



# AR

PPLIED OBOT CONTROL

## APSSDC-ECM-Convergence Training Centers

### Indo-European Skilling Centers for Mechatronics & Industrial Robotics

Industry and Academic Partners



GERMAN CENTER FOR ADVANCED ENGINEERING AND MANAGEMENT STUDIES



Indo Euro Synchronization

Education and Research Resources



# Applied Robot Control Lab

---



## Objectives:

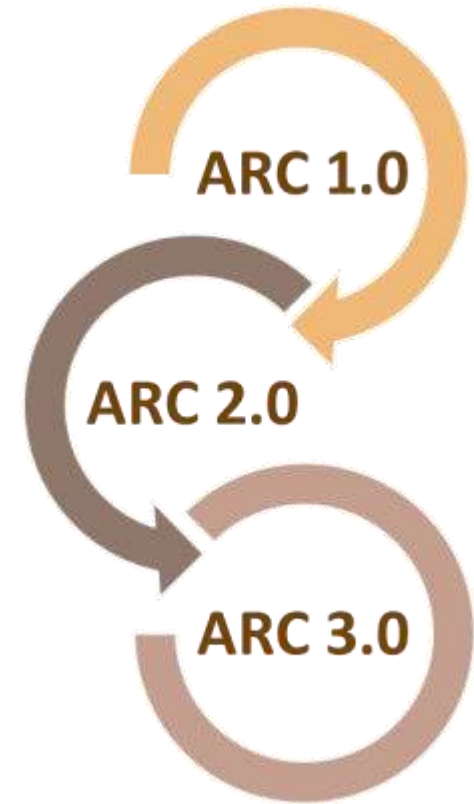
- **Brining latest technologies** in automation and manufacturing sectors to the **labs of colleges**.
- **Firsthand experience on industrial robots** for the students
- **Learning with industry –driven production Requirements.**
- **Real-time training** to supplement students with skill on advanced technologies to make them stand out in global arena.
- **Creation of knowledge pool** of students with high-end technical skills for **immediate absorption into research and Industry.**



# Training Methodology

---

- **Applied Robot control courses** for the students ARC 1.0, ARC 2.0 and ARC 3.0 are **designed to introduce** them to the fields of **automation and industrial robotics** with a **practical approach**.
- The courses will be **delivered by pioneers in the industry**, faculties from **prestigious German universities (through webinars)** with the **help of the faculty members** from the convergence Centers.
- Constant **assessments and close monitoring** will be done and certificates will be issued at the end of course. **Students who successfully completed ARC 1.0 will be invited to join ARC 2.0**, Same is the process with ARC 3.0.



