

## Scientific Publications of Prof. Dr. Abdus Sattar Mollah

### A. Papers Published in Journals/Proceedings

#### International

11.	<a href="#">A. S. Mollah</a> , M. M. Rahman and S.R. Husain, "Distribution of gamma emitting radionuclides in soils at the Atomic Energy Research Establishment, Savar, Bangladesh", Health Physics, Vol.50, 835 (1986)(USA).
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13.	<a href="#">A. S. Mollah</a> , S. R. Husain and M. M. Rahman, "Environmental gamma radiation from deposited fallout <sup>137</sup> Cs", Indian Jour. Of Pure & Appl. Physics, Vol.24, 211 (1986)(India).
14.	<a href="#">A. S. Mollah</a> , S. R. Husain and M. M. Rahman, "Environmental gamma radiation measurements by TLD in and around AERE, Dhaka", Radiation Protection Dosimetry, Vol.14, 261 (1986)(UK).
15.	<a href="#">A. S. Mollah</a> , M. M. Rahman, A. Koddus, S. R. Husain and M. A. Malek, "Measurement of high background radiation level by TLD at the coastal areas of Cox's Bazar in Bangladesh", Radiation Protection Dosimetry, Vol. 18(1), 39 (1987)(UK).
16.	<a href="#">A. S. Mollah</a> and M. M. Rahman, "Measurement of gamma activity from fallout <sup>137</sup> Cs in the environmental samples at AERE in Bangladesh", Bulletin of Radiation Protection, Vol. 10(4), 3, (1987)(India).
17.	S. I. Bhuiyan, F. U. Ahmed, <a href="#">A. S. Mollah</a> , M. Rahman and M. Azizur Rahman, "Neutron transport and shielding properties studies of POLY-BORON and ILMENITE-MAGNETITE concrete developed locally with indigenously resources", Proc. Of the 7 <sup>th</sup> Inter. Conference on Radiation Shielding, Vol. 2, 560 (1988)(UK).
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19.	S. I. Bhuiyan, F. U. Ahmed, <a href="#">A. S. Mollah</a> and M. A. Rahman, "Studies on the neutron transport and shielding properties of locally developed shielding material: POLY-BORON", Health Physics, Vol. 57, 819 (1989) (USA).
110.	<a href="#">A. S. Mollah</a> and M. M. Rahman, "Environmental surveillance for radionuclide contamination utilizing high resolution intrinsic germanium detector", Proc. Of the IAEA/FAO/WHO International Symposium on Environmental Contamination Following a Major Nuclear Accident, IAEA-SM-306, Vol. I, 472, 1990 (Austria).
111.	<a href="#">A. S. Mollah</a> , M. M. Rahman, M. A. R. Molla, S. C. Das and Y. Akan, "Measurements of radiation levels by TLD in the mineral processing plant in Bangladesh", Radiation Protection Dosimetry, Vol.34, 223(1990)(UK).
112.	<a href="#">A. S. Mollah</a> , N Vana, M. Fugger and H. Bock, "Determination of the decay characteristics of residual radiation intensity in the thermal column of the Vienna TRIGA Mark II reactor", Proc. Of the 11 <sup>th</sup> European TRIGA Users Conference, Heidelberg, TOC-22, Section 2, pp.1-8 (1990)(Germany).
113.	<a href="#">A. S. Mollah</a> , N. Vana, M. Fugger and H. Bock, "The gamma and neutron dose measurements in the spent fuel elements of a TRIGA Mark II reactor", Proc. Of the International seminar on Spent Fuel Storage, Safety, Engineering and Environmental Aspects, International Atomic Energy Agency, Vienna, IAEA-SR-171/2 (1990)(Austria).
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115.	S. I. Bhuiyan, F. U. Ahmad, <a href="#">A. S. Mollah</a> , M. A. Rahman and M. M. Rahman, "Studies of neutron shielding properties of ilmenite-magnetite concrete using a Cf-252 source", Nuclear Technology, Vol. 93, 357 (1991)(USA).
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119.	F. U. Ahmed, S. I. Bhuiyan, <a href="#">A. S. Mollah</a> and M. A. Rahman, "Measurements of gamma-ray shielding properties of ilmenite-magnetite concrete and poly-boron slabs using Cf-252", Nuclear Technology, Vol. 98, 379(1992)(USA.).
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125.	<a href="#">A. S. Mollah</a> , N. Vana, M. Fugger and G. U. Ahmad, "A study on neutron and gamma-ray responses of laboratory made LiF:Mg, Ti single crystal TLD, Proc. Of the 9 <sup>th</sup> International Conference on Radiation Protection (IRPA9), Vol. 4, 373 (1996) (Austria).
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133.	Q. Huda, S. I. Bhuiyan, F. U. Ahmad, <a href="#">A. S. Mollah</a> , and M. A. W. Mondal, "MCNP4B verification on experimental studies of neutron shielding properties of ilmenite-magnetite concrete and polyboron using a Cf-252 source", Proc. of the 1998 ANS Radiation Protection and Shielding Tropical Conference, Vol. II, 187, (1998)(USA).
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C7.	<u>A. S. Mollah</u> , Radiological monitoring in and around the mineral processing plant at Cox's bazar", Paper presented at the First International Symposium on Radiation Protection in the Mining, Milling and Downstream of Mineral Sands, Bunbury, Western Australia, March 19-21, (1993).
C8.	M. M. Rahman, M. K. Alam, <u>A. S. Mollah</u> , H. M. Khan and A. Koddus, "Investigation of ideal precipitation conditions for liquid radioactive effluents treatment by precipitation", Paper presented at the First Research Coordination Meeting(RCM) on Development of liquid waste treatment technologies, Bangkok, Thailand, May 17-21(1993).
C9.	<u>A. S. Mollah</u> , "Transfer of <sup>137</sup> Cs from soil to vegetable plants", Paper presented at the First RCM on Transfer of Radionuclides from Air, Soil and Fresh Water to Foodchain of Man in Tropical and Sub-Tropical Environments, Jakarta, Indonesia, Nov. 1-5 (1993).
C10.	<u>A. S. Mollah</u> , "Study on sorption of Cs-137 by AERE soil", Paper presented at the 4th Int. conf. on Chemistry and Migration Behaviour Actinides and Fission Products in the Geosphere, Charleston, USA, December 12-17(1993).
C11.	<u>A. S. Mollah</u> , "The status of safety assessment methodology for near-surface radioactive waste disposal facility", Paper presented at the Interregional Training Course on Safety assessment methodology for near-surface disposal facilities, ANL, USA, Feb.17-March 4 (1994).
C12.	A. K. Siddique, R. Amin, N. A. Chwodhury. A. Yousuf and <u>A. S. Mollah</u> , "Verify absorbed dose in irradiated food", Paper presented at the First RCM on Development of standardized methods to verify absorbed dose of irradiated fresh and dried fruits, treenuts in trade, Istanbul, Turkey, September 20-24(1994).
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C15.	M. M. Rahman, <u>A. S. Mollah</u> , M. A. Chowdhury, A. Hossain, M. Z. Hasan and M. S. Sikder, "Status of radiation sources and regulatory progress of the Banladesh", Paper presented at the Workshop on System for notification, registration, licencing and control of radiation sources and installations, Jakarta, Indonesia, April 24-28 (1995).
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C19.	<u>A. S. Mollah</u> , "Current status of radioactive waste management in Bangladesh", Paper presented at the Project Formulation Meeting on Preparation for disposal of low and intermediate radioactive waste, Bangkok, Thailand, July 22-26 (1996).
C20.	<u>A. S. Mollah</u> and Matior Rahman, "Themoluminescenc dosimetry in medical applications", Paper presented at the V International Conference on Applications of Physics in Medicine and Biology, ICTP, Trieste, Italy, September 2-6 (1995).
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C22.	<u>A. S. Mollah</u> , A. Begum and S. M. Ullah, "Transfer of <sup>137</sup> Cs and <sup>90</sup> Sr radionuclides from soil to plants", Paper presented at the 4 <sup>th</sup> (Final) RCM on Transfer of Radionuclides from Air, Soil and Fresh Water to Foodchain of Man in Tropical

