DHANALAKSHMI SRINIVASAN ENGINEERING COLLEGE

(AUTONOMOUS)

(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)
Re-Accredited with 'A' Grade by NAAC, Accredited by TCS.
Re-Accredited by NBA (BME, ECE & EEE)
PERAMBALUR - 621 212

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING NEWSLETTER

VOLTZ Reader

Editor-In-Chief: Dr.k.Anbarasan, Dean/ Academic

Editor: Dr.M.Parameswari, Professor & Head/EEE

About the Electrical and Electronics Engineering Programme

The Department of Electrical and Electronics Engineering, Dhanalakshmi Srinivasan Engineering College, Perambalur was established in the year 2001 - 2002 and affiliated to ANNA UNIVERSITY, Chennai. Two Post-Graduate programmes M.E. in Power Electronics and Drives during the academic year 2011-2012 and Embedded System Technologies during the academic year 2012-2013 have been introduced. We have a leading edge teaching facility and state-of-the-art laboratory facilities to enhance the learning experience of the students. The department develops the analytical and practical skills of students to serve better industrial, organizational and research set ups.

We provide individual attention and world class quality of education. We have a team of highly qualified, experienced and dedicated faculty to impart quality education to the students. The Department has been accredited by NBA (National Board of Accreditation). The EEE Department has been organizing many Symposiums, Seminars, Conference, Workshop, Guest lectures and the IEEE Chapter.

Vision and Mission of Electrical and Electronics Engineering

Vision

- To infuse technical competencies of Electrical and Electronics Engineering and provide research ambience with values.

Mission

- To impart quality education and training in Electrical and Electronics Engineering with an overall background suitable for making a successful Engineer in industry and research or higher education.
- To develop life-long learning skills that allows them to be adaptive and responsive to changes in society, technology and the environment, as well as career demands.
- To provide an accredited dynamic scholarly environment wherein students learn to develop communications and leadership abilities to blossom as a professional.
- To ensure that every graduate is aware of the roles and responsibilities of the professional engineer in society through exposure to ethics, equity, safety and health considerations.

PROGRAM EDUCATIONAL OBJECTIVES (PEOs)

PEO 1	Graduates will possess expertise in problem analysis, solving, designing, skills and necessary information for a successful career in the field of Electrical and Electronics Engineering.
PEO 2	Graduates will accomplish practical acquaintance in modern designing tools, technologies and Engineering software in Electrical and Electronics Engineering.
PEO 3	Graduates will be outstanding in communication, teamwork and multidisciplinary approach related to engineering issues in social context.
PEO 4	Graduates will excel in competitive environment towards leadership and life-long learning which is needed for a successful professional career.

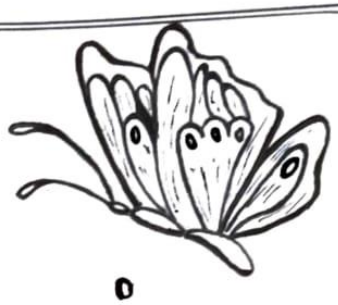
PROGRAM OUTCOMES (POs)

PO	Graduate Attribute
PO1	**Engineering knowledge** - Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
PO2	**Problem analysis** - Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
PO3	**Design/Development of solutions** - Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
PO4	**Conduct investigations of complex problems** - Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions
PO5	**Modern tool usage** - Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.
PO6	**The Engineer and Society** - Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
PO7	**Environment and Sustainability** - Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
PO8	**Ethics** - Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
PO9	**Individual and team work** - Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

PO10	**Communication -** Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
PO11	**Project management and finance -** Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
PO12	**Life-long learning -** Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

PROGRAM SPECIFIC OUTCOMES (PSOs)

PSO 1	**Power Networks** - Assess feasibility, applicability and optimality in power networks.
PSO 2	**System Simulation** - Ability to use software for design, simulation and analysis of electrical systems.
PSO3	**Power Electronics & Drive Systems -** Proficient in Power converters, Drives, Control strategies, and integration with Renewables and Electric vehicles.



உன் எண்ணம்
விண்ணைத் தொட
வேண்டுமென்றால்
உன் வியர்வை
மண்ணைத் தொட
வேண்டும்

S. Hemavarshini
III - EEE ("A")

வாழ்க்கை தத்துவம்

முயற்சிக்கும் பயிற்சிக்கும்
மத்தியில் சாதனை
என்பது கடினமான
ஒன்று அல்ல ....

R. Harisudhan
III - EEE (A)

The moral of "The Last Circuit" is "Innovation comes from persistence, but true breakthroughs happen when we embrace the unexpected."

Lena's journey shows that failure isn't the end - it's often the beginning of something greater. Her invention not only survived but also hinted at possibilities beyond her imagination, proving that discovery often comes from the most unforeseen moments.

