



# Dr. N.G.P. ARTS AND SCIENCE COLLEGE

(An Autonomous Institution, Affiliated to Bharathiar University, Coimbatore)  
Approved by Government of Tamil Nadu and Accredited by NAAC with 'A' Grade (2<sup>nd</sup> Cycle)  
Dr.N.G.P.-Kalapatti Road, Coimbatore - 641048, Tamil Nadu, India  
Web: www.drngpasc.ac.in | Email:info@drngpasc.ac.in | Phone: +91 - 422-2369100

## NATIONAL WORKSHOP ON BIG DATA ANALYTICS IN CLINICAL RESEARCH

**BDACR - 21**

March 18-19, 2021

*Organized by*

**DEPARTMENT OF COMPUTER SCIENCE WITH COGNITIVE SYSTEMS  
DEPARTMENT OF CLINICAL LAB TECHNOLOGY  
&  
DEPARTMENT OF COMPUTER TECHNOLOGY**

## Certificate of Appreciation

This is to certify that Dr./Mr./Ms. .... **MANIMEKALAI** ..... **S** .....

has acted as an organizing committee member in **NATIONAL WORKSHOP ON BIG DATA ANALYTICS IN CLINICAL RESEARCH (BDACR-21)** during March 18-19, 2021 organized by the Department of CS with Cognitive Systems, Department of Clinical Lab Technology & Department of Computer Technology, Dr. N.G.P. Arts and Science College, Coimbatore.

  
(Dr. A. Muthusamy)  
Convener

  
(Prof. Dr. V. Rajendran)  
Principal

**Dr.NGP ARTS AND SCIENCE COLLEGE**

**DEPARTMENT OF MEDICAL PHYSICS**

**MINUTES OF BOARD OF STUDIES MEET**

A meeting of Board of Studies (BOS) for Medical Physics was held on 26.06.2015 at 11am in the Department of Radiotherapy, Tumor Board at Kovai Medical Centre and Hospital (KMCH), Coimbatore. Following members were present in the meeting:

1. Mrs. S.Jayanthi, Assistant Professor, Department of medical physics- Chairman
2. Ms.Navitha.M, Assistant Professor, Department of Medical Physics- Member
3. Dr.K.Thayalan, Professor of Medical Physics – University Nominee
4. Mr. S.Antovaz, Chief Medical Physicist, KMCH- Industrial Member
5. Mr. S.Senthil Kumar- Medical Physicist KMCH- Industrial Member
6. Dr.Subramaniam HOD, Department of Radiation Oncology, Subject Expert

The syllabus for M.Sc., Medical Physics was discussed in the Board of studies .The BOS appreciated the overall adoption of the AERB syllabus. However, the following suggestions were made by the distinguished members for incorporation.

1. Eligibility:
  - The panel members are suggested to conduct entrance exam for selecting the candidates
  - Selection criteria based on: Academic: 60% of weightage and entrance: 40% of weightage.
2. Objective of the course:
  - 1<sup>st</sup> point changed as medicine and biology instead of radiation treatment of cancer.
3. Scheme of the Examination:
  - Based on course requirements papers are rearranged.
  - Name of the papers are renamed as very specific to the paper.
  - Project work mark is changed to 300 from 250, hence total marks changed to 2300
4. For course completion:
  - In the 3<sup>rd</sup> point observation programme is renamed as clinical medical physics training programme.
  - Also two month is revised to not less than two month.

## 5. Semester: I

- Paper:1
  - No change
- Paper:2
  - Instruction hours are changed for all units
  - Unit-1: suggest to include RF ablation
  - Unit-2: Suggest to change Flat panel system instead modern trends
- Paper:3
  - Paper name is changed to Electronics and Biomedical Instrumentation
  - No change in content
- Paper-4
  - Paper name changed as Anatomy and physiology as applied to radiation oncology and radiology imaging
  - Unit-1 : contents are changed
  - Unit-2: Suggested books for reference
- Paper-5
  - No Change
- Praticals:
  - No change

## 6. Semester –II

- Paper-1
  - Instruction hours are changed for each unit
  - Suggest to include Attix book for reference
- Paper-2
  - Suggest to change unit-4 title
  - Instruction hours are changed for each unit
  - Unit-5 particle beam therapy is shifted to III semester Modern radiotherapy trends paper
  - Suggest to include TECDOC 1274
- Paper-3
  - Paper named changed to Physics of radiology imaging
  - Unit-1: Suggest to include CR & DR
  - Unit5: content are shuffled to all the units
- Paper-4
  - No change
- Paper-5
  - No Change
- Practical
  - Suggest to add three more practicals

## 7. Semester-III

- Paper-1
  - Advised to change the paper title to Advanced Radiotherapy Physics instead of Modern Radiotherapy Trends.
  - Suggest to add proton therapy in unit-5

- Paper-2
  - Suggest to Change the Title to physics of nuclear medicine instead of Nuclear medicine and internal dosimetry.
  - Unit-1 title changed to Radionuclide and its production
- Paper-3
  - No change
- Paper-4
  - Suggested some reference books for Radiobiology
- Practicals
  - No Change



Chairman,

Board of Studies.