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C23.	<u>A. S. Mollah</u> , "The present status of regulatory control in Bangladesh", Paper presented at the Workshop on Occupational Radiation Monitoring, Melbourne, June 21-25, 1999.
C24.	<u>A. S. Mollah</u> , "The present status of security and safety of radiation sources in Bangladesh", Paper presented at the Workshop on Safety of Radiation Sources and Security of Radioactive Materials, Bangkok, Thailand, 6-10 August, 2001.
C25.	<u>A. S. Mollah</u> , "Status of security and safety of radiation sources in Bangladesh", Paper presented at the Workshop on Safety of Radiation Sources and Security of Radioactive Materials, Tokyo, Japan, 11-15 November, 2002.
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C28.	<u>A. S. Mollah</u> , "Status of illicit trafficking database in Bangladesh", Paper presented at the National Coordinator's Meeting on Illicit Trafficking Database, Vienna, Austria, 27-30 May 2006.
C29.	<u>A. S. Mollah</u> , "Status of public exposure control in Bangladesh", Paper presented at the National Coordinator's Meeting on Public Exposure Control under the IAEA Project RAS/9/048, Myanmar, 5-9 March 2007.
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C31.	<b>A. S. Mollah</b> , Ashrafur Islam, Sabiha Sattar, M. A. Hossain and A.Z. M. Salahuddin, Robot-based System for Monitoring of Ionizing Radiation in the Nuclear Environment, Proc. of the Int. Conf. (RAD16), Serbia (2016).
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C35.	Shamsun Nahar Raka, Shanjida Aktar, Sunjida Jahan AKM Ishtyak and <b>A. S. Mollah</b> , Application of biokinetics modeling for internal dosimetry for occupational radiation workers due to I-131, Paper presented at the 8 <sup>th</sup> International Conference on Sciences, Technology and Social Sciences, 29-30 December 2018, Kuala Lumpur, Malaysia (Based on BSc Thesis).
C36.	Kazi Arham Ahmed, Tonmay Saha, Samiah Hassan, Md. Amir Hossain and <b>A. S. Mollah</b> , Development of a computer program based on analytical method for preliminary core design calculations of small modular reactor (SMR), Paper presented at the 8 <sup>th</sup> International Conference on Sciences, Technology and Social Sciences, 29-30 December 2018, Kuala Lumpur, Malaysia (Based on BSc project).
C37.	F. Haque and <b>A. S. Mollah</b> , Analysis of point reactor kinetics equations for different reactivity insertions for 3MW TRIGA Mark-II research reactor, Paper presented at the 8 <sup>th</sup> International Conference on Sciences, Technology and Social Sciences, 29-30 December 2018, Kuala Lumpur, Malaysia (Based on MSc Thesis).
C38.	G. R. Khan, Sadia Mahjabin, <b>A. S. Mollah</b> , Md. R. Mawla: Atmospheric Dispersion Modeling for a Hypothetical Accidental Release from the 3MW TRIGA Research Reactor of Bangladesh, 22 <sup>th</sup> International Conference on Nuclear Accident Monitoring Technology and Applications to be held in Singapore, SG during Jan 09-10, 2020.
C39.	<b>A.S. Mollah</b> , Md. R. Mawla, G.R. Khan, Ridhita Binte Borhan and Md. Ariful Islam, Rapid Estimation of Radiation Doses During a Nuclear Accident in Rooppur Nuclear Power Plant, 22 <sup>th</sup> International Conference on Nuclear Accident Monitoring Technology and Applications to be held in Singapore, SG during Jan 09-10, 2020.
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C41.	M. M. H. Rafi, Asma Ul Husna, and <b>A. S. Mollah</b> , Multilayer shielding design and analyze optimal thickness for the storage of high radioactive sources concerning environmental safety by using MATLAB software, Paper presented at the 4 <sup>th</sup> Int. Conf. on Energy and Power, 11-12 December 2022, Paper ID:016.
C42.	S. Hasan, K.A. Ahmed, T. Saha, N.N. Huda and <b>A. S. Mollah</b> , Steady state thermal hydraulic analysis of a small modular pressurized water reactor, Paper presented at the 4 <sup>th</sup> Int. Conf. on Energy and Power, 11-12 December 2022, Paper ID:077.
C43.	M. A. Zahid, Md. I. Mehedi, S. A. Shibly and <b>A. S. Mollah</b> , Thermal hydraulic analysis for different sub-channels of generic VVER-1200, Paper presented at the 4 <sup>th</sup> Int. Conf. on Energy and Power, 11-12 December 2022, Paper ID:080
C44.	T. Saha, N.N. Huda, S. Hasan and <b>A. S. Mollah</b> , Calculation of core design parameters for small modular (SMR) using in-house

developed computer program, Paper presented at the 4<sup>th</sup> Int. Conf. on Energy and Power, 11-12 December 2022, Paper ID:089.

