

HANSRAJ COLLEGE

(UNIVERSITY OF DELHI) North Campus, Malka Ganj, NEW DELHI -110007

Faculty Details

Titl	Dr.	First	Yogesh	Last	Kumar	Photograph
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Desig	gnation	Assistant P	rofessor			
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		Kalkaji, Ne	ew Delhi, In	dia		
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Educational Qualifications						
Degre	•	Institution				Year
	(Awarded)	Departme	nt of Physic	s and Astr	ophysics,	2013
		-	of Delhi, N		- ·	
		India				
PG		Hansraj C	College, Univ	versity of D	elhi, New	2006
		Delhi-110 (007, India			
UG		•	Narendra D	0 /	•	2002
			lew Delhi-1			
Other	(B.Ed.)		lia Islamia,	Central U	niversity,	2004
		Delhi				

Currently working as an Assistant Professor at Hansraj College, University of Delhi, North Campus, Malkaganj, New Delhi, India since 22nd, November, 2022 to Till Date. Worked as an Assistant Professor at Deshbandhu College, University of Delhi, Kalkaji, New Delhi, India from 29th, July, 2015 to 22nd, November, 2022. Served as an Assistant Professor in different colleges of University of Delhi from 04th, Aug, 2009 to 28th, July, 2015. Served as an online Tutor at the Manya Education Pvt. Ltd. US based company from Oct, 2006 to May, 2008.

Administrative Assignments

- IQAC Team Member, DBC, DU
- Equal Opportunity Cell, DBC, DU
- Convener/Co-convener for the various subject paper of Physics, DU
- Paper setter of various paper related to physics, DU
- Member of Physics Science Society 'PHYSICA' of Deshbandhu College, DU.
- Executive Council member of Indian Association of Physics Teachers (IAPT, RC-1) 2017-2021, Delhi and Haryana Region.
- Final drafting team Member LOCF (CBCS) Undergraduate Physics courses revision 2019 at Department of Physics and Astrophysics, University of Delhi, 2019.
- Member of Sub-Committee of Committee of Courses (Hons.) P.G. and Research Studies and the committee of courses (Under-graduate) to appoint external practical examiners and theory paper setting, 2018.
- Member of Courses of Committee to revise the undergraduate syllabus (CBCS) of University of Delhi 2018.
- Member in the courses of committee for making model test paper of element of modern physics for B.Sc. (Hons) Physics, University of Delhi, session 2020.
- Core committee Member of SSR 2021-22.
- Member of IQAC Committee signboards 2021-22.
- Member in various other college activities.
- Member of departmental website Committee.
- Member of departmental NAAC Committee.
- SC/ST Cell Committee 2023-24.
- Member of Canteen Committee 2023-24.
- Member of ICT Enabling Committee (Portal Committee) 2023-24.

Areas of Interest/Specialization

- High Energy Physics and Quark-Gluon Plasma
- Quark-Hadron Phase Structure
- Electromagnetic signals from QGP
- Strange Quark Matter
- Equation of State of QGP
- Super-deformed Nuclei
- Nuclear Structure properties
- Other related fields.

- Nanotechnology Statistical Mechanics Subjects Taught Thermal Physics Element of Modern Element of Modern Solid State Physics **Physics Physics** Thermal Physics Electricity & M.P.-II E & M Magnetism Nuclear Physics **Nuclear Physics** Ouantum Statistical Mechanics-I Mechanics Digital Electronics M.P.-III Thermal Physics Mechanics Modern Physics Research Guidance UG Level **Publications Profile** "Dilepton from quark-gluon plasma and quark-hadron phase transition", S. Somorendro Singh, Yogesh Kumar, D. S. Gosain, (http://xxx.lanl.gov) hep-ph/0803.1527v1 (2008). "Effect of Curvature on a Statistical Model of Quark-Gluon-Plasma Fireball in the Hadronic Medium", S. S. Singh, D. S. Gosain, Y. Kumar and A. K. Jha, Pramana J. Phys. 74 (2010) 27. ISSN (PRINT): 0304-4289. "Dilepton production in finite baryonic quark-gluon plasma", Yogesh Kumar and S. Somorendro Singh, Can. J. Phys. 90 (2012) 955. ISSN (PRINT): 0008-4204. "Dilepton emission at temperature dependent baryonic quark-gluon plasma", S. Somorendro Singh, Yogesh Kumar, Presented at the International Conference on Nucleus-Nucleus Collision on High Energy held at San Antonio, USA(2012). arXiv(http://xxx.lanl.gov) hep-ph/1208.1257v1(2012). "Dilepton production in thermal-dependent baryonic quark—gluon plasma", S. Somorendro Singh and Yogesh Kumar, Can. J. Phys. 92 (2013) 31-35. ISSN (PRINT): 0008-4204. "Dilepton emission at temperature dependent baryonic quark-gluon plasma", Shougaijam Somorendro Singh and Yogesh Kumar, Journal of Modern Physics 4 (2013) 582-586. ISSN (PRINT): 2153-1196. "Free energy evolution and photon radiation from QGP", Yogesh Kumar and S. Somorendro Singh, ISRN High Energy Physics, 2013 (2013), Article ID 156747, 8 pages. ISSN: 2090-7427. П "Photon Production in High Energy Nuclear Collisions of Quark Gluon Plasma", S.
 - □ "Photon Emission from Quark Gluon Plasma at RHIC and LHC", Poonam Jain and Yogesh Kumar, Journal of Modern Physics 5 (2014) 686. ISSN (PRINT): 2153-1196.

 □ "Emission of Thormal Photons in Heavy Ion Collisions". Poonam Jain Yogesh Kumar and

Somorendro Singh and Yogesh Kumar, International Journal of Modern Physics A 29

- □ "Emission of Thermal Photons in Heavy-Ion Collisions", Poonam Jain, **Yogesh Kumar** and Deepak Kumar, **Journal of Modern Physics 5 (2014) 792. ISSN (PRINT): 2153-1196.**
- □ "Free energy and direct photon emission at finite chemical potential", S. Somorendro Singh and Yogesh Kumar, Journal of Physics: Conf. Ser. 535 (2014) 012002. ISSN (PRINT): 1742-6596.

