

Colegio de San Juan de Letran Calamba

Brgy. Bucal, City of Calamba, Laguna

BACHELOR OF SCIENCE IN ELECTRICAL ENGINEERING

Curriculum Year 2023-2024 (Modified Curriculum, 2nd Year)

| COURSE CODE | COURSE TITLE | Lec Units/Hours | Lab Units | TOTAL Hrs | PRE-REQUISITES/ CO-REQUISITES |
|-------------------------------------|---|--------------------|--------------|--------------|--|
| | | | | | |
| 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 |
| GEC013 | Science, Technology, and Society | | 3 | | 3 |
| GEC063 | Purposive Communication | | 3 | | 3 |
| LQEC23-013 | Letran Quality Enhancement Course I (Letran Calamba Identity and 21st Century Learning Skills) | | 3 | | 3 |
| MATH153A | Calculus 1 | | 3 | | 3 |
| MATH343A | Engineering Mathematics 1 | | 3 | | 3 |
| NSTP1-18 | National Service Training Program 1 | | 3 | | 3 |
| PATHFIT1002 | Movement Competency Training | | 2 | | 2 |
| | | Total | 23 | 2 | 25 |
| FIRST YEAR, Second Semester | | | | | |
| CoENG001L | Computer Fundamentals and Programming Lab | | 1 | 3 | 1 |
| GEC003 | Understanding the Self | | 3 | | 3 |
| GEC033 | Mathematics in the Modern World | | 3 | | 3 |
| MATH153B | Calculus 2 | | 3 | | 3 MATH153A, co-req PHY083, PHY081L |
| MATH323 | Engineering Data Analysis | | 3 | | 3 MATH153A |
| MATH343B | Engineering Mathematics 2 | | 3 | | 3 MATH343A |
| NSTP2-18 | National Service Training Program 2 | | 3 | | 3 NSTP1-18 |
| PATHFIT2022 | Exercise-Based Fitness | | 2 | | 2 PATHFIT1002 |
| PHY081L | Physics for Engineers Lab | | 1 | 3 | 1 MATH153A, co-req MATH153B, PHY083 |
| PHY083 | Physics for Engineers | | 3 | | 3 MATH153A, co-req MATH153B, PHY081L |
| RELED053 | The Catholic Christian Faith | | 3 | | 3 |
| | | Total | 26 | 2 | 28 |
| SECOND YEAR, First Semester | | | | | |
| EE031A-L | Electrical Circuits 1 Lab | | 3 | | 3 MATH153B, PHY083, PHY081L, co-req EE033A |
| EE033A | Electrical Circuits 1 | | 1 | 3 | 1 MATH153B, PHY083, PHY081L, co-req EE031A-L |
| ENGG013 | Engineering Mechanics | | 3 | | 3 PHY083, PHY081L |
| ENGG072 | Basic Thermodynamics | | 2 | | 2 PHY083, PHY081L |
| GEC073 | Ethics | | 3 | | 3 |
| GECELEC1 | Living the IT Era | | 3 | | 3 |
| LQEC23-023 | Letran Quality Enrichment Course II (21st Century Literacy Skills & Life Skills and Sustainability) | | 3 | | 3 LQEC23-013 |
| MATH223 | Differential Equations | | 3 | | 3 MATH153B |
| PATHFIT3032 | Individual/Dual Sports | | 2 | | 2 PATHFIT1002, PATHFIT2022 |
| RELED063 | Contemporary Issues in Christian Marriage | | 3 | | 3 RELED053 |
| | | Total | 25 | 1 | 3 |
| SECOND YEAR, Second Semester | | | | | |
| EE031B-L | Electrical Circuits 2 Lab | | 3 | | 3 EE033A, EE031A-L, co-req E033B |
| EE033B | Electrical Circuits 2 | | 1 | 3 | 1 EE033A, EE031A-L, co-req E031B-L |
| EE042 | Electromagnetics | | 2 | | 2 MATH223, PHY083, PHY081L |
| EE051L | Electronic Circuits; Devices and Analysis Lab | | 1 | 3 | 1 EE033A, EE031A-L, co-req EE051L, EE103B |
| EE053 | Electronic Circuits; Devices and Analysis | | 3 | | 3 EE033A, EE031A-L, co-req EE053, EE103B |
| EE103B | Fundamentals of Electronic Communications | | 3 | | 3 co-req EE053, EE051L |
| ENGG062 | Fundamentals of Deformable Bodies | | 2 | | 2 ENGG013 |
| GEC043 | The Contemporary World | | 3 | | 3 |
| GECELEC2 | The Entrepreneurial Mind | | 3 | | 3 |
| PATHFIT4042 | Contemporary Dance | | 2 | | 2 PATHFIT1002, PATHFIT2022 |
| RELED083 | Christian Ethics | | 3 | | 3 RELED053 |
| | | Total | 24 | 2 | 6 |
| THIRD YEAR, First Semester | | | | | |
| EE122A | Electrical Machines 1 | | 2 | | 2 EE033B, EE031B-L, EE042 |
| EE171A-L | Industrial Electronics Lab | | 1 | 3 | 1 EE053, EE051L, co-req EE173A |
| EE173A | Industrial Electronics | | 3 | | 3 EE053, EE051L, co-req EE171A-L |
| EE261A-L | Electrical Apparatus and Devices Lab | | 1 | 3 | 1 EE033B, EE031B-L, co-req EE262A |
| EE262A | Electrical Apparatus and Devices | | 2 | | 2 EE033B, EE031B-L, co-req EE261A-L |
| EN243 | Logic Circuits and Switching Theory | | 3 | | 3 EE053, EE051L |
| ENGG092 | Fluid Mechanics | | 2 | | 2 PHY083, PHY081L |
| GEC023 | Mga Babasahin Hinggil sa Kasaysayan ng Pilipinas | | 3 | | 3 |
| GECELEC3 | Philippine Popular Culture | | 3 | | 3 |
| EE192A | EE Laws, Codes, and Professional Ethics | | 2 | | 2 GEC073 |
| EE323 | Engineering Mathematics for EE | | 3 | | 3 MATH223 |
| ENGG103 | Engineering Economics | | 3 | | 3 MATH153A |
| | | Total | 26 | 2 | 6 |
| | | | | | 28 |

