Two-Day Regional Workshop on Nanomaterials Driven Advances in Chemical and Biosensors – NanoSe 2024

4-5 April 2024

ALAGAPPA UNIVERSITY

(A State University Established in 1985)
Karaikudi - 630 003. Tamil Nadu, India.

2017 | 2018 | 2018 | 2023 | 2023 | 2024

Department of Bioelectronics and Biosensors

organizes

Two-day Regional Workshop on

Nanomaterials Driven Advances in Chemical and Biosensors

(NANOSE-2024)

Date : 4th & 5th April 2024 **Venue : Science Campus, Alagappa University**

ORGANIZING COMMITTEE

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Vice-Chancellor, Alagappa University
Co – Patron
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Prof. K. Sethupathi, IIT- Madras
Dr. R. Thangamuthu, CSIR-CECRI, Karaikudi
Prof. V. S. Vasantha, Madurai Kamaraj University
Dr. S. Vasudevan, CSIR-CECRI, Karaikudi

REGISTRATION

The maximum number of participants for this workshop is limited to 50 only. **Hence, interested Students / Research Scholars / PDFs are encouraged to register on or before 28th March 2024.**

A nominal amount of Rs. 250/- per participant shall be charged to meet out the cost of refreshment and lunch. The payment can be made directly at the registration desk on 4th April 2024 between 9-10 am.

ACCOMMODATION

Accommodation will be arranged in the guest house/hotels upon request on payment basis.

All correspondence should be addressed to
Prof. C. Sekar
Convener (NANOSE - 2024)
Department of Bioelectronics and Biosensors
Alagappa University
Karaikudi-630 003. TAMILNADU
Mobile : +91 94425 63637 / Phone : 04565 226385
Email : sensor2025@gmail.com

Alagappa University

The University has emerged from the galaxy of institutions initially founded by the great philanthropist and educationist Dr. RM. Alagappa Chettiar in the year 1985 at Karaikudi. The University is accredited with 'A+' Grade by NAAC. New innovative courses of scientific and social relevance are being offered through regular, distance and online modes. The University has obtained Category "I" status by the MHRD and occupies 2nd place out of the 12 State Universities. It has secured 30th position among Universities in National Institutional Ranking Framework (NIRF) 2023 ranking. Adding to its glory, the University has reached global recognition with the coveted TIMES World Universities Rankings 2023 in the bandwidth of 400-500.

Department of Bioelectronics and Biosensors

Department of Bioelectronics and Biosensors was established in the year 2008 with the objectives to promote interdisciplinary research and innovation in the chemo-bio-sensing processes and devices for the fast, selective and sensitive evaluation of molecules for applications in the fields of clinical, medical, environmental and food industries. The Department offers a PG programme in M.Sc. in Materials Science and Ph.D. programmes in the fields of Materials science, Bioelectronics and Biosensors.

Theme of the workshop

The quest for novel functional materials and their tailored modifications for sensor applications in biomedical, agricultural, automobile, food and environmental monitoring is swiftly gaining traction within the scientific and engineering communities. This surge is driven by the imperative to innovate, comparing and contrasting with existing sensor technologies, and pioneering novel solutions hitherto unexplored. In recent years, the spotlight has increasingly turned towards nanomaterials-based chemo-biosensors lauded for their simplicity, enhanced sensitivity, cost-effectiveness, and portability. This proposed workshop endeavours to furnish a dynamic forum wherein researchers, professionals, and entrepreneurs can convene to glean insights into the latest advancements in nanomaterials and sensor technologies, thereby fostering collaborative actions towards impactful innovations.

LIST OF SPEAKERS

Prof. R. Jayavel,
Dean, ACTECH, Anna University
Two Dimensional Functional Nanostructures for Sensor Applications

Prof. R. Ilangovan
University of Madras
Exploring rGO-Based Nanocomposites for Enhanced Electrochemical Biosensor

Prof. V. S. Vasantha
Madurai Kamaraj University
Role of nanomaterials in the development of electrochemical Biosensors

Dr. J. Mathiyarasu
CECRI, Karaikudi
Recent advancements in electrochemical sensing strategies.

