

Applied Physics

Review of Syllabi – Academic Council Meeting
(2022)

Technical College

Dayalbagh Educational Institute

(Deemed to be University)

Dayalbagh, Agra – 282 005.

Objectives

- To maintain the good conformity with the AICTE Model Curriculum 2019.
- To adopt student centric order of topics of learning, that will help students to easily grasp the principles of physics, systematically.
- To introduce the principles of physics, which can be observed and analyzed in real world scenario.

Objectives

- To introduce modern physics which will enable students to appreciate the state of the art technologies.
- To observe, predict and analyze the way physical objects behave in the real world.
- To gain sufficient hands on experience to manipulate apparatus for fruitful observation of physical principles.

Applied Physics – I [DAS_101]

Existing Course	Proposed Revised Syllabus	Justification
<p>Applied Physics – I (DAS-101)</p> <p>Approved since(2000-01)</p>	<p>From exiting Applied Physics – I <i>Electromagnetism, Electromagnetic Induction; Electrostatics and Thermoelectricity</i> are shifted to Applied Physics – II.</p> <p>The topic <i>Batteries</i> is removed from the syllabus as it is covered at high school level.</p> <p>In, Applied Physics – I, Topics on Units & Measurements; Force, Motion, Work, Power and Energy; Properties of matter are newly introduced. Topics on Optics, Heat and thermometry are shifted to this course form Applied Physics – II.</p>	<p>The proposed revisions are as per the AICTE Model Curriculum 2019.</p>

Applied Physics Laboratory – I [DAS_102]

Existing Course	Proposed Revised Syllabus	Justification
<p>Applied Physics Laboratory – I (DAS-102)</p> <p>Approved since(2000-01)</p>	<p>The laboratory experiments are comprehensively reviewed and revised in accordance with the newly proposed Applied Physics – I to give hands on exposure to the students on diverse physical principles.</p>	<p>Revisions are as per the AICTE model curriculum</p>

Applied Physics – II [DAS_202]

Existing Course	Proposed Revised Syllabus	Justification
<p>Applied Physics – II (DAS-202) <i>Approved since(2000-01)</i></p>	<p><i>Electrostatics, Thermoelectricity, Electromagnetism & Electromagnetic Induction</i> are shifted from Applied Physics – I to Applied Physics - II</p> <p>Wave Motion and its applications; Current electricity; Semiconductor & Modern Physics are newly introduced into Applied Physics – II.</p>	<p>The proposed revisions are as per the AICTE model curriculum 2019.</p>

Applied Physics Laboratory – II [DAS_203]

Existing Course	Proposed Revised Syllabus	Justification
<p>Applied Physics Laboratory – II (DAS-203)</p> <p>Approved since(2000-01)</p>	<p>The laboratory experiments are comprehensively reviewed and revised in accordance with the Applied Physics – II to give hands on exposure to the students on diverse physical principles.</p>	<p>Revisions are as per the AICTE Model Curriculum 2019.</p>

References

- <https://www.aicte-india.org/education/model-syllabus>
- [https://www.google.com/url?esrc=s&q=&rct=j&sa=U&url=https://www.dei.ac.in/files/NAAC/Criterion1/Syllabus%2520for%2520all%2520Programs\(2017-18\)/DCE1718.pdf&ved=2ahUKEwiXkYHHg7H3AhWD4nMBHWydA68QFnoECACQAg&usg=AOvVaw1OXjdXpiORSI3F-eXEveYo](https://www.google.com/url?esrc=s&q=&rct=j&sa=U&url=https://www.dei.ac.in/files/NAAC/Criterion1/Syllabus%2520for%2520all%2520Programs(2017-18)/DCE1718.pdf&ved=2ahUKEwiXkYHHg7H3AhWD4nMBHWydA68QFnoECACQAg&usg=AOvVaw1OXjdXpiORSI3F-eXEveYo)

THANK YOU