

Colegio de San Juan de Letran Calamba

Brgy. Bucal, City of Calamba, Laguna

BACHELOR OF SCIENCE IN ELECTRICAL ENGINEERING

Modified Curriculum Year 2018-2019 (For Incoming II Yr.)

| COURSE CODE | COURSE TITLE | Lec | Lab | | TOTAL | PRE-REQUISITES/ CO-REQUISITES | |
|-------------------------------------|--|-------------|----------|----------|-----------|----------------------------------|--|
| | | Units/Hours | Units | Hrs | | | |
| FIRST YEAR, First Semester | | | | | | | |
| CHM081L | Chemistry for Engineers Lab | | | 1 | 3 | 1 | co-req CHM083 |
| CHM083 | Chemistry for Engineers | 3 | | | | 3 | co-req CHM081L |
| DRW051L | Computer Aided Drafting | | | 1 | 3 | 1 | |
| GEC003 | Understanding the Self | 3 | | | | 3 | |
| GEC033 | Mathematics in the Modern World | 3 | | | | 3 | |
| GEC053 | Art Appreciation | 3 | | | | 3 | |
| GEC063 | Purposive Communication | 3 | | | | 3 | |
| MATH153A | Calculus 1 | 3 | | | | 3 | |
| NSTP1-18 | National Service Training Program 1 | 3 | | | | 3 | |
| PE002-18 | Physical Fitness & Related Activities | 2 | | | | 2 | |
| RZL023 | Buhay at Mga Akda ni Rizal | 3 | | | | 3 | |
| | Total | 26 | 2 | 6 | 28 | | |
| FIRST YEAR, Second Semester | | | | | | | |
| FIL083 | Komunikasyon sa Akademikong Filipino | 3 | | | | 3 | |
| GEC013 | Science, Technology, and Society | 3 | | | | 3 | |
| GEC023 | Mga Babasahin Hinggil sa Kasaysayan ng Pilipinas | 3 | | | | 3 | |
| LQEC603 | Letran Quality Enrichment Course 60 | 3 | | | | 3 | |
| MATH153B | Calculus 2 | 3 | | | | 3 | MATH153A |
| MATH323 | Engineering Data Analysis | 3 | | | | 3 | MATH153A |
| NSTP2-18 | National Service Training Program 2 | 3 | | | | 3 | NSTP1-18 |
| PE022-18 | Rhythmic Activities | 2 | | | | 2 | PE002-18 |
| PHY083 | Physics for Engineers | 3 | | | | 3 | MATH153A, coreq PHY081L |
| PHY081L | Physics for Engineers Lab | | 1 | 3 | | 1 | MATH153A, co req PHY083 |
| RELED051 | The Catholic Christian Faith | 1 | | | | 1 | |
| | Total | 27 | 1 | 3 | 28 | | |
| SECOND YEAR, First Semester | | | | | | | |
| EE033A | Electrical Circuits I | 3 | | | | 3 | MATH153B, PHY083, PHY081L, co req EE031A-L |
| EE031A-L | Electrical Circuits I Lab | | 1 | 3 | | 1 | MATH153B, PHY083, PHY081L, co-req EE033A |
| ENGG013 | Engineering Mechanics | 3 | | | | 3 | PHY083, PHY081L |
| ENGG072 | Basic Thermodynamics | 2 | | | | 2 | PHY083, PHY081L |
| ENGG092 | Fluid Mechanics | 2 | | | | 2 | PHY083, PHY081L |
| FIL093 | Pagbasa at Pagsulat Tungo sa Pananaliksik | 3 | | | | 3 | FIL083 |
| GEC043 | The Contemporary World | 3 | | | | 3 | |
| GEC073 | Ethics | 3 | | | | 3 | |
| LQEC613 | Letran Quality Enrichment Course 61 | 3 | | | | 3 | LQEC603 |
| MATH223 | Differential Equations | 3 | | | | 3 | MATH153B |
| PE032-18 | Individual/Dual Sports | 2 | | | | 2 | PE002-18 |
| | Total | 27 | 1 | 3 | 28 | | |
| SECOND YEAR, Second Semester | | | | | | | |
| CoENG001L | Computer Fundamentals and Programming Lab | | 1 | 3 | | 1 | GEC013 |
| EE033B | Electrical Circuits II | 3 | | | | 3 | EE033A, EE031A-L, co req EE031B-L |
| EE031B-L | Electrical Circuits II Lab | | 1 | 3 | | 1 | EE033A, EE031A-L, co-req EE033B |
| EE042 | Electromagnetics | 2 | | | | 2 | MATH223, PHY083, PHY081L |
| EE053 | Electronic Circuits: Devices and Analysis | 3 | | | | 3 | EE033A, EE031A-L, co req EE051L |
| EE051L | Electronic Circuits: Devices and Analysis Lab | | 1 | 3 | | 1 | EE033A, EE031A-L, co req EE053 |
| EE192A | EE Laws, Codes, and Professional Ethics | 2 | | | | 2 | GEC073 |
| EE323 | Engineering Mathematics for EE | 3 | | | | 3 | MATH223 |
| ENGG062 | Fundamentals of Deformable Bodies | 2 | | | | 2 | ENGG013 |
| ENGG103 | Engineering Economics | 3 | | | | 3 | GEC033, MATH323 |
| FIL113 | Panitikang Filipino | 3 | | | | 3 | FIL093 |
| RELED063 | Contemporary Issues in Christian Marriage | 3 | | | | 3 | RELED051 |
| PE042-18 | Team Sports | 2 | | | | 2 | PE002-18 |
| | Total | 26 | 3 | 6 | 29 | | |
| SECOND YEAR, Inter-Semester | | | | | | | |
| EE082 | Feedback Control Systems | 2 | | | | 2 | EE053, EE051L, EE323 |
| EE122A | Electrical Machines 1 | 2 | | | | 2 | EE033B, EE031B-L, EE042 |
| ENGG183 | Basic Occupational Safety and Health | 3 | | | | 3 | GEC073 |
| | Total | 7 | | | | 7 | |

