

2014

Curriculum vitae

Prof. R. G. Sonkawade

Dept., of Physics

Shivaji University,

Kolhapur-416 004

Former Dean, School for

Physical Sciences,

Babasaheb Bhimrao

Ambedker University

(Central University)

Lucknow-25

CURRICULUM VITAE

Name: Dr. R. G. Sonkawade
Current Position: Professor
Present Address: Department of Physics,
Shivaji University, Kolhapur-416 004.
Contact Telephone: +91-231- 22609228 (Direct line)
Mobiles: 9763041193 (Maharashtra); 09968314294
E-mail: sonkawade@gmail.com www.sonkawade.com



Last Profession: Former Dean
School for Physical Sciences Professor,
Former Coordinator, Dept., Of Applied Physics
Former Director (i/c), Residential Coaching Academy
**Babasaheb Bhimrao Ambedkar University
(Central University)**, Vidya Vihar, Rae Bareli Road,
Lucknow-226025, UP

Senior Scientist
Inter University Accelerator Centre (Formerly Nuclear Science
Centre) [Reserach institute of University Grants Commission]
New Delhi-110 067

Academics:

Degree	University
B. Sc	Dr. Babasaheb Ambedkar Marthwada University, Aurangabad, Maharashtra, India
M. Sc	-do-
Dip. R. P*	Bombay University, Mumbai, Maharashtra, India
Ph. D**	Hemwati Nandan Bahuguna University, (Central University) Tehri Grahwal, Srinagar, Uttarakhand, India

***Dip. R.P: Post Diploma in Radiological Sciences, conducted by Bhabha Atomic Research Centre (BARC), Mumbai and the degree awarded by Bombay University, Mumbai.**

****Radon, thoron and helium studies in air, soil and ground water: Application to Geothermal Resources and Radiation Protection**

Brief

Education:

I was awarded the Degree of Doctor of Philosophy from Hemwati Nandan Bahuguna University, Srinagar (Garhwal), Uttarakhand. I completed my M.Sc. in

Physics with specialization in Electronics in the year 1995 from Dr. Babasaheb Ambedkar Marathwada University, Aurangabad, Maharashtra State and also acquired my post M. Sc. Diploma in Radiological Physics (DRP) from Bhabha Atomic Research Centre (BARC), Mumbai.

Work Experience:

Position	Institution	Tenure
Professor	Department of Physics, Shivaji University, Kolhapur-416 004, Maharashtra	September 2014 to till date
Scientist	Inter University Accelerator Centre (Formerly Nuclear Science Centre), New Delhi-110 067	June 2013 to September 2014
Professor , Dean,	Babasaheb Bhimrao Ambedkar University (A Central University), Vidya Vihar, Rae Bareilly Road, Lucknow-226025, UP	June 2011 to June 2013
Scientist	Inter University Accelerator Centre (Formerly Nuclear Science Centre), New Delhi-110 067	September 1997 to June 2011
Medical Physicist	Shri Siddhivinayak Cancer Hospital, Miraj.	February 1997 to September 1997
Medical Physicist	Uddhav Memorial Cancer Hospital, Mumbai-Agra Road, Adgoan, Nasik.	October 1996 to January 1997

Total experience at National Research Institute & University: ~18 Years

Expertise/Areas of Specialization:

- Physics
- Radiation Protection in the Accelerator/Environment.
- Radiation Dosimetry (Neutron and Gamma).
- Material Sciences (Polymers and TLD).
- Radiation Physics/Nuclear Geophysics.
- Medical Physics.

Patents: 01 (3138/DEL/2010)

Publications:

Seventy five publications have appeared in many reputed referred journals in

the field of material sciences/radiation protection/radiation in environment. Published around 68 research papers in the refereed journals, 20 in the conference proceedings and 52 in the book of abstracts and 15 technical reports (Please see **Annexure-1**)

Participation:

Participated in the international and national conferences and delivered various lectures related to field of radiation physics and environment. Have presented many Invited Talks at National and International level conferences. As well actively participated in the International Conferences on educational reforms and being a member of various statutory bodies of Institutes of National Importance, Central Universities, Deemed Universities and autonomous colleges contributed a lot for higher education through such bodies.

Recognition and Awards:

- **International Atomic Energy Agency (IAEA), Vienna, Austria** has awarded me a grant of US \$3600 to facilitate the participation at the 10th International Conference on Environmental Remediation and Radioactive Waste Management, which was held at **Glasgow, Scotland, UK.**
- I got the Visiting Scientist Fellowship from **Japan Society for Promotion of Sciences (JSPS), Japan.**
- I have worked as a visiting scientist at **High Energy Accelerator Research Organization (KEK), 1-1 oho, Tsukuba-Shi, Ibaraki-Ken, 305, Japan** from June to September, 2006.
- Recognized guide at **Jawaharlal Nehru University (JNU), N. Delhi** for guiding Ph.D. students.
- Recognized Co-guide at various Universities and NITs
- Ph.D., awarded 04
- Guiding 07 Ph.D. research scholars at present in the capacity of Guide.

Membership/Affiliation and Positions held:

Membership of Societies

- The International Nuclear Track Society (INTS)
- International Radiation Physics Society (IRPS)
- Indian Association of Radiation Protection (IARP)
- Nuclear Track Society of India (NTSI)

Positions

- Member, General Council, National Institute for Hearing Handicapped, Mumbai, Govt of India nominee from Ministry of Social Justice, Delhi (2014-2016)
- Patron, Nuclear Track Society of India (NTSI) [2013-2015]
- President, Nuclear Track Society of India (NTSI) [two terms for 04 years 2009-2013].
- Have served as the Organizing Secretary as well as a member of the Organizing Committees of various National & International conferences and workshops.
- UGC nominated member on various committees of different Universities to review the promotion of readers to professors under the Career Advancement Scheme (CAS). Various Universities of the country visited as a UGC observer.
- UGC nominated member of the Governing Board of various autonomous colleges.
- Peer Team Member/Member Co-ordinator, National Assessment and Accreditation Council (NAAC), for universities and colleges assessment. More than 35 Colleges and a few universities so far accredited by me in the capacity of Member and member coordinator.

STATUTORY BODY MEMBERSHIP:

- Member, Board of Management at Babasaheb Bhimrao Ambedkar University (A Central University), Lucknow for a period of 3-years from May 2012.
- Member, Finance Committee at Babasaheb Bhimrao Ambedkar University (A Central University), Lucknow for a period of 3-years from 10/07/2010.
- Member, Board of Studies, University School of Basic and Applied Sciences, Guru Gobind Singh Indraprastha University, New Delhi for a period of 2-years from 05/10/2010.
- Member, Planning board at Babasaheb Bhimrao Ambedkar University (A Central University), Lucknow for a period of 3-years from 01/05/2009.

