



ST. JOSEPH'S DEGREE COLLEGE

SUNKESULA ROAD, KURNOOL - 518004



ELECTRONICS INDIA
Billion Needs Million Chip

PRACTICAL EXPOSURE TO PHYSICS AND ELECTRONICS-"AURDINO UNO BOARD"

"ATAL School Linkage with Institution's Innovation Council, Higher Education Institution Program".

Andhra Pradesh Social Welfare Residential School & Junior College

[DR.B.R. Ambedkar Gurukulam]

Date: 23/08/2025

Time: 11:00AM to 5:00PM

ORGANIZED BY :

**ENTREPRENUERSHIP
DEVOLOPMENT CELL IN
COLLABARATION WITH
INSTITUTIONS'S
INNOVATION COUNCIL
AND ELECTRONICS
DEPARTMENT**



St. JOSEPH'S DEGREE COLLEGE

Sunkesala Road, Kurnool – 518 004. A.P.

(Affiliated to Rayalaseema University, Kurnool)

Email id: sjcknl@yahoo.com; website: sjcknl@edu.in; Phone: 08518 226268



MHRD'S
INNOVATION CELL
(GOVERNMENT OF INDIA)



INSTITUTION'S
INNOVATION
COUNCIL
(Ministry of HRD, GOVERNMENT OF INDIA)

22.08.2025

To

The Principal,
Andhra Pradesh Social Welfare Residential School & Junior College
(DR.B.R. Ambedkar Gurukulam)
Kurnool.

Respected Sir/Madam

Greetings of the day, at the outset we thank for your positive response on the phone call, towards "ATAL School Linkage with Institution's Innovation Council, Higher Education Institutions Program". We intend to organise an **Practical exposure to Physics and Electronics-"Arduino-UNO-Board"** in the Atal Tinkering Lab at your school on 23.08.2025. We strongly feel that this program would leave an impact in the areas of Entrepreneurship and Innovation in the young minds and it would be of great help in developing a sustainable ecosystem. We are looking forward for a similar program in the following academic year leading to a symbiotic growth.

Thanking you

Sachin

Principal
St. Joseph's Degree College
Sunkesala Road, KURNOOL

With regards

R. Prasad

R. Prasad

Convener

Institution's Innovation Council
St Joseph's Degree College
Kurnool

St. JOSEPH'S DEGREE COLLEGE

Sunkesala Road, Kurnool – 518 004. A.P.

(Affiliated to Rayalaseema University, Kurnool)

Email id: sjcknl@yahoo.com; website: sjcknl@redy.in; Phone: 08518 226268



22.08.2025

To

The Principal,
Andhra Pradesh Social Welfare Residential School & Junior College
(DR.B.R. Ambedkar Gurukulam)
Kurnool.

Respected Sir/Madam

Greetings of the day, at the outset we thank for your positive response on the phone call, towards "ATAL School Linkage with Institution's Innovation Council, Higher Education Institutions Program". We intend to organise an **Practical exposure to Physics and Electronics-"Arduino-UNO-Board"** in the Atal Tinkering Lab at your school on 23.08.2025. We strongly feel that this program would leave an impact in the areas of Entrepreneurship and Innovation in the young minds and it would be of great help in developing a sustainable ecosystem. We are looking forward for a similar program in the following academic year leading to a symbiotic growth.

Thanking you

With regards

R. Prasad

Convener

Institution's Innovation Council
St Joseph's Degree College
Kurnool

Principal

St. Joseph's Degree College
Sunkesala Road, KURNOOL

Principal

Dr. B.R. Ambedkar Gurukulam (Girls)
Dinnedavarapadu-518 007
Kurnool District. (A.P.)