J. Monisha
III - EEE - A

Our greatest weakness
lies in giving up.
The most certain way to
succeed is always to try
just one more time

LAKSHMANAN D
EEE - III[rd] YEAR

A Thousand Versions of You

You have shed
a thousand skins
to become the person
you are today.

And if you ever feel
overwhelmed
by the many people
you once were,
remember,
your bones have grown,
but what makes them
has never changed.

ABIRAMI·S

~ "EEE"

இதற்காக இடிவதா ?

ஒருநாள்
வாழ்ந்து மடியும்
ஈசலே
உற்சாகமாக
இருக்கும் போது

இதற்கெல்லாம்
இடிந்து விட்டால்
எப்படி ?

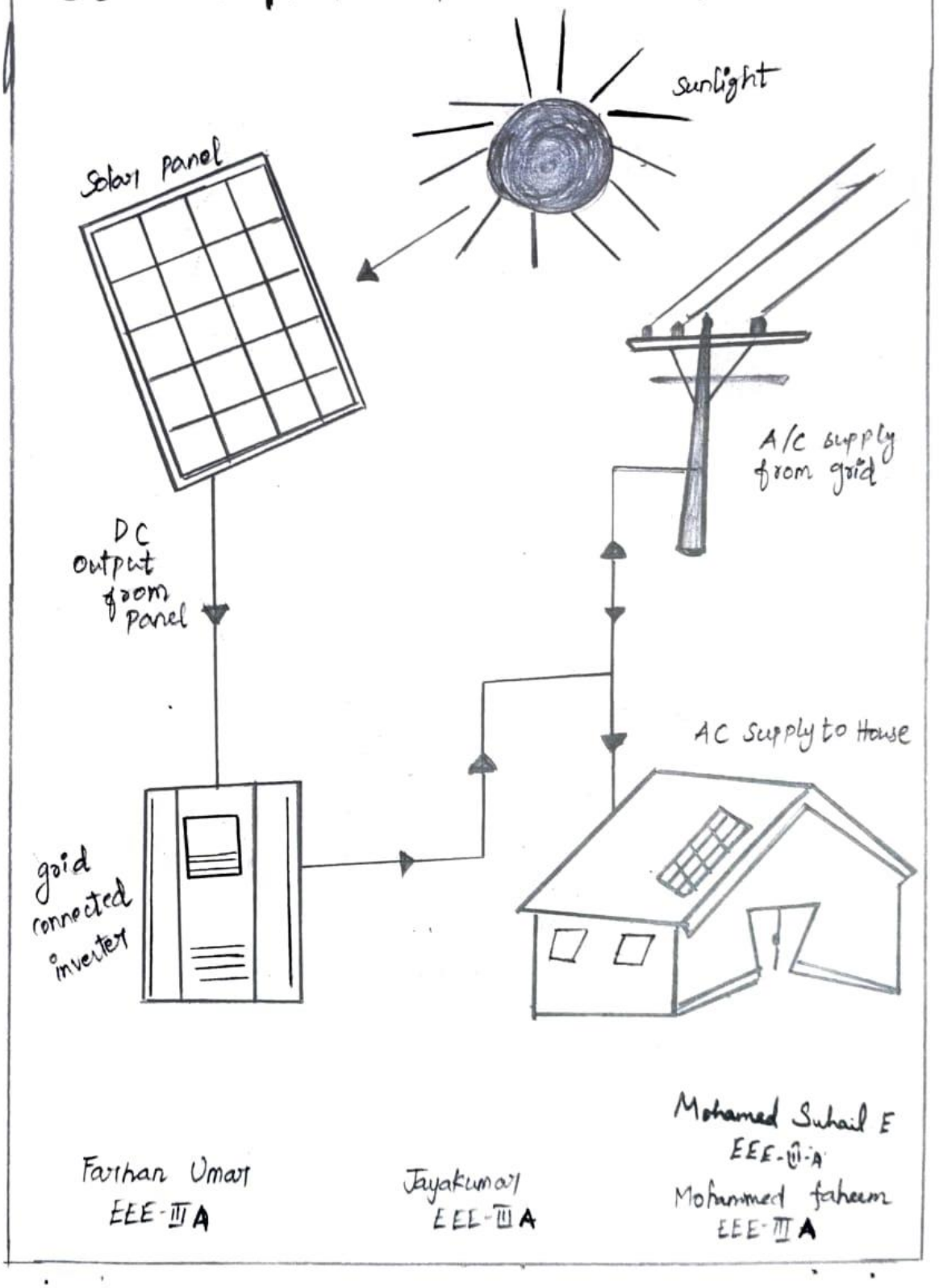
அடுத்தென்ன
அடித்ததாய் என்ன
என்று
நகர்ந்துகொண்டே
இருங்கள்

நழுவியது
வாய்ப்பு தானே
தவிர
வாழ்க்கையல்ல.