Colegio de San Juan de Letran Calamba

Brgy. Bucal, City of Calamba, Laguna

BACHELOR OF SCIENCE IN ELECTRICAL ENGINEERING

Curriculum Year 2023-2024 (Modified Curriculum, 2nd Year)

| COURSE CODE | COURSE TITLE | Lec Units/Hours | Lab Units | TOTAL Hrs | PRE-REQUISITES/ CO-REQUISITES |
|-------------------------------------|---|--------------------|--------------|--------------|--|
| | | | | | |
| THIRD YEAR, Second Semester | | | | | |
| EE121B-L | Electrical Machines 2 Lab | | 1 | 3 | EE122A, co-req EE123B |
| EE123B | Electrical Machines 2 | 3 | | 3 | EE122A, co-req EE121B-L |
| EE201A-L | Seminars/Colloquia Lab | | 1 | 3 | co-req EE381L |
| EE381L | Research Method Lab | | 1 | 3 | EE122A, co-req EE201A-L |
| EN253 | Microprocessors | 3 | | 3 | EN243 |
| ENGG193 | Technopreneurship | 3 | | 3 | |
| RELED073 | Contemporary Issues About Church and Human Society with Immersion | 3 | | 3 | RELED053 |
| RZL023 | Buhay at Mga Gawa ni Rizal | 3 | | 3 | |
| EE321L | Electrical Standards and Practices Lab | | 1 | 3 | EE192A |
| EN233 | Feedback and Control Systems | 3 | | 3 | EE053, EE051L, EE323 |
| MATH301L | Numerical Methods and Analysis Lab | | 1 | 3 | EE323, co-req MATH302 |
| MATH302 | Numerical Methods and Analysis | | 2 | | EE323, co-req MATH301L |
| | | Total | 20 | 5 | 15 |
| | | | | | 25 |
| THIRD YEAR, Inter-Semester | | | | | |
| EE111B-L | Instrumentation and Control Lab | | 1 | 3 | EN233, co-req EE112B |
| EE112B | Instrumentation and Control | 2 | | 2 | EN233, co-req EE111B-L |
| ENGG043 | Materials Science and Engineering | 3 | | 3 | CHM083, CHM081L, ENGG062 |
| | | Total | 5 | 1 | 3 |
| | | | | | 6 |
| FOURTH YEAR, First Semester | | | | | |
| EE162A-L | Electrical Systems and Illumination Engineering Design Lab | | 2 | 6 | EE123B, EE121B-L, co-req EE163A |
| EE163A | Electrical Systems and Illumination Engineering Design | 3 | | 3 | EE123B, EE121B-L, co-req EE162A-L |
| EE342 | Management of Engineering Projects | 2 | | 2 | ENGG103 |
| EE-RP-L | Research Project Lab | | 1 | 3 | EE381L |
| ENGG083 | Environmental Science and Engineering | 3 | | 3 | CHM083, CHM081L |
| ENGG183 | Basic Occupational Safety and Health | 3 | | 3 | |
| GEC053 | Art Appreciation | 3 | | 3 | |
| EE091B-L | Power System Analysis Lab | | 1 | 3 | EE321L, co-req EE093B, EE332, EE331L, EE311L |
| EE093B | Power System Analysis | 3 | | 3 | EE321L, co-req EE091B-L, EE332, EE331L, EE311L |
| EE311L | Fundamentals of Power Plant Engineering Design Lab | | 1 | 3 | co-req EE093B, EE091B-L |
| EE331L | Distribution Systems and Substation Design Lab | | 1 | 3 | co-req EE093B, EE091B-L, EE332 |
| EE332 | Distribution Systems and Substation Design | 2 | | 2 | co-req EE093B, EE091B-L, EE331L |
| EE-Elec1 | EE Elective 1 | | 3 | | coreq EE093B, EE091B-L |
| | | Total | 22 | 6 | 18 |
| | | | | | 28 |
| FOURTH YEAR, Second Semester | | | | | |
| EE-PRC3 | Practicum (300 hrs)* | 3 | | 3 | EE163A, EE162A-L |
| EE-ST006 | Special Topics for EE | 6 | | 6 | EE-Elec1 |
| EE-Elec2 | EE Elective 2 | 3 | | 3 | EE-Elec1 |
| | | Total | 12 | 0 | 0 |
| | | | | | 12 |
| GRAND TOTAL | | | | | |
| | | 183 | 21 | 63 | 204 |

