Academic Information (Universal) detail from April 2015 to March 2016 by

Dr. Rakesh Kumar Singh,

Asst. Professor cum Prof. in charge –Establishment

Aryabhatta Centre for Nanoscience & Nanotechnology, Aryabhattaknowledge University, Patna

Responsibilities: At present responsible for(1) Assisting general administration, looking, planning &development of different affairs of Establishments of ACNN(2) familiarity/liaising with the administrative system of academics for Interdisciplinary frontier area of 21st century,university Centre set up, in addition to my academic Engagement in CategoryI. Curricular Aspects, CategoryII. Teaching-learning and evaluation, CategoryIII. Research, Consultancy and Extension.

Publication in International/ National Journal/ Proceeding

- Rakesh Kumar Singh et.al., Crystal Structure and Magnetic Property Studies on NanocrystallineLauh (Iron) Bhasma-An Ayurvedic Medicine, Int. J. Ayu. Alt. Med., 2016; 4(1).
- Rakesh Kumar Singh, Jyoti Shah, R. K. Kotnala, Magnetic and Dielectric Properties of Rare Earth Substituted Ni_{0.5}Zn_{0.5}Fe_{1.95}R_{0.05}O₄ (R= Pr, Sm & La) Ferrite Nanoparticles, Material Science and Engineering: B, DOI-10.1016/J.mseb,2016.03.011
- 3. Amarendra Narayan and Rakesh Kumar Singh, Beyond Classroom: Some College and University level experiments that foster research driven learning, proceeding, Natn. Conf. Science Education: Issues, Challenges and Strategies- In press.
- 4. Rakesh Kumar Singh, Amarendra Narayan, Year 2015- International Year of Light:

 An opportunity to know the importance of Science & Scientist for shaping the society,
 International J. of Engineering and Technical Research (IJETR), V0l.3,(2015)P.112-115.

Publication in International/ National Journal/ Proceeding

- 5. Rakesh Kumar Singh, Amarendra Narayan and Dolly Sinha, Low Temperature Preparation and Effect of Pr³⁺, La³⁺, Sm³⁺ and Gd³⁺ Substitution on Structural, Magnetic and Dielectric, Studies of Ni_{0.5}Zn_{0.5}Fe₂O₄ Ferrite Nanoparticles, International Journal of Innovative Science and Modern Engineering (IJISME). Vol.3(2015)1-6.
- 6. Rakesh Kr Singh, Sanjay Kr, Abhaykraman, ManoranjanKar, Evaluation of iron oxide nanoparticles (NPs) on aging and age related metabolism and physiological changesin*C.elegans*. Reported, International Nano letters.
- 7. Nanotechnology: Emerging technology of 21st century(**full length article-one page**),

 DainikJagaran, Jagaran Josh, Patna-Lucknow edition,14th March 2016, pp.11
- 8. Rakesh Kr Singh, Sanjay Kumar, Abhay Kr Amam, S.M.karim, sunil Kr and ManoranjanKar, Study of Ayurvedic Nanocrystalline *Tamra* and *Sankh*Bhasma physical Characteristics by Employing Modern Scientific tools and Applications, reported in European Advanced Materials Congress- 2016, Stockholm, Sweden.
- 9. Rakesh kr Singh, Abhay Kr Aman and R.K.Verma, Optical and Thermal properties of Barium hexaferrite nanoparticles in quenching and annealing, Reported in JTAC-Springer, March 2016.

Ph. D Students enrolled and working under my supervision:

Mr. Sanjay Kumar and Mr. Abhay Kumar Aman

M.Tech students enrolled and working under my supervision

Md. QuamarTanvirand Saurbh Kr Sharma.