- Member, Governing Council, Inter University Accelerator Centre (formerly Nuclear Science Centre), N. Delhi for a period of 3-years from November 2010.
- Member, Governing Board, Inter University Accelerator Centre (formerly Nuclear Science Centre), N. Delhi for a period of 3-years from November 2010.
- Member, Finance Committee, Inter University Accelerator Centre (formerly Nuclear Science Centre), N. Delhi for a period of 3-years from November 2010.
- Member, Scientific Advisory Committee, Inter University Accelerator Centre (formerly Nuclear Science Centre), N. Delhi for a period of 3-years from November 2010.
- Member, Accelerator Users Committee, Inter University Accelerator Centre (formerly Nuclear Science Centre), N. Delhi for a period of 3-years from November 2010.
- Member, General council, Netaji Subhas Institute of Technology, N.Delhi-110 078 for a period of 3-years from May 2010.
- Member, Board of Management, Jain Vishva Bharti University (Deemed University), Ladnun, Rajashtan, (UGC nominee) for a period of 3-years from January 2009
- Member, Board of Management of the IIS University (Deemed University), Jaipur, Rajashtan, (UGC nominee) for a period of 3-years.
- Member, Planning & Monitoring Board of Vignan's Foundation for Science, Technology & Research, (Deemed University), Vadlamudi-522 213, Guntur (A.P.) (UGC nominee) for a period of 3-years.
- Member, Governing Council of High Altitude Plant Physiology Research Centre of Hemwati Nandan Bahuguna Garhwal University, Uttaranchal, (UGC nominee) for a period of 3-years.
- Member, Advisory Committee of Karpagam University, Karpagam Academy of Higher Education, Coimbatore (Tamilnadu) for a period of 3-years.
- Member, Governing Board, Sadakatappa College (Autonomous College) Tirunelveli, Tamilnadu, for a period of 6-years from 2006-07.
- Member, Governing Board, Ambah College (Autonomous College) Ambah, Madhya Pradesh for a period of 6-years from 2006-07.
- Member, Academic Council, Prince Institute of Innovative Technologies, Gaziabad.

Chairman of Statutory Bodies

- ➔ **Chairman, Board for Post Graduate Studies (BPGS)**, Babasaheb Bhimrao Ambedkar University (A Central University), Lucknow for a period of 3-years from August 2011.

➔ **Chairman, School Board**, Babasaheb Bhimrao Ambedkar University (A Central University), Lucknow for a period of 3-years from August 2011.

➔ **Chairman, Research Development Committee**, Babasaheb Bhimrao Ambedkar University (A Central University), Lucknow for a period of 3-years from August 2011.



Other Assignments:

- Subject expert/nominee in different selection Committees of various academic and administrative posts in various research institutes/state Universities and central universities.
- Nominated member of selection committees in various offices of Maharashtra State Government
- Chairman, University Level Purchase Committee, Babasaheb Bhimrao Ambedkar University (A Central University), Lucknow
- Chairman, Sports Advisory Committee, Babasaheb Bhimrao Ambedkar University (A Central University), Lucknow
- Member of roster preparation committees at different institutes.
- Approved member on various institutes/Universities as Research Guide.
- Member, Standing Committee on Administration and other committees of Inter University Accelerator Centre, N. Delhi.

Overseas assignments:

Have visited many countries to present/participate papers and deliver/contribute Lectures on various occasions, like:

- **Barcelona, Spain (Europe) in 2004** (to attend the 22nd International Conference on Solid State Nuclear Track Detectors).
- **Glasgow, Scotland (UK, 2005)** (to attend the 10th International Conference on Environmental Remediation and Radioactive Waste Management).
- **Japan (Asia, 2006)** (visiting Scientist at High Energy Accelerator Research Organization).
- **Belgium (Europe, 2007)** (to attend the 11th International Conference on Environmental Remediation and Radioactive Waste Management).

Research Projects:

1. Principal Investigator of Research Project entitled "Estimation & Evaluation of Radon, Thoron in the Soil, Fly Ash and Radiation shielding materials and

its systematic analysis with Gamma Spectrometry", (University Grants Commission, N. Delhi-02 RS. 11,98,800, F.No.42-813/2013(SR) 21st March 2013).

2. Principal Co-Investigator of Research Project entitled "Characterization of Conducting Polymers and their Structural, Electrical, Optical Properties by using swift heavy ions", Nuclear Science Centre, New Delhi, 2004 to date (UGC Funded University Projects).
3. Principal Co-Investigator of Research Project entitled "Development and Applications of Nuclear Track Filters using swift heavy ions" Inter University Accelerator Centre (UGC Funded University Projects)
4. Principal Co-Investigator of Research Project entitled "The study of Electrical, Optical and Structural properties of Irradiated Conducting Polymers" Inter University Accelerator Centre (UGC Funded University Projects)
5. Principal Co-Investigator of Research Project entitled "Study of Nano Scale Voids and free volume in heavy ion induced in conducting Polymers By-positron Annihilation Spectroscopy" Inter University Accelerator Centre (UGC Funded University Projects).
6. Principle Co-Investigator of Research Project entitled "Seismo-Tectonic Studies and Health Risk Assessments in the Himalayas with special emphasis on Radon and Helium Emission". **Department of Science and Technology**, New Delhi, 2005. (DST/23(476)/SU/2004)

Annexure-1

LIST OF PUBLICATIONS

Papers in Refereed Journals:

1. Anil Sharma, Ajay Kumar Mahur, R G. Sonkawade, A.C.Sharma and Rajendra Prasad (2014): Study of radon, thoron concentration and annual effective dose in some dwellings of Aligarh city Uttar Pradesh and Dwarka Delhi, India; Int. J. Curr. Res. Aca. Rev., 2(9). [ISSN: 2347-3215, Impact =] Publisher:
2. Rajeev Kumar, **R.G. Sonkawade**, M. Tripathi, P. Sharma, P. Gupta, P. Kumar, A. K. Pandey, C. Bal, N. A. Damle, G. Bandopadhyaya (2014): Production of the PET bone agent ¹⁸F-fluoride ion, simultaneously with ¹⁸F-FDG by a single run of the medical cyclotron with minimal radiation exposure-A novel technique; Hellenic Journal of Nuclear Medicine, 106-110.
3. Satendra Kumar, Parmjeet singh, **R. G. Sonkawade**, Kamledndra Awasthi, Rajesh Kumar (2014): 60MeV Ni ionj induced modifications in nano-CdS/polystyrene composite films. Radiation Physics and Chemistry 94; 49-53. [ISSN: 0042-207X, Impact = 1.317] Publisher: Elsevier
4. Yasir Ali, Vijay Kumar, **R. G. Sonkawade**, A S Dhaliwal (2014): Oxidative Polymerization of p-Toluenesulphonic Acid Doped Polypyrrole Spheroidal Using Galvanostatic Method; Energy and Environment Focus; Vol., 3, 1-6 [ISSN: 2326-3040, Impact =] Publisher: Elsevier
5. Yasir Ali, Vijay Kumar, **R. G. Sonkawade**, A S Dhaliwal and H. C. Swart (2014): Gamma radiations induced modifications in Au- polypyrrole nanocomposites: Detailed Raman and X-ray studies: Vaccum 99, 265-271 [ISSN: 0042-207X, Impact =] Publisher: Elsevier
6. Yasir Ali, Vijay Kumar, **R. G. Sonkawade**, A S Dhaliwal (2013): Swift heavy ion induced modifications in metal conducting polymer composite films, Nuclear Instruments and Methods in Physics Research (NIM B) 316, 42-47. [ISSN: 0168-583X, Impact = 1.211] Pub: Elsevier