(2014) 1450110. ISSN (PRINT): 0217-751X.

	"Direct photon emission from a chemically non-equilibrated quark-gluon plasma at finite
	chemical potential", Yogesh Kumar and S. S. Singh, Proceeding of Science (POS) 171
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	"Production of photons from a chemically non equilibrating plasma in relativistic heavy-ion
	collisions", Yogesh Kumar and Poonam Jain, Proceeding of Science (POS) 064
	(CPOD2014) 2014. ISSN: 1824-8039.
	"Dilepton emission from heavy ion collision", S. Somorendro Singh and Yogesh Kumar,
	Proceeding of Science (POS) 071 (CPOD2014) 2014. ISSN: 1824-8039.
	"Enhancement in the production of photons from hot and dense matter of quark gluon
	plasma", Y. Kumar and P. Jain, Proceedings of the DAE Symp. on Nucl. Phys. 59 (2014).
	ISBN: 81-8372-070-6.
	"Direct photon production at finite chemical potential from quark gluon plasma", S.
	Somorendro Singh and Yogesh Kumar, International Journal of Modern Physics A 30
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	"Phenomenological modeling of the photon production rate from the QGP at finite quark
	chemical potential", Yogesh Kumar and Poonam Jain, International journal of Modern
	Physics A 30 (2015) 1550196. ISSN (PRINT): 0217-751X.
	"Photon radiation from hot and dense matter of quark gluon plasma", Y. Kumar, A. Goel
	and P. Jain, Journal of Physics: Conf. Ser. 636 (2015) 012018. ISSN (PRINT): 1742-6596.
	"Free energy droplet formation in ultra-relativistic heavy-ion collision", Y. Kumar and R.
	A. Bhat, Proceedings of the DAE-BRNS Symp. on Nucl. Phys. 60 (2015) 832. ISBN:
	81-8372-070-6.
	"Stable droplet formation of quark-gluon plasma in quark-hadron phase transition", Yogesh
	Kumar, Journal of Physics: Conf. Ser. 668 (2016) 012110. ISSN (PRINT): 1742-6596.
	"Dilepton production as a useful probe of quark gluon plasma with temperature dependent
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_	Phys. E Vol. 25, No. 8 (2016) 165004. ISSN: 0218-30139.
	"Quark-Hadron phase transition at high chemical potential in relativistic heavy-ion
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	"Photon emission from quark-gluon plasma at finite chemical potential", Yogesh Kumar
	and S. Somorendro Singh, Proceedings of the DAE-BRNS Symp. on Nucl. Phys. 61
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	"Evolution of quark-gluon plasma and quark-hadron phase transition", Yogesh Kumar and
	P. K. Sethy, Proceeding of AYSS2016 , JINR , Dubna , 57 (2016) 300, ISSN:978-5-9530-0416-9.
	"A study on Quark-Gluon plasma equation of state using thermal quark mass", Yogesh
	Kumar and S. Somorendro Singh, Proceeding of EPJ Web of Conferences, 137 (2017)
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	"Electromagnetic probes in heavy-ion collisions", Yogesh Kumar, Proceedings of the
Ш	DAE-BRNS Symp. on Nucl. Phys. 62 (2017) 958.
	"QGP equation of state at small chemical potential", Yogesh Kumar and S. Somorendro
	Singh, Proceedings of the DAE-BRNS Symp. on Nucl. Phys. 62 (2017) 908.
	"A quasi-particle approach to electromagnetic radiation", Yogesh Kumar , S. Somorendro
	Singh and P. K. Sethy, Proceedings of the DAE-BRNS Symp. on Nucl. Phys. 63 (2018)
	1012.
	"Speed of sound in the presence of magnetized QGP", Yogesh Kumar, Proceedings of the
_	DAE-BRNS Symp. on Nucl. Phys. 63 (2018) 964.