Dr. V. Ganesh
CECRI, Karaikudi
Multidisciplinary Approach for Healthcare Diagnostics: "Nano" at Play

Dr. A. Pandikumar
CSIR-CECRI, Karaikudi
Photoelectrochemical sensors for heavy metal detection

Dr. S. M. Senthil Kumar
CSIR-CECRI, Karaikudi
Porous Carbon-based material for sensing applications.

Dr. S. Senthil Kumar
CSIR-CECRI, Karaikudi
Wireless electrochemiluminescence: Fundamental and its application towards clinical analysis

Prof. R. T. Rajendra Kumar
Bharathiar University
MO/MS Heterojunction based room temperature chemical sensors

Dr. V. Murugan
CSIR-CECRI, Karaikudi
Role of Electrochemical (Bio)sensors in precision diagnostics

Prof. C. Sekar
Alagappa University
Metal oxide based electrochemical sensors for food quality assessment

Dr. V. Dharuman
Alagappa University
Detection of DNA biomolecules at modified electrode

Dr. J. Wilson
Alagappa University
Polymer Composites for Biosensors and Environmental Monitoring


THANK
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OPPO Reno5 Pro 5G
Karaikudi, Tamil Nadu | 2024.04.04 13:30


OPPO Reno5 Pro 5G
Karaikudi, Tamil Nadu | 2024.04.05 15:31

International (Indo – Poland) Workshop on Functional Materials for Sensor and Energy Applications (FM-SEA)
10-11 November 2022

ALAGAPPA UNIVERSITY

(A State University Established in 1985)
Karaikudi - 630 003. Tamil Nadu, India.

International (Indo - Poland) Workshop on "Functional Materials for Sensor and Energy Applications (FM-SEA)"

Jointly organized by

Department of Bioelectronics & Biosensors, Alagappa University, Karaikudi &
Materials Research Society of India (MRSI) - Trichy Chapter

on

10th & 11th November 2022

@

Science Campus, Alagappa University

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SCIENTIFIC ADVISORY COMMITTEE

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Prof. R. Jayavel, *Anna University*
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Dr. J. Mathiyarasu, *CSIR-CECRI, Karaikudi*
Dr. Mrinal Pal, *CSIR-CGCRI, Kolkata*
Prof. Nanda Gunawardena, *Sri Lanka*
Prof. Nicola Donato, *University of Messina*
Dr. Pratima Solanki, *JNU, New Delhi*
Prof. P. Ramasamy, *SSN Engineering College*
Prof. P. Ramasamy, *Bharath University, Chennai*
Dr. M.V. Shankar, *Yogi Vemana University, Andhra Pradesh*
Prof. Soumya Mukherji, *IIT Bombay*
Prof. K. S. Subramanian, *Tamilnadu Agricultural University*
Prof. C. Suri, *Chandigarh*
Prof. M. S. Thakur, *formerly at CFTRI, Mysore*
Dr. V. S. Vasantha, *MKU, Madurai*

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Head, Dept. of Industrial Chemistry
Prof. K. Gurunathan,
Head, Dept. of Nanoscience and Technology
Prof. K. Sankaranarayanan,
Head, Dept. of Physics
Prof. S. Karuppuchamy,
Head, Dept. of Energy Science

REGISTRATION

The maximum number of participants for this workshop is limited to 100 participants only. Hence, interested researchers are encouraged to register on or before 8th November 2022 through Email: nanose2022@gmail.com

REGISTRATION FEE

A nominal registration fee shall be charged to meet out the cost towards refreshment and lunch. The payment can be made directly at the registration desk on 10th November 2022 between 9-10 am.

Faculty and Scientists	:	Rs. 500/-
Research Scholars	:	Rs. 400/-
Students	:	Rs. 250/-

ACCOMMODATION

Accommodation will be arranged in the guest house/hotels upon request on payment basis.

