VELAGAPUDI RAMAKRISHNA
SIDDHARTHA ENGINEERING COLLEGE
(AUTONOMOUS)
VIJAYAWADA-520007

Physical Infrastructure Space	Area In Square Feet
Incubation Space Utilized Area (Office Cabins & Cubicles)	2,500
Fabrication Lab & Design Space	2,700
Conference & Meeting Rooms	1,200
Seminar Halls/Training Room	1,497
Co-Working Space	1,500
Open Area, Washrooms & Lifts	1,200
Total Incubation Space Area	**10,597**
Advanced Research Facilities	27,500
Total Available Space	**38,097**

Incubation Space:

Open Area/Entrance

Computer Lab for Designing

Waiting Hall

Training Room/Meeting

Staff Cabins

Staff Cabins

Co-Working Space

Co-Working Space

Startup Conference Room

Ideation Space

Seminar Hall

CEO Room

Ideation Space

Conference Room

TOTAL PLOT AREA = 12682.76 SQM.

EACH FLOOR AREA = 5680 Sqm

5 x 5680 = 28,400.00 sqm
(OR)
=3,05,584.00 Sft

VRSEC-TECHNOLOGY
BUSINESS INCUBATORS(TBI)
AREA
984.90Sqm (or)10597.52 Sft

W N S E

PROJECT TITLE

SIDDHARTHA ENGINEERING
COLLEGE
AT VIJAYAWADA

DRAWING TITLE

FOURTH FLOOR PLAN

ENGINEER SIGNATURE
APCRDA LIC NO:
MAU61-DPOVIJ(LSTE)/37/2019

LAKSHMAN RAO
M. ARCH., MCA.
M. ARCH., M. ARCHITECTS
REGISTERED ARCHITECTS
REGISTRATION NO. 48129

ROOM 9.00x20.00

ROOM 9.00x20.00

ROOM 9.00x20.00

ANBUCKS 9.00x20.00

HCL 9.00x20.00

HCL 9.00x20.00

HCL 9.00x20.00

CORRIDOR 3-50M WIDE

CORRIDOR 3-50M WIDE

CORRIDOR 7-00M WIDE

CORRIDOR 3-50M WIDE

CORRIDOR 3-50M WIDE

LADIES WAITING ROOM 5.76x5.90

GENTS TOILET / LADIES TOILET

12.00x9.00

12.00x9.00

STORE/SERVICING 12.00x9.00

SEMINAR HALL 12.00x16.00

STAGE 12.00x4.00

ROOM 7.50x4.36

ROOM 7.50x4.52

CORRIDOR 3-50M WIDE

ROOM 12.00x9.00

ROOM 12.00x9.00

ROOM 12.00x9.00

ROOM 12.00x9.00

CORRIDOR 3-50M WIDE

12.00x9.00

12.00x9.00

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12.00x9.00

12.00x9.00

12.00x9.00

12.00x9.00

12.00x9.00

12.00x9.00

LADIES WAITING ROOM 5.76x5.90

6.43

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VIJAYAWADA-520007
Details of the Equipment & Facilities available for Start-ups / Innovators
Sectors: Agri Tech & allied industries, Edu Tech & Smart Tech

S.No	Name of the Equipment	Image of the Equipment	Applicative usage of the Equipment
1	PCB Drilling Machine		Useful for creating holes, slots, or cavities as per PCB layout.

2	Honeywell DCS c200		Useful to identify process control parameters in batch applications.
3	PCB Prototype Machine		Useful for development of circuit and analyse the criticalities of the board by sample testing and performance analysis.

| 4 | 3D Printing Machine | | Useful for prototyping enclosures, components, parts for analysing design verification for manufacturability & assembly. |

| 5 | Electric Vehicle (2-wheeler) Test bench | | Useful for testing dynamics of wheel movement in Electric Vehicle |

6	Battery charging and discharging test kit		Useful to analyse the battery performance and wear & tear of charging & discharging in Electric Vehicle
7	Agricultural robot		Useful for understanding and simulating agricultural practices in real field.

8	3-D Printer		Useful for prototyping enclosures, components, parts for analysing design verification for manufacturability & assembly.
9	Coordinate Measuring Machine(CMM)		Useful for measurement of the machined parts and accessories in manufacturing, automobile, electronics, etc.