INDIRA DEVI.S

-"EEE"

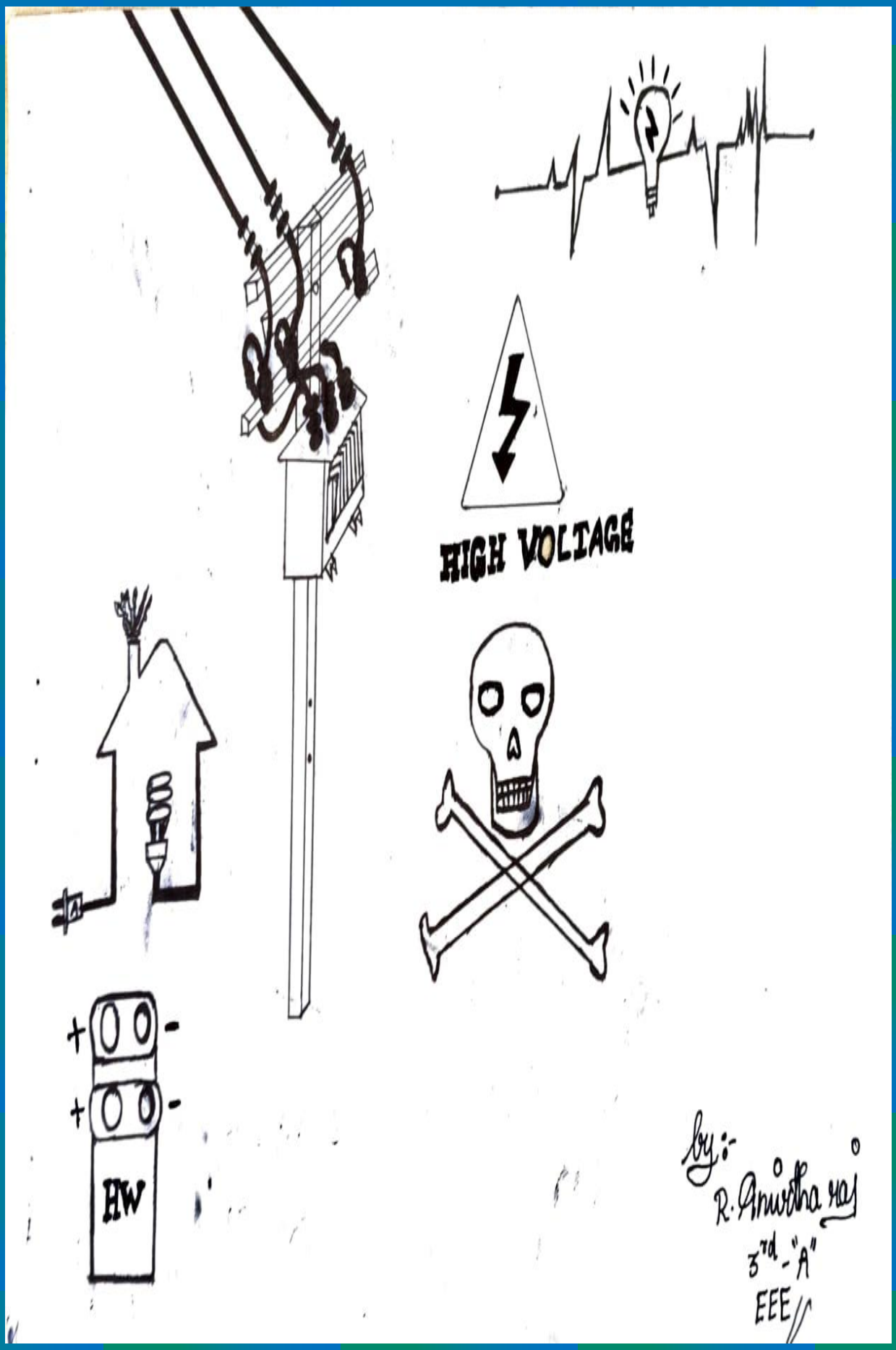
SOLAR PHOTOVOLTAIC GRID SYSTEM

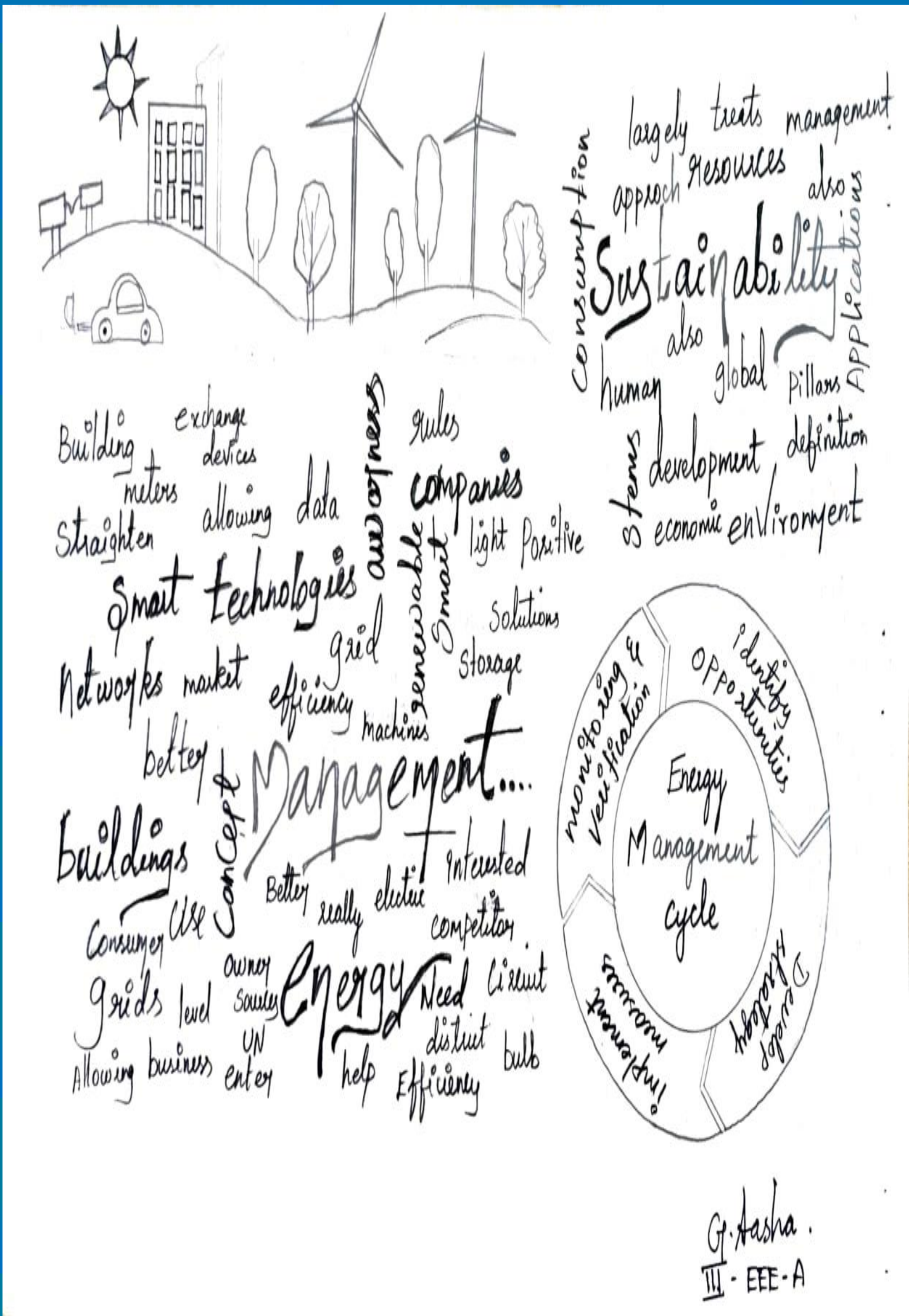


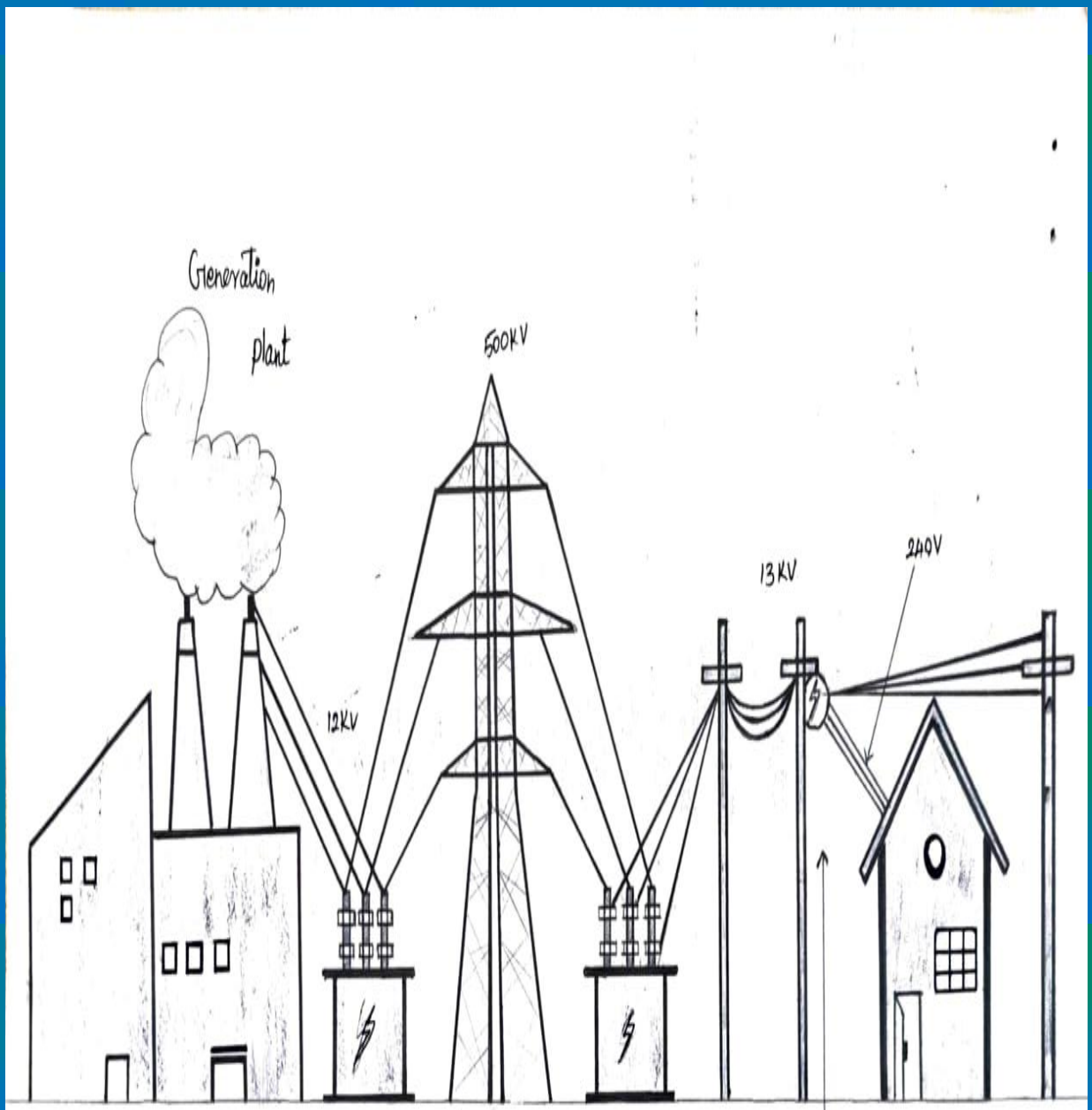
Farhan Umar
EEE-III A

Jayakumar
EEE-III A

Mohamed Suhail E
EEE-III-A
Mohammed faheem
EEE-III A


HIGH VOLTAGE
+
-
+
-
HW
by:-
R. Anuradha raj
3rd - "A"
EEE