	"Equation of state of quark-gluon plasma using a simple phenomenological model", Yogesh Kumar, EPJ Web of Conferences 182, 02070 (2018). https://doi.org/10.1051/epjconf/
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	"Curvature Effect on QGP Equation of State", Yogesh Kumar and S. Somorendro Singh,
	XXII DAE High Energy Physics Symposium, Springer Proceedings in Physics 203 (2018),
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	"Effect of magnetic field on QGP equation of state", Yogesh Kumar, JPS conf. Proc. 26,
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	"Photon Emission as a Promising Probe for Quark-Gluon Plasma in Heavy-Ion Collision", P.
	K. Sethy, Y. Kumar, S. S. Singh, International Journal of Scientific Research in Physics
	and Applied Sciences Vol.8, Issue.4, pp.22-26, August (2020). "Diphoton production rate in relativistic nuclear collision", Yogesh Kumar, S. S. Singh and
	Poonam Jain, Physica Scripta, 96, 124060 (2021). ISSN: 1402-4896.
	"Effect of Magnetic Field on Dilepton Production Rate in Relativistic Heavy Ion Collisions",
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	Kumar, P. K. Sethy, S. S. Singh, Physics of Particles and Nuclei Letters, 18(2), 160-165
_	(2021). DOI:10.1134/S1547477121020096.
	Book Chapter 12, Dilepton emission at temperature dependent baryonic quark-gluon plasma
	in the New Insights into Physical Science by S. Somorendro Singh and Yogesh Kumar,
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	MD. Kaish, P. Jain, P. Bangotra, and V. Kumar, Proceedings of the DAE Symp. on Nucl.
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	"A Theoretical Study on Diphotons within a Quasi-Particle Treatment at Finite Chemical
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	"A Thermodynamically Congruous Approach for QGP Equation of State in the Early Universe" G. Kuksal V. Kumar MD. Kaish P. Jain P. Bangotta and V. Kumar
	Universe", G. Kuksal, Y. Kumar, MD. Kaish, P. Jain, P. Bangotra, and V. Kumar, Proceedings of the DAE Symp. on Nucl. Phys., 66, 818 (2022).
	"Calculation of Early Universe Expansion of Quark Gluon Plasma with Chemical Potential",
	R. Sharma, M. S. Khan, R. Yadav, Y. Kumar, P. Jain, P. Bangotra, and V. Kumar,
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	"An exclusive level scheme in 193Pb", P. Jain and Y. Kumar, Proceedings of the DAE
	Symp. on Nucl. Phys., 66, 244 (2022).
	"Study of QGP with particle production of photons in a magnetic eld environment", Y.
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	"Influence of collectivity on reduced hindrance factor of k-isomers in tantalum and hafnium
	isotopes", Y.P. Singh, V. Kumar, A. Choudhary, A. Shukla, Manoj Kumar Sharma, P.K. Rath,
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	"Systematic Study of Gamma Decay Hindrance Factors", V. Kumar, Y. Singh, A. Shukla,
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_	Collisions" Y. Kumar, P. Jain, P. Bangotra, D. V. Singh, V. Kumar and S. K. Rajoria,
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	"Assessment of radiological doses from the uranium retention in the various human organs
	and tissues", <u>Pargin Bangotra</u> , N. L. Singh, Rohit Mehra, Karel Katovsky, Ansumali Ashish,
	Yogesh Kumar, IEEE XPLORE (2023). 10.1109/EPE58302.2023.10149292.
	"Search for Super-Deformed Identical Bands in the $A = 190$ Mass Region on the Basis of
	Level Spin" Poonam Jain, Yogesh Kumar, Vinod Kumar and Pargin Bangotra, Universe, 9,
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	"Effect of varying perchlorate salt concentration on electrochemical and physical properties
	of polymer gel electrolytes containing heat-resistant poly(methyl methacrylate) and
	succinonitrile", Maitri Patel, Raj Kumar Singh, Aadesh Kumar Prajapati, Yogesh Kumar,
	Jehova Jire L. Hmar, Sunil H. Chaki, D. K. Kanchan, Deepak Kumar, Journal of Applied
	Electrochemistry, 54, 1033 (2023). ISSN: 0021-891X. https://doi.org/10.1007
	/s10800-023-02014-7.
	"Satellite or ground-based measurements for air pollutants-(PM2.5,-PM10, SO2, NO2, O3)
	data and their health hazards: which is most accurate and why?", Zainab Mushtaq, Pargin
	Bangotra, Alok Sagar Gautam, Manish Sharma, Suman, Sneha Gautam, Karan Singh, Yogesh
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	"Role of time varying magnetic field on QGP equation of state", Yogesh Kumar, P. Jain, V.
	Kumar, D. V. Singh and P. Bangotra, Advances in High Energy Physics Volume 2024,
	Article ID 1870528, 11 pages (2024). https://doi.org/10.1155/2024/1870528.
	"A phenomenological approach to study the diphoton emission using effective mass of
	quark" Y. Kumar, G. Kuksal, P. Jain, V. Kumar and P. Bangotra (Communicated-2024).
	quark 1. Rumar, O. Ruksar, 1. Juni, V. Rumar and 1. Dangotta (Communicated 2024).
Cor	nference: Oral Presentations/Participations/FDPs/Refershers/FIPs
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	"Dilepton from quark-gluon plasma and quark-hadron phase transition", S. Somorendro
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	Singh, Yogesh Kumar, D. S. Gosain, Presented at the International Conference on Quark
	Matter-2008 held at Jaipur, India. Pre-print arXiv (http://xxx.lanl.gov) hep-ph/0803.1527v1
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	"Dilepton production in finite baryonic quark-gluon plasma", Yogesh Kumar, S. Somorendro
	Singh, Presented at the International Conference on Ultra-relativistic Nucleus-Nucleus collisions, USA, appears in QM-09 as Proceedings.

Attended International conference on Light-Cone: Relativistic Hadronic and Particle
Physics, 10-15 th , Dec, 2012 at University of Delhi, India.
Attended Workshop on Active Learning Integrating Hands on Experiments and Multimedia Resources, 7-8 th , Oct, 2013 at Miranda college, University of Delhi, Delhi.
Attended Second Annual Convention of IAPT, RC-1, 15th, April, 2014 at Delhi.
Participated in DAE Symposium on Nuclear Physics, Department of Physics and astrophysics, University of Delhi, 3-7 th , Dec, 2012, North Campus, New Delhi, India.
Participated in 7 th International Workshop on Critical Point and Onset of Deconfinement (CPOD), 7 - 11 November, 2011 at Institute of Particle Physics (CCNU).
Attended International school for High-Energy Nuclear Collisions, Nov-2011, Wuhan, China.
Attended International Conference on Current Developments in Atomic, Molecular, Optical and Nano Physics with Applications, 14-16 th , Dec, 2011 at Department of Physics and Astrophysics, University of Delhi, Delhi, India.
Attended Preparatory SERC School on Theoretical High Energy Physics held at S.G.T.B. Khalsa College, University of Delhi, September 23 rd to October 20 th , 2008, Delhi.
Attended QGP Meet 2012, 5 th one in this series, held during 3-6 th , July, 2012 in the campus of Variable Energy Cyclotron Centre (VECC), Kolkata, India.
Participated in International Workshop on critical Point and Onset of Deconfinement (CPOD), 17-21 November, 2014 at Interdisciplinary Research of Bielefeld University,
Germany.
Participated in XXII International Workshop on Deep-Inelastic Scattering and Related Subjects, 28 April- 02 May 2014 at Warsaw, Poland.
Attended DAE Symposium on Nuclear Physics, 2014 at BHU, Varanasi, India.
Participated 7th International Conference on Physics and Astrophysics of Quark Gluon
Plasma, VECC, ICPAQGP, 2-6 February 2015 at Calcutta, India.
Attended Fourth National Workshop on Recent Trends in Semiconductor Devices and
Technology, September 13-14, 2013 Jointly organized by Deen Dayal Upadhyaya College, University of Delhi and IEEE EDS Delhi Chapter, New Delhi Sponsored by Defence Research and Development Organization (DRDO), Ministry of Defence, Government of
India.
Attended Workshop on 3D Printing at cluster innovation centre, University of Delhi, 28 February, 2015.
Attended First Professional Development Course from 1 st - 5 th June, 2015. King's College London (KCL) in collaboration with Amity University and with the support of the U.S. Department of State's Partnership for Nuclear Security will hold the professional development course (PDC) on nuclear security education in Amity University campus, Noida.
Attended Second Professional Development Course from 24th - 28th August, 2015. King's College London (KCL) in collaboration with Amity University and with the support of the U.S. Department of State's Partnership for Nuclear Security will hold the professional development course (PDC) on nuclear security education in Amity University campus, Noida.
Attended National Workshop on Radiochemistry and application to radio-iostopes by BRNS - IANCAS (Indian association of nuclear chemist & allied scientist) on 5 th -10 th , Oct, 2015 at
Amity University, Noida.
Presented Paper on Phenomenological modelling of electromagnetic emission from QGP in ultra-relativistic heavy-ion collision, CNT QGP Meet 2015 on 16-20 th Nov, 2015 at Kolkata,
Attended Seminar on Recent Trends in Technical terminology in science, 16-17 Feb, 2016 organized by Commission for Scientific and technical terminology, Ministry of human