10	Welding			The purpose of welding is to Useful to bind metals together in certain shapes to provide strength, durability and safety. Types of welding available are : Arc welding ,Spot welding , MIG welding ,TIG welding & Gas welding
11	3D Printing Laboratory			Prototyping of complex and intricate parts using PLA and ABS material

| 12 | Machine Shop | | Useful for forging of final shape as per design.. Custom parts in metal are also created Machines available are JMTC make all geared shaping M/c Planning Machine , Popular Shaping M/c Pilot Lathes ,Capstan Lathe ,HMT all geared Lathe ,MMM Lathes, Adision Milling M/c Chop saw cutting machine , IDAG801 Angle Grinder, Slotting Machine, Surface Grinder Omega Milling Machine, Universal Milling Machine , Centre Lathes ,Radial Drilling Machine |
| 13 | Hand Operated Injection Moulding Machine | | Useful in making small plastic parts of appliances |

| 14 | Computer Lab | | Application Softwares are used to create, analyze, and modify components, assemblies, and systems. Available Design and Analysis softwares : CATIA V5 R18 ,PRO / Engineer(PRO-E) , ANSYS 19.2 , MECHANICAL DESK TOP,FLEXSIM SIMULATION,MATLAB, MASTER CAM X7 , HYPERWORKS, IRON CAD |
| 15 | NX Academic Perpetual License Core+CAD | | Product Design & Validation |

16	Computer Integrated Optical Microscope		Useful for analysing the topography of the surface
17	CNC Machines (JV 55 Vertical Machining Center Siemens 828D CNC System Smarturn CNC Lathe)		Manufacturing for machining metal parts

18	ABB Spot Welding Robot		Used to join sheet metal
19	ABB Arc Welding Robot		Useful for high-quality welds in a shorter cycle time with manufacturing flexibility.

20	Tesla V100 32GB GPU card-AI/ML deep learning lab		Useful for AI computing multiple parallel operations. .
21	AR VR Lab		Visualize the product in virtual mode useful for product refinements saving product development time

| 22 | Concrete 3D Printer | | Useful for preparing concrete blocks of different shapes & sizes and check the material property for mass production in construction field. |

Details of Equipment available for Innovators / Startups

Sector: Med Tech

S.No	Name of the Equipment	Image of the Equipment
1	High Performance Liquid Chromatography	
2	Fourier Transform Infrared Spectroscopy	