#### D. Paper Presented in the National Conferences / Meetings/Seminars, etc.

D1.	M. A. Rab Molla, M. N. Alam, S. Roy and <u>A. S. Mollah</u> , "Application of high purity germanium detector in environmental monitoring", Paper presented at the 9 <sup>th</sup> Bangladesh Science Conference, Dhaka, October 21-23 (1984).
D2.	M. A. Rab Molla, S. R. Bose, H. Jahan, M. N. Alam, S. Roy and <u>A. S. Mollah</u> , "Radioactivity in fish", Paper presented at the 9 <sup>th</sup> Bangladesh Science Conference, Dhaka, October 21-23 (1984).
D3.	M. A. Koddus, S. R. Husain, M. M. Rahman, <u>A. S. Mollah</u> , M. A. Rab Molla and M. A. Malek, "Assessment of radiation levels around the Cox's Bazar coastal areas for evaluation of population exposure", Paper presented at the 11 <sup>th</sup> Bangladesh Sci. Conf., Rajshahi, March 2-5 (1986).
D4.	M. A. Malek, S. R. Husain, M. M. Rahman, <u>A. S. Mollah</u> and M. A. Koddus, "Radiation dose measurements around TV sets to provide safety guideline", Paper presented at the 11 <sup>th</sup> Bangladesh Science Conference, Rajshahi, March 2-5 (1986).
D5.	M. A. Malek, <u>A. S. Mollah</u> , and R. Amin, "Calibration of gamma beam 650 irradiation unit", Paper presented at the 12 <sup>th</sup> Bangladesh Science Conference, Savar, January 10-14 (1987).
D6.	A. Koddus, <u>A. S. Mollah</u> , and S. R. Husain, "Radiological risks to the population at large due to radioactive fallout following Chernobyl nuclear accident", Paper presented at the 12 <sup>th</sup> Bangladesh Science Conference, Savar, January 10-14 (1987).
D7.	A. Begum, F. Karim and <u>A. S. Mollah</u> , "An approach for the design and development of an electrodeposition cell for alpha spectrometry", Paper presented at the 13 <sup>th</sup> Bangladesh Science Conference, Dhaka, May 29-31 (1988).
D8.	A. Begum, <u>A. S. Mollah</u> and M. A. R. Molla, "Distribution of thorium and its daughter products in monazite", Paper presented at 14 <sup>th</sup> Bangladesh Sci. Conf., Gazipur, Jan. 29-Feb. 1 (1989).
D9.	M. A. Malek, M. M. Rahman and <u>A. S. Mollah</u> , "Assessment of quality of gamma rays of <sup>137</sup> Cs for radiotherapy", Paper presented at the Physical Society National Seminar, Dhaka, Oct. 12(1989).
D10.	A. Koddus, M. M. Rahman, S. Roy, <u>A. S. Mollah</u> and M. Hussain, "Safe management and disposal of radioactive wastes at the Atomic Energy Research Establishment (AERE), Ganakbari, Savar, Dhaka", Paper presented at the 15 <sup>th</sup> Bangladesh Science Conference, Dhaka, June 16-19(1990).
D11.	M. A. Alamgir, M. A. Mannaf, <u>A. S. Mollah</u> and N. Nahar, "Analysis of TRIGA reactor pool water", Paper presented at the 15 <sup>th</sup> Bangladesh Science Conference, Dhaka, June 16-19 (1990).
D12.	N. U. Bhyian, <u>A. S. Mollah</u> , M. M. Rahman and M. I. Ibrahimy, "Calibration of radiation protection instruments by using SSDL facilities", Paper presented at the 17 <sup>th</sup> Bangladesh Science Conference, Gazipur, May 6-10 (1992).
D13.	N. U. Bhuiyan, S. A. Latif, <u>A. S. Mollah</u> and A. Jalil, "An assessment of variation in response with photon energy of portable radiation survey meters", Paper presented at the 18 <sup>th</sup> Bangladesh Science Conference, Maymensingh, June 22-24(1994).
D14.	A. Begum, <u>A. S. Mollah</u> , K. Alam, T. Shimizu and A. Jalil, "A HPGe detector system for the measurement of low-level radioactivity in environmental samples", Paper presented at the 18 <sup>th</sup> Bangladesh Science Conference, Maymensingh, June 22-24(1994).
D15.	A. Hannan, <u>A. S. Mollah</u> , M. A. Zaman and S. A. Latif, "Dosimetric properties of TLD-100", Paper presented at the 18 <sup>th</sup> Bangladesh Science Conference, Maymensingh, June 22-24(1994).
D16.	S. A. Latif, <u>A. S. Mollah</u> and A. Jalil, "Depth dose distribution in water phantom for X-rays", Paper presented at the 18 <sup>th</sup> Bangladesh Science Conference, Maymensingh, June 22-24(1994).
D17.	M. D. Hossain, <u>A. S. Mollah</u> and M. A. Zaman, "Dose mapping radiation food processing", Paper presented at the 19 <sup>th</sup> Bangladesh Science Conference, Savar, October 29-31(1996).
D18.	M. D. Hossain, <u>A. S. Mollah</u> and M. A. Zaman, "A study on dosimetric properties of ceric cerous and gamma chrome dosimetric systems for high dose measurements", Paper presented at the 19 <sup>th</sup> Bangladesh Science Conference, Savar, October 29-31(1996).
D19.	M. M. Rahman, <u>A. S. Mollah</u> and M. A. Zaman, "Assessment of radiation exposure level around some diagnostic X-ray units", Paper presented at the 19 <sup>th</sup> Bangladesh Science Conference, Savar, October 29-31(1996).
D20.	M. I. Miah, A. Yunus and <u>A. S. Mollah</u> , "Measurements of environmental gamma radiation by TLD in and around the Jahangirnagar University", Paper presented at the International Symposium on Recent Advances in Physics, Dhaka, March 21-23(1997).
D21.	M.N. Amin, M. A. Zaman, S.M.M. Islam and <u>A.S. Mollah</u> , "Estimation of external surface dose of different gamma camera patients", Paper presented at the 5 <sup>th</sup> National Conference of Society of Nuclear Medicine Bangladesh, March 10, 2000.
D22.	<u>A.S. Mollah</u> , M.N. Amin, M. A. Zaman and S.M.M. Islam, "Estimation of internal absorbed doses by using MIRDOSE3 computer code in nuclear medicine practices", Paper presented at the 5 <sup>th</sup> National Conference of Society of Nuclear Medicine Bangladesh, March 10, 2000.