7. P Ghosh, K Datta, A Mulchandani, **R. G. Sonkawade**, K Asokan and Mahendra D Shirsat (2013): A chemiresistive sensor based on conducting polymer/SWNT composite nanofibrillar matrix—effect of 100 MeV O¹⁶ ion irradiation on gas sensing properties: Smart Materials and Structures 22, 035004
8. Yasir Ali, Vijay Kumar, **R. G. Sonkawade**, M. D. Shirsat and A S Dhaliwal **(2013)**: Two step electrochemical synthesis of Au nano particles decorated polyaniline nano fiber, Vaccum 93, 79-83 [ISSN: 0042-207X, Impact = 1.317] Pub: Elsevier
9. Yasir Ali, Vijay Kumar, **R. G. Sonkawade** and A S Dhaliwal **(2012)**: Effect of swift heavy ion beam irradiation on Au-Polyaniline composite films: Vaccum 90, 59-64 [ISSN: 0042-207X, Impact = 1.317] Pub: Elsevier.
10. Yasir Ali, Vijay Kumar, **R. G. Sonkawade** and A S Dhaliwal **(2012)**: Fabrication of polyaniline nanofibres by chronopotentiometry: Advanced Materials Letters 3(5) 388-392. [ISSN: 0976-3961, Impact =] Pub: VBRI press.
11. Vijay Kumar, **R. G. Sonkawade** and A S Dhaliwal **(2012)**: Gamma irradiation induced chemical and structural modifications in PM-355 polymeric nuclear track detector film; Nuclear Instruments and Methods in Physics Research (NIM B) 290, 59-63. [ISSN: 0168-583X, Impact = 1.211] Pub: Elsevier.
12. Vijay Kumar, **R. G. Sonkawade** and A S Dhaliwal (2012): Effect of gamma irradiation on the properties of Plastic bottle sheet; Nuclear Instruments and Methods in Physics Research (NIM B) 287, 10–14. [ISSN: 0168-583X, Impact = 1.211] Pub: Elsevier.
13. Vijay Kumar, **R. G. Sonkawade** and A S Dhaliwal **(2012)**: High electronic excitation induced modifications by 100 MeV O⁷⁺ and 150 MeV Ni¹¹⁺ ions in Makrofol KG polycarbonate; Nuclear Instruments and Methods in Physics Research (NIM B) 287, 4–9. [ISSN: 0168-583X, Impact = 1.211] Pub: Elsevier.
14. Vijay Kumar, **R. G. Sonkawade**, S. K. Chakarvarti, and A. S. Dhaliwal **(2012)**: Carbon ion beam induced modifications of optical, structural and chemical properties in PADC and PET polymers. Radiation Physics and Chemistry 81, 652-658. [ISSN: 0969-806X, Impact = 1.277] Pub: Elsevier.

15. Devender Gehlawat, R.P. Chauhan, **R. G. Sonkawade** and S.K.Chakarvarti **(2012)**: "Effect of gamma irradiation on transport of charge carriers in Cu nanowires" *Applied Physics A*, 106(1) 157-164. [ISSN: 1432-0630, Impact = 1.76] Pub: Springer.
16. Devender Gehlawat, R.P. Chauhan and **R.G. Sonkawade**, **(2012)**: "Effect of neutron exposure on transport of charge carriers in Poly-crystalline Cu nanowires" accepted in *Science of Advanced Materials*, 4(11) 1134-1141. [ISSN: 1947-2943, Impact = 2.0] Publisher: American Scientific Publishers.
17. Vijay Kumar, **R.G. Sonkawade**, S. K. Chakarvarti, P. Kulriya, K. Kant, N.L. Singh and A. S. Dhaliwal **(2011)**: Study of optical, structural and chemical properties of neutron irradiated PADC film., *Vacuum* 86(3), 275-279 [ISSN: 0042-207X, Impact = 1.317] Publisher: Elsevier.
18. Rohit Mehra, Pankaj Bala, Komal Badhan, **R.G.Sonkawade**. (2011). *Assessment of Radiation dose due to natural radionuclides in various cement samples*, *International Journal of Low Radiations* Vol 8, No.2, 156-168. [ISSN: 1741-9190, Impact =] Publisher: Inderscience Publishers.
19. Rohit Mehra, Pankaj Bala, Komal Badhan, **R.G.Sonkawade**. (2011). *Assessment of seasonal indoor radon concentration in dwellings of Western Haryana*, *Radiation Measurements*, Vol., 46, 1803-1806. [ISSN:1350-4487, Impact = 1.317] Publisher: Elsevier
20. Ramola, R. C., Ambika Negi, Anju Semwal, Subhash Chandra, Rana, J M S ., **R.G. Sonkawade**, Kanjilal D. (2011). *High Energy Heavy ion Irradiation Effects in Makrofol-KG Polycarbonate and PET*. *Journal of Applied polymer Science* Vol. 121, 3014-3019. [ISSN: 0021-8995, Impact = 1.3] Publisher: Wiley Periodicals Inc.
21. Ambika Negi, R V Harivwal, Anju Semwal, **R G Sonkawade**, D Kanjilal, J M S Rana, R C Ramola (2011): Opto-chemical response of makrofol-KG to swift heavy ion irradiation. *Pramana*, 77(04) 707-714. [ISSN: 0304-4289, Impact = .562] Publisher: Indian Academy of Science.
22. Komal Badhan, Rohit Mehra, **R. G. Sonkawade** (2011). Studying the variation of indoor radon levels in different dwellings in Hoshiarpur district of Punjab, India *Indoor and Built Environment*.

doi:10.1177/1420326X11419983. 1420-326X [ISSN: 1420-326X, Impact = 0.634]
Publisher: Sage Publications.

