

**PRODUCT DESIGN AND MANUFACTURING – CIRCUIT ANALYSIS,
DRAWING FUNDAMENTALS, PCB DESIGNING, ASSEMBLING AND
TROUBLE SHOOTING**

Internship Report

Submitted To

**KONGUNADU ARTS AND SCIENCE COLLEGE
(AUTONOMOUS)**

Affiliated to BHARATHIAR UNIVERSITY, Coimbatore.

In partial fulfilment of the requirements for the award of the degree of

BACHELOR OF SCIENCE IN PHYSICS

Submitted by

RATHISHA SHREE. T (231PH001)

Under the guidance of

Dr. B. GOKUL, M.SC., M.PHIL., Ph.D.,

Assistant Professor

DEPARTMENT OF PHYSICS

(DBT STAR DEPARTMENT)

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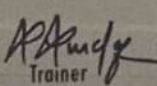
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BACHELOR OF SCIENCE IN PHYSICS

Submitted by

SUVETHA.S (231PH003)

Under the guidance of

Dr. B. GOKUL, M.SC., M.PHIL., Ph.D.,

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DEPARTMENT OF PHYSICS

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BACHELOR OF SCIENCE IN PHYSICS

Submitted by

VIJAYALAKSHMI.V(231PH004)

Under the guidance of

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BACHELOR OF SCIENCE IN PHYSICS

Submitted by

BOOMIKA.N(231PH005)

Under the guidance of

Dr.S.SELVI M.SC., B.Ed.,Ph.D.,

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**DESIGN AND TROUBLESHOOTING EXPLORATION IN
ELECTRONICS**

Internship Report

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BACHELOR OF SCIENCE IN PHYSICS

Submitted by

HARIPRASATH K (231PH006)

Under the guidance of

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(DBT STAR DEPARTMENT)

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Internship on Design and Troubleshooting Exploration in Electronics

5 - 18 May, 2025

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Centre for Advanced Medical Physics (CAMP)
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Chennai, India

Certificate of Completion

This is to certify that

Mr. HARIPRASATH, II B.Sc. Physics, Kongu Arts and Science College, Erode
has successfully completed the Internship and presented a paper entitled

" and obtained 90/100 marks in the Internship on
Design and Troubleshooting Exploration in Electronics conducted during 5th May - 18th May, 2025
at Centre for Advanced Medical Physics, CAMP - SPIHER, Avadi, Chennai.

Dr. S. Gunasekaran
Dean (R&D), SPIHER
Convenor, Internship 2025

PRODUCT DESIGN AND MANUFACTURING

Internship Report

Submitted To

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In partial fulfilment of the requirements for the award of the degree of

BACHELOR OF SCIENCE IN PHYSICS

Submitted by

SANKARIS(231PH009)

Under the guidance of

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Assistant Professor

DEPARTMENT OF PHYSICS

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Internship Report

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In partial fulfilment of the requirements for the award of the degree of

BACHELOR OF SCIENCE IN PHYSICS

Submitted by

Sumeth S.S (231PH010)

Under the guidance of

Dr.N.Senthilkumar, M.Sc., M.phil., Ph.D.,

Assistant Professor

DEPARTMENT OF PHYSICS

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Chennai, India

Certificate of Completion

This is to certify that

Mr. SUMETH. S. S. J. B.S. Physics, Konguadu Arts and Science College, Erodkattur
has successfully completed the Internship and presented a paper entitled

_____ " and obtained 90/100 marks in the Internship on
Design and Troubleshooting Exploration in Electronics conducted during 5th May - 18th May, 2025
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Dr. S. Gunasekaran
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BACHELOR OF SCIENCE IN PHYSICS

Submitted by

SUGESH. S (231PH011)

Under the guidance of

Dr. N. SENTHIL KUMAR, MSc., M Phil., Ph.D.

Assistant Professor



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BACHELOR OF SCIENCE IN PHYSICS

Submitted by

DHANESH. S (231PH012)

Under the guidance of

Dr. N. SENTHIL KUMAR, MSc., M Phil., Ph.D.

