ಮೈಸೂರು ವಿಶ್ವವಿದ್ಯಾನಿಲಯ

ವಿಶ್ವವಿದ್ಯಾನಿಲಯ ಕಾರ್ಯಸೌಧ
ಕ್ರಾಫರ್ಡ್‌ಭವನ, ಮೈಸೂರು–5

ಸಂಖ್ಯೆ:ಯುಎ.2/379(10)/2016–2017 ದಿನಾಂಕ 28–12–2020

ಗೆ:

ಗಣಕ ವಿಜ್ಞಾನ ಅಧ್ಯಯನ ಮಂಡಳಿ(ಸ್ನಾತಕೋತ್ತರ)ಯ
ಅಧ್ಯಕ್ಷರು ಮತ್ತು ಸದಸ್ಯರುಗಳಿಗೆ.

ಮಾನ್ಯರೇ,

ವಿಷಯ: ದಿನಾಂಕ 25–11–2020ರಂದು ನಡೆದ ಗಣಕ ವಿಜ್ಞಾನ ಅಧ್ಯಯನ ಮಂಡಳಿ(ಸ್ನಾತಕೋತ್ತರ)ಯ ವಾರ್ಷಿಕ ಸಭೆಯ ನಡಾವಳಿಯನ್ನು ಕಳುಹಿಸುತ್ತಿರುವ ಬಗ್ಗೆ.

* * * * *

ದಿನಾಂಕ 25–11–2020ರಂದು ನಡೆದ ಗಣಕ ವಿಜ್ಞಾನ ಅಧ್ಯಯನ ಮಂಡಳಿ(ಸ್ನಾತಕೋತ್ತರ)ಯ ವಾರ್ಷಿಕ ಸಭೆಯ ನಡಾವಳಿಯನ್ನು ಈ ಪತ್ರದ ಜೊತೆ ಲಗತ್ತಿಸಿ ಕಳುಹಿಸಲಾಗಿದೆ.

Lingaraju 28/12/2020
ಉಪ ಕುಲಸಚಿವ (ಪ್ರಾಧಿಕಾರ)

ಪ್ರತಿ:

1. ಅಧ್ಯಕ್ಷರು, ಗಣಕ ವಿಜ್ಞಾನ ಅಧ್ಯಯನ ವಿಭಾಗ, ಮಾನಸಗಂಗೋತ್ರಿ, ಮೈಸೂರು
2. ಪ್ರೊ. ಜಿ.ವೆಂಕಟೇಶ್ ಕುಮಾರ್, ಡೀನರು, ವಿಜ್ಞಾನ ಮತ್ತು ತಂತ್ರಜ್ಞಾನ ನಿಕಾಯ, ಮನೋವಿಜ್ಞಾನ ಅಧ್ಯಯನ ವಿಭಾಗ, ಮಾನಸಗಂಗೋತ್ರಿ, ಮೈಸೂರು
3. ಕುಲಸಚಿವ(ಪರೀಕ್ಷಾಂಗ), ಮೈಸೂರು ವಿಶ್ವವಿದ್ಯಾನಿಲಯ, ಮೈಸೂರು.
4. **ಉಪಕುಲಸಚಿವರು (ಶೈಕ್ಷಣಿಕ), ಆಡಳಿತ ವಿಭಾಗ, ಮೈವಿವಿ ನಿಲಯ, ಮೈಸೂರು–ಅಧ್ಯಯನ ಮಂಡಳಿಯು ಶಿಫಾರಸ್ಸು ಮಾಡಿರುವಂತೆ ಸೂಕ್ತ ಕ್ರಮಕೈಗೊಳ್ಳಬೇಕಾಗಿ ಕೋರಿದೆ.**
5. ಸಹಾಯಕ ಕುಲಸಚಿವರು/ಅಧೀಕ್ಷಕರು (ಶೈಕ್ಷಣಿಕ), ಆಡಳಿತವಿಭಾಗ, ಮೈಸೂರು ವಿಶ್ವವಿದ್ಯಾನಿಲಯ, ಮೈಸೂರು
6. ಕುಲಪತಿ/ಕುಲಸಚಿವ/ಕುಲಸಚಿವ(ಪರೀಕ್ಷಾಂಗ) ಅವರ ಆಪ್ತ ಸಹಾಯಕರು, ಮೈವಿವಿ ನಿಲಯ, ಮೈಸೂರು.
7. ಕಾರ್ಯನಿರ್ವಾಹಕರು, ಎಸಿ2(ಎಸ್), ಆಡಳಿತ ವಿಭಾಗ, ಮೈವಿವಿ ನಿಲಯ, ಮೈಸೂರು.