ST. JOSEPH'S DEGREE COLLEGE

SUNKESULA ROAD, KURNOOL - 518004

(Affiliated to Rayalaseema University, Kurnool)

Email-id: sjcknl@yahoo.com; Website: sjcknl@edu.in; Phone: 08518226268



PRACTICAL EXPOSURE TO PHYSICS AND ELECTRONICS - “ARDUINO UNO BOARD”

Program Report:

The Institution's Innovation Council in collaboration with the ED Cell organized an exceptional hands-on workshop on **“Alcohol based engine on/off control system using Arduino Uno Board”** at **Dr. Ambedkar Gurukul School, Dinnedavarapadu, Kurnool District**. With 05 EDC students and 50 enthusiastic school children participating, the program successfully bridged theoretical concepts with practical applications in automotive safety and embedded systems. The EDC students brought comprehensive teaching aids including circuit diagrams, sensor modules, and working Arduino prototypes to demonstrate real-time alcohol detection and engine control technologies. The school children participated with remarkable curiosity, observing how various sensors measure alcohol levels and automatically control engine operations, and were genuinely amazed by the integration of electronics with automotive safety applications. This transformative workshop effectively inspired young minds to explore the exciting field of technology.

Date: 23/08/2025

Time: 11:00AM - 5:00PM

Students participated: 05

School Children's participated: 50

Faculty attended: Mr. B.T. SUBASHCHANDRA NAIDU,
Dr. V. SURESH BABU

Program Objectives:

- 1.To provide practical understanding of alcohol detection systems and Arduino-based embedded programming for automotive safety applications.
- 2.To encourage innovative thinking and problem-solving skills through automotive safety technology experiments.
- 3.To develop interest in automotive technology by linking theoretical concepts with real-world vehicle safety applications.

Program Outcomes:

- 1.Applied theoretical knowledge of sensors and microcontrollers to solve automotive safety and drunk driving prevention challenges.
- 2.Promoted creativity and innovation by engaging in alcohol detection and engine control system projects.
- 3.Students gained confidence in handling Arduino boards, alcohol sensors, and automotive safety monitoring equipment.
- 4.Developed teamwork and analytical skills through collaborative automotive technology demonstrations.



B. Thandrapadu, Andhra Pradesh, India
Q372+gix, B. Thandrapadu, Andhra Pradesh 518007, India
Lat 15.764032° Long 78.052592°
23/08/2025 03:30 PM GMT +05:30



B. Thandrapadu, Andhra Pradesh, India
Q373+mf, B. Thandrapadu, Andhra Pradesh 518007, India
Lat 15.763833° Long 78.052795°
23/08/2025 02:59 PM GMT +05:30



GPS Map Camera



Google

B. Thandrapadu, Andhra Pradesh, India
Q372+gix, B. Thandrapadu, Andhra Pradesh 518007, India
Lat 15.763963° Long 78.052591°
23/08/2025 03:05 PM GMT +05:30