3	UV-Spectro Photometer	
4	Digital Refractometer	
5	Tablet Friability Test Apparatus	

6	pH Meter	
7	Digital Nephelo Turbidity Meter	
8	FTIR Hydraulic Press	

9	Dissolution Test Apparatus	
10	Heavy Duty Stirrer	

ROBOTICS LAB

ABB SPOT WELDING ROBOT

ABB SPOT WELDING ROBOT

ABB ARC WELDING ROBOT

ABB PICK & PLACE ROBOT

CNC MACHINES LAB

CNC MILLING MACHINE

CNC LATHE

MECHATRONICS LAB

COMBINED MECHATRONICS WORK STATION

BUFFER STATION

PLC TEST KIT

ELECTRICAL LIFT & MAINTENANCE LAB

ELECTRICAL LIFT TESTING RIG

ELECTRICAL & ENERGY STUDIES LAB

ENERGY SAVING KIT

ELECTRICAL & ENERGY STUDIES LAB

AC MOULDED CASE CIRCUIT BREAKER AND AIR CIRCUIT BREAKER

DC DRIVE

PROCESS INSTRUMENTATION LAB

PROCESS INSTRUMENTATION LAB

PROCESS INSTRUMENTS

DISTRIBUTED CONTROL SYSTEM -DEMO KIT

RAPID PROTOTYPING LAB

3D PRINTER

Model developed by 3D printer
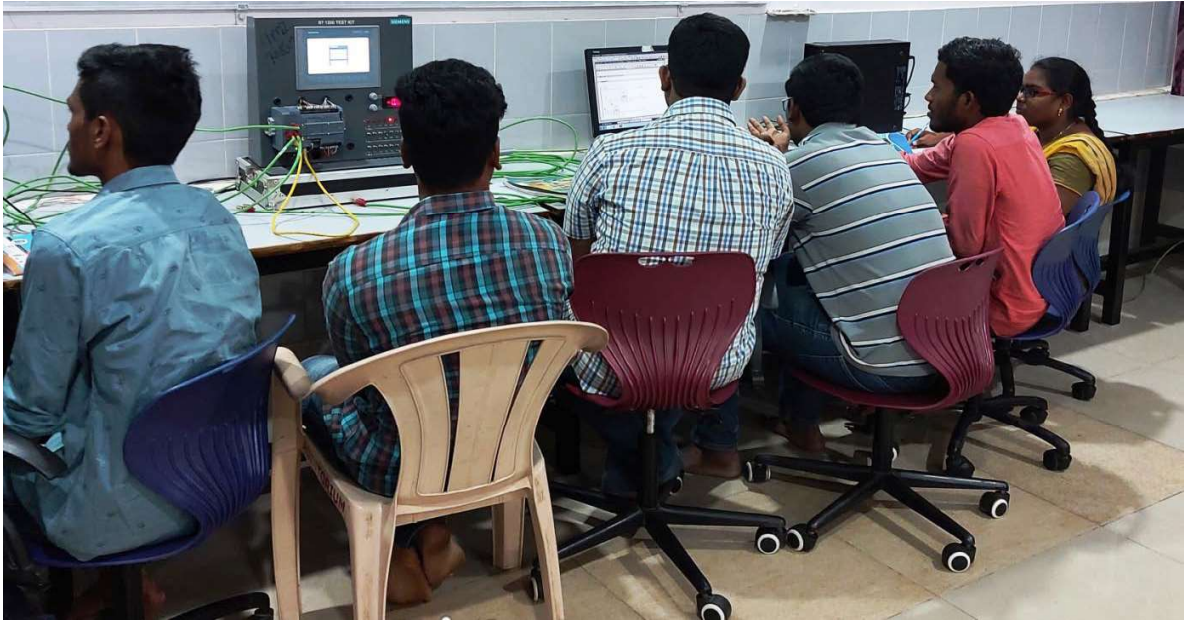
ADVANCED MANUFACTURING LAB

