

ఆంధ్రప్రదేశ్ ఆంధ్ర ప్రదేశ్ ANDHRA PRADESH

S.No: 619 Dt: 6/3/2022 Rs. 100

KU 688291  
Kalangi Purushothama Prasad Rao  
LICENCED STAMP VENDOR  
07-08-008/1990  
07-08-004/2020-22  
Bazar, MANGALAGIRI-522 503  
Phone : 08645-232503.

Sold to Sri: GURRAMANANDA U.V.R. KRISHNA & SANDASIVA  
For Whoom: BLACKBUCK ENGINEERS PVT. LTD. Hyderabad  
MD: ANURADHA THOTA & SRI NIVAS SAIJONEDI  
HYDERABAD



# MEMORANDUM OF UNDERSTANDING

Swarnandhra College of Engineering  
& Technology  
and  
Blackbuck Engineers Pvt. Ltd.

*Annedha*



# ALAN M TURING CENTER OF EXCELLENCE

## Blackbuck Engineers Pvt. Ltd.

To bring premier and practical knowledge closer to students and professionals. This, bridging the gap, we do by bringing industry to students

This **Memorandum of Understanding ("MoU")** is executed in **March 2022** between:

**Blackbuck Engineers Pvt. Ltd.** registered at 5-124/1, Chandanagar, Hyderabad and operating at 3rd floor, Jubilee Square, Road No:36, Jubilee Hills, Hyderabad, Telangana - 500033 as **FIRST PARTY**, hereafter referred as **Blackbuck**.

AND

**Swarnandhra College of Engineering and Technology**, Seetharampuram, Narsapur, Andhra Pradesh 534280, India as **SECOND PARTY** hereafter referred to as Institution.

Blackbuck and Institution are individually referred as "party" and together as "parties"

### WHEREAS

1. The Institution was established in **2001** with a vision and mission of imparting quality technical education to students.
2. The institution would like to equip the students and faculty with knowledge in emerging technologies.
3. Blackbuck excel in the following capabilities:
  - i. Research capabilities
  - ii. Innovative initiatives
  - iii. Faculty & Student Development
  - iv. Infrastructure and resources
4. Blackbuck is an Edtech organization into both technology & management.
5. Institution and Blackbucks together partner to deliver Advanced Skills in Emerging Technologies and provide industry focus to students and faculty

*Swarnandhra*

NOW THE PARTIES HERETO AGREE AS UNDER

**ARTICLE 1: SCOPE OF THE MoU**

1. This document covers an action plan for conducting programs for the Institution that are related to establishment of the Alan M Turing Centre of Excellence for Emerging Technologies.
2. The objective of this MoU is to set out the scope within which the Institution and Blackbuck will jointly explore and work towards achieving the objectives and matters described in this MOU. Each Party shall have the right, in its sole discretion, to determine how it will fulfil its obligations as in ARTICLE 2, ARTICLE 3 and ARTICLE 4

**ARTICLE 2: ROLES AND RESPONSIBILITIES OF BLACKBUCK**

1. Blackbuck shall offer required training for the students in the following areas (100 hours):
  - a. AI / ML / Data Science / Cyber Security / Full-stack Development
2. Blackbuck shall offer training to faculty in AI & ML (100 hours)  
The syllabus will be finalized after discussion with the Faculty
3. Blackbuck will submit student & faculty attendance to the college authorities / assigned mentors

**ARTICLE 3: ROLES AND RESPONSIBILITIES OF THE INSTITUTION**

1. A mentor will be allocated specially by the institution
2. Student's log book related to the work will be verified by the institution
3. Institution will be responsible for promoting the offerings agreed by mutual parties and making it successful.

**ARTICLE 4: JOINT RESPONSIBILITIES**

1. Both the parties can review and assess the quality of the courses or programs as and when required.
2. Both the parties are collectively responsible to create an ecosystem for Incubation, Startups, and Industry Interaction.
3. Both parties shall agree to fulfil their roles and responsibilities with integrity in an ethical manner.

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**Blackbucks** | [www.theblackbucks.com](http://www.theblackbucks.com) | [contact@theblackbucks.com](mailto:contact@theblackbucks.com) |

Address: S Coast Hwy, 1968, Laguna Beach, 92651 92651, US | Jubilee Square, 1128, 3rd floor, Rd Number 36, Jubilee Hills, Hyderabad, Telangana 500033, IN

*Amedha*



**ARTICLE 5: COMMERCIAL TERMS**

1	Students training in foundations in emerging technologies   Student choice including Internship	INR 1500 plus GST
2	Faculty Development Program	INR 3500 per hour + GST
3	First Year Students access to TAPTAP Portal	Free
4	Projects to Final Year Students	INR 2500 plus GST

**ARTICLE 6: LEGAL TERMS**

1. Both the parties can declare about the tie-up on their website or any other public platform.
2. Any IP that has come up through ideas from students or staff is property of the college / university.
3. If there is any dispute with the student(s), the Institution and Blackbuck together will together resolve the same in the best interest of the student(s). Any course started by the student has to be completed till certification. However there will be an exit possibility for students by producing a valid reason approved by both Institution and Blackbuck.
4. Intellectual Property and Trademarks - Both the parties will continue with their respective trademarks including that of any improvements or work done at its own cost for this AGREEMENT. However, any course delivery for academic purposes that does not contain any IP related information - video, audio, text material thus made through this collaboration - shall be made available online for a larger audience.

