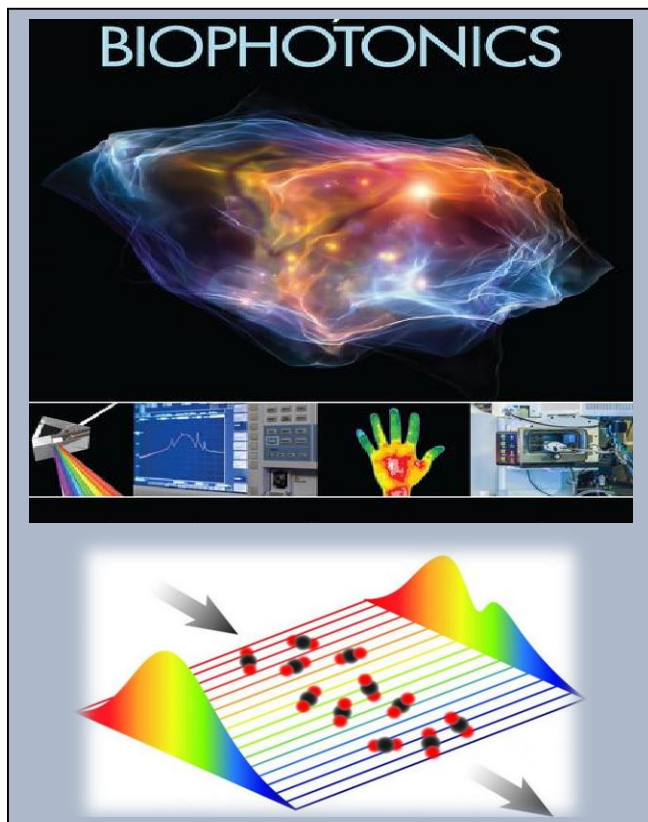

An Advanced Course on

Principles of Biophotonics

(Under the aegis of GIAN)

24th June to 05th July, 2019



Sponsored by:

MHRD, Govt. of India

Organized by:

**Department of Electronics &
Communication Engineering,
Malaviya National Institute of
Technology, Jaipur (Rajasthan)**

Jawahar Lal Nehru Marg, Jaipur,
Rajasthan -302017,

Website: www.mnit.ac.in

Principles of Biophotonics

Overview

Biophotonics reflects the union of the bio radical that means living with the term photonic, which refers to the physical elementary particle of light, known and the photon. Since the Napoleon wars, light has been used to enhance the biological process. From wound healing to the fight against antibiotic-resistant bacteria light has become a powerful tool to improve the overall quality of life. This course was conceived to collaborate in filling the gap on knowledge on Biophotonics, in which optics courses are too complex for people with only a bio background and biology courses are too complex for people with engineering or physics background.

Topics from basic principles of light and lasers physics; light-tissue interaction up to the state of the art in photo-biomodulation and photodynamic therapy will be covered.

The proposed 2-week course aims to offer a balanced technical content to suit the requirements of experts from both academia and industry. Hands-on exercise work related to the performance evaluation of proposed technologies will be included.

Modules	<ul style="list-style-type: none">➤ Concepts of light;➤ Lasers physics;➤ Light interaction with matter;➤ Light as a diagnostic tool;➤ Photo-biomodulation;➤ Photodynamic therapy;
Registration	Number of participants for the course will be limited to approx. fifty. Registration deadline 01 June 2019 (registration on first come first served basis). Visit http://www.gian.iitkgp.ac.in/GREGN
You Should Attend If you are...	<ul style="list-style-type: none">▪ Practicing Engineers, physicists, physicians, nurses, odontologists, physical therapists, physical educations, biologist etc.▪ Graduate and Post-graduate students (BTech/MSc/MTech/PhD) as well as Faculty from academic institutions and technical institutions.
Fees	The participation fees for taking the course is as follows: Participants from abroad: US \$250 Industry / Research Organizations: Rs 6500/- Faculty from Academic Institutions: Rs 3500/- Research Scholars/Postgraduate students: Rs 2000/- The above fee includes all instructional materials and kit, computer use for tutorials and assignments, laboratory equipment usage charges if any, free internet facility, and lunch+tea on all days. The participants will be provided with accommodation on payment basis based on availability.
Contact for any queries	Prof Vijay Janyani, Coordinator, vjanyani.ece@mnit.ac.in , 9549654240.

The Faculty



Dr Alessandro M. Deana has 15+ years of experience in teaching and R&D in photonics. The major part of his carrier has been as a full professor at University Nove de Julho in Brazil. With over 70 peer-reviewed published papers, 100+ conference papers hi has a solid background in both: lasers engineering and in biophotonics. His areas of interests are laser-computer aided diagnostics, solid states lasers and photo-biomodulation.



Prof Vijay Janyani completed his Bachelor's and Master's degrees in EC Engg. from MNIT Jaipur and PhD from University of Nottingham, UK. He has over twenty years of teaching and research experience and is currently a professor at the Department of ECE at MNIT Jaipur, and also the Head of Materials Research Center. He is a recipient of Derrick Kirk Prize of University of Nottingham UK for excellence in research, Commonwealth Ph.D. Scholarship of British Council UK, Career Award for Young Teachers of AICTE, New Delhi. Dr. Janyani is SMIEEE, LFOSI, SMOSA, SMSPIE, and FIETE.



Dr. Ghanshyam Singh received PhD degree in ECE and is Professor with the Department of ECE at MNIT Jaipur. Prof Singh was awarded as 'Distinguished Lecturership' by IEEE Photonics Society for term 2017-18. In past, he worked with HW University, Edinburgh, UEF Joensuu, Finland and KEIO University, Japan. Prof. Singh has delivered talks at various Universities in India/abroad. Dr. Singh is SMOSA, SMIEEE and MSPIE.

PRINCIPLES OF BIOPHOTONICS

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Expert (Foreign Faculty):

Dr Alessandro M Deana
Professor in Photonics and Biophotonics,
Universidade Nove de Julho, Sao Paulo, Brazil

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Course Co-ordinator:

Prof. Vijay Janyani

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E-mail: vjanyani.ece@mnit.ac.in

Course Co-coordinator:

Prof. Ghanshyam Singh

E-mail: gsingh.ece@mnit.ac.in

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For Registration:

<http://www.gian.iitkgp.ac.in/GREGN>

For more details and how to pay fee:

<http://mnit.ac.in/gian/courses.php>



Registration Form
**Global Initiative on Academic
Networks (GIAN) Program**
Principles of Biophotonics
June 24th July 05th, 2019



Malaviya National Institute of Technology Jaipur – 302017

Name	
Designation	
Department	
Organization	
Address for Correspondence	
Email ID	
Mobile Number	
Field of Specialization	
Accommodation Required:(Yes/No)	
Details of Fee Paid DD/NEFT	DD No. _____ dated _____ drawn on _____ amounting to Rs. _____/-only. Or NEFT dated _____ Transaction ID _____ amounting to Rs. _____/only.
Signature of the Applicant with date	

Recommendation of the Sponsoring Authority

The applicant is hereby sponsored for GIAN program on “**Principles of Biophotonics**” being organized by Department of ECE, MNIT Jaipur, and will be permitted to attend, if selected.

Signature and Seal of the Sponsoring Authority with date	
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