

Curriculum Vitae
Dr. Nikola Abo Issa
Damascus University
Syrian Private University
nicolanu@scs-net.org
00963 946184140



EDUCATION:

1989 Ph.D. in Nuclear Physics, Leningrad University, Russia.
1985 Diploma in Nuclear Physics.
1982 B.Sc. in physics and chemistry, Damascus University, Syria.

HONORS, AWARDS & FELLOWSHIPS:

2000 Fellowship for training at isotopes center, Cairo, Egypt.
2001 DAAD for 3 months at DESY.
2003 ABDLSALAM center Italy, Trieste.

EMPLOYMENT EXPERIENCE:

2018 Syrian private university
1997 to date Damascus University, Damascus, Syria.
1989 to 1997 Tishreen University, Latakia, Syria.

RELEVANT PROFESSIONAL EXPERIENCE:

1997 – 2017 Staff member of the biomedical engineering department, Damascus University.
Participating in preparing some laboratory at the faculty.
Supervised many postgraduate projects at the Biomedical Engineering department.
Supervised diploma- and master degree studies of many students at the Biomedical Engineering department.
Supervised PhD studies of two postgraduate students at the Biomedical Engineering department and Physics department.

COMMITTEE MEMBERSHIP

None.

PUBLICATIONS, TRANSLATIONS & CONTRIBUTIONS:

1. Books:

Radiation physics and its applications in medicine.
Technology of Medical Radiology.
Physics (1)

2. Articles:

2013 Nicola Abou Issa, Mamoun Ali, V. B. Gitlin. Spectral features of Arabic vowels pronounced together with emphatic consonants (Journal “ISTU Messenger”, 2013).

- 2010 Scanning probe microscope 3D images analysis of the glass ceramic substrate surface (International conference “Advances in Coordinate Metrology”, University of Bielsko-Biala, Bielsko-Biala, 2010, pp. 471-476, ISBN 978-83-62292-56-1).
- 2008 Study of subsurface structure and determination of the seismic surfaces characteristics, Central Syria (Magazine of ISTU 3(39), 2008, pp. 106-112).
- 2006 Information model of recording and processing of photoplethysmograms (Journal “ISTU Messenger”, No. 3, pp. 48-52).
- 2001 Possibility of industrial use of the method of vacuum distillation separation for production of cyclotron radionuclides (Journal of Applied Radioactivity Measurements, Vol. 12, No. 3, 2001).

CONFERENCE PAPERS:

- 2014 Nicola Abou Issa. Prospects of Cooperation between Russian and Arab Universities (Proceedings of EQ2014 Conference, ISTU, April 2014).
- 2010 Photoplethysmograph model (the All-Russian Scientific & Practical Conference devoted to the 90th anniversary of statehood of the Udmurt Republic, February 16–19, 2010, Izhevsk, Russia. Conference Proceedings “Scientific support of innovative development of agrarian and industrial complex”)
- 2008 ‘Technical Universities: Integration with European and World Education Systems’, April 22–24, 2008, Izhevsk, Russia. Conference Proceedings, Vol. 1, pp. 205–209).
- 2008 Normalizing influence of auricular laserpuncture to central genesis ophthalmohypertension (the 4th Workshop on Laser Science and Applications, May 20–22, 2008).
- 2008 Engineering of Knowledge. Computer technologies in education, science and practice (the conference ‘Technical Universities: Integration with European and World Education Systems’, April 22–24, 2008, Izhevsk, Russia).
- 2008 Participated in and completed the course of medical thermometers, Damascus 29–31/07/2008. Expert SMAP program to add environmental data on Syria on the site clean initiative for the Mediterranean.
- 2006 Analysis of educational system and advanced training in Syria (the conference ‘Technical Universities: Integration with European and World Education Systems’, Izhevsk, Russia, 2006).
Study of higher education challenges in the Arab world and overcoming the obstacles (the conference).
- 2005 Participated in and completed the technology and applications of accelerator-driven systems (ADS) in cooperation with the International Atomic Energy Agency (IAEA, Vienna, Austria), 17–28 October, 2005. Miramare, Trieste, Italy.
- 2004 Requirements of physics course enhancement at the faculty of Mechanical and Electrical Engineering of Damascus University (the conference ‘Technical Universities: Integration with European and World Education Systems’, Izhevsk, Russia, 2004).
- 2001 Conducted the following research in Radiation Laboratory HASYLAB of Hamburg, Germany, September–December, 2001:
 - A- Preparation of two Si-crystals as a monochromator system for microtomography.
 - B- Experiments for measuring the doses of some iodine gadolinium water and air solutions by means of monochromatic X-rays at 20 keV, 33 keV, and 50 keV.

C- Preparation of DEI and CT experiments and taking radiography of different medical and geological samples as well as their image processing by means of a special computer programme.

D- Experiments on a recently designed double crystal monochromator with a cooling system on both sides of the crystal and a new method for crystal bending.

- 2001 Production of radionuclides for therapy (the conference on properties of excited conditions for nuclei and mechanisms of nuclear reactions, St-Petersburg, Russia, 2001).
- 2000 Analysis of Alpha particles scattering on even – even Zn by connected method (the Nuclear Physics and Spectroscopy Conference 2000, St-Petersburg, Russia).
- 2000 Choosing a new industrial technology of getting medical radio nuclides using a cyclotron (the Nuclear Physics and Spectroscopy Conference 2000, St-Petersburg, Russia).
- 1999 Participated in course of isotopes application and nuclear safety, Middle-Eastern Regional Radioisotope Center for the Arab countries, Cairo. 8–26/05/1999.
- 1998 Conference on materials with the report ‘A method of measuring thickness of a very thin target using Alpha particles and its comparison with the results obtained by the same method but with the use of Gamma rays’. October, 1998, Beirut, Lebanon.
- 1998 2nd Biomedical conference with the report ‘The Radon, its effects, its existence and protection against its radiation’. November, 1998, Damascus, Syria.
- 1997 First Biomedical conference with the report ‘Medical applications of Isotopes. May 1997, Damascus, Syria.
- 1997 Influence of direct excitation and collective excitation in elastic scattering of protons and Alpha particles from even – even Zn (Science Week 1997, Damascus, Syria).
Studying the emissions of Radioactive waste in Syrian hospitals (Science Week 1999, Damascus, Syria).

PUBLIC LECTURES:

None.

LANGUAGES:

Native language: Arabic.

Russian: excellent (reading, writing and speaking).

English: very good (reading, writing and speaking).

Portuguese: good (speaking).

MEMBERSHIPS:

None.

Updated: June 2018