23. Rohit Mehra, Sandeep Kumar, **R. G. Sonkawade**, N.P. Singh, Komal Badhan (2009). *Analysis Of Terrestrial Naturally Occurring Radionuclides In Soil Samples From Some Areas Of Sirsa District Of Haryana, India Using Gamma Ray Spectrometry*, Environmental Earth Sciences Vol. 59, Issue-05 pp:1159-1164. [ISSN: 1866-6280, Impact = 1.059] Publisher: Springer.
24. Devender Gehlawat, Shefali Jain, R. P. Chauhan and **R. G. Sonkawade**, "Synthesis and Characterization of ZnO nanoparticles" *ISST Journal of Applied Physics*, vol. 1(1) (2010) pp. 63. [ISSN: 0976-903X].
25. Rati Varshney., **R.G. Sonkawade.**, Monika Gupta., R.P. Chauhan., A.K. Mahur., K.Kant., A. parveen., S.K. Chakravarti. Bulk etch rate estimation of LR-115 SSNTDS using PHOENIX interface, *Radiation Measurement* 46(2011) 461-463. [ISSN: 1350-4487, Impact = 1.317] Pub: Elsevier.
26. **R G Sonkawade**, Vijay Kumar, Lalit Kumar, S Annapoorni, S G Vaijapurkar & A S Dhaliwal (2010): Effects of gamma ray and neutron radiation on polyaniline conducting polymer. *Indian Journal of Pure and Applied Physics* 48 453-456. [ISSN: **0975-1041**, Impact = 0.763] Pub: CSIR, N.Delhi.
27. K Kant, Rashmi, Sini Kuriakose, **R G Sonkawade**, R P Chauhan, S K Chakarvarti & G S Sharma (2010): Radon activity and exhalation rates in Indian fly ash samples. *Indian Journal of Pure and Applied Physics* 48 457-462. [ISSN: **0975-1041**, Impact = 0.763] Pub: CSIR, N.Delhi.
28. Vijay Kumar, **R G Sonkawade** & A S Dhaliwal (2010): Optimization of CR-39 as neutron dosimeter. *Indian Journal of Pure and Applied Physics* 48 466-469. [ISSN: **0975-1041**, Impact = 0.763] Pub: CSIR, N.Delhi.
29. Rati Varshney, A K Mahur, **R G Sonkawade**, M A Suhail, A Azam & R Prasad (2010): Evaluation and analysis of ^{226}Ra , ^{232}Th , ^{40}K and radon exhalation rate in various grey cements. *Indian Journal of Pure and Applied Physics* 48 473-477. [ISSN: **0975-1041**, Impact = 0.763] Pub: CSIR, N. Delhi.
30. Monika Gupta, R P Chauhan, Ajay Garg, Sushil Kumar & **R G Sonkawade (2010)**: Estimation of radioactivity in some sand and soil samples. *Indian*

- Journal of Pure and Applied Physics 48 482-485. [ISSN: **0975-1041**, Impact = 0.763] Pub: CSIR, N.Delhi.
31. R kumar, A K Mahur, H Singh, **R G Sonkawade**, R Swarup (2010): Radon levels in some dwellings around the international monument Taj Mahal, Agra using SSNTDs. Indian Journal of Pure and Applied Physics 48, 802-804. [ISSN: **0975-1041**, Impact = 0.763] Pub: CSIR, N.Delhi.
 32. R. Mehra, K. Badhan, **R G Sonkawade**, S Kansal, S Singh (2010): Analysis of Terrestrial natural radionuclides in soil samples and assessment of average effective dose. Indian Journal of Pure and Applied Physics 48, 805-808. [ISSN: **0975-1041**, Impact = 0.763] Pub: CSIR, N.Delhi.
 33. Monika Gupta, R P Chauhan, Ajay Garg, Sushil Kumar, **R G Sonkawade** (2010): Estimation of radioactivity in some sand & soil samples. Indian Journal of Pure and Applied Physics 48, 482-485. [ISSN: **0975-1041**, Impact = 0.763] Pub: CSIR, N.Delhi.
 34. A K Mahur, Rajesh Kumar, M Mishra, S A Ali, **R G Sonkawade**, B P Singh, V N Bhardwaj & Rajendra Prasad (**2010**): Study of radon exhalation rate and natural radioactivity in soil samples collected from East Singhbhum Shear Zone in Jaduguda U-Mines Area, Jharkhand, India and its radiological implications. Indian Journal of Pure and Applied Physics 48 486-492. [ISSN: 0975-1041, Impact = 0.763] Pub: CSIR, N.Delhi.
 35. Ambika Negi, Anju Semwal, Subhash Chandra, Hariwal R.V., **R.G. Sonkawade**, Kanjilal D., Rana, J M S ., Ramola, R. C., (2011). *Modifications induced by Li^{+3} , Ni^{+9} and Au^{+9} ion beams on CR-39 polymer track detector.* Radiation Measurement 46, No.01, 127-132. [ISSN: 1350-4487, Impact = 1.317] Pub: Elsevier.
 36. Anju Semwal, Ambika Negi, **R G Sonkawade**, J M S Rana & R C Ramola (**2010**): Effect of swift heavy ion irradiation on optical and structural properties of polysulphones polymer films. Indian Journal of Pure and Applied Physics 48 496-499. [ISSN: **0975-1041**, Impact = 0.763] Pub: CSIR, N.Delhi.
 37. Komal Badhan, Rohit Mehra & **R G Sonkawade (2010)**: Measurement of radon concentration in ground water using RAD7 and assessment of

- average annual dose in the environs of NITJ, Punjab, India. *Indian Journal of Pure and Applied Physics* 48 508-511. [ISSN: **0975-1041**, Impact = 0.763] Pub: CSIR, N.Delhi.
38. Sandeep Kansal, Rohit Mehra, N P Singh, Komal Badhan & **R G Sonkawade (2010)**: Analysis and assessment of radiological risk in soil samples of Hisar district of Haryana, India. *Indian Journal of Pure and Applied Physics* 48 512-515. [ISSN: **0975-1041**, Impact = 0.763] Pub: CSIR, N.Delhi.
 39. Mamta Gupta, A K Mahur, **R G Sonkawade**, K D Verma & Rajendra Prasad **(2010)**: Measurement of radon activity, exhalation rate and radiation doses in fly ash samples from NTPC Dadri, India. *Indian Journal of Pure and Applied Physics* 48 520-523. [ISSN: **0975-1041**, Impact = 0.763] Pub: CSIR, N. Delhi.
 40. Subash Chandra, Annapoorni S., Fouran singh., **R.G.Sonkawade**, Rana J. M. S., Ramola R. C. **(2010)**. Low Temperature resistivity study of nanostructured polypyrrole films under electronic excitations. *Nuclear Instruments and Methods in Physics Research (NIM B)*, 268, 62-66. [ISSN: 0168-583X, Impact = 1.211] Publisher: Elsevier.
 41. Subash Chandra, Annapoorni S., **R.G.Sonkawade**, P K Kularia, Fouran Singh, D K Awasthi, Rana J. M. S., Ramola R. C. **(2010)**. Interaction of oxygen (O⁺7) ion beam on polyaniline thin films. *Indian Journal of Phys.* 87(7) 943-947. [ISSN: 0973-1458, Impact =] Publisher: Indian Academy of Science.
 42. Subhash Chandra, Annapoorni, S., Singh, F., **R.G. Sonkawade**, , Rana, J. M. S., and Ramola, R. C. **(2010)**: The Effect of Oxygen beam (O⁺7, 100 MeV) and Gamma Irradiation on Polypyrrole Film. *Journal of Applied Polymer Science* ,Vol. 115, 2502–2507. [ISSN: 1097-4628, Impact = 0.763] Publisher: Wiley Periodicals, Inc., A Wiley Company.
 43. Kadam, S. B., Datta, K., Ghosh, P., Kadam, A. B., Khirade, P. W., Kumar, V., **R.G. Sonkawade**, Gambhire, A. B., Lande, M. K., Shirsat, M. D.**(2010)**: Improvement of ammonia sensing properties of poly (pyrrole)-Poly (n-methylpyrrole) composite by ion irradiation, *Applied Physics A.* 100, 1083-1088. [ISSN: 1432-0630, Impact = 1.76] Pub: *Springer*.
 44. **R.G. Sonkawade**, Kant, K., Papp, Z **(2009)**: Monitoring of radon and its progeny in the environment of the vertical 15UD Pelletron Accelerator