D23.	<u>A. S. Mollah</u> , "Dose assessment to man following a severe hypothetical accident in nuclear power plant", Paper presented at the IAEA Review meeting on Site Safety Report for the proposed nuclear power plant at Roopur, Dhaka, May 2, 2001.
D24.	<u>A. S. Mollah</u> , "Review of dose assessment to man following a severe hypothetical accident in nuclear power plant", Paper presented at the IAEA Group meeting on Safety evaluation for the proposed nuclear power plant at Roopur, Dhaka, May 16, 2001.
D25.	<u>A. S. Mollah</u> , "Regulatory control of radiotherapy practices in Bangladesh", Paper presented at the 3 <sup>rd</sup> National Convention of Bangladesh Society of Radiation Oncologists, Dhaka, January 25, 2002.
D26.	<u>A. S. Mollah</u> , "Regulatory control activities in Bangladesh", Paper presented in the Workshop on Radiation Safety: Review of BAEC Activities and Future Plan, 8-10 August 2003, RTML, Chittagong.
D27.	<u>A. S. Mollah</u> , "Establishment of regulatory infrastructure in Bangladesh", Paper presented paper in the National Training Workshop on Planning, Selection and Design of IAEA TC Project, 26-28 August 2003, BAEC, Dhaka.
D28.	<u>A. S. Mollah</u> , "National legislation system on radiation safety", Paper presented in the BAEC-MEXT Technical Meeting, 27 November- 2 December 2004, BAEC, Dhaka.
D29.	D. Paul, <u>A.S. Mollah</u> , R. Samina, S. Akhter, M. Nehar, M. Kabir, M. Haider, M. Ferdows and R. Kabir, "Regulatory survey of radiotherapy practices", Paper presented in the Annual conference of BMPA, BUET, Dhaka, 10 December 2004.
D30.	M. Haider, <u>A.S. Mollah</u> , R. Samina, S. Akhter, D. Paul, M. Nehar, M. Kabir, M. Ferdows, A. Hosain and R. Kabir, "Regulatory survey of nuclear medicine practices", Paper presented in the Annual conference of BMPA, BUET, Dhaka, 10 December 2004.
D31.	M. Nehar, <u>A.S. Mollah</u> , R. Samina, S. Akhter, D. Paul, M. Kabir, M. Haider, M. Ferdows and R. Kabir, "Regulatory survey of x-ray facilities practices", Paper presented in the Annual conference of BMPA, BUET, Dhaka, 10 December 2004.
D32.	KH Hoever, GU Ahmad and <u>A.S. Mollah</u> , "Cooperation between BMPA and DGMP- 8 years experience", Paper presented in the Annual conference of BMPA, BUET, Dhaka, 10 December 2004.
D33.	<u>A. S. Mollah</u> , "Regulatory control activities in Bangladesh", Paper presented in the 2 <sup>nd</sup> Workshop on Radiation Safety: Review of BAEC Activities and Future Plan, RTML, Chittagong , 24-25 August 2005.
D34.	<u>A. S. Mollah</u> , "Regulatory control system on emergency response", Paper presented in the BAEC-MEXT meeting on Emergency Response, Dhaka, 5-8 February , 2006.
D35.	<u>A. S. Mollah</u> , "Regulatory infrastructure for nuclear power plant (NPP)", Paper presented in the BAEC-IAEA meeting on Common Users Criteria for NPP, Dhaka, August 17-21 August 2007.
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D37.	<u>A. S. Mollah</u> , "Radiation protection and regulatory requirements for nuclear medicine practices", Paper presented in the 13 <sup>th</sup> National Conference of Society of Nuclear Medicine of Bangladesh, Khulna, 21-23 February 2008.
D38.	<u>A. S. Mollah</u> , "Radiation protection and regulatory requirements for nuclear medicine practices", Paper presented in the 13 <sup>th</sup> National Conference of Society of Nuclear Medicine of Bangladesh, Khulna, 21-23 February 2008.
D39.	<u>A. S. Mollah</u> , "Assessment of nuclear medicine capabilities in responding to a nuclear/radiological emergency", Paper presented in the 15 <sup>th</sup> National Conference of Society of Nuclear Medicine of Bangladesh, Bogra, 5-6 March 2010.
D40.	A.H.M.R. Quddus, S. M. Iqbal, M. A. Zaman and <u>A. S. Mollah</u> , "Calculation of internal radiation doses in nuclear medicine practices by using locally developed IRDA software", Paper presented in the 15 <sup>th</sup> National Conference of Society of Nuclear Medicine of Bangladesh, Bogra, 5-6 March 2010.
D41.	<u>A. S. Mollah</u> , S. M. Iqbal and A.H.M.R. Quddus, "RIDA-A software package for internal radioactivity and radiation dose assessment in nuclear medicine practices", Paper presented in the 16 <sup>th</sup> National Conference of Society of Nuclear Medicine of Bangladesh, Dhaka, 17-18 December 2010.
D42.	<u>A.K.M F. Haque</u> , <u>A. S. Mollah</u> , M.A. Zaman and SM Hossain, "Calculation of SAR due to non-ionizing radiation from mobile phone", Paper presented in the National Conference of Physical Society, Dhaka, 10-11 February 2011.
D43.	<u>A. S. Mollah</u> , "Lessons from radiation accident in radiotherapy practices", Paper presented in the Regional conference on medical physics, Bangladesh Medical Physics Association, Dhaka, 18 February 2011.
D44.	S. M. Yeasmin, <u>A. S. Mollah</u> , and N. Zaman "Radiation protection management in several X-ray installations", Paper presented in the Regional conference on medical physics, Bangladesh Medical Physics Association, Dhaka, 18 February 2011.
D45.	<u>A. S. Mollah</u> . and Iqbal M., "NMPR software for calculation of radiation doses for release of patients administered 17radio