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| COURSE CODE | COURSE TITLE | Lec | Lab | | TOTAL | PRE-REQUISITES/ CO-REQUISITES |
|-------------------------------------|---|-------------|-----------|-----------|------------|---|
| | | Units/Hours | Units | Hrs | | |
| THIRD YEAR, First Semester | | | | | | |
| EE103B | Fundamentals of Electronic Communications | 3 | | | 3 | EE053, EE051L |
| EE123B | Electrical Machines 2 | 3 | | | 3 | EE122A, co req EE121B-L |
| EE121B-L | Electrical Machines 2 Lab | | 1 | 3 | 1 | EE122A, co req EE123B |
| EE142 | Logic Circuits and Switching Theory | 2 | | | 2 | EE053, EE051L |
| EE173A | Industrial Electronics | 3 | | | 3 | EE053, EE051L, co req EE171A-L |
| EE171A-L | Industrial Electronics Lab | | 1 | 3 | 1 | EE053, EE051L, co req EE173A |
| EE262A | Electrical Apparatus and Devices | 2 | | | 2 | EE033B, EE031B-L, co req EE261A-L |
| EE261A-L | Electrical Apparatus and Devices Lab | | 1 | 3 | 1 | EE033B, EE031B-L, co req EE262A |
| EE321L | Electrical Standards and Practices Lab | | 1 | 3 | 1 | EE192A |
| EE342 | Management of Engineering Projects | 2 | | | 2 | ENGG103, GEC063 |
| EE381L | Research Method Lab | | 1 | 3 | 1 | EE031B-L |
| ENGG042 | Materials Science and Engineering | 2 | | | 2 | CHM083, CHM081L, ENGG062 |
| MATH302 | Numerical Methods and Analysis | 2 | | | 2 | EE323, co req MATH301L |
| MATH301L | Numerical Methods and Analysis Lab | | 1 | 3 | 1 | EE323, cor eq MATH302 |
| | Total | 19 | 6 | 18 | 25 | |
| THIRD YEAR, Second Semester | | | | | | |
| EE093B | Power System Analysis | 3 | | | 3 | EE321L, co req EE091B-L, EE311L, EE332, EE331L |
| EE091B-L | Power System Analysis Lab | | 1 | 3 | 1 | EE321L, co req EE093B, EE311L, EE332, EE331L |
| EE112B | Instrumentation and Control | 2 | | | 2 | EE082, co req EE111B-L |
| EE111B-L | Instrumentation and Control Lab | | 1 | 3 | 1 | EE082, co req EE112B |
| EE163A | Electrical Systems and Illumination Engineering Design | 3 | | | 3 | EE123B, EE121B-L, co req EE162A-L |
| EE162A-L | Electrical Systems and Illumination Engineering Design Lab | | 2 | 6 | 2 | EE123B, EE121B-L, co req EE163A |
| EE201A-L | Seminars/Colloquia Lab | | 1 | 3 | 1 | EE381L |
| EE311L | Fundamentals of Power Plant Engineering Design Lab | | 1 | 3 | 1 | co req EE093B, EE091B-L |
| EE332 | Distribution Systems and Substation Design | 2 | | | 2 | co req EE093B, EE091B-L, EE331L |
| EE331L | Distribution Systems and Substation Design Lab | | 1 | 3 | 1 | co req EE093B, EE091B-L, EE332 |
| EE-RP-L | Research Project Lab | | 1 | 3 | 1 | EE381L |
| RELED073 | Contemporary Issues About Church and Human Society with Immersion | 3 | | | 3 | RELED051 |
| | Total | 13 | 8 | 24 | 21 | |
| THIRD YEAR, Inter-Semester | | | | | | |
| EE232 | Microprocessor Systems | 2 | | | 2 | EE142 |
| ENGG083 | Environmental Science and Engineering | 3 | | | 3 | |
| ENGG193 | Technopreneurship | 3 | | | 3 | |
| | Total | 8 | | | 8 | |
| FOURTH YEAR, First Semester | | | | | | |
| EE-Elec1 | EE Elective 1 | 3 | | | 3 | EE192A, ENGG062, EE082, EE122A, LQEC603 |
| EE-PRC3 | Practicum (300 hrs) | 3 | | | 3 | EE123B, EE121B-L, EE321L |
| | Total | 6 | | | 6 | |
| FOURTH YEAR, Second Semester | | | | | | |
| EE-Elec2 | EE Elective 2 | 3 | | | 3 | EE-Elec1 co req EE-ST006 |
| EE-ST006 | Special Topics for EE | 6 | | | 6 | EE-Elec1, EE093B, EE091B-L, EE163A, EE162A-L, EE201A-L, EE311L, EE332, EE331L, EE-RP-L, LQEC613 co req EE-Elec2 |
| | Total | 9 | | | 9 | |
| GRAND TOTAL | | 168 | 21 | 63 | 189 | |