# Students Training

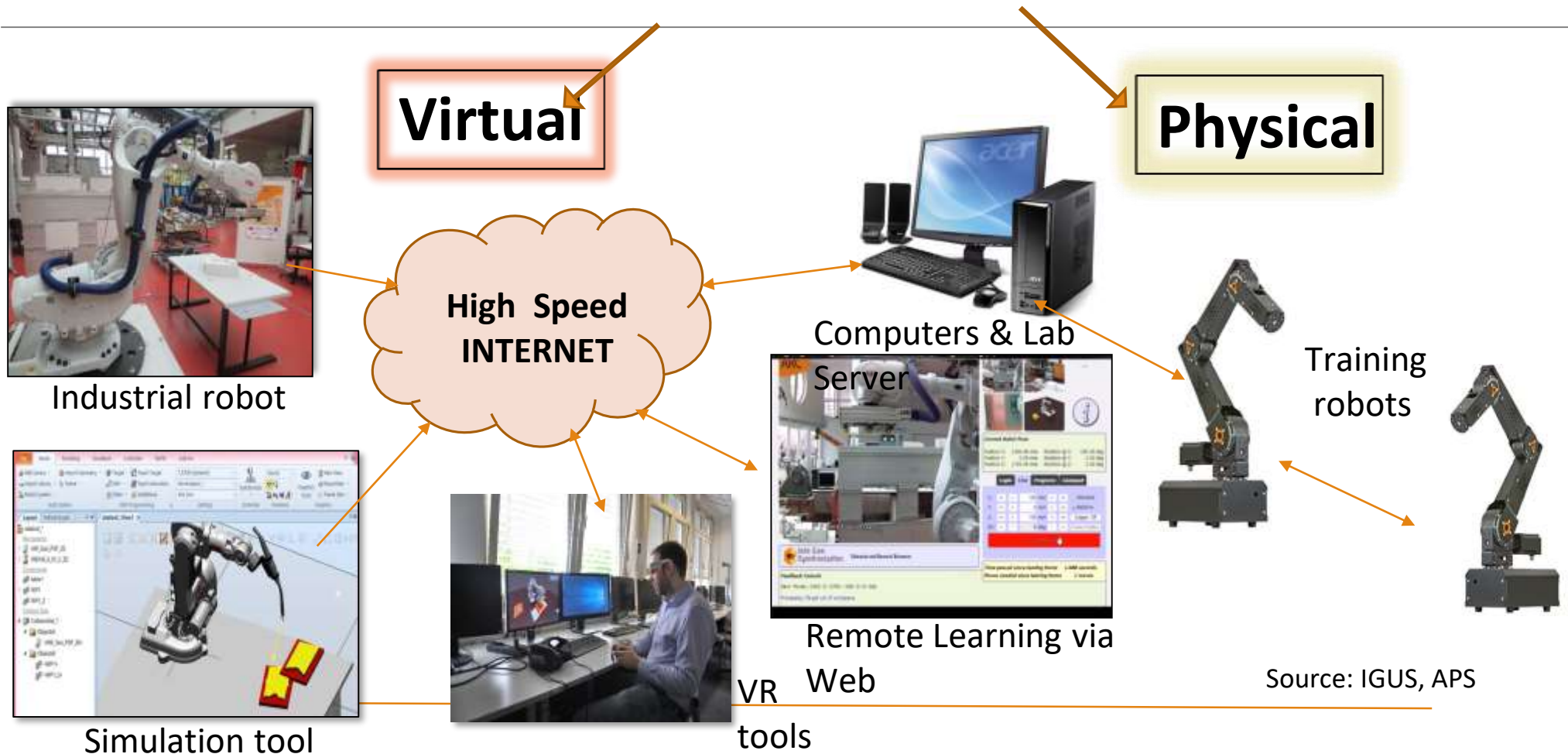
---



- Students for the program shall be **selected** based on their **academic record and performance in the ARC eligibility test**.
- Selected students will be **provided with the materials** to get well versed with the **prerequisites** like C language programming.
- Apart from theoretical classes, **emphasis will be on assignments** involving designing **tasks/jobs for the robots stationed in ARC Labs** of their colleges and also at APS ECM.
- Under experts supervision, students will be able to **remotely access** and **work on the industrial scale robots** at the labs of APS ECM, Germany during ARC 2.0.
- The **aim is to replicate environment of an industry** using **advanced robotics**, for the students to work on. Helping them evolve from having theoretical knowledge towards practical approach to a problem.



# Infrastructure





# Training sessions of ARC 1.0



# Online sessions of ARC 1.0



Recording...

Industrial Robots

Spherical wrist Non-spherical wrist

**Spherical Wrist Design**

Spherical wrists: Axes of rotation intersect in one point

Non-spherical wrist

Tools

Press ESC or double-click to exit full screen mode

Chanakya

Raj Vangapanda, P...

Gudavaleru Engin...

kranthikiran

SDC

Kalyan-VIT-AP, AM

SRK INSTITUTE OF

MALINENI

QIS CET, ONGOLE

RVR BJC COLLEGE

scet

Vishnu Institute of

PVFSIT, UDAYAWADA

Ravan

BVCEC

praveen

Sneha Latha

alet

Indo-Euro Sync...

R SRINIVASULU

Pragati Enginee...

sree vidyaniketh...