- facility. Int. J. Low Radiation Vol. 06, No.3, 231-247. [ISSN: 1741-9190, Impact =] Publisher: Inderscience Publishers.
45. Ramola, R. C., Subhash Chandra, Rana, J M S ., Raksha Sharama, Annapoorni S., **R.G. Sonkawade**, Kulriya, P. K., Fouran Singh, Avasthi, D. K. **(2009)**: Swift heavy ion induced modifications in structural and electrical properties of polyaniline. Current Science, Vol 97., No. 10, 1453-1458. [ISSN: 0011-3891, Impact = 0.897] Publisher: Indian Academy of Sciences.
 46. Ramola R. C., Subash Chandra, Ambika Negi, Rana J. M. S., Annapoorni S., Kularia P. K., **R. G. Sonkawade**, Srivastava, A. **(2009)**: Study of optical band gap, carbonaceous clusters and structuring in CR-39 and PET polymers irradiated by 100 MeV O⁷⁺ ions. Physica B, 404, 26-30. [ISSN: 0921-4526, Impact = 1.056] Publisher: Elsevier.
 47. Kant K, Rashmi, **R.G.Sonkawade**, Sharma G S., Chauhan R P., Chakravarti, S. K. **(2009)**: Seasonal variation of radon, thoron and their progeny levels in dwellings of Haryana and Uttar Pradesh. The radiological impact of the presence of radon, thoron and their progeny in the environment of a liquid petroleum gas bottling plant, Iranian J. Radiation Research Vol. 7(2) 79-84. [ISSN: 1728-4554 Impact =] Publisher: Novin Medical Radiation Institute.
 48. Joga Singh, Harmanjit Singh, Surinder Singh, Bajwa, B. S. and **R. G. Sonkawade (2009)**, Comparative Study of Natural Radioactivity levels in Soil samples from the Upper Siwaliks and Punjab, India using Gamma Ray Spectrometry, Journal of Environmental Radioactivity. 100, 94-98. [ISSN: 0265-931X, Impact = 1.339] Publisher: Elsevier.
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52. **R. G. Sonkawade.** Lochab, S. P., Dutta S. K. **(2002):** Neutron attenuation studies using BC501A detector & MCNP simulation techniques for different shielding materials. Symposium On Measurement and Computational Techniques in Radiation Physics and Safety (SMCTRPS), Shantiniketan, India, pp. 35. **[Invited talk]**

(Sonkawade R G)

International Conference on Radiation Environment Assessment, Measurement and its Impact (RADENVIRON-2012) held on April 12-14, 2012 at Babasaheb Bhimrao Ambedkar University, Lucknow. Organizing Secretary, RADENVIRON-2012, Prof. R . G. Sonkawade,

Chief Guest honorable Prof. Narendra Jadhav, Member, Planning Commission, Government of India, New Delhi. Honorable Maj. Gen (Dr) J. K. Bansal, Member, National Disaster Management Authority of India (NDMA), New Delhi, as a guest of honor.



National Conference on Accelerator and Low Level Radiation safety organized by Inter University Accelerator Centre, New Delhi during November 18-20, 2009 by Prof. R . G. Sonkawade, Organizing Secretary, NCALLRS-09

Chief Guest Honorable Dr. A. P. J. Abdul Kalam, Former President of India, inaugurating NCALLRS-09



Chief Guest on dias Honorable Dr. A. P. J. Abdul Kalam, Former President of India, Dr. Anil Kakodkar, Former Chairman, Atomic Energy Commission, Mumbai as a guest of honor, presided by Prof. S. K. Thorat, the then Chairman, University Grants Commission, New Delhi during inaugural function of NCALLRS-09



Conference on Accelerator and Low Level Radiation Safety (ALLRS-09) organized by Inter University Accelerator Centre, New Delhi held on April 26-27, 2007; Organizing Secretary Prof. R . G. Sonkawade, ALLRS-07

Chief Guest on dias Honorable Prof. B. L. Mungekar, Member, Planning Commission, Government of India, New Delhi, Dr. B. Bhattacharya, Member, National Disaster Management Authority of India (NDMA), New Delhi



MEDIA CLIPPINGS



अमर उजाला ब्यूरो

लखनऊ। राजधानी में न्यूक्लियर रेडिएशन के किसी भी संभावित खतरे का खतरा से पहले ही पता चल सकता है। यदि रेडिएशन का स्तर सामान्य से अधिक होगा तो उससे निपटने के फोरो उपाय भी किए जा सकेंगे, जिससे किसी भी बड़ी दुर्घटना को टाला जा सके। इसके लिए बाबा साहेब भीमराव अंबेडकर केंद्रीय विश्वविद्यालय (बीबीएयू) में इंडियन इन्वापरमेंटल रेडिएशन मॉनिटरिंग नेटवर्क सिस्टम (इरमान) की स्थापना की गई है।

देश में परमाणु विकिरण के संभावित खतरों से निपटने के लिए पहल की जा रही है। ऐसे में देश के राज्यों की राजधानी पर सरकार का सबसे अधिक ध्यान है। इसी कड़ी में भाभा एटॉमिक रिसर्च सेंटर, मुंबई



इरमान सेंटर के बारे में बताते प्रो. आरजी सोनकोठी

ने अंबेडकर विश्वविद्यालय को इस प्रोजेक्ट के लिए चुना है। यह देश का पहला केंद्रीय विश्वविद्यालय है जहां उच्च तकनीक से लैस मॉनिटरिंग नेटवर्क सिस्टम स्थापित किया गया है। एजस्टेंट सॉलोज कुमार सिंह एवं अप्पहाइड फिजिक्स के प्रो. आरजी सोनकोठी ने बताया कि आम तौर पर 96 फीसदी रेडिएशन प्राकृतिक होते हैं जबकि दो प्रतिशत रेडिएशन मेडिकल इंसट्रूमेंट से होते हैं। साथ ही परमाणु ऊर्जा उत्पादन केंद्र भी दो फीसदी रेडिएशन के जिम्मेदार होते हैं। विश्वविद्यालय