SIMULATION LAB
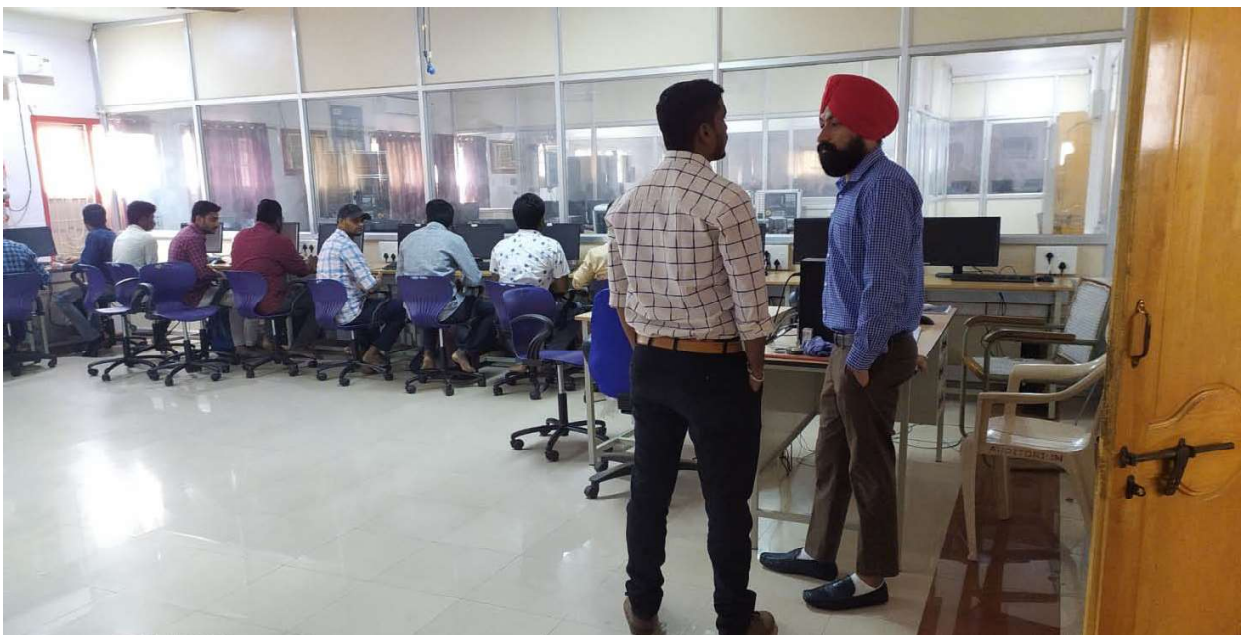
SIMULATION LAB

AUTOMATION LAB

PLC KITS

PLC KITS

NC PROGRAMMING LAB

NC TURNING AND MILLING SIMULATION KITS

SIMULATION CONTROLLER

TEST & OPTIMIZATION LAB

Vibration Analyzer

TIFAC CORE

TIFAC-CORE in TELEMATICS PICTURES

Project Room

Developed Models using NI equipment

Hardware Equipment - NI PXI systems (1)

Hardware Equipment - NI PXI Systems (2)

Training for Faculty at TIFAC

Hardware training for Students at TIFAC (1)

Hardware training for Students at TIFAC (2)