Assistant Professor



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Affiliated to **BHARATHIAR UNIVERSITY, COIMBATORE** in partial fulfillment
of the requirements of the Award of the degree of

BACHELOR OF SCIENCE IN PHYSICS

Submitted by

PRANESWARAN R (231PH013)

Under the guidance of

Dr. A. RANJITHA M.Sc., Ph. D.

(ASSISTANT PROFESSOR)

DEPARTMENT OF PHYSICS

(DBT STAR DEPARTMENT)

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5 - 18 May, 2025

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AVADI, Chennai - 600 054, Tamil Nadu, India

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Chennai, India

Certificate of Completion

This is to certify that

Mr. PRANESWARAN.R. II B.Sc. Physics, Kongunadu Arts and Science College, Coimbatore
has successfully completed the Internship and presented a paper entitled

" Construction and Working principle of Bipolar Junction Transistor "

Design and Troubleshooting Exploration in Electronics conducted during 5th May - 18th May, 2025
at Centre for Advanced Medical Physics, CAMP - SPIHER, Avadi, Chennai.

Dr. S. Gunasekaran
Dean (R&D), SPIHER
Convenor, Internship 2025

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Submitted by

SARAVANAN.M(231PH014)

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DEPARTMENT OF PHYSICS

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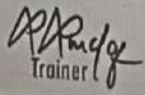
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of the requirements of the Award of the degree of

BACHELOR OF SCIENCE IN PHYSICS

Submitted by

JENICE A (231PH015)

Under the guidance of

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(ASSISTANT PROFESSOR)

DEPARTMENT OF PHYSICS

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Chennai, India

Certificate of Completion

This is to certify that

Ms. JENICE A, II B.Sc. Physics, Kongunadu Arts and Science College, Coimbatore
has successfully completed the Internship and presented a paper entitled

"CONSTRUCTION AND WORKING PRINCIPLE OF JUNCTION TRANSISTOR"

" and obtained 92/100 marks in the Internship on
Design and Troubleshooting Exploration in Electronics conducted during 5th May - 18th May, 2025
at Centre for Advanced Medical Physics, CAMP - SPIHER, Avadi, Chennai.

Dr. S. Gunasekaran
Dean (R&D), SPIHER
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BACHELOR OF SCIENCE IN PHYSICS

**Submitted by
SIVARANJAN L (231PH016)**

Under the guidance of

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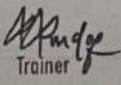
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BACHELOR OF SCIENCE IN PHYSICS

Submitted by

POOJASRI.N (231PH017)

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Internship Report
Submitted To

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(AUTONOMOUS)**

Affiliated to BHARATHIAR UNIVERSITY, Coimbatore.
In partial fulfilment of the requirements for the award of the degree of

BACHELOR OF SCIENCE IN PHYSICS

Submitted by
PRAVEEN.F (231PH018)

Under the guidance of

Dr. M.MOHAMED IBRAHIM , M.Sc., Ph.D.,

Assistant Professor

DEPARTMENT OF PHYSICS

(DBT STAR DEPARTMENT)

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BACHELOR OF SCIENCE IN PHYSICS

Submitted by

ANISH DEV D.S (231PH019)

Under the guidance of

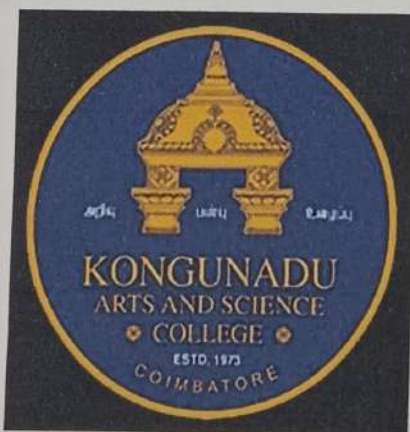
Dr.P.MATHESWARAN,M.sc,Ph.d.