Proceedings of the meeting of the members of BoS in Computer Science (PG) on 25th November 2020 at 11 AM in the DoS in Computer Science, Manasagangothri, Mysuru.

The Chairman Dr. H. S. Nagendraswamy welcomed the members to the meeting. Following are the resolutions made for the agenda placed.

Members Present:

Sl. No.	Name	Description	Signature
1.	Prof. Basavaraj S. Anami	Member	Attended Online
2.	Prof. H. L. Shashirekha	Member	Attended Online
3.	Prof. Lokanath N.K.	Member	
3.	Prof. Suresha	Member	
4.	Prof. D. S. Guru	Member	
5.	Dr. Hanumanthappa J.	Member	
6.	Smt. L. Hamsaveni	Member	
7..	Dr. Sharada B.	Member	
8.	Prof. H. S. Nagendraswamy	Chairman	

1. Closing of options for students to continue for 3rd year Masters towards M. Sc. Tech. in Computer Science.

   Approved

2. Panel of examiners for the academic year 2021-2022.

   Approved

3. Renaming of existing M.Tech. in CCT as M. Tech. in Data Analytics and Learning.

   For Resolution see Annexure - A

4. Minor modifications to the courses being offered for M.Sc. Tech. in Computer Science (3 Years) / M.Sc. in Computer Science (2 Years).

   For Resolution see Annexure - B

5. PGCET Examination for M. Tech. programmes.

   For Resolution see Annexure - C

CHAIRMAN

BoS in Computer Science (PG)

Dr H.S. NAGENDRASWAMY
Professor
Department of Studies in Computer Science
University of Mysore
Manasagangotri, Mysore - 570 006
Karnataka, INDIA

Annexure-A

Renaming of M.Tech in CCT as M.Tech in Data Analytics and Learning (DAL)
(Effective from Academic year 2021 - 2022)

Preamble

The Department of Studies in Computer Science is very well specialized in the field of Artificial Intelligence and Machine Learning research. A well established research laboratory with high performance computing systems provides all the required resources for the research scholars as well as for the students to carry out quality research works and project works related to research and development. Significant contributions have been made by the researchers as well as the students in this area.

In order to effectively make use of the facilities available in the department and also to encourage master degree students from other disciplines with mathematics and statistical background M.Tech programme with two streams (i) Computer Science and Technology (CST) and (ii) Computer Cognition Technology (CCT) were started two decades ago and were very successful. Several students who have obtained M.Tech degree from the Department in both the streams are very well placed in the industry as well as in academic sectors. However, from the past three years, it is noticed that the number of students admitted to M.Tech (CCT) programme was drastically reduced and the precise reasons were not known. But to the best of our knowledge, we understood that the name CCT now looks odd when compared to M.Tech Programmes offered by VTU and also because of the PGCET examination conducted by KEA. The recent technology and trends in Data Science & Machine Learning and the job opportunities have attracted the Computer Science students to perceive the master's programme in the very specialized and well focused theme. In view of this, the Department of Studies in Computer Science has thought of renaming the existing M.Tech (CCT) programme as M.Tech (DAL) with an emphasis on Data Analytics and Learning under the ambience of High Performance Computing and accordingly the syllabi is changed.

Hence, the details of renamed M.Tech (DAL) Programme are as given below:

EARNING OF CREDITS:

On par with masters' programmes of our University and VTU, in order to obtain M.Tech (DAL) degree, the student has to earn a total of 80 credits (48 credits in Hard core courses, 28 credits in Soft core courses and 4 credits in Open Elective).