COE IN COMPOSITES

Dilatometer

Wear Test Rig
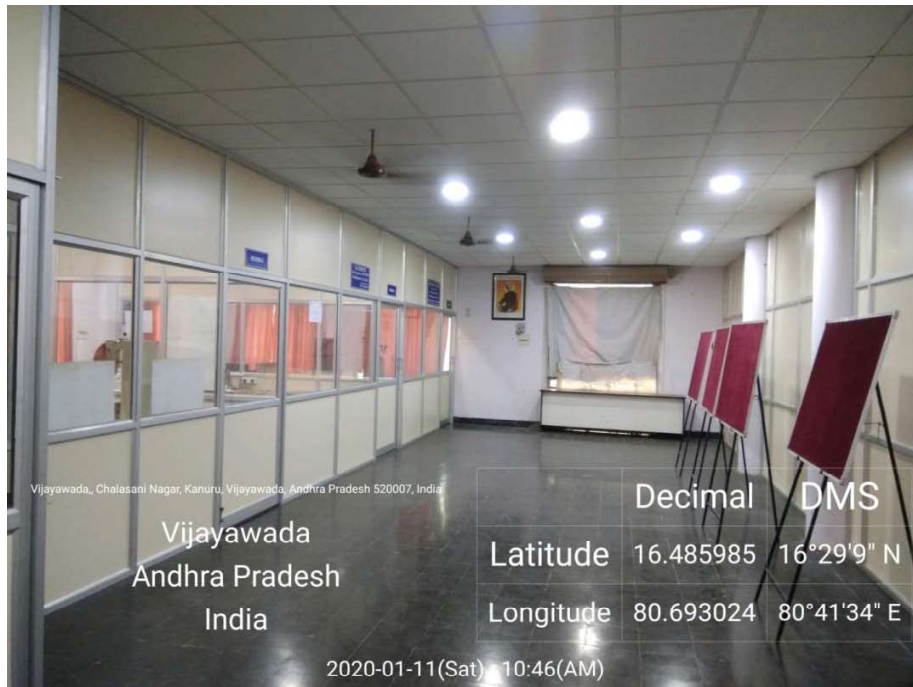
Impact Tester

Computerized Optical Microscope

Thermal Conductivity Equipment

Tensometer

3D – Coordinating Measuring Machine

INDUSTRY COLLABORATIVE LABORATORIES

CISCO NETWORKING ACADEMY

IBM SOFTWARE LAB FOR EMERGING TECHNOLOGIES

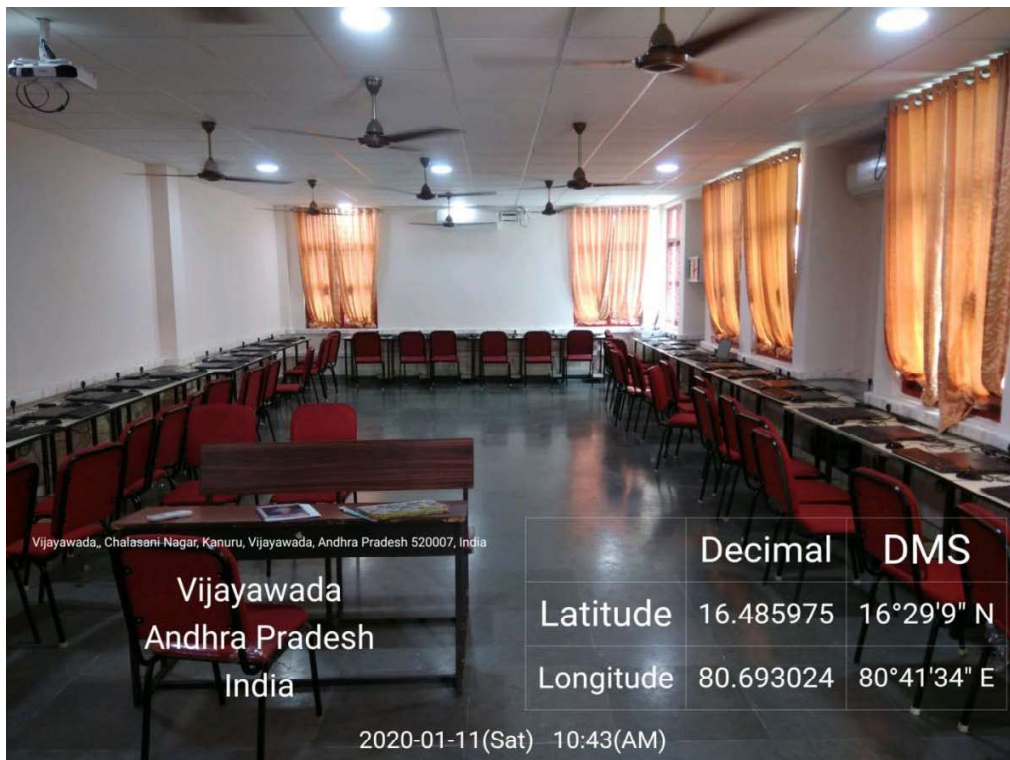Inauguration of IBM Collaborative Laboratory