**ARTICLE 7: TERMS AND TERMINATION**

1. This AGREEMENT will come into effect on the date of signature and will remain in force for four years until either of the two parties serves a written notice to the other at their addresses mentioned as above by registered post of its intention to terminate the Agreement in which case it will terminate one month after the receipt of such a notification.
2. The agreement can be renewed on expiry on mutually agreed terms and conditions. Notwithstanding anything in this MoU, neither Party shall be liable to the other for any failure to achieve any of the objectives and undertakings herein.
3. However, commitments made by either party in respect of personnel hired or equipment ordered, under this MoU would be honoured by respective parties. Termination shall be effective only after the obligations towards a running batch are completed.

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*Anvitha*

**ARTICLE 8: MODIFICATIONS**

1. The AGREEMENT may be amended by mutual consent through an exchange of correspondence between the two Parties.
2. Such amendments come into existence only by a written agreement duly signed by persons authorized on behalf of each party.

**ARTICLE 9: OTHER TERMS AND CONDITIONS**

1. The Blackbucks team will be posting opportunities to the enrolled students of this program.
2. While the MoU is under force, either Institution or Blackbuck should restrain from poaching any resources presently working with their respective entities. They should not be employed directly or in-directly by any party without the consent in writing of the other party.
3. Notwithstanding anything contained in the rules, the administrative rules, regulations, discipline and conduct rules procedures being applicable to the regular students of the college are applicable to the participants in mutatis-mutandis.

**FOR BLACKBUCK  
FIRST PARTY**

*Anuradha*

**ANURADHA THOTA**

Chief Executive Officer  
Blackbuck Engineers Pvt. Ltd.,  
Jubilee Hills, Hyderabad

[www.theblackbucks.com](http://www.theblackbucks.com)



**FOR THE INSTITUTION  
SECOND PARTY**

*K.V. Satyanarayana*  
17-3-22

**AUTHORIZED SIGNATORY**

Designation  
Institution Name  
Address :

<https://www.swarnandhra.ac.in/>

## Appendix

SYLLABUS TO BE TAUGHT TO STUDENTS (online) and students shall jointly get certificate from International Institute of digital technologies and Blackbucks

### Level -1

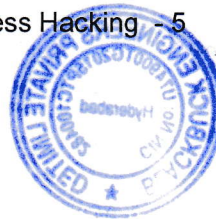
#### Basics and Foundation Emerging Tech Suite (50 hours)

- Mathematics Foundations for Artificial Intelligence - 6
- Python - 8
- Data Structures - 6
- Foundations of SQL and NoSQL Databases - 6
- Foundations of Cloud Technologies - 6
- Foundations of Data Science and Machine Learning – 6
- Foundations of Artificial Intelligence - 6
- Foundations of Cyber Security - 6

### Level - 2

#### Option - 1 Cyber Security (50 Hrs)

- Introduction of Cyber security - 2
- Networking - 6
- Kali Linux, proxy and VPN - 1.5
- Kali Cmds to EthicalHacking 1.5
- Type of hackers and phases - 3
- Information Gathering and Social Eng - 3
- Scanning - 3
- Enumeration and System Hacking and Wireless Hacking - 5
- Malware Threats -3
- Mobile Hacking, Sniffing, DOS, DDOS - 3
- Hacking Web server - 3
- OWASP (Top 10) -2
- A1 to A10 Vulnerability - 12
- Report writing & bug bounty platforms - 2



#### Option - 2: Data Science and Machine Learning (50 hours)

- Python Programming. Micro Project in Python(8)
- Exploratory Data Analysis (6)
- Data Visualization (6)
- Supervised / Unsupervised Learning(6)
- Regression (6)
- Classification (6)
- Model Selection and Analysis(6)
- Clustering (6)

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- Search (6)
- Planning (6)
- Constraint Propagation (3)
- Genetic Algorithms (6)
- Natural Language Processing (3)
- Logic and Reasoning (3)
- Neural Networks (6)
- CNNs and RNNs (3)
- Computer Vision(6)

**Option 4: Full Stack (50 hours)**

- Introduction to Full Stack (2)
- Programming Basics and Algorithms and Data Structures (5)
- HTML, Forms, CSS & Javascript (4)
- Node JS for developing web servers essential for the back end (4)
- Client side programming with AngularJS (4)
- MongoDB (4)
- Source control, Build and deploy (5)
- Building Application with MEAN Stack (5)
- SQL Databases (3), Programming with ReactJS (6)
- Server side programming in Java Springboot (5)
- Cloud Architecture (3)