1/2

PROGRAMME CONTENT

HARD CORE COURSES	SOFT CORE COURSES
• Vector Algebra and Frequency Domain Transfer (3:0:1) • Probability, Statistics and Distribution Theory (3:1:0) • Machine Learning using Python (3:0:1) • Artificial Intelligence (3:1:0) • Neural Networks (3:0:1) • Data Clustering (3:0:1) • Dimensionality Reduction and Data Indexing (3:0:1) • Deep Learning Architecture (3:0:1) • Graph Theory (3:1:0) • Data Visualization and Annotations: Tools and Techniques (2:1:1) • Project Work (0:1:7)	• Image Processing (3:0:1) • Video Processing (3:0:1) • Advanced Data Structures and Algorithms (3:0:1) • Text Data Analytics (3:0:1) • Soft Computing Techniques (3:0:1) • Symbolic Data Analysis (3:0:1) • Speech Analytics (3:0:1) • Digital Signal Processing (3:0:1) • Biometrics (3:0:1) • Advanced Computer Architecture (3:1:0) • Semantic Web Analytics (3:0:1) • Internet of Things (3:1:0) • Natural Language Processing (3:0:1) • Cloud Computing and Intelligence (3:1:0) • Principles of Product Development (3:1:0)

Removal of 3rd year part of M. Sc. Tech. in Computer Science (3 Years with an optional exit at the end of 2nd year) and Retaining M. Sc. in Computer Science (2 years) Programme

Resolution:

- Closure of 3rd year of M. Sc. Tech. (Computer Science) which is a 3 years programme as all students, for the last 5 – 6 years have exercised their option of exiting at the end of 2nd year with a conventional M. Sc. (Computer Science) degree.
- Retaining of M. Sc. (Computer Science), a 2 years programme. Accordingly, the Hardcore and Softcore courses have been updated, as shown in the following table, by taking care of the current demands in the industries academic institutions.

Existing	Restructured	Remarks
Hard Core Courses:	**Hard Core Courses:**	***
• Discrete Mathematics (3:1:0)	• Discrete Mathematical Structures (3:1:0)	
• Data Structures (2:1:1)	• Advanced Data Structures and Indexing (2:0:2)	
• Computer Architecture (2:1:1)	• Advanced Computer Architecture (3:1:0)	
• Algorithmics (2:0:2)	• Algorithmics (2:0:2)	
• System Software (2:1:1)		
• Operating System (3:1:0)	• Advanced Operating Systems (2:1:1)	
• Theory of Languages (2:1:1)	• Theory of Languages (3:0:1)	
• Data Base Management System (2:1:1)	• Advanced Data Base Management Systems (2:1:1)	
• Computer Networks (2:1:1)	• Advanced Computer Networks (3:0:1)	
• Computer Graphics (2:1:1)		
• Software Engineering (2:1:1)	• Advanced Software Engineering (3:0:1)	
• Object Oriented Analysis and Design (2:0:2)	• Internet of Things (2:1:1)	

• Principles of Programming and Problem Solving (2:1:1)	• Machine Learning (2:1:1) • Object Oriented Analysis and Design (2:0:2)	
Soft Core Courses: • Compiler Construction (2:1:1) • Graph Theoretic Algorithms (2:1:1) • Data Communication (3:1:0) • Software Quality Assurance (2:1:1) • Multi-Data Analysis (2:1:1) • Research Methodology & Documentation (3:1:0) • . Net Technology (2:0:2) • Fuzzy Theory (3:1:0) • Image Processing (3:0:1) • Information Retrieval (2:1:1) • Pattern Recognition (3:0:1) • Probability and Statistics (3:1:0) • Artificial Intelligence (3:1:0) • JAVA Programming (2:0:2) • Operations Research and Optimization (3:1:0) • Simulation and Modeling (3:1:0) • Numerical Algorithms (2:0:2) • Mobile Communication (3:1:0) • Open Source Resources (1:1:2) • Business Intelligence (2:0:2)	**Soft Core Courses:** • Compiler Construction (2:1:1) • Graph Theoretic Algorithms (2:1:1) • Data Communication (3:1:0) • Software Quality Assurance (2:1:1) • Multi-Data Analysis (2:1:1) • Research Methodology & Documentation (3:1:0) • . Net Technology (2:0:2) • Fuzzy Theory (3:1:0) • Image Processing (3:0:1) • Information Retrieval (2:1:1) • Pattern Recognition (3:0:1) • Probability and Statistics (3:1:0) • Artificial Intelligence (3:1:0) • JAVA Programming (2:0:2) • Operations Research and Optimization (3:1:0) • Simulation and Modeling (3:1:0) • Numerical Algorithms (2:0:2) • Mobile Communication (3:1:0) • Open Source Resources (1:1:2) • Business Intelligence (2:0:2)	