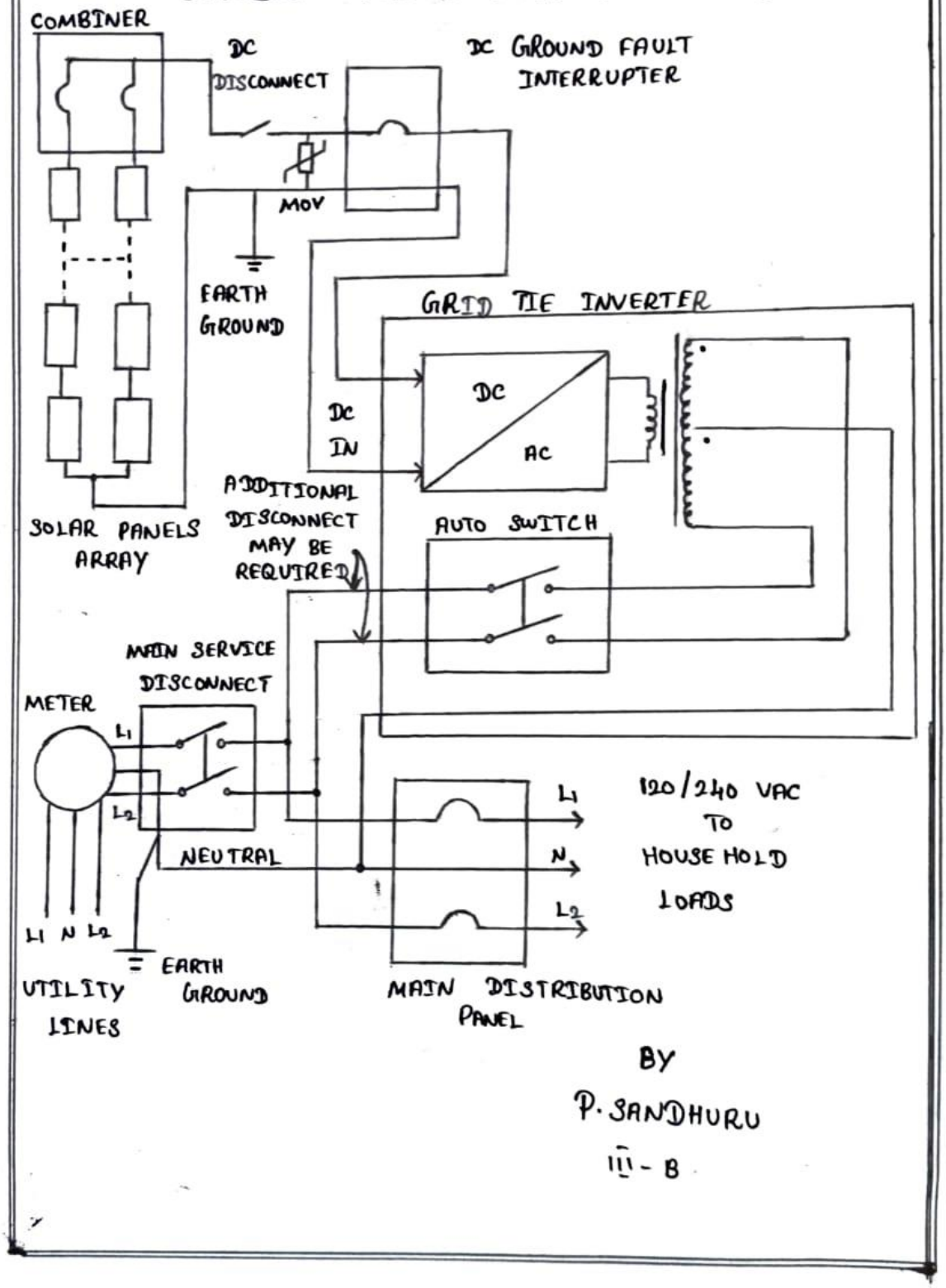

largely treats management
approch resources also
Consumption
Sustainability
Applications
also
human global Pillars
Stems development definition
economic environment
Building exchange devices
meters allowing data
Straighten
awareness rules
companies
renewable Smart
light Positive
Smart technologies
Solutions
grid Storage
Networks market efficiency
machines
better
Management....
Concept
buildings
Interested
Better really electric
competitor
Consumer use
owner
Energy
Need Circuit
grids level Sources
distinct
UN
Allowing business enter help Efficiency bulb
Energy Management cycle
identify Opportunities
Develop Strategy
Implement measures
monitoring & verification
G. Aasha.
III - EEE - A



