

ALAGAPPA UNIVERSITY, KARAİKUDI
NEW SYLLABUS UNDER CBCS PATTERN (w.e.f.2023-24)
B.Sc. PHYSICS - PROGRAMME STRUCTURE

| Sem | Part | Course Code | Courses | Title of the Paper | T/P | Cr. | Hrs./ Week | Max. Marks | | |
|-------|-------|--------------------|---------------------------|--|-----|-----------|------------|------------|------------|------------|
| | | | | | | | | Int. | Ext. | Total |
| I | I | 2311T | T/OL | தமிழ் இலக்கிய வரலாறு I /Other Languages -I | T | 3 | 6 | 25 | 75 | 100 |
| | II | 2312E | E | General English - I | T | 3 | 6 | 25 | 75 | 100 |
| | III | 23BPH1C1 | CC-I | Properties of Matter and Acoustics | T | 5 | 6 | 25 | 75 | 100 |
| | | 23BPH1P1 | CC-II | Practical I Properties of Matter | P | 3 | 3 | 25 | 75 | 100 |
| | | - | Generic Elective (Allied) | Mathematics / Chemistry / Electronics / Computer Science | T | 3 | 3 | 25 | 75 | 100 |
| | IV | 23BPH1S1 | SEC -I | Physics for Everyday Life | T | 2 | 2 | 25 | 75 | 100 |
| | | 23BPH1FC | FC | Introductory Physics | T | 2 | 2 | 25 | 75 | 100 |
| | Total | | | | | | 23 | 30 | 200 | 600 |
| II | I | 2321T | T/OL | தமிழ் இலக்கிய வரலாறு II /Other Languages-II | T | 3 | 6 | 25 | 75 | 100 |
| | II | 2322E | E | General English - II | T | 3 | 6 | 25 | 75 | 100 |
| | III | 23BPH2C1 | CC-III | Heat, Thermodynamics and Statistical Physics | T | 5 | 6 | 25 | 75 | 100 |
| | | 23BPH2P1 | CC-IV | Practical-II Heat, Oscillations, Waves and Sound | P | 3 | 3 | 25 | 75 | 100 |
| | | -- | Generic Elective (Allied) | Mathematics / Chemistry / Electronics / Computer Science | T | 3 | 3 | 25 | 75 | 100 |
| | IV | 23BPH2S1 | SEC -II | AstroPhysics | T | 2 | 2 | 25 | 75 | 100 |
| | | 23BPH2S2 | SEC-III | Physics of Music | T | 2 | 2 | 25 | 75 | 100 |
| | | -- | | Naan Mudhalvan Course | T | 2 | - | 25 | 75 | 100 |
| Total | | | | | | 23 | 30 | 200 | 600 | 800 |
| III | I | 2331T | T/OL | தமிழக வரலாறும் பண்பாடும் / Other Languages-III | T | 3 | 6 | 25 | 75 | 100 |
| | II | 2332E | E | General English – III | T | 3 | 6 | 25 | 75 | 100 |
| | III | 23BPH3C1 | CC-V | Mechanics | T | 5 | 6 | 25 | 75 | 100 |
| | | 23BPH3P1 | CC-VI | Practical-III Electricity | P | 3 | 3 | 25 | 75 | 100 |
| | | -- | Generic Elective (Allied) | Mathematics / Chemistry / Electronics / Computer Science | T | 3 | 3 | 25 | 75 | 100 |
| | IV | 23BPH3S1 | SEC-IV | Entrepreneurship | T | 2 | 2 | 25 | 75 | 100 |
| | | 233AT/ 22BPH3S2 | SEC-V | Adipadai Tamil I/ Home Electrical Installation | T | 2 | 2 | 25 | 75 | 100 |
| | | -- | | Naan Mudhalvan Course | T | 2 | - | 25 | 75 | 100 |
| Total | | | | | | 23 | 30 | 200 | 600 | 800 |
| IV | I | 2341T | T/OL | தமிழும் அறிவியலும் /Other Languages -IV | T | 3 | 6 | 25 | 75 | 100 |
| | II | 2342E | E | General English – IV | T | 3 | 6 | 25 | 75 | 100 |