सुरक्षा बलों को मिलेगा प्रशिक्षण

विश्वविद्यालय के खाने में इरमान सेंटर के साथ ही एक और महत्वपूर्ण उपलब्धि आई है। पिछले दिनों राष्ट्रीय स्तर पर प्रशिक्षण कार्यक्रम के तहत बीबीएयू का विजिट किया था। यहां मौजूद इरमान सुविधा को देखते हुए विश्वविद्यालय ने परिसर में रेडिएशन फैलीकेशन ऐडिशन सेंटर खोलने का फैसला किया है। ट्रेनिंग सेंटर में पुलिस एवं अल्पगैंग्रिया बलों के जवानों को रेडिएशन के खतरों से निपटने के तरीके बताए जाएंगे।

एडवांस रिसर्च के लिए गामा चेंबर

विश्वविद्यालय को डिपार्टमेंट ऑफ एटॉमिक एनर्जी ने एडवांस एटॉमिक रिसर्च एवं गामा चेंबर नि:शुल्क उपलब्ध कराया है। दिल्ली विश्वविद्यालय में हुए बैठक के तहत महापुरी में रेडिएशन के बाव एटॉमिक एनर्जी रेगुलेटरी बोर्ड ने विश्वविद्यालय में इनको प्रयोग पर रोक लगा दी है। हालांकि प्रो. सोनकोठी का खया है कि बीबीएयू के बेहतर सुविधा 'उपरोक्त को देखते हुए स्मार्टन सोल्यूशन एवं गामा चेंबर विश्वविद्यालय को डिपॉजिट से नि:शुल्क उपलब्ध कराया है। इनकी मदद से वैज्ञानिक एडवांस रिसर्च में अग्रणी भूमिका निभा सकेंगे। बाबा साहेब भीमराव अंबेडकर केंद्रीय विश्वविद्यालय में एडवांस रिसर्च के प्रयोग, फैसल के तहत, इरमान के प्रभाव और कारगर बनाने के तरीकों के बारे में बेहतर ढंग से जांच किया जा सकेगा।

सिंह सेंटर से पांच किलोमीटर की दूरी में होने वाले परमाणु विकिरण का इरमान से पता चल सकेगा। यदि इस दूरी में कोई रेडिएशन होता है तो इरमान का अलार्म बज उठेगा। साथ ही उसके सिग्नल के माध्यम से तुरंत भाभा एटॉमिक रिसर्च

सेंटर, मुंबई और विश्वविद्यालय इन्वापरमेंटल रेडिएशन मॉनिटरिंग नेटवर्क सिस्टम में रेडिएशन। स्तर नोट हो जाएगा। मामलों में भीतर के आधार पर स्वी कदम सुरक्षा संस्थाओं द्वारा उठा जा सकेंगे।

भाभा एटॉमिक रिसर्च सेंटर से जुड़ा अंबेडकर विवि

• इंडियन इनवायर्समेंट रैजिस्ट्रार मानौटरिंग नेटवर्क सिस्टम से मिलेगी खतरनाक किरणों की जानकारी

लखनऊ, 21 दिसंबर (जासं): भाभा सांख्यिकीय अंबेडकर केंद्रीय विश्वविद्यालय में एक नया संघर्ष बुझने का रंग है। नेशनल डिजास्टर मैनेजमेंट एजेंसी ने विश्वविद्यालय के अंदर खतरनाक किरणों की जानकारी देने के लिए इंडियन इनवायर्समेंट रैजिस्ट्रार मानौटरिंग नेटवर्क सिस्टम शुरू करने की हरी झंडी दे दी है। यह सिस्टम भी भू-धारा एटॉमिक रिसर्च सेंटर से जुड़ा जाएगा। नेटवर्क लगा दिया गया है और जल्द ही इसे सिस्टम काम करने लगेगा।

रैजिस्ट्रार एजेंसी ने बताया कि कुलपति प्रो.बी.हनुमैया के प्रयास से यह संभव हो सका है। इस सिस्टम के शुरू होने से न केवल केसर जैसी बीमारियों के बारे में तब से रिसर्च किया जा सकेगा बल्कि पेड़-पौधों पर पड़ने वाली खतरनाक किरणों से भी उन्हें बचाया जा सकेगा। भाभा किरणों के रैजिस्ट्रार की जानकारी के साथ ही पुलिस व पैरामिलिट्री फोर्स को खतरनाक किरणों की जानकारी देने के लिए भी विवि में सेंटर बनेगा। रैजिस्ट्रार सेंटर खुलने के बाद अंबेडकर विवि देश का पहला केंद्रीय विवि बन गया है जिसकी मानौटरिंग भाभा एटॉमिक रिसर्च सेंटर करेगा।

अंबेडकर विवि में 23 नए विभाग

ऐसे काम करेगा 'सिस्टम'

विजिलेंट साइंस के डिपार्टमेंट प्रो.अरवि खंडवाल ने बताया कि इस सेंटर के स्थापित होने से केसर के अंदर रिसर्च के दौरान यदि खतरनाक किरणों निकलती हैं तो इसकी जानकारी कुछ ही सेकंडों में भाभा एटॉमिक रिसर्च सेंटर को हो जाएगी। यह सुझाव ही फल में सभी को अर्पित कर देगा। बाहर तार के ज़रिए सैटेलाइट सिस्टम से जुड़े इस नेटवर्क के जरिए जमीन को जांचना भी किया जाएगा। नेशनल डिजास्टर एजेंसी के सदस्यों के साथ मिल ही हुई कर्तव्य के बाद अब सीधे ही विवि में रैजिस्ट्रार टैनिंग सेंटर खोला जाएगा, जहां जल्द ही यहां पर सुशिक्षणियों को प्रशिक्षण दिया जाएगा।

विवि के प्रभार प्रो.बी.बी.मलिक ने बताया कि आगामी पंचवर्षीय योजना के तहत 23 नए विभागों के साथ ही यह स्कूल खुलेगा। उनमें शिक्षण, साइकोलॉजी, जैवैतिक व प्लांट ब्रॉडिंग, रंगीन, इलेक्ट्रॉनिक्स, बैक्टीरिया एवं एकाइडेंट्स, सोशल वर्क व डिपार्टमेंट ऑफ पॉपुलर सर्विज विभाग मुख्य हैं।

सीडिया सेंटर का प्रस्ताव प्राप्त अंबेडकर विवि में सीडिया सेंटर की स्थापना की जाएगी। जहां राष्ट्रीय स्तर के कार्यकर्ता के साथ ही छात्रों को लघु किरण मेडिकल की भी जानकारी दी जाएगी। विभागाध्यक्ष प्रो.गणेश पांडेय ने बताया कि कुलपति प्रो.बी.हनुमैया और प्रो.गोपाल सिंह के प्रयासों से यूनिवर्सिटी में प्रस्ताव को हरी झंडी दी।



BBAU installs system to detect radiation

HUJJAT RAZA ■ LUCKNOW

Any type of radiation in the environment in and around Lucknow can now be detected. Babasaheb Bhimrao Ambedkar University (BBAU) has installed the Indian Environment Radiation Monitoring Network (IERMON) system in the campus.