Inauguration of IBM Collaborative Laboratory

Inauguration of IBM Collaborative Laboratory

DASSAULT SYSTEMS

ORACLE CORPORATION

APPLE AUTHORIZED TRAINING CENTER FOR EDUCATION

Authorized Training Center
Education

Velagapudi Ramakrishna Siddhartha Engineering College
Sponsored by :
Siddhartha Academy of General and Technical Education
Vijayawada
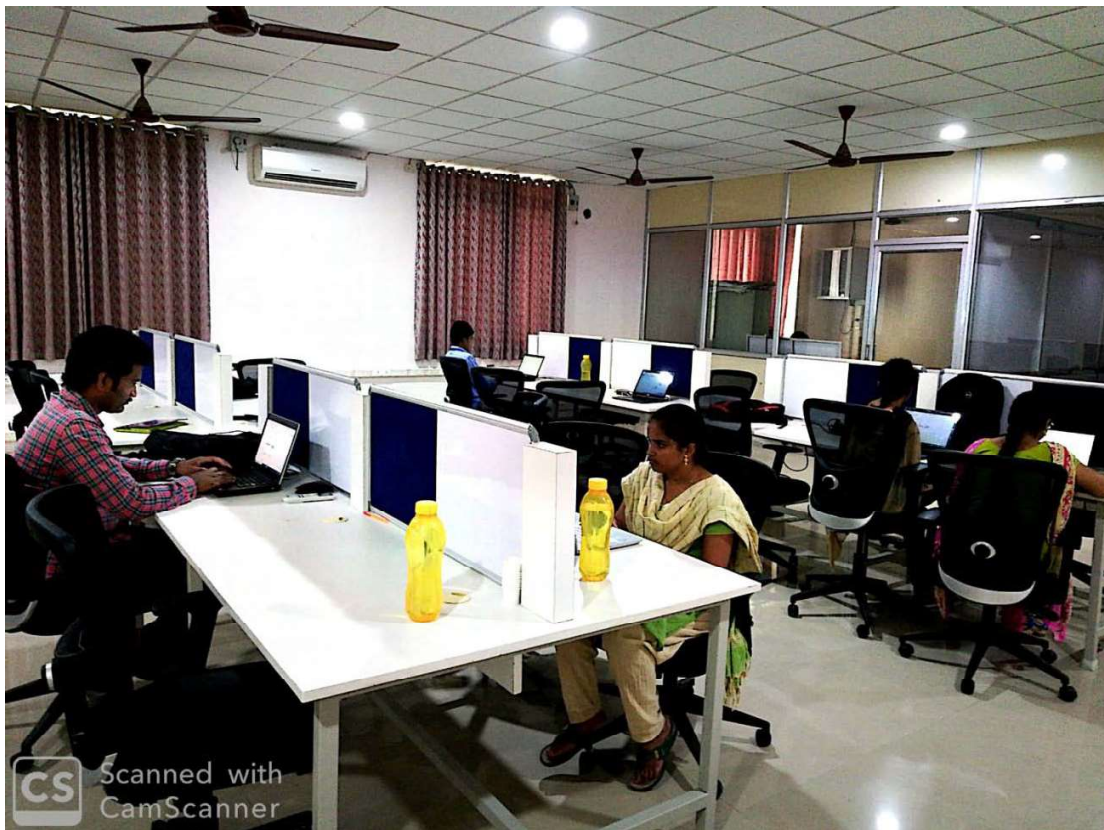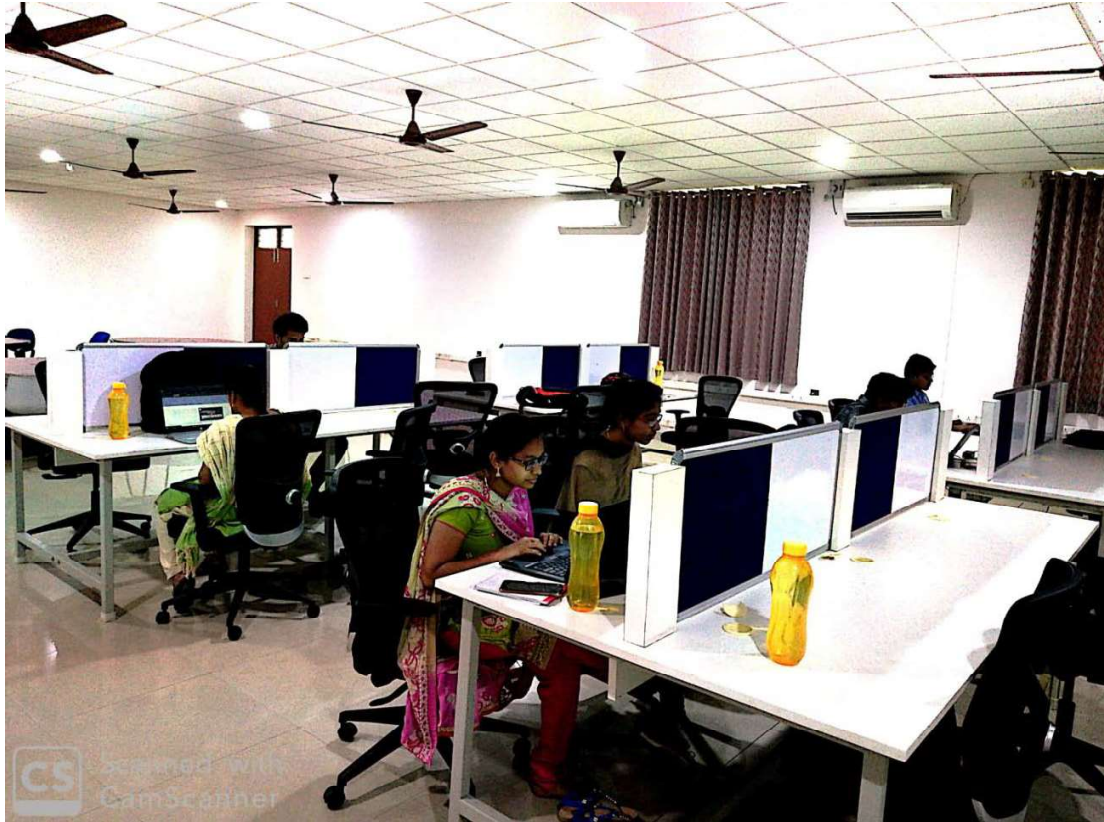
VIDEO ANALYTICS RESEARCH LAB

ANBLICKS IGNITE CENTRE

ANBLICKS IGNITE CENTRE

Inauguration of ANBLICKS IGNITE CENTRE

ANBLICKS IGNITE CENTRE