	isotope", Paper presented at the 17 <sup>th</sup> National Conference of SNM, Chittagong, March 2012.
D46.	Participated and presented an invited talk on "Accident analysis in radiotherapy practices" in the International Conference on Physics in Medicine and Clinical Neuroelectrophysiology (PMCN-2015), 19-20 February, 2015.
D47.	Participated and presented a paper on "Dosimetric characteristics of flattened photon beams of two Elekta linear accelerators" in the 20 <sup>th</sup> Annual Conference of Society of Nuclear Medicine Bangladesh, Dhaka, 18-19 March 2015.
D48.	Participated and presented a paper on "Roles of nuclear medicine professionals in case of nuclear or radiological emergency in Bangladesh" in the 21 <sup>st</sup> Annual Conference of Society of Nuclear Medicine Bangladesh, Barisal, 19-21 February 2016.
D49.	Participated and presented an invited talk on "Application of radiobiological modeling in radiation therapy for treatment plan evaluation and optimization" in the International Conference on Physics in Medicine and Clinical Neuroelectrophysiology (PMCN-2017), 10-11 March, 2017.
D50.	Participated and presented a paper on "Use of Ir radioactive sources in medical facilities: Analysis of radiation protection, safety and security issues" in the 22 <sup>nd</sup> Annual Conference of Society of Nuclear Medicine Bangladesh, Gazipur, 24-25 February 2017.
D51.	A. Rahman, M. M. Rahman, A. S. Mollah, N. Jahan and M. Q. Huda, Assessment of the radiological consequences of radionuclide releases from TRIGA Mark-II research reactor, Paper presented at the CUET Conf. on Sustainable Energy, Chittagong, Nov. 17-18 Nov 2017.
D52.	Atiar Rahman and A. S. Mollah, Benchmarking of IAEA 3D PWR with MSRA SRAC, Paper presented at the CUET Conf. on Sustainable Energy, Chittagong, Nov. 17-18 Nov 2017.
D53.	Fahmida Haque, N. H. Badrun, M. H. Altaf and A. S. Mollah, Limit of inserted reactivity calculation to study safety of TRIGA fuel at different cycles of core burnt, Paper presented at the Int. Conf. on Physics, Dhaka, 8-10 March 2018.
D54.	Farid Ahmed, VikramDeshpande, NusratAra and A. S. Mollah, Numerical prediction of thermal-hydraulic characteristics of Pebble Bed Modular nuclear reactor, Paper presented at the Int. Conf. on Physics, Dhaka, 8-10 March 2018.
D55.	A. Rahman, M. M. Rahman, <b>A. S. Mollah</b> , N. Jahan and M. Q. Huda, Atmospheric dispersion modeling for assessment of the radiological consequences of radionuclide releases in a research reactor accident scenario, Paper presented at the Int. Conf. on Physics, Dhaka, 8-10 March 2018.
D56.	F. Zaheer, S. A. Ananna, JerinTasmin and <b>A. S. Mollah</b> , Development of high density concrete using locally available different aggregates for gamma-ray shielding, Paper presented at the Int. Conf. on Physics, Dhaka, 8-10 March 2018.
D57.	Fahmida Haque and <b>A. S. Mollah</b> , Modeling and simulation of reactor point kinetic equations in training nuclear science and engineering students, Paper presented at the Int. Conf. on Physics, Dhaka, 8-10 March 2018 ( <b>Awarded Best Poster</b> ).
D58.	Shamsun Nahar Raka, Sunjida Jahan, Shanjida Akte and <b>A. S. Mollah</b> , Assessment of internal radiation doses for occupational workers from inhalation of <sup>131</sup> I by using MONDAL-3 software, 24 <sup>th</sup> National Conference of Society of Nuclear Medicine, Bangladesh, Bangladesh J. Nucl. Med. Vol. 22 No. 1, p.84, January 2019.
D59.	A.S.M. Nasim, G.R. Rahman, A. Erfan and <b>A. S. Mollah</b> , Study on processing and validation of ENDF/B-VIII nuclear data library for criticality benchmark of PWR pin cells using NJOY21 and OpenMC, Paper presented at the 3 <sup>rd</sup> Int. Conference on Physics for Sustainable development and technology (ICPSDT-2019), CUET, Chittagong, 18-19 December 2019.
D60.	. G.R. Rahman, A.S.M. Nasim, A. Erfan and <b>A. S. Mollah</b> , Verification of Monte Carlo code OpenMC using VVER-1200 MOX fuel assembly against criticality benchmark data, Paper presented at the 3 <sup>rd</sup> Int. Conference on Physics for Sustainable development and technology (ICPSDT-2019), CUET, Chittagong, 18-19 December 2019.
D61.	R. B. Borhan, H. R. Rasheeq, M. Arefin and <b>A. S. Mollah</b> , Simulation of dynamic behavior of Xenon-135 and Sm-149 production using MATLAB code for a typical research reactor, Paper presented at the 3 <sup>rd</sup> Int. Conference on Physics for Sustainable development and technology (ICPSDT-2019), CUET, Chittagong, 18-19 December 2019.
D62.	A. Islam, R. Nushrat, T. A. Rahim and <b>A. S. Mollah</b> , Modeling and validation of IAEA 3D PWR Benchmark problem using COMSOL multiphysics code, Paper presented at the 3 <sup>rd</sup> Int. Conference on Physics for Sustainable development and technology (ICPSDT-2019), CUET, Chittagong, 18-19 December 2019.
D63.	Muntakim Mahmud Khan, Tanima Sharif, Nahid Farzana Mim, <b>Abdus Sattar Mollah</b> , M Mahfuza Khatun, Calculation of Standardized Uptake Value (SUV) from PET-CT image by using inhouse developed MATLAB software, INTERNATIONAL CONFERENCE ON PHYSICS IN MEDICINE ICPM-2020, Dhaka, Bangladesh, 6-7 February, 2020.
D64.	Fahum Nufikha Jahan, Tasnim Ahmed, Abu Sayed Muhammad Faisal, <b>Abdus Sattar Mollah</b> , M Mahfuza Khatun, Analysis of quality control of Gamma Camera SPECT System by using bar Phantom, INTERNATIONAL CONFERENCE ON PHYSICS IN MEDICINE ICPM-2020, Dhaka, Bangladesh, 6-7 February, 2020.
D65.	Md. Nazirul Huda Anik, Mosaddak Ahamed Zahid, Md. Rezwannur Rahman Ony, <b>A. S. Mollah</b> , Generation of cosine shape thermal response for thermal hydraulic test facility (THTF) heated rods by using locally developed induction heating system, Poster Presented at International Conference on Electronics and Informatics 2021, 27-28 November, 2021 at Atomic Energy Centre, Dhaka.
D66.	Mayesha Tahsin and <b>A.S. Mollah</b> , A Study on Performance of Two NaI(Tl) Detectors Using Point Radioactive Sources, Paper

	presented at International Conference on Electronics and Informatics 2021, 27-28 November, 2021 at Atomic Energy Centre, Dhaka.
D67.	M. R. Hasan, M. J. H. Khan, and <b>A. S. Mollah</b> , Analysis of Criticality of Operational Core of BAEC TRIGA Research Reactor using Deterministic Code TRIGLAV, 4th International Conference on "Physics for Sustainable Development and Technology (ICPSDT-2022), NHP-03, p.67, January22- 23, 2022, CUET, Chattogram, Bangladesh.
D68.	Ariful Islam, and <b>A. S. Mollah</b> , A study on integral parameters of BEAVRS PWR benchmark using OpenMC Monte Carlo Code, 4th International Conference on "Physics for Sustainable Development and Technology (ICPSDT-2022), NHP-04, p.68, January22- 23, 2022, CUET, Chattogram, Bangladesh.
D69.	Md. Intiaj Hossain, Yasmin Akter, Mehraz Zaman Fardin, and <b>A. S. Mollah</b> , Neutronic Calculations of MOX Fuel for VVER-1000 whole Core benchmark Problem using OpenMC Code, 4th International Conference on "Physics for Sustainable Development and Technology (ICPSDT-2022), NHP-13, p.90, January22- 23, 2022, CUET, Chattogram, Bangladesh.
D70.	MayeshaTahsin, and <b>A. S. Mollah</b> , Design of a Portable Shielding System for a Newly Installed NaI(Tl) Detector, 4th International Conference on "Physics for Sustainable Development and Technology (ICPSDT-2022), APE-14, p.117, January22- 23, 2022, CUET, Chattogram, Bangladesh.

### E. Thesis Works

E1.	<u>A. S. Mollah</u> , "Energy levels in $^{20}\text{F}$ from ( $^3\text{He}$ , p) reaction in $^{18}\text{O}$ at 18 MeV", M. Sc. Thesis, Department of Physics, University of Dhaka, Dhaka (1979).
E2.	<u>A. S. Mollah</u> , "An investigation on the attenuation of neutrons and gamma-rays in reactor biological concrete shield", M. Phil. Thesis, Department of Physics, Bangladesh University of Engineering and Technology (BUET), Dhaka (1987).
E3.	<u>A. S. Mollah</u> , "Dosimetric properties of some commercially available and laboratory made TLDs for radiation dosimetry", a report submitted in partial fulfilment for the Ph. D. Comprehensive Examination, Department of Physics, BUET, Dhaka(1995).
E4.	<u>A. S. Mollah</u> , "Dose measurements in neutron-gamma mixed radiation field with thermoluminescence dosimeters", Ph. D. Thesis, Department of Physics, BUET, Dhaka (1996).