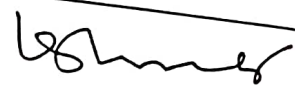
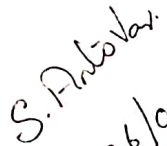
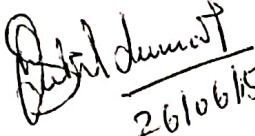
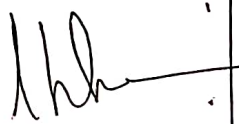
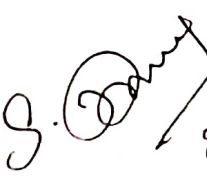

**Dr. NGP ARTS AND SCIENCE COLLEGE - COIMBATORE**  
**DEPARTMENT OF MEDICAL PHYSICS**  
**BOARD OF STUDIES MINUTES**

Venue: KMCH Tumor Board

Time: 11.00 A.M

Date: 26.06.2015

The following Board of Studies members are present for the autonomous syllabus review meeting

S.No	Name of the BOS member	Position	Signature
1.	Dr. K.Thayalan. Professor of Medical Physics Barnard Institute of Oncology Government Hospital, Chennai.	University Nominee	 26.6.15
2.	Mr. T. Sundaram Chief Medical Physicist Department of Radiotherapy, VN Cancer Centre GKNM Hospital Coimbatore.	Subject Expert	—
3.	Mr. S. Antovaz Chief Medical Physicist Department of Radiotherapy Kovai Medical Center and Hospital Coimbatore.	Industrial Expert	 26/06/15
4.	Mr. Senthil Kumar Medical Physicist Department of Radiotherapy Kovai Medical Center and Hospital Coimbatore.	Industrial Expert	 26/06/15
5.	Dr.Subramaniam, Head of the department Department of Radiotherapy Kovai Medical Center and Hospital Coimbatore.	Co.opted Member	
6.	Mrs.S.Jayanthi Course Coordinator Assistant Professor, Department of Medical Physics Dr.NGP Arts and Science College Coimbatore.	Chairman	 26/6/15
7.	Ms. M.Navitha Assistant Professor, Department of Medical Physics Dr.NGP Arts and Science College Coimbatore.	Member	

Date : 12/06/15  
Venue : IQAC Hall.

Following are the Changes made in the Allied Chemistry  
Paper I & Paper II, during the Board of studies meeting  
Conducted by the department of Chemistry.

Allied Paper I

unit I :  
Topics such as Octet rule, types of bond (Covalent bond &  
Multivalent bond) were added.

unit II :  
Pit base Concept based on Arrhenius & Lewis theory  
were introduced.

unit III :  
Terms such as asymmetric Carbon, Chirality, Optical  
activity, Plane of Polarisation were included.

unit IV :  
Analytical Chemistry was modified with the introduction of  
Surface Chemistry involving adsorption, Chemisorption,  
Physisorption, Applications of adsorption, factors influencing  
adsorption, Isotherm, isostere and Langmuir Theory of adsorption.

unit V :  
azo and triphenylmethane dyes are to be  
explained with few examples.

Unit 1

The changes were carried out in unit 1

Unit 2

Properties & structures of starch & Cellulose, <sup>carbohydrates</sup>  
Amino acids, Classification of saturated fat solids & unsaturated  
solids examples, sources of vitamins are introduced.

Unit 3

Aliphatic acids & aliphatic Compounds are reviewed.

Unit 4

The topic 'enzymes used in industry' is reviewed

Unit 5

The unit was modified by incorporating topics such as  
water quality Parameters, hard & soft water, hardness of  
water, types of hardness of water, disadvantages of hardness  
estimation of hardness of water by EDTM method, Ion exchange  
method of water softening, Purification of drinking water,  
Chlorination, breakpoint Chlorination and reverse osmosis.

Conclusion:

- 1) Allied Chemistry Contains two Theory Papers  
and one Practical Paper, which will be Conducted  
in the Even Semester.
- 2) The syllabus is the same for all majors Containing  
Allied Chemistry in their ~~curriculum~~ Scheme.
- 3) The members of the Board suggested to have latest  
Edition of Text books & Reference Books.



Dr. N.G.P. ARTS AND SCIENCE COLLEGE, (AUTONOMOUS)  
COIMBATORE - 641048

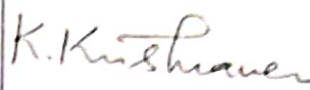


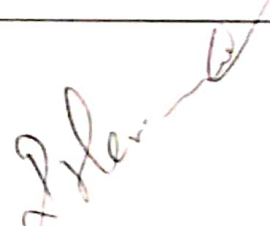
DEPARTMENT OF CHEMISTRY

Minutes of Board of Studies Meeting

Venue: IQAC Hall  
Time: 10.00am

Date: 12/06/15

The following members were present for the meeting.

S. No	Name	Designation	Signature
1.	<b>Mrs. K. KRISHNAVENI</b> Assistant Professor & Head, Department of Chemistry, Dr. N.G.P Arts & Science College, Coimbatore.	Chairman	
2.	<b>Dr. N. DHARMARAJ</b> Professor, Department of Chemistry, Bharathiar University, Coimbatore.	Vice Chancellor Nominee	
3.	<b>Dr. V. SANGEETHA</b> Assistant Professor & Head, Department of Chemistry, Kongunadu Arts & Science College, Coimbatore.	Academic Council Member	
4.	<b>Dr. R. MANIMEKALAI</b> Assistant Professor, Department of Chemistry, Kongunadu Arts & Science College, Coimbatore.	Academic Council Member	
5.	<b>Mrs. V. NIJARUBINI</b> Assistant Professor, Department of Chemistry, Dr. N.G.P Arts & Science College, Coimbatore.	Member	