resource development, department of higher education at Sri Aurobindo College, University of Delhi.
Participation in the international conference during 15-19 th Feb, 2016 on 6 th Asian Triangle Heavy-Ion Conference at India International Centre, 40 Max muller marg, New Delhi.
Presented paper on 60 th DAE-BRNS Symposium on Nuclear Physics (December 07-11, 2015) at Sri Sathya Sai Institute of Higher Learning Prasanthi Nilayam-515134, AP, India.
Presented paper at 15 th International Conference on Strangeness in Quark Matter Dubna, July 6 – 11, 2015.
Participated in the conference on Heavy Flavor at SINP, Kolkata during 3-5th Feb, 2016.
Participated and presented poster in the XX International Scientific Conference of Young Scientists and Specialists (AYSS-2016), held on 14-18 March 2016 at Joint Institute for Nuclear Research (JINR) Dubna.
Oral presentation in the XX International Scientific Conference of Young Scientists and
Specialists (AYSS-2016), held on 14-18 March 2016 at Joint Institute for Nuclear Research
(JINR) Dubna.
Presented paper on electromagnetic probe of strongly interacting matter in massive nuclear collisions at ICPAQGP 2015, Kolkata.
Participated "Dilepton production at finite temperature quark-gluon plasma", S. Somorendro Singh, Yogesh Kumar at the International Symposium on Nuclear Symmetry Energy held at RIKEN, Wako, Japan (2010).
Participated in National Seminar on "Application of Radioisotopes and Radiation
Technology in Industry, Healthcare and Agriculture" at AMITY, Noida on 5 th - 6 th August,
2016. Participated in the 4th annual Convention of IAPT PC1 held on 22 rd July 2016 at Amity
Participated in the 4th annual Convention of IAPT, RC1 held on 23 rd July, 2016 at Amity International School, Mayur Vihar, New Delhi.
Participated in the National Workshop on Skill Development to Build a clean India on "Nuclear Security and Radiological Safety", 07-08, June, 2018 at Deshbandhu College.
Participated in the Faculty Development Program on Multifunctional Materials for Energy
Harvesting and Allied Devices at ARSD College, University of Delhi, Dhaula Kuan, New Delhi on 10 th , November 2017.
Participated in the Faculty Development Program on Applied Physics and Embedded System Design at Rajdhani College, University of Delhi, Raja Garden, New Delhi-15 on 14-15 th , December 2017.
Participated in one day workshop on "Nuclear Physics and its Applications" Organized by Department of Physics and Materials Science & Engineering, JIIT, Noida on 25 March 2017.
Participated in Fifth Annual Convention of Indian Association of Physics Teachers (IAPT, RC-I) on 19 th , August, 2017.
Participated in the Training Workshop on "Hands-on-Approach of Teaching Physics" Organized by Indian Association of Physics Teachers, RC-I on 9 th , December, 2017, MAAPS, Pitampura, New Delhi.
Participated in the Faculty Development Program (FDP) cum Workshop on Climate across
the curriculum: Resource for integrating climate topics in discipline-specific teaching organized by IQAC, Sri Venkateswara College, University of Delhi, India in collaboration with TROPICSU funded by ICSU & IISER, Pune, India on 13 th -14 th October, 2018.
Participated in National Seminar on New Trends in Nanotechnology and Applications-2018 organised under STAR college by ARSD college, University of Delhi during September 27-28 th , 2018.
Participated in one day seminar on Life and works of Prof. M. N. Saha and Prof. S. N. Bose organised by IIIT Noida II P. India on September 15 th 2018

