KRISHNA UNIVERSITY

BOARD OF STUDIES (BoS) – DEPARTMENT OF COMPUTER SCIENCE

MINUTES OF THE BOARD OF STUDIES MEETING

Agenda:

To discuss and approve the proposed **curriculum, course structure and syllabus forCertificate Courses**

- **Computer Applications**
- **Artificial Intelligence and Robotics**
- **Artificial Intelligence and Machine Learning**
- **Cybercrime and Cyber Security**
- **Data Analytics**

Members Present:

S. No.	Name	Designation	Role
1	Prof. R. Kiran Kumar	Dept. of Computer Science, Krishna University	Chairman
2	Smt. P. Durga Bhavani	HOD, Dept. of Computer Science, Nalanda Degree College, Vijayawada	Member
3	Kondapalli Ramkumar	HOD, Dept. of Electronics and Internet of Things, Nalanda Degree College, Vijayawada	Member
4	Bommareddy Sudheer Reddy	Lecturer, Dept. of Computer Science, Nalanda Degree College & PG Centre, Vijayawada	Member
5	Prof. P. Suresh Varma	Dept. of CSE, Adikavi Nannaya University, Rajahmundry	Member
6	Dr. M.H.M. Krishna Prasad	Dept. of CSE, JNTUK, Kakinada	Member
7	Prof. D. Lalitha Bhaskari	Dept. of CS & Systems Engineering, Andhra University	Member
8	Assoc. Prof. M. Babu Reddy	HOD, Dept. of Computer Science, Krishna University	Member

Proceedings

The meeting commenced with the Chairman welcoming all the members. The proposed curriculum and syllabi for the **Certificate courses** were placed before the Board for discussion and consideration.

The members discussed the proposed **course structure, syllabus , credits, teaching scheme, practical components, Course Outcomes and assessment pattern** of the above programmes. The members suggested that the curriculum should be practical, application-oriented and aligned with current technological and industry requirements.

Resolution

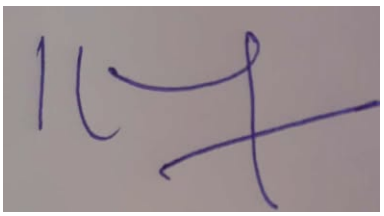
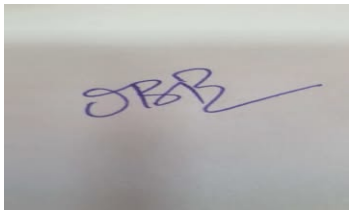
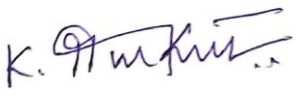
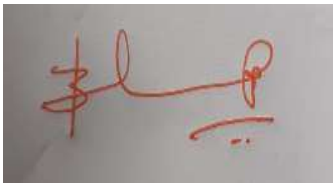
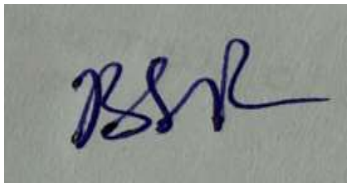
After detailed discussion, the **Board of Studies approved/recommended the proposed curriculum and syllabus** of the following Certificate courses:

1. **Computer Applications**
2. **Artificial Intelligence and Robotics**
3. **Artificial Intelligence and Machine Learning**
4. **Cybercrime and Cyber Security**
5. **Data Analytics**

The Board recommended that the curriculum, syllabus, Course Outcomes, credits, teaching scheme and assessment pattern be finalized by incorporating the suggestions of the members and submitted to the competent academic authority for approval and implementation.

Conclusion

The Chairman thanked all the members for their valuable suggestions and active participation. The meeting concluded with a vote of thanks.

Model Syllabus for Certificate Course in Artificial intelligence And Robotics

Paper : Python Programming

Unit-I:

Getting Started with Python: Introduction to Python , Python Keywords , Identifiers , Variables , Comments, Data Types , Operators, Input and Output , Type Conversion , Debugging . Flow of Control, Selection , Indentation , Repetition , Break and Continue Statement , Nested Loops .

Unit-II:

List: Introduction to List, List Operations, Traversing a List, List Methods and Built-in Functions.

Tuples and Dictionaries, Introduction to Tuples, Tuple Operations, Tuple Methods and Built-in Functions, Nested Tuples.

Introduction to Dictionaries, Dictionaries are Mutable, Dictionary Operations, Traversing a Dictionary, Dictionary Methods and Built-in functions

Unit-III:

Functions: Functions, Built-in Functions, User Defined Functions, recursive functions, Scope of a Variables.

Exceptions: Exceptions in Python, Detecting and Handling Exceptions, Context Management, Exceptions as Strings, Raising Exceptions, Assertions, Standard Exceptions, Creating Exceptions, Why Exceptions ? User Defined Exceptions

Modules: Modules and Files, Namespaces, Importing Modules, Importing Module Attributes, Module Built-in Functions, Packages, Other Features of Modules

UNIT-IV:

Regular Expressions: Introduction, Special Symbols and Characters, Res and Python

Multithreaded Programming: Introduction, Threads and Processes, Python, Threads, and the Global Interpreter Lock, Thread Module, Threading Module, Related Modules

UNIT- V:

GUI Programming: Introduction, Tkinter and Python Programming, Brief Tour of Other GUIs, Related Modules and Other GUIs

KRISHNAUNIVERSITY

Certificate Courses (AI & ML AND AI & Robotics) Model Paper for Core Subjects

Paper Title: PYTHON PROGRAMMING

Time: 3hrs **Max.Marks:70**

Section–A(20Marks)

Answer any *Five* questions. All questions carry equal marks. **5X4=20M**

1. Explain Python Objects.
2) Write about Built-in Functions.
3) Describe about Command-line Arguments.
4) Packages
5) Explain Thread module
6) File Operations
7) Raising Exception
8) Explain Wdgets

Section–B(50Marks)

Answer ALL Questions. All questions carry equal marks. **5X10 =50M**

9. a) Explain Data Types in Python with example.

OR

b). Define operator. Explain carious operators available in python.

10 a) Define List. Explain various List Methods with example.

OR

b) Explain Dictionary Methods

11. a) Explain Built-in Functions .

OR

b). Discuss about Exception handling Mechanism in Python

12. a) Describe Importance of Regular Expressions.

OR

b). Write about Global Interpreter Lock,

13 a) Explain Tkinter Module in python.

OR

c) Write a process of creating Widgets