### F. Research Abstracts Published (International)

F1.	R. Amin, M. M. Rahman, <u>A. S. Mollah</u> , A. H. Chowdhury, A. Koddus and M. A. Malek, "Design, development and evaluation of high radiation measurement dosimeter from locally available perspex", IAEA-Health Physics Research Abstracts, <u>Vol. 13</u> , 15 (1987)(Austria).
F2.	<u>A. S. Mollah</u> , M. M. Rahman and S. R. Husain, "Environmental radioactivity monitoring around the 3 MW TRIGA Mark II research reactor", IAEA-Health Physics Research Abstracts, <u>Vol. 13</u> , 116 (1987)(Austria).
F3.	S.R. Husain, M. M. Rahman, <u>A. S. Mollah</u> , A. Koddus, A. Malek, M. A. R. Molla, F. K. Miah and A. Jalil, "Establishment of secondary standard dosimetry laboratory (SSDL) in Bangladesh", IAEA-Health Physics Research Abstracts, <u>Vol. 13</u> , 15 (1987)(Austria).
F4.	<u>A. S. Mollah</u> , M. M. Rahman, S. Islam, H. Rahman and S. R. Husain, "Sorption of some radionuclides on soil", IAEA-Waste Management Research Abstracts, <u>Vol. 18</u> , 7 (1987)(Austria).
F5.	M. M. Rahman, <u>A. S. Mollah</u> , S. R. Husain, S. Islam, M. Rahman and A. Husain, "Studies of soil characteristics from representative shallow land trenches for disposal of radioactive wastes in hot and humid climate", IAEA- Waste Management Research Abstracts, <u>Vol. 18</u> , 8 (1987)(Austria).
F6.	<u>A. S. Mollah</u> and M. M. Rahman, "Characteristics of direct reading pocket dosimeters", IAEA-Health Physics Research Abstracts, <u>Vol. 14</u> , 17 (1989)(Austria).
F7.	<u>A. S. Mollah</u> and M. M. Rahman, "Doses to the public from building materials and evaluation of radon concentration in dwelling in Bangladesh", IAEA-Health Physics Research Abstracts, <u>Vol. 14</u> , 124 (1989)(Austria).
F8.	<u>A. S. Mollah</u> and M. M. Rahman, "The influence of climatic parameters of external background radiation level in Bangladesh", IAEA-Health Physics Research Abstracts, <u>Vol. 14</u> , 221 (1989)(Austria).
F9.	<u>A. S. Mollah</u> , M. M. Rahman, F. Elahi, S. Islam, H. Rahman and S. R. Husain, "Studies on sorption/desorption of selected radionuclides using various soil matrice", IAEA-Waste Management Research Abstracts, <u>Vol. 19</u> , 124 (1988)(Austria).
F10.	M. M. Rahman, H. M. M. Khan, <u>A. S. Mollah</u> , A. Koddus and S. Roy, "Demonstration experiments for shallow land disposal of radioactivity contaminated skimmed milk powder and allied products", IAEA-Waste Management Research Abstracts, <u>Vol. 20</u> , 103(1990)(Austria).
F11.	M. M. Rahman, A. Koddus, <u>A. S. Mollah</u> , S. Roy and K Alam, "Inventory of radioactive wastes generated from 3 MW TRIGA Mark-II research reactor at AERE, Savar, Bangladesh", IAEA-Waste Management Research Abstract, <u>Vol. 21</u> , 174 (1992)(Austria).
F12.	<u>A. S. Mollah</u> , G. U. Ahmad and N. Vana, "Dose measurements in neutron-gamma mixed radiation field with thermoluminescence dosimeters (TLDs)", IAEA-Radiation Safety Research Abstracts, <u>Vol. 1</u> , 2(1995)(Austria).