Art by

By :-
S. Kannan
3rd - "A"
EEE

GRID TIE SOLAR POWER SYSTEM

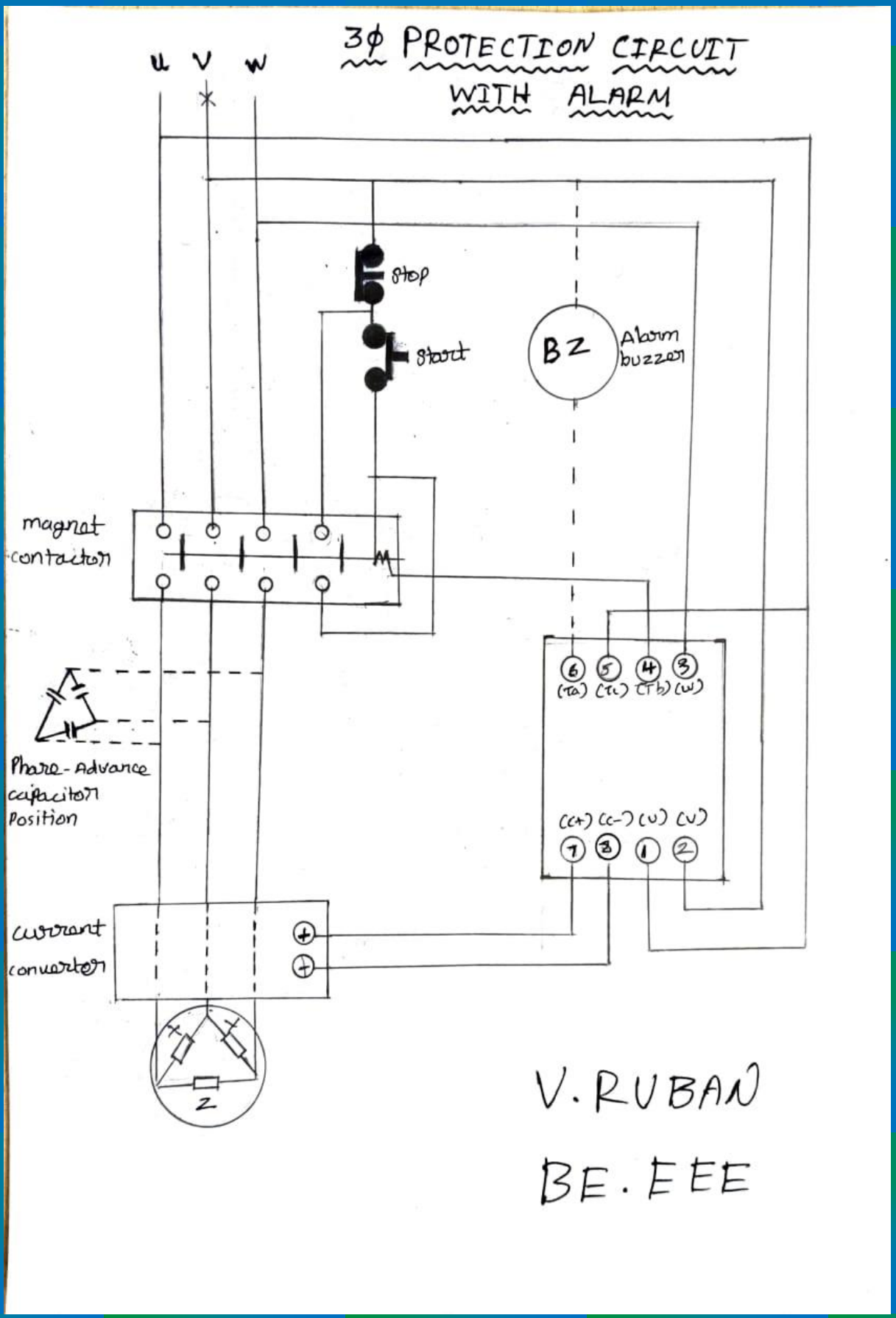


BY

P. SANDHURU

III - B