2/4

• Distributed Computing (2:1:1) • Communication Skills and Professional Management (3:1:0) • Cryptography (3:1:0) • Data Analysis (3:0:1) • Data Compression (3:0:1) • Data Mining (3:1:0) • Data Indexing (2:1:1) • Advanced Probability & Statistics (3:1:0) • Embedded Systems (2:1:1) • Advanced Data Structures (2:1:1) • Hardware and Networking (2:1:1) • Java Programming (2:0:2) • Matrix Programming (1:1:2) • Medical Imaging (3:0:1) • Microprocessor (3:0:1) • Multimedia Communication (3:1:0) • Network Security (2:1:1) • Practicing Software Design (1:1:2) • Simulation and Modeling (2:1:1) • Software Engineering Case Tools (1:1:2) • Software Quality Testing (2:1:1) • Semantic Web (2:1:1) • System Analysis and Design (3:1:0)	• Distributed Computing (2:1:1) • Communication Skills and Professional Management (3:1:0) • Cryptography (3:1:0) • Data Analysis (3:0:1) • Data Compression (3:0:1) • Data Mining (3:1:0) • Data Indexing (2:1:1) • Advanced Probability & Statistics (3:1:0) • Embedded Systems (2:1:1) • Advanced Data Structures (2:1:1) • Hardware and Networking (2:1:1) • Java Programming (2:0:2) • Matrix Programming (1:1:2) • Medical Imaging (3:0:1) • Microprocessor (3:0:1) • Multimedia Communication (3:1:0) • Network Security (2:1:1) • Practicing Software Design (1:1:2) • Simulation and Modeling (2:1:1) • Software Engineering Case Tools (1:1:2) • Software Quality Testing (2:1:1) • Semantic Web (2:1:1) • System Analysis and Design (3:1:0)	

3/4

• Theory of Complexity (3:1:0) • Process Automation (2:1:1) • Parallel Computing Algorithms (2:1:1) • Data Clustering (2:1:1) • Advanced Numerical Algorithms (2:1:1) • Fundamentals of Control Systems (3:1:0) • Computer Forensics (2:1:1) • Biometrics (2:0:2) • Web Programming (1:1:2)	• Theory of Complexity (3:1:0) • Process Automation (2:1:1) • Parallel Computing Algorithms (2:1:1) • Data Clustering (2:1:1) • Advanced Numerical Algorithms (2:1:1) • Fundamentals of Control Systems (3:1:0) • Computer Forensics (2:1:1) • Biometrics (2:0:2) • Web Programming (1:1:2) • Big Data Analytics (3:0:1) • Linear Algebra (3:1:0) • Python Programming (2:0:2) • Natural Language Processing (2:1:1) • High Performance Computing (2:1:1) • Cyber Security (2:1:1)	

***** The syllabi of Hardcore and Softcore courses are modified and decided based on the current demands in the software industries and in Research Institutions**

4/4

Annexure-C

PGCET Examination for M.Tech Programmes

Students who want to take admission to M.Tech Programmes offered by the Department of Studies in Computer Science have to appear for PGCET examination conducted by KEA. Since the conduction of examination and allotment of seats for M.Tech programmes of all the universities and affiliated institutions in Karnataka are centralized, the scope and popularity of M.Tech programmes offered by our Department is little less. It is observed that admission to many AICTE approved programmes like M.Tech., MBA, MCA in many Universities/Institutes are done through conduction of their own PGCET examination and admission process. We found that it is more convenient for the students to take PGCET examination conducted by our university and the admission process can be done as per the guidelines of the post graduate programmes. In view of this, the Board of Studies has expressed its approval to conduct PGCET examination for the M.Tech programmes offered by the DoS in Computer Science of our University and also to extend the admission process.

1/1