## G. Supervision of M. Sc. Thesis Works

G1.	A study on neutron and gamma mixed field by LiF thermoluminescence dosimeter, Roll No. Phy. 464, Session: 1987-88, 1991, JU (Supervisors: Prof. A. Yunus and <b>Dr. A. S. Mollah</b> ).
G2.	Extraction of pure thermal neutron beam for a prompt gamma neutron activation analysis facility at a radial beam port of TRIGA research reactor of AERE, Savar, Roll No. 465, Session: 1989-90, 1992, JU (Supervisors: Prof. M. A. Zama, Dr. M. H. Ahsan and <b>Dr. A. S. Mollah</b> ).
G3.	A study on neutron and gamma mixed field dosimetry at the neutron radiography facility at 3MW TRIGA Mark-II reactor, 1994, Roll No. Phy. 273, Session: 1990-91, JU (Supervisors: Prof. Afrozi Yonus and <b>Dr. A. S. Mollah</b> ).
G4.	A study on dosimetric properties of LiF (TLD-100) thermoluminescence dosimeter, Roll No. Phy.205, Session:1991-1992, 1995, JU (Supervisors: Prof. Mir. Md. Akramuzzaman and <b>Dr. A. S. Mollah</b> ).
G5.	Standardization of high radiation dosimetry systems in radiation processing, Roll No. Phy.204, Session: 1991-92, 1995, JU (Supervisors: Prof. Mir. Md. Akramuzzaman and <b>Dr. A. S. Mollah</b> ).
G6.	Measurements of environmental gamma radiation by thermoluminescence dosimetry in and around the Jahangirnagar University campus, Bangladesh, Roll No. Phy.197, Session: 1991-92, 1995, JU (Supervisors: Prof. Afrozi Yonus and <b>Dr. A. S. Mollah</b> ).
G7.	An assessment of radiation exposure level around some diagnostic X-ray installations in Savar, Manikgonj and Dhamrai region, Roll No. Phy.230, Session: 1992-93, 1996, JU (Supervisors: Prof. Mir. Md. Akramuzzaman and <b>Dr. A. S. Mollah</b> ).
G8.	Influence of soil properties on the transfer factor of Cs-137 in wheat plants, Roll No. 8315, Session: 1991-92, 1996, DU (Supervisors: Prof. S.M. Ullah and <b>Dr. A. S. Mollah</b> ).
G9.	Transfer of Cs-137 from soil to vegetable crops in Bangladesh, Roll No. 8309, Session: 1991-92, 1996, DU (Supervisors: Prof. I.U. Ahmed, Prof. S.M. Ullah and <b>Dr. A. S. Mollah</b> ).
G10.	An assessment of medical exposure and radiation protection aspects for different diagnostic x-ray procedures, Roll No. Phy.66, Session: 1993-1994, 1997, JU (Supervisors: Prof. Mir. Md. Akramuzzaman and <b>Dr. A. S. Mollah</b> ).
G11.	A study on dosimetric properties of Harshaw personnel monitoring TLD badge for implementation of ICRU new operational quantities, Roll No. Phy.68, Session: 1992-1993, 1997, JU (Supervisors: Prof. Mir. Md. Akramuzzaman and <b>Dr. A. S. Mollah</b> ).
G12.	Radioactivity in underground and commercial mineral drinking water in Dhaka city, Roll No. 58, Session:1993-94, 1997, JU (Supervisors: Prof. Dilder Hossain and <b>Dr. A. S. Mollah</b> ).
G13.	Gamma spectrometric analysis of natural radioactivity in ground water, Roll No. 6905, Session: 1993-94, 1997, DU(Supervisors: Prof. A. H. Khan and <b>Dr. A. S. Mollah</b> ).
G14.	Measurements of radioactivity in books, Roll No. Phy.915, Session: 1994-95, 1998, JU (Supervisors: Prof. Mir. Md. Akramuzzaman, and <b>Dr. A. S. Mollah</b> ).
G15.	A study on dose distribution in the core of 3 MW TRIGA Mark-II research reactor, AERE, Savar, Dhaka, Roll No. Phy.96339, Session: 1995-96, 1999, JU (Supervisors: Prof. Mir. Md. Akramuzzaman and <b>Dr. A. S. Mollah</b> ).
G16.	Assessment of radioactivity and absorbed doses of human body by a whole-body counter, Roll No. Phy.96330, Session: 1995-96, 1999, JU (Supervisors: Prof. Mir. Md. Akramuzzaman and <b>Dr. A. S. Mollah</b> ).
G17.	A study on shielding effectiveness of some radiation facilities, Roll No. Phy.96333, Session: 1995-96, 1999, JU (Supervisors: Prof. Mir. Md. Akramuzzaman and <b>Dr. A. S. Mollah</b> ).
G18.	A study of response of gamma radiation on some radiation measuring instruments, Roll No. Phy.96327, Session: 1995-96, 1999, JU (Supervisors: Prof. Mir. Md. Akramuzzaman and <b>Dr. A. S. Mollah</b> ).
G19.	Measurements of radioactivity in total diet and estimation of resulting doses to population at large, Roll No. Phy. 96324, Session: 1995-96, 1999, JU (Supervisors: Prof. Dilder Hossain , Aleya Begum and <b>Dr. A. S. Mollah</b> ).
G20.	Measurements of radioactivity in soils around the research reactor at AERE, Savar, Roll No. Phy. 96340, Session: 1995-96, 1999, JU (Supervisors: Prof. Dilder Hossain, Aleya Begum and <b>Dr. A. S. Mollah</b> ).
G21.	A study on the radiation protection aspects in the Sylhet Nuclear Medicine Center, Roll No. PSM008/97, Session: 1996-97, 1999, SUST (Supervisors: Mr. Delwar Hossain and <b>Dr. A. S. Mollah</b> ).
G22.	An assessment of radiation exposure level around some diagnostic x-ray installations in sylhet city, roll no. Psm010/97, session: 1996-97, 1999, sust (supervisors: Mr. Delwar hossain and <b>dr. A. S. Mollah</b> ).
G23.	Optimization of shielding thickness for radiation facilities, Roll No. Phy.970063, Session:1996-97, 2000, JU (Supervisors: Prof. Mir. Md. Akramuzzaman and <b>Dr. A. S. Mollah</b> ).
G24.	Radiation dose measurements in different high rise buildings, Roll No. Phy.970067, Session: 1996-97, 2000, JU (Supervisors: Prof. Mir. Md. Akramuzzaman and <b>Dr. A. S. Mollah</b> ).
G25.	Evaluation of radiation doses in mammography in Bangladesh, Roll No. Phy.970061, Session: 1996-97, 2000, JU (Supervisors: Prof. Mir. Md. Akramuzzaman and <b>Dr. A. S. Mollah</b> ).
G26.	Shielding design and safety evaluation for linear accelerator and brachytherapy facilities using computer codes, Roll No. Phy.980029, Session: 1997-98, 2001, JU (Supervisors: Prof. Mir. Md. Akramuzzaman and <b>Dr. A. S. Mollah</b> ).
G27.	Assessment of glandular radiation dose in mammography practices, Roll No. Phy.913456, Session: 2002-2003, JU (Supervisors: Prof. Mir. Md. Akramuzzaman and <b>Dr. A. S. Mollah</b> ).
G28.	Calculation of gamma-ray attenuation of IM concrete, Roll No. SH5782 session 2013-2014, DU (Supervisors: Prof. M. K. Kabir and <b>Dr. A. S. Mollah</b> ).
G29.	Calculation of gamma-ray attenuation of poly-boron, Roll No. FH7865 session 2013-2014, DU (Supervisors: Prof. M. K. Kabir and <b>Dr. A. S. Mollah</b> ).
G30.	Study on gamma ray attenuation of locally developed bees wax bolus, Roll No. 1012, Session 2016-2017, KYAU

	(Supervisors: Prof. <b>Dr. A. S. Mollah</b> and M. I Sayyed), Dec 2018.
G31.	Study on shielding attenuation of X-ray for different X-ray facilities, Roll No. 1011, Session 2016-2017, KYAU (Supervisors: Prof. <b>Dr. A. S. Mollah</b> and Md. M. Rahman), Dec 2018.
G32.	Ultrasound image quality analysis by using ImageJ software, Roll No. 1009, Session 2016-2017, KYAU (Supervisors: Prof. <b>Dr. A. S. Mollah</b> and Md. M. Rahman), Dec 2018.

## H. Supervision of M. Phil. Thesis Works

H1.	Neutron flux measurement by activation method and study of neutrons and gamma rays attenuation properties of multilayered shields by Md. Abdul Matin, 1990, BUET (Supervisors: Prof. G.U. Ahmad, M.A. Rahman and <b>Dr. A. S. Mollah</b> ).
H2.	Development of high radiation dosimeters using locally available materials for industrial radiation processing by Md. Delwar Hossain, December 1998, Roll No. Phy.3, Session: 1995, JU (Supervisors: Prof. Mir. Md. Akramuzzaman and <b>Dr. A. S. Mollah</b> ).
H3.	Effect of dose of some ionizing radiation on cancer patients by Md. Nurul Amin, December 1999, Roll No. Phy.340 Session:1995-1996, JU (Supervisors: Prof. Mir. Md. Akramuzzaman and <b>Dr. A. S. Mollah</b> ).
H4.	A study of radioactivity and radiation levels in Bangladesh for assessment of population exposure by Shyamal Ranjan Chakraborty, March 1999, BUET (Supervisors: Prof. G. U. Ahmad and <b>Dr. A. S. Mollah</b> ).
H5.	The determination of organ doses of diagnostic and therapeutic patients by Md. Motiur Rahman, Roll No. Phy.345, Session: 1995-1996, 2000, JU (Supervisors: Prof. Mir. Md. Akramuzzaman and <b>Dr. A. S. Mollah</b> ).
H6.	Evaluation of the population exposure from X-ray uses in medical field by Manash Kanti Biswas, May 2000, BUET(Supervisors: Prof. G. U. Ahmad and <b>Dr. A. S. Mollah</b> ).
H7.	Radiation protection management in several x-ray installations of Narayangonj by Ms. Sultana Mahmuda Yeasmin, Roll No. 9514020F, Session 1994-95-96, 2004, BUET (Supervisors: Prof. Nazma Zaman and <b>Dr. A. S. Mollah</b> ).
H8.	Quality assurance and radiation safety assessment of diagnostic X-ray unit by Mahfuza Begum, October 2006, BUET (Supervisors: Prof. M. Hoque and <b>Dr. A. S. Mollah</b> ).

