>MATHEMATICS :</b>						
1.	Approximate Euclidean Angle Trisection	Math. Teacher		11	1975	131-134	National
2.	Error Estimate in Approximate Euclidean Angle Trisection	Math. Teacher		12	1976	143-144	National
3.	A Comment on Angle Trisection	Math. Teacher		13	1977	162-163	National
4.	A Few Methods for Approximate Euclidean Angle Trisection	Math Education		11	1977	71-76	National
5.	Approximate Solution of Cubic Equations & Extration of Cube Roots by Geometrical Methods	Math Teacher		14	1978	131-134	National
6.	A Geometrical Approach for the Expansion of Trigonometrical of Functions MultipleAngles	Math Student		46	1978	183-190	National
7.	Approximate Euclidean Angle Trisection	Math Student		47	1979	205-209	National
8.	Approximate Euclidean Angle Trisection	Nieuw Tijd. V.Wiskunde (Netherlands)		64	1977	316-319	International
9.	Approximate Angle-Trisection	Parabola (Australia)	3	14	1978	13-16	International
10.	A note on Approximate Angle Trisection	Delta (Poland)	10	58	1978	4-6	International
11.	A Geometric Approach to Quartics	MATYC Journal (USA)		12	1978	211-214	International
12.	A Problem onTrisection	Kozepisk, Matemat. Lapok (Hungary)		57	1978	222	International
13.	Geometrical Method for Trigoometric Function of Multiple Angles	Mathematika V.Skole (USSR)		1	1980	50-51	International
14.	Approximate Eculidean Angle Trisection	Matemat. Y.Ensenanza (Mexico)	1	5	1980	31-34	International

<b>PHYSICS :</b>						
1	Effect of non-magnetic impurities on the Raman Scattering by SC gap excitations in layered compound (with S.N.Behera)	Proc. Nucl. Sol. St. Phys. Symp.	24C	1981	253-254	National
2	Effect of non-magnetic impurities on the observation of SC gap excitations by Raman Scattering (With S.M.Behera)	Pramana	6 19	1982	645-663	National
3	Theory of two-phonon modes in layered CDW systems (with S.N.Behera)	Proc. Nucl. Sol. St. Phys. Symp	26C	1983	74-75	National
4	Theory of two-phonon modes in layered CDW system (with S.N.Behera)	Proc. Ind. Sov. Conf. Low Temp. Phys.		1984	154-155	National
5	Phonon spectral function in low-dimensional CDW systems by	Proc. Sol.St. Phys. Symp	27C	1984	93	National
6	Theory of two-phonon modes in layered cDW system (with S.N.Behera)	Pramana	3 26	1986	239-261	National
7	Phonons in low dimensional system	Proc. Soo. St. Phys. Symp.	29C	1986	30	National
8	Anharmonicity-mediated two-phonon modes in layered CDW systems	Ind. J.Phys.	61A	1987	512-515	National
9	Ultrasonic studies of Binary Mixtures of DIBK with polar liquids (With S.Acharya et al)	Ind. J.P.A.Phys.	41	2003	855-857	National
10	Interaction in Binary polar-polar system Acetylacetone with aliphatic alcohols from dielectrics studies (with S.Acharya)	Acta Ciencia Indica	1 XXXP	2004	21-24	National
11	Dipolar Association in Binary System-acetylacetone (HAA) in carboxylic acids (with S.Acharya)	Ind. J.Phys.	79(4)	2005	421-424	National
12	Dispersion of SC gap excitations in layered CDW systems (with S.N.Behera)	Canad. J.Phys.	8 61	1983	1160-1168	International
13	Study of Dipolar Association in Polar-polar system of DIBK and Carboxylic Acids using Dielectric Measurement (with S.Acharya et al)	J.Phys. Soc. Jpn,	8 72	2003	1-3	International
14	Study of molecular Interaction of acetylacetone with benzene+ P-xylene linear correlation factor excess molar polarization and excess Gibb's free energy of mixing (with S.Acharya et al)	J.Mol.Liq.	109(B)	2004	33-38	International
15	Study of Dipolar Association in Binary System Acetyl Acetone in Aliphatic Alcohols (with S.Acharya et al)	Jap.J.Appl.Phys.	6A 44	2005	4161-4163	International

## B. Number of Books Published

Sl.No.	Title	Year of Publication	Name & Address of Publisher	Text Book/Reference Book
1.	Contributed Article in the Book "SISURA YATNA" (Oriya)	2000	Vidyapuri, Cuttack	Reference