Alagappa University

The University has emerged from the galaxy of institutions initially founded by the great philanthropist and educationist Dr. RM. Alagappa Chettiar in the year 1985 at Karaikudi. The University is accredited with 'A+' Grade by NAAC. New innovative courses of scientific and social relevance are being offered through regular, distance and online modes. The University has obtained Category "I" status by the MHRD and occupies 2nd place out of the 12 State Universities. It has secured 28th position among Universities in National Institutional Ranking Framework (NIRF) 2022 ranking. Adding to its glory, the University has reached global recognition with the coveted TIMES World Universities Rankings 2023 in the bandwidth of 400-500.

Department of Bioelectronics and Biosensors

Department of Bioelectronics and Biosensors was established in the year 2008 with the objectives to promote interdisciplinary research and innovation in the chemo-bio-sensing processes and devices for the fast, selective and sensitive evaluation of molecules for applications in the fields of clinical, medical, environmental and food industries. The Department offers a PG programme in M.Sc. in Materials Science and Ph.D. programmes in the fields of Materials science, Bioelectronics and Biosensors.

Materials Research Society of India (MRSI)

Materials Research Society of India (MRSI) was established in the year 1989. Currently it is managed by the council headed by Dr. S.B. Krupanidhias President and Dr. P.S. Anil Kumar as General Secretary. The MRSI is committed to stimulate, integrate and facilitate research activities in the broad areas of Materials Science for innovations in thrust areas of Materials Science and Engineering in the country. The main objectives of the MRSI are promoting advancements in Materials Science Community, sharing recent developments and innovations, and establishing active interactions among scientists, technologists, engineers and other researchers engaged in basic or applied research from different fields of Materials Science and Engineering.

The MRSI - Trichy chapter was established on 12th November 2015 with Prof. S. Arumugam of Bharathidasan University as its Secretary. There are 120 life members for now and the numbers keep growing.

Theme of the workshop

The search for new materials or modification of the existing materials for sensor and energy applications are gaining momentum among scientists and engineers to intuitively test and compare them to existing sensors of different kinds and to construct novel types of storage devices not available before. In recent years, nanomaterials-based chemo-biosensors and energy devices have attracted significant attention due to its simplicity, high sensitivity, low cost and portability. The proposed workshop will provide a platform for researchers, professionals and entrepreneurs to take stock of the latest developments in the areas of nanomaterials, sensor and energy applications.

All correspondence should be addressed to
Prof. C. Sekar / Prof. S. Arumugam (MRSI-Trichy)
Convenors : FM - SEA 2022
Department of Bioelectronics and Biosensors
Alagappa University
Karaikudi-630 003. TAMILNADU
Mobile : +91 94425 63637 / Phone : 04565 226385
Email : nanose2022@gmail.com

LIST OF SPEAKERS

Prof. S. Anandan
NIT Trichy
Nanostructured Carbon as a promising Energy Storage Material

Dr. V. Dharuman
Alagappa University, Karaikudi
Fabrication of Label free DNA sensors

Dr. Maciej J. Głowacki
Poland
Fluorescent diamond particles for optical monitoring of interactions between biomolecules.

Dr. Mateusz Ficek
Poland
Boron-doped carbon nanowalls for sensing application

Dr. Michał Rycewicz, Poland
The effect of boron concentration and strain on the electrical, morphological and optical properties of boron-doped diamond sheets

Dr. V. Murugan
CECRI, Karaikudi
Interlocking Redox System with Precise Bioreceptor for Next-Generation Electrochemical Biosensor

Dr. A. Pandikumar
CECRI, Karaikudi
Visible light active materials for photoelectrochemical water splitting

Prof. Robert Bogdanowicz
Poland
Functional diamond-based biosensing platforms for rapid detection of pathogens.