## I. Supervision of BSc (Nucl. Sci. & Engg.) Project Works

I1.	Thermal hydraulics analysis of pebble bed modular reactor by using ANSYS (2017).
I2.	Development of low cost gamma-ray shielding materials from locally available materials (2017).
I3.	Development of a Computer Program Based on Analytical Method for SMR Core Design Calculations (2018).
I4.	Modeling and Validation of IAEA 3D PWR Benchmark Problem Using Comsol Multiphysics (2019).
I5.	Simulation of dynamic behavior of Xe-135 and Sm-149 production using MATLAB Code for a typical research reactor (2019).
I6.	Nuclear Fuel Depletion Analysis Using MATLAB Software (2020).
I7.	Computational benchmark analysis of VVER-1000 assemblies with LEU by using OpenMC code (2020).
I8.	Shielding Design for High Radioactive Source (2020).
I9.	Generation of cosine shape thermal response for thermal hydraulic test facility (THTF) heated rods by using locally developed induction heating system (2021).
I10.	Development of a robotic system for handling of radioactive materials (2021).
I11.	Analysis of heat transfer of locally developed laboratory based spent fuel storage pool system using a helical coil heat exchanger (2022).

## J. Supervision of BSc (Nucl. Sci. & Engg.) Thesis Works

J1.	Use of biokinetic model for calculation of internal radiation doses for occupational worker (December 2018).
J2.	A PWR pin cell burnup benchmark analysis using WIMSD5 transport lattice code (December 2018).
J3.	Studies on gamma-ray & neutrons attenuation properties of locally developed concrete as radiation shielding material (December 2018).
J4.	Calculation of Standardized Uptake Value (SUV) from PET-CT image by using inhouse developed MATLAB software (2019).
J5.	Analysis of quality control of Gamma Camera SPECT System by locally developed using bar Phantom (2019).
J6.	Steady-State Thermal-Hydraulic Analysis of a Small Modular Pressurized Water Reactor (2019).
J7.	Nuclear Data Processing and Neutronics Analysis of Nuclear Reactors Using OPENMC and NJOY21 Codes (2019) ( <b>Awarded best student thesis</b> ).
J8.	Calculation of Core Design Parameters for Small Modular Reactor (SMR) Using In-House Developed Computer Program (2019).
J9.	Calculation of Gamma Ray Dose Rate By GEANT4 Software and Thermal Analysis by ANSYS Software Through the Multilayer Shielding of a Generic VVER-1200 (2020).

J10.	A comparative Study on PWR Based VERA Depletion Benchmark Problems With OPENMC, OPENMC-ONIX AND DRAGON Codes (2020).
J11.	Conceptual Design and Gamma Ray Shielding Analysis of a Spent Fuel Transportation Cask for TRIGA MARK II Research Reactor (2020).
J12.	Conceptual Design and Thermal Analysis by using ANSYS software of Dry Storage of Spent Fuel Cask (2021).
J13.	Neutronic Analysis of VVER-1000 Core Benchmark by using OpenMC (2021)
J14.	Thermal Hydraulic Analysis by using CFD for triga reactor sub-chanel (2021).
J15.	Calculation of Gamma Ray Dose Rate By GEANT4 Software for waste storage container (2021).

### K. Supervision of Ph. D. Thesis

K1.	A study on biological shield design and analysis of radiation doses for a nuclear power reactor by Md. Sazzad Hossain, JNU, Savar, May 2005 (Supervisors: Prof. Mir. Md. Akramuzzaman and <b>Dr. A. S. Mollah</b> ).
K2.	Assessment of health hazard and exposure limits due to non-ionizing radiation from wireless/telecommunication in Bangladesh by AKM Fazlul Haque, JNU, Savar, March 2008 (Supervisors: Prof. M. A. Zaman and <b>Dr. A. S. Mollah</b> ).
K3.	Assessment of radiological dose arising due to a hypothetical accident of a research reactor by using indigenously developed computer code by Md. Moksed Ali, JNU, Savar, February 2010 (Supervisors: Prof. Mir. Md. Akramuzzaman and <b>Dr. A. S. Mollah</b> ).
K4.	Assessment of internal radiation doses due to intake of radionuclides by ingestion in human body by A.H.M. Ruhul Koddus, JNU, Savar, April 2010 (Supervisors: Prof. Mir. Md. Akramuzzaman and <b>Dr. A. S. Mollah</b> ).
K5.	Assessment of radiological health hazard due to severe accident of nuclear power reactor by Md. Moniruzzaman, JNU, Savar, July 2011 (Supervisors: Prof. Mir. Md. Akramuzzaman and <b>Dr. A. S. Mollah</b> ).
K6.	Calculation of radiation dose from intake of radionuclides by Sayed Mohammad Iqbal, National University, Gazipur, Dhaka, July 2011 (Supervisor: <b>Dr. A. S. Mollah</b> ).
K7.	Calculation of MGD and breast densities for Bangladehi women by Ms. Meherun Nahar, JN University, Savar (Thesis submitted in June 2014 (Supervisors: Prof. Mir. Md. Akramuzzaman and <b>Dr. A. S. Mollah</b> ).

### L. WHO-BAEC Regulatory Guides

L1.	Regulatory Guide (RG) on Quality Assurance for Diagnostic X-ray Facilities, NSRC-XR-G03, 2005 (ISBN 984-32-2622-4).
L2.	RG on Radiation Protection in Radioactive Waste Management Practices, NSRC-WM-G-01, 2005 (ISBN 984-32-2623-2).
L3.	Regulatory Guide on Radiation Protection in Dental X-ray, NSRC-XR-G-02, 2005 (ISBN 984-32-2621-6).
L4.	Regulatory Report on Environmental Impact Assessment on Radioactive Waste Management Situation in Bangladesh, NSRCD-TRS-02, 2005 (ISBN 984-32-2860-X).
L5.	Regulatory Report on A Study on Assessment of Radiation Hazard Due to Use of Ionizing Radiation Sources in Bangladesh, NSRCD-TRS-01, 2005 (ISBN 984-32-2859-6).
L6.	Regulatory Guide on Radiation Protection in Health Facilities, NSRC-RP-G-01, 2007 (ISBN 984-300-000818-5).

### M. Book Chapter

M1	Book name: Radionuclide Contamination and Remediation Through Plants Chapter 3: Radionuclide Uptake from Soil to Plants: Influence of Soil Classification, Springer International Publishing Switzerland, 2014
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