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Participated and presented oral talk on Effect of magnetic field on QGP equation of state in
the 8th International Conference on Quarks and Nuclear Physics (QNP-2018) held on
November 13-17 th , 2018, Tsukuba, Japan.
Participated in a theme meeting on "Synchrotron based characterization Techniques" on 4th
and 5th September 2018, Amity Institute of Nanotechnology, Amity University, Noida, U.P.,
India.
Participated and presented posters in the 8th International Conference on Quarks and Nuclear
Physics (QNP-2018) held on November 13-17 th , 2018, Tsukuba, Japan.
Participated in Indo-French Seminar on "Radiation Damage in Nuclear Materials" sponsored
by IFCPAR/CEFIPRA held at Amity University during 18-20 February, 2019.
Participated in Theme Meeting on Synchrotron based characterization techniques on
September 4th and 5 th 2018 at Amity University, Noida, U.P.
Participated in NIUS Teacher Development Workshop on Thermal Physics and Statistical
Mechanics is organized at HBCSE, Mumbai from December 10 to 13, 2019.
Attended National Seminar on Basic Sciences help on 03 March, 2021 organized by NSCB
Govt. PG College Biaora (Rajgarh) M.P.
Participated in the webinar on "Introduction to COMSOL Multiphysics" organized by
Department of Physics, Deshbandhu College, University of Delhi on 25 th March, 2021.
Participated in the international webinar on Multidisciplinary research on 13 March, 2021
organized by department of chemistry, Chandrapur.
Participated in Young Scientist Conference organised during 22-24, Dec, 2020, as a part of
India International Science Festival-2020 organised by Ministry of Science and Technology,
VIBHA, CSIR.
Participated in the three days workshop on Challenges of Teaching Physics Laboratory
Courses in Online mode organised by Kalindi College, DU, Department of Physics and
Astrophysics, University of Delhi and NASI Delhi Chapter, 23-25 Jan, 2021.
Participated in National Webinar On "Recent Trends in Physical Sciences" held on 27th &
28th July, 2020, Jointly organized by Department of Physics, J.N.S. Govt. P.G. College,
Shujalpur (M.P.) and IAPT RC-09 Sponsored by the Department of Higher Education, Govt.
of M.P. under MPHEQIP - Academic Excellence.
Participated in the Webinar on "Search, Research and Publication Ethics" Organized by DBC
Library and IQAC, Deshbandhu College, University of Delhi, July 24, 2020.
Participated in 2020 JETSCAPE Online School Dates: July 13 -24, 2020.
Completed One-Week Online Faculty Development Programme on "Development and
Delivery of MOOCs and E-Content" jointly organized by Central University of Haryana,
Mahendergarh under the aegis of Pandit Madan Mohan Malaviya National Mission on
Teachers and Teaching (PMMMNMTT) and IQAC, Deshbandhu College, University of Delhi,
New Delhi, from 26 th June, 2020 to 1 st July 2020.
Attended the National Webinar Series jointly organized by the Discipline of Natural Sciences,
PDPM Indian Institute of Information Technology, Design & Manufacturing Jabalpur, and
Department of Physics, Central University of Rajasthan, 1-8, June, 2020.
Attended various IAPT online lecture series organized by IAPT and DSSTF, 2020.
Participated in participating in the online "International Workshop on Space Science", jointly
organized by Space Education and Research Foundation, Ahmedabad and Department of
Physics, School of Science, RK University, Rajkot, India during 18-21 May, 2020.
Participated in National webinar series on experimental & computational tools for materials
research National Webinar Series jointly organized by the Discipline of Natural Sciences,
PDPM Indian Institute of Information Technology, Design & Manufacturing Jabalpur, and
Department of Physics, Central University of Rajasthan on June 01-08, 2020.

	Participant in the One Day National Webinar on "Staying Nourished with Correct Nutrition"
	held on 29 th May 2020.
	Participated in Faculty Development Program on 'R' from 16 th - 22 nd June, 2020.
	Participated in the National Level Five Day faculty development program on "Scilab" in
	Association With IIT-Bombay (Remote Learning Through Spoken Tutorial)," from 15th - 19th,
	June 2020 organized by the Department of Science & Humanities, St. Peter's Engineering
	College.
	Attended National Level Faculty Development Programme on "LATEX" in association
	with spoken tutorial IIT-Bombay from 1st June to 5th June, 2020 organized by Department of
	Science & Humanities, CMR Engineering College.
	Attended Faculty Development Programme on "Quality Assurance in Higher Education:
	Practices and Issues" being organized by Hansraj College, University of Delhi from 4th May
	to 8 th May, 2020.
	Attended E-International Symposium on Synthesis and Characterization of Smart Materials
	and Their Potential Applications, during 14 th -17 th June, 2020 using CISCO Webex platform.
	Participated in Webinar on "Staying Mobile with Lifestyle Interventions" by Dr. Sonia
	Shalini, Fitness Enthusiast & Associate Professor, Physical Education, IGIPESS, University
	of Delhi, organized by the Department of Physical Education and Sports Sciences, Gargi
	College, University of Delhi, held on 25 th May 2020.
	Participation in our Webinar on "Staying Mobile with Lifestyle Interventions" by Dr. Sonia
	Shalini, Fitness Enthusiast & Associate Professor, Physical Education, IGIPESS, University
	of Delhi, organized by the Department of Physical Education and Sports Sciences, Gargi
	College, University of Delhi, held on 25 th May 2020.
	Participated in One day webinar on Role of ICC and Prevention, Prohibition and Redressal of
	Sexual Harassment of Workmen at Workplace on May 22, 2020.
	Participated in the webinar on "BASICS OF LATEX" organized by the Department of
	Mathematics on 13.06.2020.
	Attended the International webinar on "Materials for Energy Generation and Storage" on 10th
_	June 2020.
	Attended 8th Annual convention on 10-11, Oct, 2020 organised by IAPT Delhi and Haryana
	region.
	Participated in National webinar on energy efficient innovations and application organized by
	department of physics, maitreyi college, university of delhi, New Delhi on 30 th , June, 2021.
	Attended International of E-conference on recent advances in chemical, physical, biological
	sciences organized by Nabira mahavidhyala, katol in association of TIFR, Mumbai on 29 th
	-30th June, 2021.
	Attended "International Yoga Festival-Yog Mantrana 2021" organized by Deshbandhu
	College, University of Delhi on 21st June 2021. Attended three days online EDB on ICT tool for offsetive teaching learning organized by
	Attended three days online FDP on ICT tool for effective teaching learning organized by Kamla Nehru Mahavidhyalaya, Nagpur on 8-10 th June, 2021.
	Participated in the International Conference on "Smart Materials: Application to Devices
	(ICSMAD - 2021) organized by Kamla Nehru Mahavidhyalaya, Nagpur on 17-18 th May,
	2021. Organized by Kanna Nemu Manavidnyalaya, Nagpur on 17-18 May,
	Participated in the national level one-week faculty development programme on Research
	methodology organized by Kamla Nehru Mahavidhyalaya, Nagpur on 26 th april-1 st May,
	2021.
	Participated in FDP on Innovation in Scientific Research Methods organized by Kirori Mal
	College, University of Delhi, New Delhi-14 th -18 th October, 2020.
	Attended one day international webinar on recent developments in physics organized by
	department of physics, RIHS, Bhograi, Odisha, on 13 th , Sept, 2021.
	arparament of physics, refers, bliograf, outsing on 15, 50pt, 2021.

