



# INSTITUT TEKNOLOGI NASIONAL

SK Mendikbud: 0180/0/1985 dated April 20, 1985

## ACADEMIC RECORD

Grade  
A = 4,00 Outstanding  
AB = 3,50 Excellent  
B = 3,00 Very Good  
BC = 2,50 Good  
C = 2,00 Fair  
D = 1,00 Below Average  
E = 0 Failed

Student I.D. : 11-2014-086

Name : CHARLY MAULANA KHAFI

Place & date of birth : GARUT, 7 August 1996

Faculty : INDUSTRIAL TECHNOLOGY

Study Program : ELECTRICAL ENGINEERING

Transcript Number : 0511/TA/6.1.11/ITENAS/X/2020

COURSE DESCRIPTION	CREDIT	GRADE
EL--101 MATHEMATICS I	3	C
EL--102 MATHEMATICS II	3	C
EL--103 BASIC PHYSICS I	3	C
EL--104 BASIC PHYSICS II	3	B
EL--105 INDONESIAN	3	B
EL--106 CITIZENSHIP EDUCATION	3	B
EL--107 ENGLISH I	2	B
EL--111 INTRODUCTORY ELECTRICAL ENGINEERING	3	B
EL--112 ELECTRIC CIRCUIT I	3	C
EL--113 DRAWING TECHNIQUES	2	B
EL--114 BASIC COMPUTER AND PROGRAMMING	2	B
EL--116 PROBABILITY AND STATISTICS	2	B
EL--118 ELECTRIC MATERIAL	2	B
EL--202 ENGLISH II	2	B
EL--211 INFORMATION TECHNOLOGY	2	A
EL--212 ENGINEERING MATHEMATICS II	3	B
EL--214 ELECTROMAGNETIC FIELD	3	B
EL--216 ANALOG CIRCUIT	3	C
EL--218 DIGITAL CIRCUIT	3	C
EL--219 BASIC ELECTRONICS	3	B
EL--221 BASIC ELECTRICAL ENERGY	3	B
EL--222 BASIC TELECOMMUNICATION	3	B
EL--223 INTRODUCTION TO AUTOMATION SYSTEM	2	B
EL--311 NUMERICAL ANALYSIS	3	B
EL--312 AC ELECTRICAL MACHINES	4	B
EL--313 TRANSFORMER AND DC ELECTRIC MACHINES	4	B
EL--314 ELECTRIC MOTOR CONTROL	4	A
EL--315 TRANSMISSION AND DISTRIBUTION ELECTRIC	4	B
EL--316 ANALYSIS OF ELECTRIC POWER	4	B
EL--317 HIGH VOLTAGE ENGINEERING	4	B
EL--318 SUBSTATION	2	C
EL--319 POWER ELECTRONICS	4	B
EL--414 CONTROL OF ELECTRICAL EQUIPMENT	3	B
ELA-106 RELIGION	2	B
ELA-108 BASIC OF CIRCUIT ANALYSIS	2	A
ELA-116 ENTREPRENEURSHIP	2	AB
ELA-201 ENGINEERING MATHEMATICS I	3	BC
ELA-204 ELECTRIC CIRCUITS II	3	C
ELA-210 ELECTRICAL MEASUREMENT	3	AB
ELA-303 BASIC CONTROL SYSTEMS	3	B

COURSE DESCRIPTION	CREDIT	GRADE
ELA-305 COMPUTER NETWORKS	3	AB
ELA-330 OVERCURRENT PROTECTION	3	BC
ELA-335 INDUSTRIAL INSTALLATION	2	A
ELA-401 SCIENTIFIC EXPOSITION AND SEMINAR OF PP	3	A
ELA-437 ELECTRICAL ENERGY GENERATION	3	A
ELA-461 RENEWABLE ELECTRIC ENERGY	2	A
ELA-462 ELEKTROMAGNETIC COMPABILITY	2	AB
ELA-465 ELECTRICAL SAFETY	2	A
ELA-479 BROADCASTING SYSTEMS	2	B
ELA-490 INTERNSHIP	2	A
ELA-500 FINAL PROJECT	4	A
ELA-560 CAPITA SELECTA FOR POWER ENGINEERING	2	BC

### Thesis :

DESIGN OF MINIATURE MONITORING SYSTEM  
FOR SOLAR PANEL LOADING USING INTERNET OF THINGS  
THINGSPEAK FASED NETWORK

Graduated on : 5 October 2020

Total Credit : 145 GPA : 3,03

Predicate : Excellent

Dean,

Jono Suhartono, S.T., M.T., Ph.D.



Bandung, 19 October 2020

Rector,

Prof. Meilinda Nurbanasari, S.T., M.T., Ph.D.