The system has been sanctioned and backed by Bhabha Atomic Research Centre (BARC). Fortunately, BBAU is one of the first universities in which this system has been installed and it will monitor the radiation levels in the surrounding areas.

Dean of Applied Physics Department, BBAU and expert in radiation, RG Sonkawde said: "BBAU is the first university in which this IERMON system has been installed by BARC, which will help in monitoring the radiation level in the surrounding areas. If the threshold monitors increased level of radiation it will send any

alarm to BARC. From there, I will receive a message specifying the location of increased radiation and I will then go to the spot to check it manually," he added.

He said soon after the spot of radiation would be located, a team of experts would come here to vacate the radiation from there so that people do not come in contact with it. "The system will keep on sending the monitored report to BARC and it will also shows the data of several other IERMON system, which have been installed in other parts of the country. It will help the research students who want some data for their research," he added.

Speaking more about the system, Sonkawde said the station delivered environment radiation levels around the nuclear power plants online from across the country. Its another speciality is that it will give alarm signal even in case any radioactive material is moved in any

nearby area.

Meanwhile, National Disaster Management Authority (NDMA) has decided to open a specialised radiation calibration training centre at Babasaheb Bhimrao Ambedkar University (BBAU) soon.

He said this decision was taken in a meeting with NDMA member, Major General Bansal, police officials and Vice-Chancellor of BBAU, B Hanumaniah. The training centre would be established in the university campus.

In the centre, the police officials and para-military forces would be taught several things related to radiation calibration. It includes precautions to be taken during relocation of any radioactive substance," he added.

"For imparting training to the police personnel and para-military forces, we have trained people in the university and some others would join from NDMA and other related agencies," he said.

Now, Lucknow is under **BARC** eye

UP'S FIRST Bhabha Atomic Research Centre has set up state's first radiation detection station at BBA university

HT Correspondent

✉ reporterst01@hindustantimes.com

LUCKNOW: Bhabha Atomic Research Centre (BARC) has set up a radiation monitoring network station at Babasaheb Bhimrao Ambedkar University, Lucknow this month.

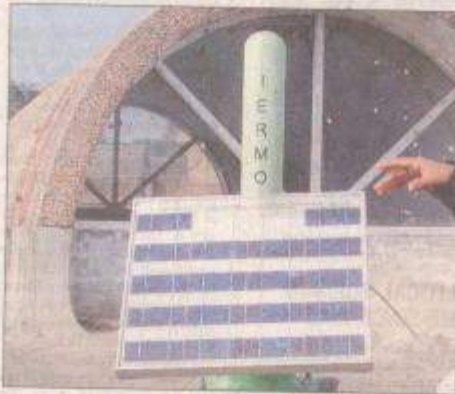
It is the first in Uttar Pradesh. The station is like a high-tech mini-lab armed with equipment to sense harmful radiations and automatically send an alert signal with radiation-level details to BARC in Mumbai for the required help. The centre has been named Indian Environmental Radiation Monitoring Network (IERMON) station. BBA university is the first central university in the country to have been picked for the purpose by BARC.

Addressing media persons on Wednesday, university officials said the technology involves detection of gamma radiations through the Geiger Muller Tube.

Excessive gamma radiations cause biological damages and lead to abnormalities. "The network is being expanded and upgraded in order to meet the different objectives of the monitoring network," said head of the applied physics department R G Sonkawade and added, the detection network system has been indigenously developed by BARC. "It is a solar-powered radiation monitoring system with GSM-based data communication. The wireless sensor networks play an important role in emergency detection," he said and credited the vice chancellor B Hanumant Singh for supporting the entire project.

Why radiation studies are important?

Radiation and radioactive materials are today widely used in industry, medicine, agriculture, food preservation etc. Due to the deleterious effects of radiation on man, the radiation



• The instrument that will be used to detect radiation.

NEXT NDM Centre

National Disaster Management Authority (NDMA) has agreed in principle to set up a radiation instrument calibration centre and training facility for paramilitary forces and police at Babasaheb Bhimrao Ambedkar University, Lucknow. NDMA has agreed to fund the entire endeavour.

WHY WE NEED IT

- The system can work from -20 degree Celsius to +60 degree Celsius.
- It is imperative to have such systems across the country for prompt radiation detection, especially when the country is switching to nuclear power programme to tide over the energy crisis.



• R G Sonkawade

sources need to be handled with respect and safety. Just like electricity, if handled safely, it is an extremely helpful tool.

So it is necessary to educate



• Babasaheb Bhimrao Ambedkar University

- Babasaheb Bhimrao Ambedkar University (BBAU) has transformed itself into a unique academic centre of excellence under its vice chancellor B Hanumant Singh's leadership during past five years.
- The university has eight schools of excellence and 22 departments now. There are plans to add 23

more departments and six schools of excellence by 2017.

- The total teaching faculties are 110.

- Registrar SK Singh says the university aims to add 315 more faculty members by 2017.

- It has 1510 Ph.D scholars and 400 research scholars.

people about radiation and its effects.

"Radiation can damage to biological systems if suitable safety norms are not adopted.

Therefore, it is necessary to spread awareness about radiation and radioactive materials through educational institutions," said registrar SK Singh.

THE TIMES OF INDIA

FRESH PROBE INTO CASE OF CBI'S BODY-FINDING

RAVI RUJA STEPS DOWN AS ESCAP ENFPGV HEAR

AHEAD OF TEST NEXT WEEK, ISHANT BOWLS

BBAU gets radiation monitoring device

TIMES NEWS NETWORK

Lucknow: Babushab Bhatnagar Ambekar University will now be able to detect non-ionising radiation. The university has got the Indian Environmental Radiation Monitoring Network (IERMON) installed in its campus. The system established by Bhabha Atomic Research Centre, Mumbai now has its station in Lucknow.

Giving details about the same, Prof. RG Sonkawade, dean, school of physical sciences, BBAU said, "The university is the first to have IERMON station and the forthcoming Gamma

chamber, and ICI, neutron source, all at one place." According to him, the network is being expanded and upgraded in order to meet the different objectives of the monitoring network. Developed independently by BARC, IERMON is a solar-powered radiation monitoring system with GSM-based data communication.