3ϕ PROTECTION CIRCUIT WITH ALARM

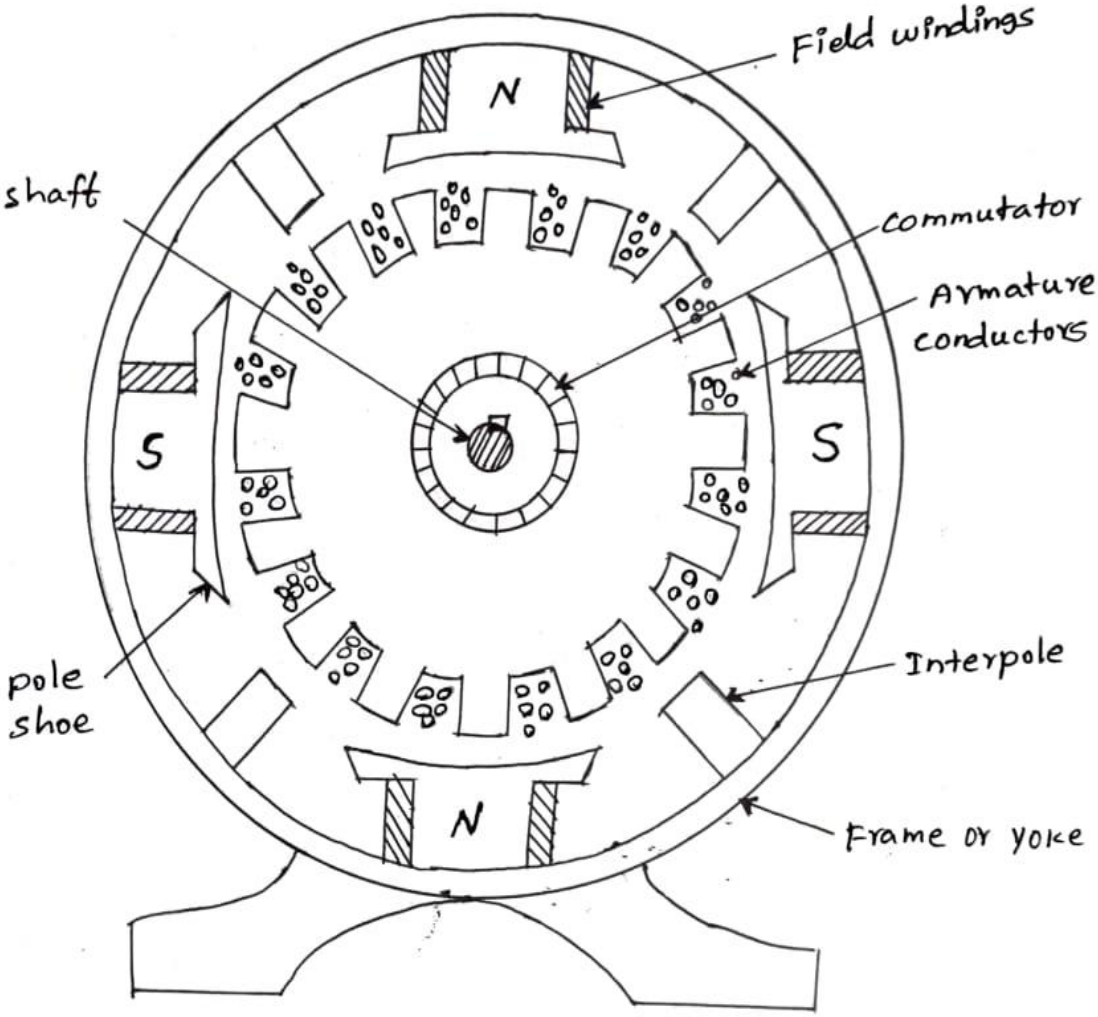


V. RUBAN

BE. EEE

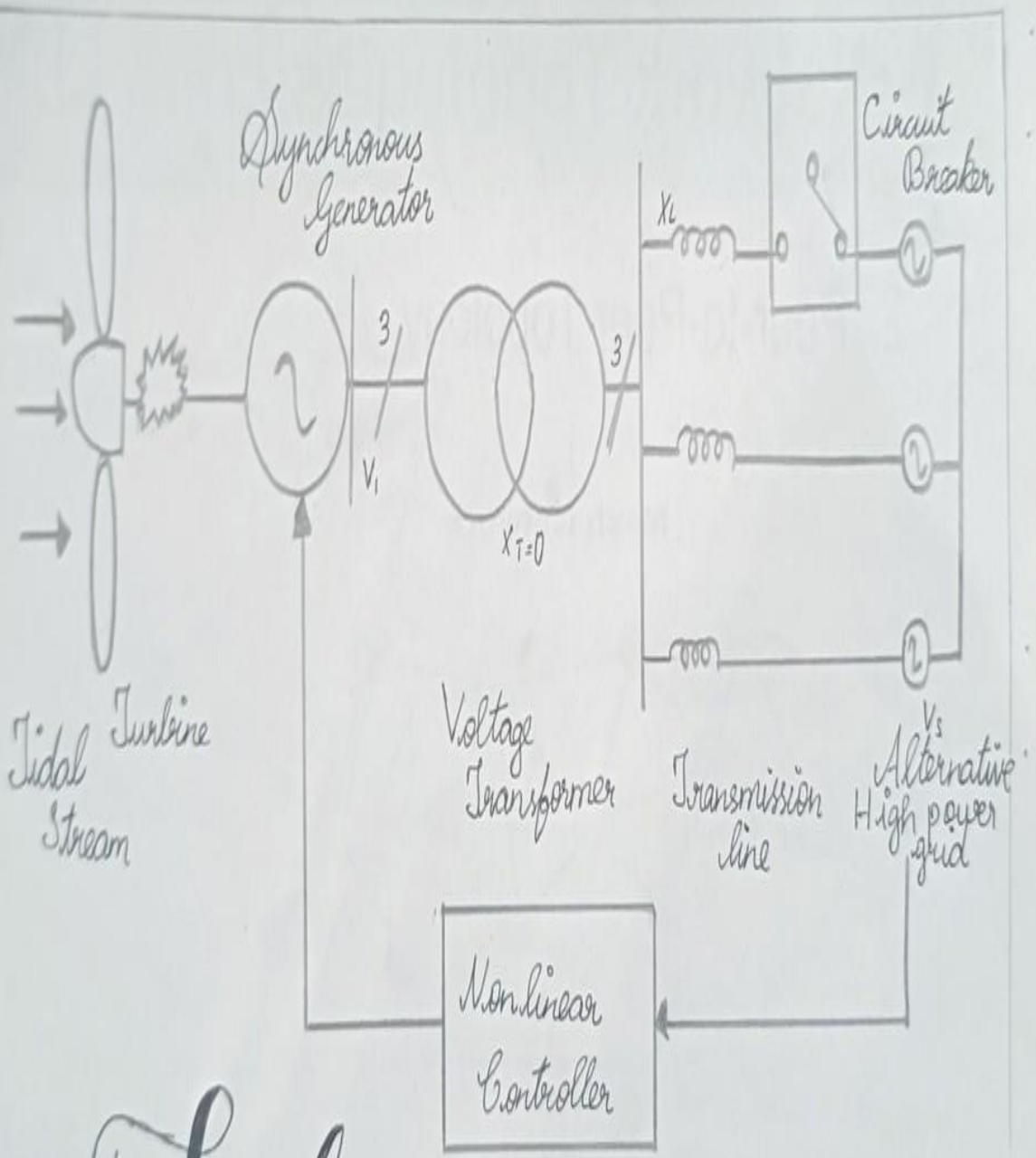

Art By
G.TAMIZHARASAN.
BE. EEE. III year.

DC GENERATOR



S.YUGENDIRAN

BE.EEE



Tidal Power System

Mohamed Suhail. E
EEE-III-'A'