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|--|-----|--------------------|---------------------------|--|-------|---|-----------|-----------|------------|------------|------------|
| | III | 23BPH4C1 | CC-VII | Optics and Laser Physics | T | 4 | 4 | 25 | 75 | 100 | |
| | | 23BPH4P1 | CC-VIII | Practical – IV Light | P | 3 | 3 | 25 | 75 | 100 | |
| | | -- | Generic Elective (Allied) | Mathematics / Chemistry / Electronics / Computer Science | T | 3 | 3 | 25 | 75 | 100 | |
| | | | | Respective Allied Practical | P | 2 | 2 | 25 | 75 | 100 | |
| | IV | 23BPH4S1 | SEC-VI | Medical Physics | T | 2 | 2 | 25 | 75 | 100 | |
| | | 234AT/ 23BPH4S2 | SEC-VII | Adipadai Tamil 2/ Physics of Medical Instruments | T | 2 | 2 | 25 | 75 | 100 | |
| | | 23BES4 | E.V.S | Environmental Studies | T | 2 | 2 | 25 | 75 | 100 | |
| | | -- | | Naan Mudhalvan Course | T | 2 | - | 25 | 75 | 100 | |
| | | | | | Total | | 24 | 30 | 225 | 675 | 900 |

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| V | III | 23BPH5C1 | CC-IX | Electricity, Magnetism and Electromagnetism | T | 4 | 5 | 25 | 75 | 100 |
| | | 23BPH5C2 | CC-X | Atomic and Nuclear Physics | T | 4 | 5 | 25 | 75 | 100 |
| | | 23BPH5C3 | CC-XI | Analog and Communication Electronics | T | 4 | 4 | 25 | 75 | 100 |
| | | 23BPH5P1 | CC-XII | Practical – V General Physics | P | 4 | 4 | 25 | 75 | 100 |
| | | 23BPH5E1/ 23BPH5E2/ 23BPH5E3 | DSE-I | Communication Systems / Energy Physics / Mathematical Physics | T | 3 | 5 | 25 | 75 | 100 |
| | | 23BPH5E4/ 23BPH5E5/ 23BPH5E6 | DSE-II | Numerical Methods and C Programming / Material Science / Nano Science and Nano Technology | T | 3 | 5 | 25 | 75 | 100 |
| | IV | 23BVE5 | | Value Education | T | 2 | 2 | 25 | 75 | 100 |
| | | 23BPH5I/ 23BPH5IV/ 23BPH5FV | | Internship / Industrial Visit / Field Visit | PR | 2 | - | 25 | 75 | 100 |
| | | -- | | Naan Mudhalvan Course | T | 2 | - | 25 | 75 | 100 |
| | | | | | Total | | 26 | 30 | 200 | 600 |

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|----|-----|------------------------------------|---------|--|----------|------------|-----------|-------------|-------------|-------------|
| VI | III | 23BPH6C1 | CC-XIII | Quantum Mechanics and Relativity | T | 4 | 6 | 25 | 75 | 100 |
| | | 23BPH6C2 | CC-XIV | Solid State Physics | T | 4 | 6 | 25 | 75 | 100 |
| | | 23BPH6P1 | | Practical – VI Electronics | P | 4 | 6 | 25 | 75 | 100 |
| | | 23BPH6E1/ 23BPH6E2/ 23BPH6E3 | DSE-III | Digital Electronics and Microprocessor 8085/ Digital Photography / Medical Instrumentation | T | 3 | 5 | 25 | 75 | 100 |
| | | 23BPH6E4/ 23BPH6E5/ 23BPH6PR | DSE-IV | Advanced Mathematical Physics / Laser and Fiber Optics / Project | T/ PR | 3 | 5 | 25 | 75 | 100 |
| | IV | 23BPH6S1 | | Essential Reasoning and Quantitative Aptitude | T | 2 | 2 | 25 | 75 | 100 |
| | V | 23BEA6 | | Extension Activity | P | 1 | - | 25 | 75 | 100 |
| | | -- | | Naan Mudhalvan Course | | 2 | - | 25 | 75 | 100 |
| | | | | Total | | 21 | 30 | 175 | 525 | 700 |
| | | | | Grand Total | | 140 | -- | 1200 | 3600 | 4800 |

- TOL-Tamil/Other Languages,
- E – English
- CC-Core course
- Generic Elective (Allied)
- SEC-Skill Enhancement Course