Dr. M. Sathish
CECRI, Karaikudi
Energy storage devices - Supercapacitors

Prof. C. Sekar
Alagappa University, Karaikudi
Metal oxide-based Chemo-biosensors

Dr. Srinivasu Kunuku, Poland
Doping of Diamond by Ion Implantation: Applications, Perspectives, and Challenges

Dr. Subrata Kundu
CECRI, Karaikudi
Size and Shape-selective Synthesis of Nanomaterials for Catalysis, Device and Energy related Applications

Dr. Susanta Sinha Roy
Shiv Nadar University
Nanocrystalline diamond-decorated graphene nanoflakes

Dr. J. Wilson
Alagappa University, Karaikudi
Polymer based electrochemical sensors

National Conference on NANOSE -2022
23rd & 25th March 2022

ALAGAPPA UNIVERSITY

(A State University Established in 1985)
Karaikudi - 630003. Tamil Nadu, India.

DEPARTMENT OF BIOELECTRONICS & BIOSENSORS

Organizes

National Conference on

Nanomaterials Driven Advances in Chemical and Biosensors

(NanoSe 2022)

23-25th March 2022
@ Science Campus

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Prof. S. Karuppuchamy
Vice-Chancellor Officiating Committee Members
Alagappa University, Karaikudi
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Co-CONVENERS
Dr. D. Dharuman
Dr. J. Wilson
Department of Bioelectronics and Biosensors
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Prof. Soumya Mukherji, IIT Bombay
Prof. K. Subramanian, TNAU, Coimbatore
Prof. M. S. Thakur, Mysore
Dr. V. S. Vasantha, MKU, Madurai

ABOUT THE UNIVERSITY AND DEPARTMENT

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ABOUT THE CONFERENCE

The search for new materials or modification of the existing materials for sensor applications are gaining momentum among scientists and engineers to intuitively test and compare them to existing sensors of different kinds or to construct novel types of devices not possible before. The preparation of nanomaterials with desired dimensions and properties are challenging by the chemical approach. However, such nanomaterials get immense attention because of its interesting physical, chemical and catalytic properties.

Emergence of nanoscience and technology led to the development of cost-effective and portable sensor devices with superior performances. In recent years, electrochemical biosensors have attracted significant attention due to its simplicity, high sensitivity, low cost, portability and superior performance. The proposed conference NANOSE 2022 will provide a platform for researchers, professionals and entrepreneurs to take stock of the latest developments in the area of nanomaterials, chemical and biosensors.

ABOUT THE VENUE

The three-day conference will be held in the Science Campus of Alagappa University at Karaikudi, a municipal town located in the southern part of Tamil Nadu. It is part of Chettinad region that connects Trichy and Madurai airports within about 2 hours drive. The town is also well-known for the style of houses that is unique to the place. Tourists are attracted to this region because of the lip-smacking dishes that are part of the local cuisine of Karaikudi. For those who are interested in pilgrimage and water sports, Rameswaram is an ideal spot, which is about 150 km from Karaikudi.

All correspondence should be addressed to
Dr. C. Sekar
Convenor - NanoSe 2022
Department of Bioelectronics and Biosensors
Alagappa University
Karaikudi-630 003. TAMILNADU
Contact details: +91 94425 63637 Phone: 04565 226385
Email: nanose2022@gmail.com

Sponsored by: **Alagappa University**

TOPICS OF INTEREST

Nanomaterials
Quantum dots
Carbon nanostructures
Natural and synthetic receptors
Biosensors
Chemical and Gas Sensors
Electrochemical Sensors
Optical Sensors
Microfluidics
Device fabrication

MODE OF PRESENTATION

There will be deliberations by experts in the form of plenary lectures, invited talks, oral and poster presentations by participants. One page abstract may be submitted via e-mail to Prof. C. Sekar (nanose2022@gmail.com). Abstracts will be accepted for the Final Programme only after registration of one of the authors.

MODE OF REGISTRATION

Registration should be done online before the initiated date and payment can be made on the spot.

