

DR. N.G.P. ARTS AND SCIENCE COLLEGE, (AUTONOMOUS)
COIMBATORE-641048
DEPARTMENT OF PHYSICS

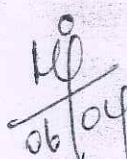


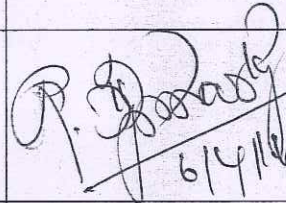
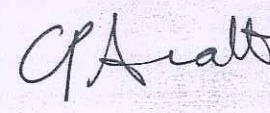
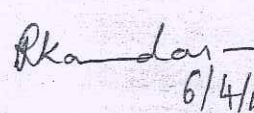
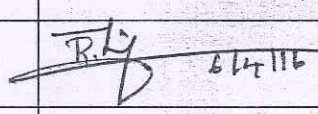
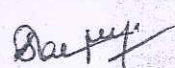
Board of Studies Meeting Minutes – B.Sc. Physics

Venue: Internal Quality Assurance Cell, Dr. N.G.P. Arts And Science College

Date : 06th April 2016

Time : 11.00 AM.

The following members were present for the meeting

S. NO.	NAME & DESIGNATION	Designation	SIGNATURE
1.	Dr. M. Jagadesh Assistant Professor & Head Department of Physics Dr.N.G.P. Arts and Science College, Coimbatore- 641048.	Chairman	 06/04
2	Dr. L. Senthil Kumar Associate Professor Department of Physics Bharathiar University, Coimbatore – 641046	VC Nominee	
3	Dr. V. Ponnuswamy Associate Professor and Head Sri Ramakrishna Mission Vidyalaya College of Arts and Science SRKV Post, Coimbatore – 641020	Academic Council Member	
4	Dr. R. Sathyamoorthy Associate Professor and Head Kongunadu Arts and Science College G.N.Mills, Coimbatore – 641029	Academic Council Member	 6/4/16
5	Mr. Amarnath (Managing Director) Tamilnadu Energy Solutions Pvt. Ltd No.18 VC Mill Road, Annanagar Veerapandi, Coimbatore – 641019	Member Representing Corporate/ Industry	
6	Prof. R. Kandasamy Director – Mathematics Dr.N.G.P. Arts and Science College, Coimbatore 641048.	Co-opted Member	 6/4/16
7	Dr.R.Karunathan Assistant Professor	Member	 6/4/16
8	Ms. A. Saravanapriya Assistant Professor	Member	

Department of Physics Minutes of Board of Studies Meeting

The members of the Board of studies met under the Chairmanship of Dr. M. Jagadesh, Assistant Professor and Head, Department of Physics, on 06.04.16 at 11 AM in the IQAC Hall, Dr.NGP Arts and Science College. The board unanimously resolved and approved the syllabus for the students who join in the academic year **with effect from 2015-16 and onwards.**

- Laboratory experiments:** Core Practical II - Sl.No 10 experiment has been changed (Potentiometer- Low range Ammeter calibration). Core Practical III – Sl.Nos 7, 12 and 14 have been changed (M and H Determination, Power Supply Construction (5V), Field along the axis of a coil – Determination of B_H)
- The Non Major Elective Courses in the Semesters III and IV for students other than Physics offered by the Department of Physics have been revised.

S.No	Subject Code	Name of the Subject
1	15UED34V	Everyday Physics -I
2	15UED44V	Everyday Physics -II

The board unanimously resolved and approved the syllabus for the students who join in the academic year **with effect from 2016-17 and onwards.**

Suggestions carried out in core papers:

- Semester I: Core I - Mechanics, Properties of Matter and Acoustics:** Unit I has been changed with topics **Kinetic Energy and Work:** Work – Kinetic energy - Work – Kinetic energy Theorem – Work done by the gravitational force – work done by the spring force – work done by an applied force – Power. **Potential Energy and Conservation of Energy:** Work and Potential energy – Conservative and Nonconservative forces – Conservation of mechanical energy – Work done on a system by an external force - Conservation of energy.
- Semester II: Core II - Heat and Thermodynamics:** Units III and IV rearranged. In Unit IV Clapeyron Latent Heat Equation. Topic is removed. In Unit V, topics

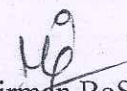
10. Semester VI: Core X - Solid State Physics: In Unit IV Dielectric Loss topic included.

11. In the revised scheme, a student can earn upto FIVE additional credits during his/her course period.

Part	Subject	Credit	Total credits
	BEC/ Self study courses	1	1
	Hindi / French/ Other foreign Language approved by certified Institutions	1	1
	Type Writing / Short Hand Course	1	1
	Diploma/certificate/CPT/ACS Inter/ NPTEL Course	1	1
	Representation – Academic/Sports /Social Activities/ Extra Curricular / Co-Curricular activities at University/ District/ State/ National/ International	1	1
Total			5

12. Two Self study papers for additional credits are introduced from the academic year 2016-17

S.No	Semester	Course Code	Course Title
1.	I Sem to V Sem	16UPYSS1	Electrical and Electronic Appliances
2.		16UPYSS2	Biophysics and Biomedical Instrumentation


Chairman BoS
Head of the Department
Department of Physics
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Helmholtz and Gibb's Functions --Joule - Kelvin effect (theory) are removed.

3. **Semester III: Core III - Optics:** Few topics in Unit I (Circle of Least Action, Dispersion without deviation) are removed. Few topics in Unit II (Fresnel's Biprism and Fabrey-Perot) are removed. In unit III and V additional topics (Double Slit, Narrow slit, NdYAG Laser) are included.
4. **Semester IV: Core IV- Atomic Physics and Spectroscopy:** Few topics in Unit IV and V (Rotating Crystal Method, Quartz Spectrograph for near UV region, Double beam IR Spectrometer) are included.
5. **Semester V: Core V- Classical Mechanics and Mathematical Physics:** Additional topics in Unit III and IV (Vector Analysis, Integral and Differential calculus) are included.
6. **Semester V: Core VI - Electricity and Magnetism:** Few topics in Unit III (Capacitors) are removed.
7. **Semester V: Core VII - Applied Electronics:** Unit I titled to Semiconductor fundamentals and devices.
8. **Semester V: Core VIII - Nuclear Physics:** Additional topics in Unit II (Synchrotron) are included.
9. **Semester VI: Core IX - Quantum Mechanics:** Additional topics in Unit I (Blackbody radiation, Photoelectric effect and Compton Effect) are included. Unit IV has been changed with new topics Schrodinger equation for the hydrogen atom - Separation of variables - Quantum numbers - Principal quantum number - Orbital quantum number - Magnetic quantum number - Electron probability density - Radiative transitions - Selection rules - Zeeman effect - Electron spin - Exclusion principle - Stern-Gerlach experiment.