Syllabus of Electrical Engineering(BEL) of IOE

First Semester

- Engineering Drawing I [ME 401]
- Engineering Physics [SH 402]
- Applied Mechanics [CE 401]
- Basic Electrical Engineering [EE 401]
- Engineering Mathematics I [SH 401]
- Computer Programming [CT 401]

Second Semester

- Engineering Mathematics II [SH 451]
- Engineering Drawing II [ME 451]
- Basic Electronics Engineering [EX 451]
- Engineering Chemistry [SH 453]
- Fundamental of Thermodynamics & Heat Transfer [ME 452]
- Workshop Technology [ME 453]

Third Semester

- Engineering Mathematics III [SH 501]
- Object Oriented Programming [CT 501]
- Electric Circuit Theory [EE 501]
- Electronics Devices and Circuit [EX 501]
- Digital Logic [EX 502]
- Electrical Engineering Material [EE 502]
- Electromagnetics [EX 503]

Fourth Semester

- Numerical Method [SH 553]
- Applied Mathematics [SH 551]
- Instrumentation I [EE 552]
- Microprocessor [EX 551]
- Power System Analysis I [EE 555]
- Electrical Machines I [EE 550]

Fifth Semester

- Electric Machines - II [EE 601]
- Electric Machine Design [EE 603]
- Power System Analysis II [EE 605]
- Communication English [SH 601]
- Probability and Statistics [SH 602]
- Control System [EE 602]
- Instrumentation II [EX 602]

Sixth Semester

- Engineering Economics [CE 655]
- Hydro Power [CE 660]
- Swichgear & Protection [EE 651]
- Digital Control System [EE 652]
- Industrial Power Distribution & Illumination [EE 653]
- Signal Analysis [EX 651]

Seventh Semester

- Project Engineering [CE 701]
- Technology Environment and Society [CE 708]
- Power Electronics [EE 701]
- Organization and Management [ME 708]
- Utilization of Electrical Energy [EE 702]
- Power Plant Equipment [EE 703]
- Project (Part A) [EE 707]
- Elective I : Energy Electrical System Management
- Elective I : Reliability Engineering
- Elective I : Rural Electrification

Eighth Semester

- Engineering Professional Practice [CE 752]
- High Voltage Engineering [EE 751]
- Power Plant Design [EE 753]
- Transmission and Distribution System Design [EE 754]
- Project (Part B) [EE 755]
- Elective II : Advanced Power System Analysis
- Elective II : Applied Photovoltaic
- Elective III : Artificial Neural Network
- Elective III : Micro-Hydro Power
- Elective III : Wind Energy Conversion System
- Elective II : BIOMEDICAL INSTRUMENTATION