IMPORTANT DATE

Last date for abstract submission:
18-02-2022
Last date for Registration:
21-02-2022

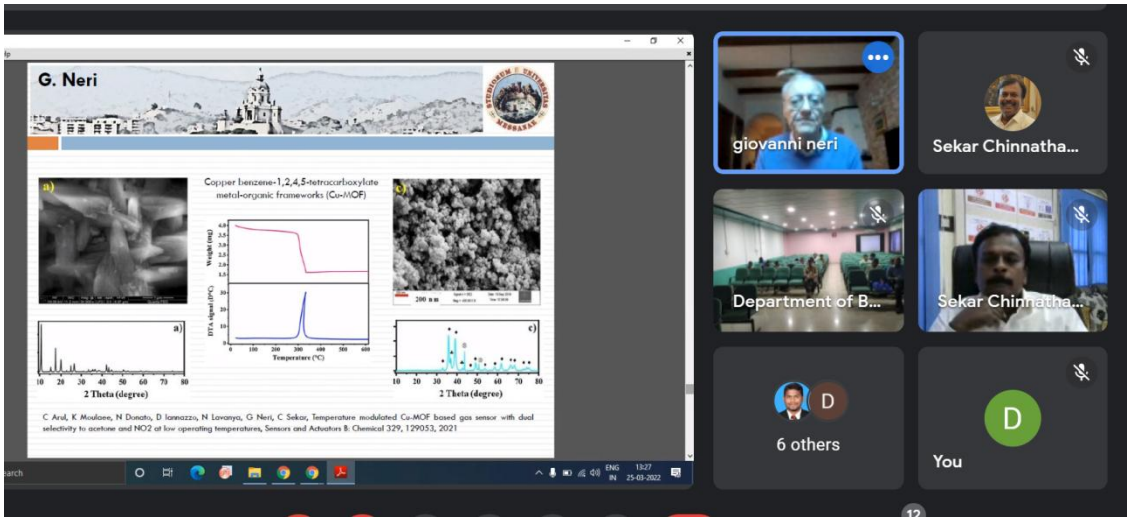
REGISTRATION FEE

Faculty / PDF	: Rs 1500/-
Research Scholars	: Rs 1000/-
Students	: Rs 500/-

ACCOMMODATION

Accommodation will be arranged in the hotels and student hostels on payment basis on request.


Commercialization POTENTIAL FOR
Chemo-biosensor: Indian perspective


G. Neri
Copper benzene-1,2,4,5-tetracarboxylate metal-organic frameworks (Cu-MOF)
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C Arul, K Moulaee, N Donato, D Iannazzo, N Lavanya, G Neri, C Sekar, Temperature modulated Cu-MOF based gas sensor with dual selectivity to acetone and NO2 at low operating temperatures, Sensors and Actuators B: Chemical 329, 129053, 2021
giovanni neri
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You


ALAGAPPA UNIVERSITY


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KARAIKUDI- 630 003, TAMIL NADU, INDIA
DEPARTMENT OF BIOELECTRONICS & BIOSENSORS
cordially invites you to the Inauguration of
Three days National Conference on
Nanomaterials Driven Advances in Chemical and Biosensors (NanoSe-2022)
(SPONSORED BY : Alagappa University, DST - SERB and CSIR - HRDG)
On Wednesday March 23rd, 2022 at 9.30 a.m.
in the Conference Hall, 4th Floor Science Campus
Prof. C. SEKAR
Welcomes
Dr. R. SWAMINATHAN
Prof. S. KARUPPUCHAMY
Members, Vice-Chancellor Officiating Committee
Presides
Prof. P. MANISANKAR
Former Vice Chancellor,
Bharathidasan University, Tiruchirappalli
Inaugurates
Prof. R. JAYAVEL
Director, Centre for Nanoscience and Technology
Anna University
Felicitates
Dr. V. DHARUMAN
Proposes Vote of Thanks
Prof. C. SEKAR
Convener
Dr. V. DHARUMAN & Dr. J. WILSON
Organizing Secretories
Prof. C. SEKAR
Registrar i/c

International Conference on NANOSE 2019

27-29th November 2019

ALAGAPPA UNIVERSITY

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Karaikudi - 630003. Tamil Nadu, India.