	Participated National Webinar On "Recent Trends in Physical Sciences" held on 27th & 28th
	July, 2020, Jointly organized by Department Of Physics, J.N.S. Govt. P.G. College, Shujalpur
	(M.P.) and IAPT RC-09 Sponsored by the Department of Higher Education, Govt. of M.P.
	under MPHEQIP – Academic Excellence.
	Participated in national webinar on the topic: Quality research publications-Hallmark for
	higher education organized by Birjhora Mahavidhyalaya, Tezpur university on 22 nd July 2020.
	Participated in Webinar on "Search, Research and Publication Ethics" Organized by DBC
	Library and IQAC, Deshbandhu College, University of Delhi on July 24, 2020.
	Participated in the webinar on Emerging Trends in Contemporary Physics organized by
	Department of Physics, Deshbandhu College, DU on 30 th -31 st March, 2021.
?	Two Week Refresher Course in Physics from 17 Feb-13 Mar, 2023 with A+ grade organized
	by TLC Ramanujan College, University of Delhi.
	Participated in One day National webinar on "Importance of Profession Ready Training in
	Clinical Research Management" Organized by Industry institution interaction cell & Vijaya
	College of Pharmacy In Association with Clinic India on 29-03-2023.
	Participated in National Webinar "Science of Imaging: Thousand words on what a picture is
	worth" as a part of National Webinar series "Omnipresent Physics : An Experiential
	Approach" under the aegis of The National Academy of Sciences, India (NASI) - Delhi
	Chapter, Science-Society Program organised by Department of Physics, Kalindi College on
	20th October, 2022.
	One-Week Online National Faculty Development Program "Python: Essentials,
	Programming and Analytics" jointly organized by University of Delhi and Guru Angad Dev
	Teaching Learning Centre, SGTB Khalsa College, University of Delhi under the Pandit
	Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMNMTT) of
	Ministry of Education. This was conducted in online mode with one week's involvement in a
	flexible mode. This online FDP is equivalent to face to face one week FDP. The participant
	has obtained Grade "A+" as required for promotion under CAS of UGC and AICTE during 27
	Oct- 03 Nov, 2022.
	Faculty Induction Program organized by Mahatma Hansraj Faculty Development Centre,
	Hansraj College, University of Delhi during 1 st Dec- 30 th Dec, 2022.
	Oral talk on 8th Annual convention of IAPT RC-1 on 10-11, Oct, 2020.
	Paper presented on "the Effect of a Strong Magnetic Field on Photon Production of Quark
	Gluon Plasma", Yogesh Kumar, P. K. Sethy and S. Somorendro Singh in the International
	Conference on Physics, Society and Technology, 17-19th January, 2019 at University
	Conference Hall, University of Delhi organized by Deshbandhu College, D.U., Kalkaji, New
	Delhi-110019.
	Paper presented on "Strangelets in a Strong Magnetic Field using Quasiparticle Model"
	Rakesh Kumar Meena and Yogesh Kumar in the International Conference on Physics,
	Society and Technology, 17-19th January, 2019 at University Conference Hall, University of
	Delhi organized by Deshbandhu College, D.U., Kalkaji, New Delhi-19.
	Paper on presented on "Finite Size of QGP Droplet in a Non-Zero Magnetic Field", Yogesh
	Kumar and Rakesh Kumar Meena in the International Conference on Physics, Society and
	Technology, 17-19th January, 2019 at University Conference Hall, University of Delhi
	organized by Deshbandhu College, D.U., Kalkaji, New Delhi-19.
	Oral presentation on Role of Magnetic Field on the signature of Quark Gluon Plasma in
	LXX International conference "NUCLEUS – 2020. Nuclear physics and elementary particle physics. Nuclear physics technologies"
	physics. Nuclear physics technologies". Oral Presentation in International Conference on "Advanced Functional Materials and
	Devices" (AFMD-2021) organised by Department of Physics & IQAC, ARSD College.
	University of Delhi during 03-05th March 2021 via online mode
	- 1 / 11 1 V 1 3 1 1 V 1 1 1 1 1 1 1 1 1 1 1