Assistant Professor

DEPARTMENT OF PHYSICS

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BACHELOR OF SCIENCE IN PHYSICS

Submitted by

SHARMILA. V (231PH020)

Under the guidance of

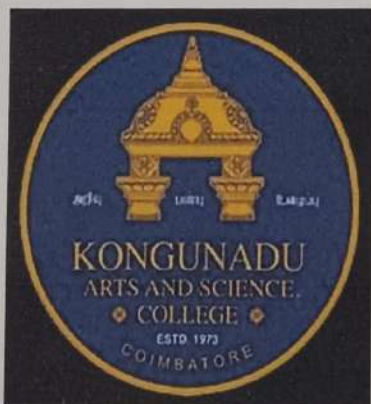
P.Matheswaran, M.SC.,Ph.D.,

Assistant Professor

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INTERNSHIP COMPLETION CERTIFICATE

Based on the Internship Certificate issued from Sunshiv Electronic Solutions on PRODUCT DESIGN AND MANUFACTURING - CIRCUIT ANALYSIS, DRAWING FUNDAMENTALS, PCB DRAWING, ASSEMBLING AND TROUBLE SHOOTING, submitted by the candidate SHARMILA V(231PH020), she is eligible to submit the internship report as a part of fulfillment of the requirements for the award of the Degree of Bachelor of Science in Physics, Kongunadu Arts and Science College (Autonomous).



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Affiliated to BHARATHIAR UNIVERSITY, Coimbatore.

In partial fulfilment of the requirements for the award of the degree of

BACHELOR OF SCIENCE IN PHYSICS

Submitted by

Gayathri.s (231PH021)

Under the guidance of

P.Matheswaran, M.SC., Ph.D.,

Assistant Professor

DEPARTMENT OF PHYSICS

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In partial fulfillment of the requirements for the Award of the degree of

BACHELOR OF SCIENCE IN PHYSICS

Submitted by

SRINIVASAN B (231PH022)

Under the guidance of

Dr. M. SEETHA M.sc., Ph.D., M.A., HDIP.

Assistant Professor



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In partial fulfilment of the requirements for the award of the degree of

BACHELOR OF SCIENCE IN PHYSICS

Submitted by

PRIYADHARSHINI.R

(231PH023)

Under the guidance of

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DEPARTMENT OF PHYSICS (DBT STAR DEPARTMENT)

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BACHELOR OF SCIENCE IN PHYSICS

Submitted by

MAGESH K (231PH024)

Under the guidance of

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Associate Professor

DEPARTMENT OF PHYSICS

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In partial fulfilment of the requirements for the award of the degree of

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Submitted by

R. PRITHA (231PH025)

Under the guidance of

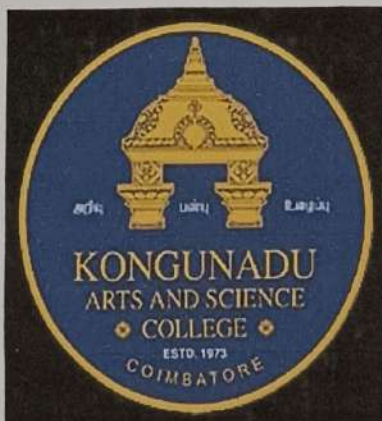
Dr. K. SARAVANAKUMAR, M.SC., Ph.D.,

Associate Professor

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JULY-2025



Internship on Design and Troubleshooting Exploration in Electronics

5 - 18 May, 2025

Organised by

Centre for Advanced Medical Physics (CAMP)

St. Peter's Institute of Higher Education & Research

AVADI, Chennai - 600 054, Tamil Nadu, India

In collaboration with

Indian SpectroPhysics Association (ISPA)

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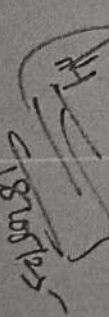
Ms. RAITHA.R, II B.Sc. Physics, Arignam Anna and Gnanapriya College, Enimbatan

has successfully completed the Internship and presented a paper entitled

"Construction and working Principle of Zener Diode"

and obtained 92/100 marks in the Internship on

Design and Troubleshooting Exploration in Electronics conducted during 5th May - 18th May, 2025
at Centre for Advanced Medical Physics, CAMP - SPIHER, Avadi, Chennai.


Dr. S. Gunasekaran
Dean (R&D), SPIHER
Convenor, Internship 2025

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Submitted by
SURYA RAJ S (231PH026)

Under the guidance of

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DEPARTMENT OF PHYSICS

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Submitted by

SIVAPRANESH S (231PH027)

Under the guidance of

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Associate Professor

DEPARTMENT OF PHYSICS

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