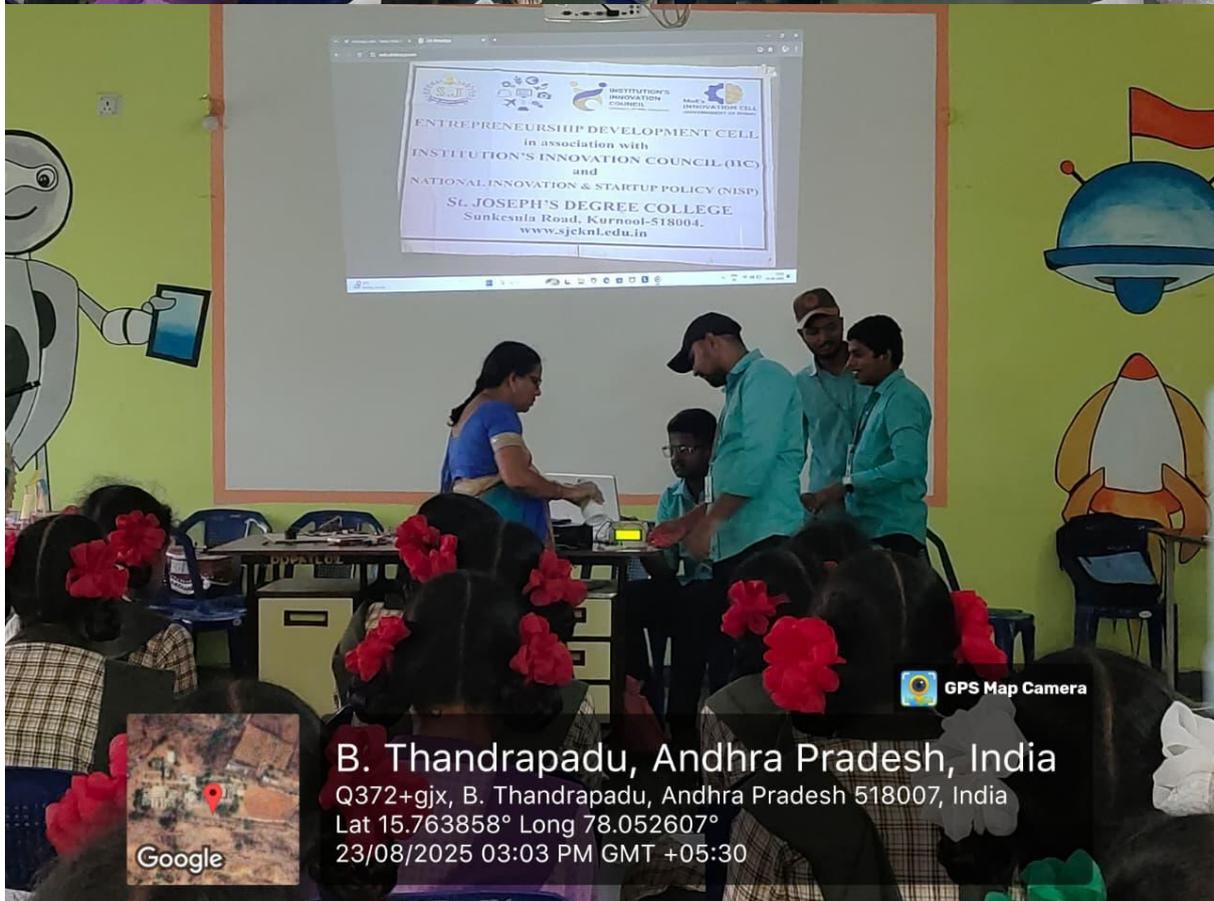
B. Thandrapadu, Andhra Pradesh, India

Q372+gjx, B. Thandrapadu, Andhra Pradesh 518007, India

Lat 15.763807° Long 78.052712°

23/08/2025 03:01 PM GMT +05:30

Google



B. Thandrapadu, Andhra Pradesh, India

Q372+gjx, B. Thandrapadu, Andhra Pradesh 518007, India

Lat 15.763858° Long 78.052607°

23/08/2025 03:03 PM GMT +05:30

Google





GPS Map Camera



B. Thandrapadu, Andhra Pradesh, India
Q372+gix, B. Thandrapadu, Andhra Pradesh 518007, India
Lat 15.763899° Long 78.052594°
23/08/2025 03:06 PM GMT +05:30

Engage Explore Enlighten.

WE EXPLORE

ENTREPRENEURSHIP DEVELOPMENT CELL
in association with
INSTITUTION'S INNOVATION COUNCIL (IIC)
and
NATIONAL INNOVATION & STARTUP POLICY (NISIP)
ST. JOSEPH'S DEGREE COLLEGE
Sunkesara Road, Kurunool-518004.
sjckn.edu.in

GPS Map Camera

B. Thandrapadu, Andhra Pradesh, India

Q372+gix, B. Thandrapadu, Andhra Pradesh 518007, India

Lat 15.76383° Long 78.052638°

23/08/2025 03:10 PM GMT +05:30

Google