## 5. National / International Seminar / Conference / Symposium /Workshop Attended

Sl. No.	Year	Type Seminar / Workshop/ Conference/ Symposium	Name of the Conference/Seminar/Workshop/ Symposium	Sponsoring Agency with Address	Place	Title of the Paper presented / Subject to the Seminar
1.	1981	Symposium	Silver Jubilee DAE symposium on Nucl. and Sol. State Physics	DAE	BARC, Mumbai	Effect of nonmagnetic impurities on the Raman Scattering by SC gap excitations in layered compounds.
2.	1982	Symposium	DAE symposium on Nucl. and Sol. State Physics	DAE	Pantanagar, UP.	SC gap excitations in layered compounds.
3.	1982	Workshop	Workshop on Electronic Phase Transitions.	----	Roorkee University	Dispersion of SC Gap Excitations.
4.	1983	Symposium	DAE symposium on Nucl. and Sol. State Physics	DAE	University of Mysore	Two Phonon Modes in Layered CDW Systems
5.	1984	Conference	Indo-Soviet Conference on "Low Temperature Physics"	-----	Bangalore	They of two phonon modes in layered CDW systems.
6.	1984	Seminar	National Seminar on Phonon physics	-----	Bhopal University	Phonon spectral function in low dimensional CDW systems.
7	1984	Workshop	Workshop on Recent Advances in Theoretical Physics		IIT, Kanpur	
8	1986	Refresher Course	Schrodinger Birth Centenary Refresher Course in Physics		Indore, MP	
9	1991	Seminar	Seminar on "Accelerator Awareness"		Utkal University	
10	1993	Refresher Course	UGC Refresher Course in Atomic & Molecular Physics	UGC	Utkal University	
11	1994	Conference	State Level Conference on Physics Teaching and Curriculum development in Orissa	OPS	Sambalpur University	
12	1997	Refresher Course	UGC Refresher Course in Physics	UGC	Biswa Varti Santiniketan	
13	1997	Orientation Programme	'IAPT Orientation Programme in Physics through Experiments'	IAPT	Ravenshaw College, etc	
14	1998	Orientation Programme	'IAPT Orientation Programme in Physics through Experiments' (Resource Person)	IAPT	Ravenshaw College, etc	
15	1999	Seminar	National Seminar on Physics Education through Lab. Practices.	IAPT	BJB College, BBSR.	
16	1999	Workshop	Workshop on Science writing and journalism (Co-ordinator)	NSCAIR	Ravenshaw College, etc	
17	1999	Training Programme	Teachers' Training Programme in computer science.	Govt. of Orissa	OCAC, BBSR	

18	2000	Training Programme	Teachers' Training Programme in computer science.	Govt. of Orissa	OCAC, BBSR	
19	2000	Training Programme	"Train the teachers' Programme' on e-commerce in industries		KIIT, BBSR	
20	2002	Seminar	Seminar on physics teaching and research in 21st Century		Ravenshaw College,ctc	
21	2002	Spoken Course	UGC Spoken Sanskrit Course	UGC	Ravenshaw College,ctc	
22	2003	Seminar	UGC National Seminar on "The Chaning scenarior of Highter Education."	UGC	Ravenshaw College,ctc	
23	2004	Workshop	Workshop on Introductory Astrophysics.		Utkal University, BBSR	
24	2004	Conference	UGC National Conference on Physics and Industries interface	UGC	Chirst College, ctc	
25	2004	Training Programme	Training Programme on 'Maintenance of Electronics lab. Instruments.		Sambalpur University	
26	2004	Workshop	IAPT Estern Regional Workshop on 'Undergraduate physics teaching.	IAPT	RKM, Res. College, Narendrapur	Need for urgent change in UG Physics Teaching
27	2005	Seminar	National Seminar on Astrophysics and Cosmology.	UGC	RD womens College, BBSR	
28	2005	Workshop	UGC Workshop on Recent Advances of Physics and Research Prospects.	UGC	Stewart Sc. College, Cuttack	
29	2005	Symposium	National Symposium on Impact of Informationa Tech. on Physics eduation.	IAPT	RD womens College, BBSR	
30	2005	Seminar	Seminar on The legacy of Einstein		Ravenshaw College,ctc	
31	2006	Seminar	Seminar on Life, Science & Humanism of Einstein (Resource person.)		Ravenshaw College,ctc	Life & work of Einstein.
32	2007	Workshop	Workshop on uderstanding the universe	IUCA	Utkal University	

### 7. Research Project Completed

Sl.No.	Title	Sponsoring Agency with Address	Duration From – To	Amount of Grant
1.	Supervide work of research associates Dr. S. Acharya	CSIR Project	2002 - 2005	

### 8. Ongoing Research Project

Sl.No.	Title	Sponsoring Agency with Address	Date from which undertaken	Amount of Grant

### 9. Whether awarded Ph.D : Yes

Sl.No.	Title of the Thesis	Name and Address of the Guide	Year of Award
1	Phonons in Low Dimensional Systems	Prof. S.N. Behera Erstwhile Professor of Physics, Instituite of BBSR	1988

**10. Research Guidance :****A. D.Lit.**

Sl.No.	Name of the Scholars	Regd. No. & Date	Title	Year of Awards

**B. Ph.D.**

Sl.No.	Name of the Scholars	Regd. No. & Date	Title	Year of Awards

**C. M.Phil.**

Sl.No.	Name of the Scholars	Regd. No. & Date	Title	Year of Awards
1	Rajendra Narayan Patri		Phonon Raman Scattering from Superconducting Gap Excitations in Layered Compounds.	1998
2	Digant Kumar Behera		Two Phonon modes in Layered Compounds'	1999
3	Sarita Tripathy		Phonon Spectra in Low- Dimensional Systems	2000
4	Bhabani Sankar Pati		Charge Density Waves in Low-Dimensional System.	2001
5	Jayshree Singh		Low – Dimensional Systems.	2002
6	Urmishree Routray		Super Conductivity in Low Dimentional System	2002
7	Nirjharini Mohapatra		Charge-Density-Wave conduction in solids.	2003
8	Jayashree Mohanty		Electronic Properties of Graphite Intercalation Compounds	2004
9	Ganeswar Nayak		Transport Phenomenan in Collisional Magnetised Plasma.	2004
10	Mathura Chandra Guin		Electrical Resistivity of Metals.	2004
11	Mousumi Mohanty		Solid Electrolytes – the – ? -Aluminas	2005
12	Mitanjali Jethy		Massive Neutrinos	2005
13	Apana Samal		Rotational Excitation of Molecules by Electron Collisions.	2006

  
(Signature)