On Wednesday, Prof. Sonkawade told reporters that IERMON is used for detection and tracking of nuclear radiations and the university is proud of having a station. The system consists of a solar panel, a detector and battery with communication using

GSM. The system utilises solar energy for providing power back-up and has the capability to work from 20 degree Celsius to 50 degree Celsius.

"The system is designed for outdoor installation for measurement of background radiation as well as enhanced radiation due to accidental releases from any source. It is a stand alone and fully automated system," said Sonkawade.

Radiation and radioactive materials are widely used in industry, medicine, agriculture, food, preservation and others. It is due to the toxic effects of radiation on man, radiation source

is used to be handled with respect and safety.

University's public relations officer, Prof. BB Malik, informed that National Disaster Management Authority (NDMA) has in principle agreed to have a specialised radiation calibration training centre in the university.

"This will help in training of police personnel and paramilitary forces as the university has the trained manpower," he said.

On the occasion, university registrar, SK. Singh, highlighted the achievements of the university over the past years.

Accuracy of photos and pictures: Photo: (AP/Photo) | www.timesofindia.com



भाभा एटॉमिक रिसर्च सेंटर से जुड़ा अंबेडकर विवि

• इंडियन इनकायर्समेंटल रेडिएशन मॉनीटरिंग नेटवर्क सिस्टम से मिलेगी खतरनाक किरणों की जानकारी

लखनऊ, 21 दिसंबर (जास): भाभा राष्ट्रीय प्रयोगशाला अंबेडकर केंद्रीय विश्वविद्यालय से एक नया अध्याय जुड़ने का रास्ता है। जेएनयू डिजास्टर मैनेजमेंट एंटीटी ने विश्वविद्यालय के अंदर खतरनाक किरणों की जानकारी देने के लिए इंडियन इनकायर्समेंटल रेडिएशन मॉनीटरिंग नेटवर्क सिस्टम शुरू करने की तयारी शुरू की है। यह सिस्टम सीधे भाभा एटॉमिक रिसर्च सेंटर से जुड़ा जाएगा। नेटवर्क लगा दिया गया है और आगे से यही सिस्टम काम करने लगेगा।

रेडिएशन एक्सेस सिद्ध ने बताया कि कुलमति प्रौद्योगिकी हनुमान के प्रयास से यह संभव हो सका है। इस सिस्टम के शुरू होने से न केवल बेसल जैसी बीमारियों के बारे में लोग में सतर्क किया जा सकेगा बल्कि पेड़-पौधों पर पड़ने वाली खतरनाक किरणों से भी उन्हें बचाया जा सकेगा। भाभा किरणों के रेडिएशन की जानकारी के साथ ही पुलिस व पर्यावरण कोर्स को खतरनाक किरणों की जानकारी देने के लिए भी विवि में सेंटर बनेगा। रेडिएशन सेंटर खुलने के बाद अंबेडकर विवि देश का पहला केंद्रीय विवि बन गया है जिसकी मॉनीटरिंग भाभा एटॉमिक रिसर्च सेंटर करेगा।

अंबेडकर विवि में 23 नए विभाग:

ऐसे काम करेगा 'सिस्टम'

फिजिकल साइंस के विभागाध्यक्ष प्रो.अरजुन सेनगुप्ते ने कहा कि इस सेंटर के स्थापित होने से परिसर के अंदर रिसर्च के दौरान यदि खतरनाक किरणें निकलती हैं तो इसकी जानकारी प्राप्त हो सकेगी। यह सुझाव पहले से सभी को अवगत कर देगा। बीएर जार के जैसे नेटवर्क सिस्टम से जुड़े इस नेटवर्क के जरिये लोगों को जगहवाली भी किया जाएगा। जेएनयू डिजास्टर एंटीटी के सदस्यों के साथ हाल ही हुई कार्रवाई के बाद अब सीधे ही विवि में रेडिएशन मॉनीटरिंग सेंटर खोला जाएगा, जहां खतरनाक घटना पर सुरक्षाकर्मी को जगहवाली दिया जाएगा।

विवि के प्रवक्ता प्रो.बीबी मलिक ने बताया कि आगामी पंचवर्षीय योजना के तहत 23 नए विभागों के साथ ही यह स्कूल खुलेगा। इसमें शिक्षा, साइकोलॉजी, जैनेटिक्स व फ्लॉट बीडिंग, संगीत, इलेक्ट्रॉनिक्स, बौद्धिक एवं एकाइडेसी, सोशल सर्वे व डिपार्टमेंट ऑफ एडिशनल जैनेटिक विभाग मुख्य हैं।

सीडिया सेंटर का प्रमुख प्रो. अंबेडकर विवि में सीडिया सेंटर की स्थापना की जाएगी। जहां राष्ट्रीय स्तर के कार्यक्रमों के साथ ही छात्रों को लघु शिक्षा रोकिए की भी जानकारी दी जाएगी। विभागाध्यक्ष प्रो.गणेश पांडेय ने बताया कि कुलमति प्रो.बी हनुमान और प्रो.गोपाल सिंह के प्रयास से यूजीसी ने इसका खर्च भी उठाया है।

Now, ISRO-powered weather updates

HT Correspondent

lucknow@hindustantimes.com

LUCKNOW: The Indian Space Research Organisation (ISRO) has set up an Automatic Weather Station (AWS) in the Rajasthan Bikaner Ambedkar University on Monday.

The sensor-fitted AWS collect information relating to temperature, humidity, rainfall, wind speed and direction, solar radiation and atmospheric pressure every hour and sent them to centres through satellites for processing. AWS is installed on weather prediction more useful to common people and the student community.

ISRO vice-chancellor Prof B



Automatic Weather Station (AWS) set up at Bikaner Ambedkar University on Monday.

BBAR'S PRIDE

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■ AWS is installed on weather prediction more useful to common people and the student community.

■ This setup will help the university students and public in general to know the current prediction about weather. It will give exact measurement of rainfall and wind speed.

■ Given the fact that it was installed by ISRO, the making will be another and accurate. It will be useful for the students in weather study.

■ Perhaps BBAR is the first university in our country to have the Indian Environmental Radiation Monitoring Network (IERMON) and AWS on the same campus. One of students will get extremely well exposure from both the systems.

Hanumanlal, Inauguration of Automatic Weather Station (AWS) at the premises. This setup will help the university students and public in general to know the correct prediction about weather.

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Prof B.G. Sonkarwade, dean, School for Physical Sciences, Department of Applied Physics set up these facilities with the support of Prof B Hanumanlal. Within a period of one year many facilities are being added in the department of applied physics by Prof Sonkarwade. Ganama Chamber co-ordinator is also placed to Board of Radiation and Isotope Technology and expected in the university campus very soon. Having these facilities at the University campus, it will become the one of the best University of our Country, the V.C. said.