DEPARTMENT OF BIOELECTRONICS & BIOSENSORS

Organizes

International Conference on

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(NANOSE 2019)

27 - 29th November 2019

Venue : Science Campus, Alagappa University

PROGRAMME COMMITTEE

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Alagappa University, Karaikudi

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Professor & Head

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Assistant Professors

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Master Technician
Dept. of Bioelectronics & Biosensors

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Prof. Gerhard Grueber, NTU, Singapore
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Dr. V. S. Vasantha, MKU, Madurai
Dr. Zhang Jianjun, TPC, China

ABOUT THE UNIVERSITY AND DEPARTMENT

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ABOUT THE CONFERENCE

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Emergence of nanoscience and technology led to the development of cost effective and portable sensor devices with superior performances. In recent years, electrochemical biosensors have also attracted significant attention due to its simplicity, high sensitivity, low cost and portability. The proposed conference NANOSE 2019 will provide a platform for researchers, professionals and entrepreneurs to take stock of the latest developments in the area of nanomaterials, chemical and biosensors.

ABOUT THE VENUE

The three-day conference will be held in the Science Campus of Algappa University at Karaikudi, a municipal town located in the southern part of Tamil Nadu. It is part of the Chettinad region that connects Trichy and Madurai airports within about 2 hours drive. The town is also well-known for the style of houses that is unique to the place. Tourists are attracted to the place because of the lip-smacking dishes that are part of the local cuisine of Karaikudi. The dishes are prepared using a variety of spices and herbs and the cooking method employed for making these dishes is also very unique. You can purchase the snacks and carry them with you. For those who are interested in pilgrimage and water sports, Rameswaram is an ideal spot within about 150 Kms from Karaikudi.

All correspondence should be addressed to :
Dr. C. Sekar
Convenor -NANOSE-2019
Department of Bioelectronics & Biosensors
Alagappa University
Karaikudi-630 003. Tamil Nadu.
Phone : 04565 226385 | Mobile : 9442563637
E-mail : Nanose2019@gmail.com

SPONSORED BY : Alagappa University, DST, DST-PURSE, MHRD-RUSA 2.0, ICMR, UGC and TNSCST

TOPICS OF INTEREST

- Nanomaterials
- Nanobiomaterials
- Carbon nanostructures
- Quantum dots
- Natural and synthetic receptors
- Nanobiosensors
- Electrochemical Biosensors
- Optical biosensors
- Enzyme-based biosensors
- Immunobiosensors
- Printed biosensors
- Microfludics

MODE OF PRESENTATION

There will be deliberations by experts in the form of plenary lectures, invited talks, and oral and poster presentations by participants.

The abstracts (maximum 1 page A4 including references, single spaced in Times New Roman 12pt.) may be submitted via e-mail to Prof. C. Sekar (Nanose2019@gmail.com; Sekar2025@alagappauniversity.ac.in). You will be notified upon receipt of your abstract within a week from the date of submission. Abstracts will be accepted for the Final Programme only after registration of one of the authors.

IMPORTANT DATE

Last date for abstract submission :
30-10-2019

Last date for Registration :
15-11-2019

REGISTRATION FEE

Registration fee can be made through online mode

Research Scholars	:	Rs 1000/-
Faculty/Scientist	:	Rs 2000/-
International Participants	:	US$ 100/-

Account details shall be sent through email for the bank transfer of registration fee.

ACCOMMODATION

Accommodation will be arranged in the hotels and student hostels on payment basis on request


ALAGAPPA UNIVERSITY
DEPARTMENT OF BIOELECTRONICS AND BIOSENSORS
International Conference on
NANOMATERIALS DRIVEN ADVANCES IN CHEMICAL AND BIOSENSORS
(NANOBE 2019)
27 - 29th November 2019

Workshop on Nano-Bio-Sensors: Present Status and Future Perspectives (Nanose - 2018)
08-09th March 2018