<u>Note</u>- One research paper published by Sanjay Kumar, Ph.D scholar in peer reviewed impact factor journal, and another reported in International Journal. One paper presented in National Conference by Sanjay Kumar and Abhay Kumar Aman. M. Tech thesis work is in progress. 2014-2016 batch students completed their course by the end of May 2016 and 2015-2017 session is going on. One research paper reported in International Conferences for presentation ,Sweedan (European Congress)

Invited Talk /Paper presented/ Lecture delivered as a Resource Person

S. No	Events Name and Topic of paper/Lecture	Date and Venue	Organized/ Invited By
1	UGC sponsored National Conference cum workshop	30 th Jan	MagadhMahila
	on: Science Education, Issues, Challenges and Strategies,	2016	College, Patna
	title- "Beyond Classroom: Some College and	Patna	University
	University level experiments that foster research		
	driven learning".(<u>paper presented</u>)		
2	Senior Resource Person meet of Utsahi Physics	10-12 June	Dept. of Physics,
	teachers, coordinated by Prof. H.C.Verma, IIT Kanpur	2015	IITKanpur
	and National Anvesika network of India(NANI)-Indian	I.I.T Kanpur	IAPT-NANI
	Association of Physics Teachers(IAPT) meet-2015, Issues		
	of Physics education and Revitalization of experiment		
	assisted science teaching and Inspired for Research(
	Presented and plan future activities)		
3	Children Science Congress- A programme of DST Govt.	Biharsharif	NCSTC-DST, Govt.
	of India, Conducted teachers workshop- on Nanoscience	Nalanda	of India
	and Its Applications(<u>Invited lecture</u>)	16 Oct 2015	Science for Society ,
			Bihar
4	National Seminar on Importance of Light and Light	Kanpur	UGC and Kanpur
	based Technologies. Talk delivered on Luminescence	University	University
	properties of Magnetic nanoparticles and their	13 June 2015	
	Applications(Invited Lecture).		
5	INSPIRE- An Initiative of DST-Govt. of India. Invited Talk	A.N.College	DST-Govt. of India
	on Think at small level and foster big Innovations(Patna	and A.N.College,
	Invited Lecture)		Patna

Category II- Seminars/ Conferences/ Scientific Tour Organized/ Conducted

S · N	Name of the Programme	Date and Venue	Responsible for
1	National Anvesika Network of India- Experimental Skill test-2015, screening, 8 th Aug and prelims 30 th Sep, 2015	Science College Patna University	Co-ordinator
2	UGC sponsored National seminar on Environmental pollutant, safty measure and managment	5-6 Dec. 2015	Organizing Committee member
3	National Graduate Physics Examination-2015 of Indian Association of Physics Teachers(IAPT)- Bihar state level- An Olmpaid Examination for growth in higher education and Research(Compaigning, and conducting examination)	24 January 2016	Coordinator
4	21 st National Children Science Congress: A Programme of Govt. of India on Focal theme "Energy: Explore, Harness and Conserve", Organized by-NCSTC-Network, Delhi, Science for society Bihar.	29 th Oct 2015 Patna	Valued guidance as a member of Evalution committee member for the selection of national team(Bihar state awardee)
5	UGC sponsored, National Conference on 'Physics education- Issues, Challenges and Prospects, at MagadhMahila College, Patna university	30 th Jan to 1 st Feb 2016	Organizing Committee member
6	National Standered Examination -2015 of IAPT	23 rd May 2016	Jt. Coordinator
7	Performance of participitants of Elocution competition at S.K.Science center, Ministry of culture, Govt. of India on the focal theme-Science & Technology for 21 st Century.	28 th Fen 2016- National Science day.	Judges
8	OrnanizedPublic lecture on –Emeging fields in Biomedical Science and opportunities in Research/higher studies in India and abroad , Resource Person- Irfan Ahmad Ghazi, University of Hyderabad	29 th may 2015 BBrainDevlope ment Society	Coordinator
9	State level Balsri selection programme-2015 on focal theme-Creative scientific innovation, Organized by-Kilkari, Dept. of Education, Govt. of Bihar	1 st Nov 2015 Patna	Judges

Various Member of Committee of AKU and its unit and worked/ participated for their progress