	Oral talk at the 9th International Conference on New Frontiers in Physics ICNFP 2020 held
	in Kolymbari (Crete, Greece) on 4-12 September and 1-2 October 2020 and gave a talk
	entitled "Two-Photon Decays in a Relativistic heavy-ion collisions".
	Oral talk in the IWNT39-International Workshop on Nuclear Theory July 3-9, 2022,
	Borovets, Bulgaria. Talk title: Thermodynamics of QGP in the early universe.
П	Oral talk in the LXXII International conference "NUCLEUS-2022: Fundamental problems
	and applications" July 11 to 16, 2022, Moscow State University, Moscow. Title: Diphoton
	Production Rate with the Effect of Chemical Potential in Relativistic Heavy-Ion Collisions
П	Oral talk in the LXXII International conference "NUCLEUS-2022: Fundamental problems
	and applications" July 11 to 16, 2022, Moscow State University, Moscow. Title: A modified
	quasiparticle model in the expansion of early universe of quark gluon plasma.
П	Oral talk in the XXIX International Workshop on Deep-Inelastic Scattering and Related
	Subjects (DIS2022) Santiago de Compostela, May 02 to May 06, 2022. Title: Equation of
	state of quark gluon plasma under the strong magnetic field.
Ш	Oral talk in the XI International Conference on New Frontiers in Physics (ICNFP 2022), 21
_	December, 2022. Title: Investigating diphoton mass sprectrum from quark gluon plasma.
Ш	Oral talk in the XI International Conference on New Frontiers in Physics (ICNFP 2022), 21
	December, 2022. Title: Early Universe Quark-Hadron Transition Using a Phenomenological
	Quasi-Particle Model.
	Oral talk at 2 nd International Conference on Multidisciplinary Academic Research and
	Innovation (ICMARI)" during January 28-29, 2023 in online mode organized jointly by
	Amiruddaula Islamia Degree College, Lucknow and Aryabhat Institute of Academics and
	Research. Title: PROBING DI-PHOTONS AT FINITE CHEMICAL POTENTIAL IN
	RELATIVISTIC HEAVY ION COLLISIONS.
	Oral Presentation in 2 nd International Conference on "Advanced Functional Materials and
	Devices" (AFMD-2023) organised by IQAC & Department of Physics, ARSD College,
	University of Delhi during 13-15 th March 2023 via online mode.
	Oral presentation in the International e-Conference ICRACS-2022, organized by Department
	of Chemistry, Deshbandhu College, University of Delhi on 8-9 April, 2022.
	Poster Presentation on topic entitled UV Photodetection Using Zinc Oxide (ZnO) Thin Film
	For Measuring Germicidal Radiation at online International Conference on Recent Advances
	in Functional Materials (RAFM-2022) organized by Department of Physics, IQAC and Star
	College Scheme (GoI), ARSD College University of Delhi from 14 -16 th March 2022.
П	Oral Presentation on NATIONAL EDUCATION CONCLAVE organized by Hansraj
1	
	College, University of Delhi on 23-24 March 2023 at Vigyan Bhawan, New Delhi.
D.	esource Person / Invited Talk
10	CSOUTCE I CISOII / IIIVITCU TAIK
	Invited talk on Two-Photon Decays in a Relativistic heavy-ion collisions at NCISRT-2020,
	30 th -31 st , May, 2020.
	Invited talk of 1 Hr duration on Tuesday, September 22, 2020, on "Quantum Mechanics".
	The lecture has been uploaded on the youtube channel of "NASI Delhi Chapter". This is
	Invited talk(s) at an 11-week Course-"Learning Physics with Conceptual and Problem based
_	Approach" organized by National Academy of Sciences India, Delhi Chapter.
	Delivered 2 invited talks of 1 Hr duration each on Wednesday, September 30, 2020, on
	"Quantum Mechanics". The lecture has been uploaded on the youtube channel of "NASI
	Delhi Chapter".
	Invited talk of 1.5 Hr duration on Friday, October 02, 2020, on "Quantum Mechanics". The
	lecture has been uploaded on the youtube channel of "NASI Delhi Chanter"

	Invited talk "Some interesting facts of thermal and statistical physics" for the students of
	Amity Institute of Applied Sciences at Amity University, on 9th November 2021,
	Resource Person in the DU-Pre-Entrance summer school-2018, University of Delhi from
	01-06-2018 to 16-06-2018 for imparting training to undergraduate students in the discipline of
	Physics.
	Resource person in DU Pre-Entrance summer school 2017 and 2018 at Department of
_	Physics and Astrophysics, University of Delhi, for imparting training to undergraduate
	students, in the discipline of Physics.
	Resource Person in the DU-Pre-Entrance summer school-2018, University of Delhi from
	01-06-2019 to 16-06-2019 for imparting training to undergraduate students in the discipline of
	Physics.
	Invited talk "Thermodynamics observables using a simple statistical model" for the students
ш	of Amity Institute of Applied Sciences at Amity University, on 23rd October 2021,
	Resource person in the INSPIRE DST Internship Programme in the department of physics,
Ш	
	Deshbandhu college, University of Delhi held during 18th- 21st December, 2017 at Kalkaji,
	New Delhi, India.
	Resource person in the INSPIRE DST Internship Programme in the department of physics,
	Deshbandhu college, University of Delhi held in December, 2019 at Kalkaji, New Delhi,
	India.
	Invited Speaker at the 9 th International Conference on New Frontiers in Physics ICNFP 2020
	held in Kolymbari (Crete, Greece) on 4-12 September and 1-2 October 2020 and gave a talk
	entitled "Impact of magnetic field on the evolution of quark gluon plasma".
	Invited talk at AMITY UNIVERSITY, NOIDA, U.P. 21-04-2022. Title: Revealing the
	Secrets of Quantum Mechanics.
	Invited talk at 2 nd International Conference on Multidisciplinary Academic Research and
	Innovation (ICMARI)" during January 28-29, 2023 in online mode organized jointly by
	Amiruddaula Islamia Degree College, Lucknow and Aryabhat Institute of Academics and
	Research. Title: Dynamics of quark gluon plasma with highly intense magnetic field.
	"Invited Lecture" on topic entitled "Involvement of magnetic field on quark gluon plasma
	evolution in relativistic heavy-ion collisions" in 2 nd International Conference on "Advanced
	Functional Materials and Devices" (AFMD-2023) organised by IQAC & Department of
	Physics, ARSD College, University of Delhi during 13-15 th March 2023 via online mode.
	Thybrody Throb Conege, Chirpordy of Louis adding to the Thimes 2020 the Chimes model
Re	esearch Projects (Major Grants/Research Collaboration)
	1. DBT Star Project: UV photodetection: An urgent requirement for measuring germicidal
	radiation, Project Investigators: APS Gahlot, Yogesh Kumar, Manju Rani, Aditya Saxena
	and RK Meena.
	2. DBT Star Project: Investigations of highly conducting and transparent Sc doped ZnO
	films
	grown by the sol-gel process: A promising highly conducting material for Solar cell
	fabrications on three different substrates. Project Investigators: Dr. U. P. Tyagi, Dr.
	Ruchika Joshi, Dr. Yogesh Kumar, Ms. Deepti Goel.
	3. International Research Collaborator, Prof. Abdel Nasser Tawfik, Nile University, Egypt
	and National Collaborators are from NSUT, NPL Delhi, DU, Amity University, IUAC
	etc