*Practicum - No simultaneous enrollment is allowed.

jrd/11242025

Colegio de San Juan de Letran Calamba

Brgy. Bucal, City of Calamba, Laguna

BACHELOR OF SCIENCE IN ELECTRICAL ENGINEERING

Curriculum Year 2023-2024 (Modified Curriculum, 2nd Year)

| COURSE CODE | COURSE TITLE | Lec Units/Hours | Lab Units | Hrs | TOTAL | PRE-REQUISITES/ CO-REQUISITES |
|----------------|--------------|--------------------|--------------|-----|-------|----------------------------------|
|----------------|--------------|--------------------|--------------|-----|-------|----------------------------------|

Colegio de San Juan de Letran Calamba

Brgy. Bucal, City of Calamba, Laguna

BACHELOR OF SCIENCE IN ELECTRICAL ENGINEERING

Curriculum Year 2023-2024 (Modified Curriculum, 2nd Year)

| COURSE CODE | COURSE TITLE | Lec | Lab | TOTAL | PRE-REQUISITES/ CO-REQUISITES |
|----------------|--------------|-------------|-------|-------|----------------------------------|
| | | Units/Hours | Units | Hrs | |
| | | | | | |

Colegio de San Juan de Letran Calamba

Brgy. Bucal, City of Calamba, Laguna

BACHELOR OF SCIENCE IN ELECTRICAL ENGINEERING

Curriculum Year 2023-2024 (Modified Curriculum, 2nd Year)

| COURSE CODE | COURSE TITLE | Lec Units/Hours | Lab Units | Hrs | TOTAL | PRE-REQUISITES/ CO-REQUISITES |
|----------------|--------------|--------------------|--------------|-----|-------|----------------------------------|
|----------------|--------------|--------------------|--------------|-----|-------|----------------------------------|

Colegio de San Juan de Letran Calamba

Brgy. Bucal, City of Calamba, Laguna

BACHELOR OF SCIENCE IN ELECTRICAL ENGINEERING

Curriculum Year 2023-2024 (Modified Curriculum, 2nd Year)

| COURSE CODE | COURSE TITLE | Lec | Lab | TOTAL | PRE-REQUISITES/ CO-REQUISITES |
|----------------|--------------|-------------|-------|-------|----------------------------------|
| | | Units/Hours | Units | Hrs | |
| | | | | | |

Colegio de San Juan de Letran Calamba

Brgy. Bucal, City of Calamba, Laguna

BACHELOR OF SCIENCE IN ELECTRICAL ENGINEERING

Curriculum Year 2023-2024 (Modified Curriculum, 2nd Year)

| COURSE CODE | COURSE TITLE | Lec Units/Hours | Lab Units | Hrs | TOTAL | PRE-REQUISITES/ CO-REQUISITES |
|----------------|--------------|--------------------|--------------|-----|-------|----------------------------------|
|----------------|--------------|--------------------|--------------|-----|-------|----------------------------------|