S.	Name of Committee	Nominated by/
N		Order by Hon'ble
1	Selection Committee member in Teachers appointment in Indrakali Ramji Singh B.Ed College, Gopalganj as a University representative	Vice-Chancellor
2	National Survey by DST-Govt. of India on Resourses devoted to Scientific and Technological activities-2015-16 of AKU: Report Preparation	Vice-Chancellor
3	Ethical Committee of P.G Deptt. of Aurvedic Education of Govt. Ayurvedic College, AKU, Patna	Head, P.G Deptt. of Aurvedic Education of Govt. Ayurvedic College
4	AKU building foundation stone-Invitation committee member	Pro-Vicechancellor
5.	Post-Graduate Research Council(PGRC)of School of Enginnering and Technology, AKU	Vice-Chancellor
6	Center Suprintendent of M.Tech-Ph.D-nanoscience and Ph.D-Education, entrance Examination-2016, Dated-	Vice-Chancellor
7	B.Tech-Physics examination(Re),AKU,questation paper- moderation committee	Vice-Chancellor
8	Organizing Committee member of 2 nd Convocation of AKU	Vice-Chancellor
9	Member of RUSA proposal preparation of AKU	Vice-Chancellor
10	International YOGA day at AKU-21 st June 2016, Planning	Registrar
11	Preparation of Draft ordinance of new Schools of AKU, under the chairmanship of Pro Vice chancellor-AKU	Vice-Chancellor
12	Preparation for compliance of the Hon'ble Governor secretariat letter no.BSU-14/2015, Regarding details write up the different affairs of the university	Vice Chancellor
13	Member of Internal assessment committee for implementation of new assessment system for all Community Colleges of Bihar, under AKU	Vice Chancellor
14	Member of formulation of Astronomy and AstroPhysics at AKU	Vice Chancellor
15	Group health Insaurance for Staff, working Committee member	Vice Chancellor
16	Committee member of Planning and execution of M.Tech & Ph.D exam, nanoscience and Ph.D education-exam 2016, dated 19 th Jan 12016	Vice Chancellor

$\label{lem:committee} \ \ Various\ Member\ of\ Committee\ of\ ACNN, AKU\ \ and\ worked\ for\ their\ progress$

S.No	Name of Committee	Nominated by/By the	
		Order	
1	Esatblishment Officer(Professor Incharge-	Vice Chancellor	
	Establishment) of ACNN, AKU		
2	Discipline Committee	Head, ACNN	
3	Anti ragging Committee of ACNN(Teachers	Head, ACNN	
	Representative)		
4	Academic regulation Committee of	Vice Chancellor	
	M.Tech&Ph.Dprogramme		
5	Tender committee member of ACNN	Vice Chancellor	
6	Academic Routine Incharge, ACNN	Head, ACNN	

Participation in Seminars/ Symposium/ Conferences

S.No	Name of the Programme	Date and Venue	Organized By
2	World Culture Festival: celebrating	13-15 March 2016	The Art of Living
	humanity in diversity	Delhi	Foundation
3	Seminar on Public health awareness	29 th Nov 2015	Nalanda
		AdhiveshanBhawan,	International
		Patna	University
4	Workshop on "Training of	19 th May 2015	AKU, Patna
	Trainers"		
5	Sustainable solution to water, waste	8-9 May 2015	NEERI-CSIR and
	water and solid waste		Dept. of Chemistry, A.N.College, Patna
6	Annual General body meeting of	10 th June 2015	Science for Society.
	Science for Society, Bihar, member-	Science College,	Bihar, member-
	NCSTC network, Delhi, Main	Patna University	NCSTC network,
	Agenda-Science and technology		Delhi
	activities for Districts of Bihar		

Academic Photographs of Dr. Rakesh Kr Singh, Asst. Prof. cum Establishment Officer



Deliversing a Lecture (Invited Talk) as a resource person in INSPIRE Workshop- A programme of DST-Govt. of India, Venue- A.N.College, Patna



Delivering a Lecture as **Resource person in Teacher workshop** at Nalanda, Bihar Sharif In CSC-Programme of **DST-Govt. of India**



Delivering a Talk as a Resource Person on Nano Science in National Seminarat Kanpur University. Persons on the dias- R to L: Dr. R.K.Singh, AKU, Prof. Tiwari, Kanpur Univ, Vice Chancellor, Kanpur University, U.P, Prof. H.C.Verma, IIT Knpur, Dr. Sanjay Kr Sharma, IAPT-Secreatry.





Participated as a Judges to select a budding scientist from state Bihar at Kilkari, Unit of Dept. of Education, Govt. of Bihar