Awards and Distinctions

1	Cleared December -2008 (NET+JRF) conducted by Council of Scientific and Industrial
	Research (CSIR). Called for Shyama Prasad Mukherjee (SPM) fellowship, 2009 from CSIR.
	Received UGC Rajiv Gandhi National Fellowship (RGNF) in 2007.
	Best Presentation Award in the IAPT Regional Competition on Innovative Experiments in
	Physics- 2019 organised by the IAPT, RC-1, 2019.
	Best Oral Presentation award in three days national conference on Advance Interdisciplinary
	Research (ICAIR-2021) jointly organized by Shri P. G. College, Lucknow and Science Tech
	Institute, Lucknow 2021.
	Received/Won 1 st Position/Prize in the Regional Competition on Innovative Experiments in
	Physics- 2022 organised by the IAPT, RC-1 on 24-25 September 2022.
	Best Researcher Award-2021 in three days International Conference on Advance
	Interdisciplinary Research (ICAIR-2021) jointly organized by Amiruddala Islamia Degree
	College, Lucknow and Science Tech Institute, Lucknow 31st July, 2021.
A 990	ociation With Professional Bodies
A330	Clation with Floressional Bodies
	Life Time Member (L2322) of Astronomical Society of India, Department of Astronomy,
	India.
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	Life Time Member of Indian Physics Association (IPA).
Othe	r Activities/Achievements
Othe	1 ACTIVITIES/ACTICITIES
Г	Appointed as an Executive Council member of Indian Association of Physics Teachers
	(IAPT, RC-1) 2017-2021, Delhi and Haryana Region.
	- Control of the cont
	2021 (Every Saturday).
l	Paper setting convener and member for setting the Question paper for different courses
0	f undergraduate courses in the discipline of Physics in University of Delhi, New Delhi-2018.
	Organizing Secretary of the International Conference on Physics, Society and
	echnology, 17-19th January, 2019 at University Conference Hall, University of Delhi
0:	rganized by Deshbandhu College, D.U., Kalkaji, New Delhi-110019.
	Convener in the DU-Pre-Entrance summer school-2019, University of Delhi from
	01-06-2019 to 16-06-2019 for imparting training to undergraduate students in the
	discipline of Physics.

		Coordinator in the INSPIRE DST Internship Programme in the department of physics,
		Deshbandhu college, University of Delhi held during 18th- 21st December, 2017 at
		Kalkaji, New Delhi, India.
		Written two chapters of Statistical Mechanics for PG students syllabus at Uttarakhand
	_	Open University, course code: MSCPH508, 2020.
		Appointed as an Observer in conducting National Standard Examination - 2019 on
		24.11.2019 for school students (Class XI & XII) in India.
		Organised seventh annual convention of IAPT, RC-1, Delhi 2019.
		Subject working groups member in designing the syllabus of solid state physics for B.Sc.
		(Hons) Physics and B.Sc. Physical Sciences students, LOCF (CBCS) Undergraduate
		Physics courses revision of Delhi University, 2019.
		Final drafting team Member LOCF (CBCS) Undergraduate Physics courses revision 2019
		at Department of Physics and Astrophysics, University of Delhi, 2019.
		Paper setter for various Physics papers of B.Sc. (Hons) Physics, May 2020, at Indira
		Gandhi University, Rewari, Haryana.
		Appointed as chairman of a session of the "Workshop on Physics at
		FAIR-NICA-SPS-BES/RHIC" and parallel session "Heavy Ion Collisions and Critical
		Phenomena" during ICNFP-2020 (International Conference).
		Member of Sub-Committee of Committee of Courses (Hons.) P.G. and Research Studies
		and the committee of courses (Under-graduate) to appoint external practical examiners
		and theory paper setting, 2018. Member of Courses of Committee to ravise the undergraduate syllabus (CRCS) of
		Member of Courses of Committee to revise the undergraduate syllabus (CBCS) of
Г	_	University of Delhi 2018. Member in the courses of committee for moleing model test noner of element of modern
L		Member in the courses of committee for making model test paper of element of modern physics for B.Sc. (Hons) Physics, University of Delhi, session 2020.
Г		Organised various IAPT online lecture series for IAPT RC-1 and DSSTF, 2020.
		Organised 8 th Annual convention on 10-11, Oct, 2020 for by IAPT Delhi and Haryana
		region (RC1).
		Organized online IAPT Annual Convention 24-25, September, 2022 conducted by IAPT.
		Organised online 10 th Prof. Ved Ratna Memorial Lecture conducted by IAPT RC-1 on 15
Г	_	April, 2022.
L		Organized a Short-term training workshops on Innovative Hands on Experiments with Arduino and its Applications on June 18th and 19th 2022 conducted by IAPT RC-1.
		Appointed as a Secretary of Indian Association of Physics Teachers (IAPT, RC-1)
	_	2022-2024, Delhi and Haryana Region.
		Judge for drama competition at centre level (district north, north west-A & B) on 29 th
	_	September 2022 organized by directorate of education, New Delhi.
		Invited as a external examiner for evaluating non-teaching credit courses of UG and PG
	_	student of Nanotechnology 2018.
		Reviewer of reputed journal Physica Scripta (IOP Publishing) having Impact Factor:2.7.
		Reviewer of reputed journal J. Phys. G: Nuclear and Particle Physics having Impact
	_	Factor: 3.5.
		Editorial Review Board member on Physical and Mathematical & WASET Scientific and
	_	Technical Committee of World Academy of Science, Engineering and Technology
		(WASET) 2021.

	Coordinator of International Webinar on Title Horizon of High-Energy Physics by Prof.
	Abdel Nasser Tawfik on 07 January, 2023.
	Judge for event: Innovation and Entrepreneurship Challenge organizes an Inter-school
	competition 'Reverberations' every year to promote the spirit of healthy competition
	among students organized Bal Bharti Public School on October 2021.
	Editorial Board Member of International Journal of High Energy Physics (IJHEP). ISSN
	Print: 2376-7405; ISSN Online: 2376-7448 from 2022 to 2024.
	Organized a Short-term training workshops on Innovative Hands on Experiments with
	Arduino and its Applications on June 18th and 19th 2022 conducted by IAPT RC-1.
	Appointment as a Observer in Bal Bhart International School, Sec-12 New Delhi for
	conducting National Standard Examination-2022 on 26 and 27, November, 2022.
	Active Participation in the evaluation of reports of the experiments during the prelims
	round of NAEST-2022 organized by National Anveshika Network of India (NANI) a unit
	of IAPT in collaboration with SHIKSHA SOPAN.

Yogesh Kumar