Colegio de San Juan de Letran Calamba

Brgy. Bucal, City of Calamba, Laguna

BACHELOR OF SCIENCE IN ELECTRICAL ENGINEERING

Curriculum Year 2023-2024 (Modified Curriculum, 2nd Year)

| COURSE CODE | COURSE TITLE | Lec Units/Hours | Lab Units | Hrs | TOTAL | PRE-REQUISITES/ CO-REQUISITES |
|----------------|--------------|--------------------|--------------|-----|-------|----------------------------------|
|----------------|--------------|--------------------|--------------|-----|-------|----------------------------------|

Colegio de San Juan de Letran Calamba

Brgy. Bucal, City of Calamba, Laguna

BACHELOR OF SCIENCE IN ELECTRICAL ENGINEERING

Curriculum Year 2023-2024 (Modified Curriculum, 2nd Year)

| COURSE CODE | COURSE TITLE | Lec | Lab | TOTAL | PRE-REQUISITES/ CO-REQUISITES |
|----------------|--------------|-------------|-------|-------|----------------------------------|
| | | Units/Hours | Units | Hrs | |
| | | | | | |

Colegio de San Juan de Letran Calamba

Brgy. Bucal, City of Calamba, Laguna

BACHELOR OF SCIENCE IN ELECTRICAL ENGINEERING

Curriculum Year 2023-2024 (Modified Curriculum, 2nd Year)

| COURSE CODE | COURSE TITLE | Lec Units/Hours | Lab Units | Hrs | TOTAL | PRE-REQUISITES/ CO-REQUISITES |
|----------------|--------------|--------------------|--------------|-----|-------|----------------------------------|
|----------------|--------------|--------------------|--------------|-----|-------|----------------------------------|

Colegio de San Juan de Letran Calamba

Brgy. Bucal, City of Calamba, Laguna

BACHELOR OF SCIENCE IN ELECTRICAL ENGINEERING

Curriculum Year 2023-2024 (Modified Curriculum, 2nd Year)

| COURSE CODE | COURSE TITLE | Lec | Lab | TOTAL | PRE-REQUISITES/ CO-REQUISITES |
|----------------|--------------|-------------|-------|-------|----------------------------------|
| | | Units/Hours | Units | Hrs | |
| | | | | | |

Colegio de San Juan de Letran Calamba

Brgy. Bucal, City of Calamba, Laguna

BACHELOR OF SCIENCE IN ELECTRICAL ENGINEERING

Curriculum Year 2023-2024 (Modified Curriculum, 2nd Year)

| COURSE CODE | COURSE TITLE | Lec Units/Hours | Lab Units | Hrs | TOTAL | PRE-REQUISITES/ CO-REQUISITES |
|----------------|--------------|--------------------|--------------|-----|-------|----------------------------------|
|----------------|--------------|--------------------|--------------|-----|-------|----------------------------------|

Colegio de San Juan de Letran Calamba

Brgy. Bucal, City of Calamba, Laguna

BACHELOR OF SCIENCE IN ELECTRICAL ENGINEERING

Curriculum Year 2023-2024 (Modified Curriculum, 2nd Year)

| COURSE CODE | COURSE TITLE | Lec | Lab | TOTAL | PRE-REQUISITES/ CO-REQUISITES |
|----------------|--------------|-------------|-------|-------|----------------------------------|
| | | Units/Hours | Units | Hrs | |
| | | | | | |

Colegio de San Juan de Letran Calamba

Brgy. Bucal, City of Calamba, Laguna

BACHELOR OF SCIENCE IN ELECTRICAL ENGINEERING

Curriculum Year 2023-2024 (Modified Curriculum, 2nd Year)

| COURSE CODE | COURSE TITLE | Lec | Lab | TOTAL | PRE-REQUISITES/ CO-REQUISITES |
|----------------|--------------|-------------|-------|-------|----------------------------------|
| | | Units/Hours | Units | Hrs | |
| | | | | | |

Colegio de San Juan de Letran Calamba

Brgy. Bucal, City of Calamba, Laguna

BACHELOR OF SCIENCE IN ELECTRICAL ENGINEERING

Curriculum Year 2023-2024 (Modified Curriculum, 2nd Year)

| COURSE CODE | COURSE TITLE | Lec | Lab | TOTAL | PRE-REQUISITES/ CO-REQUISITES |
|----------------|--------------|-------------|-------|-------|----------------------------------|
| | | Units/Hours | Units | Hrs | |
| | | | | | |