

UNIVERSITY OF THE PUNJAB

NOTIFICATION

It is hereby notified that the Vice-Chancellor has, in exercise of the powers vested in him under Section 15(3) of the University of the Punjab, Act 1973 and in anticipation of the approval of the Syndicate, approved the recommendations made by the Higher Education Commission vide communication No. PHEC/(QA)5-2/2016/797, dated 23-01-2016, regarding approval of the Course Contents of Ist Semester (only) for Associate Degree, Bachelors in Information Technology (Specialization in Networking/Web Technologies) under Semester System for Community Colleges, Pilot Project Launched by PHEC in collaboration with HED, with effect from the Academic Session, 2016-2018 and onward.

The Course Contents are enclosed here with, vide Annexure-‘C’.

**Admin. Block,
Quaid-i-Azam Campus,
Lahore.**


No. D/986/Acad.

**Sd/-
Prof. Dr. Muhammad Naeem Khan
Registrar**

Dated: 24/02/2017.

Copy of the above is forwarded to the following for information and necessary action:-

1. Pro-Chancellor,
Minister of Education,
Govt. of Punjab, Lahore.
2. Members of the Syndicate
3. Dean, Faculty of Sciences
4. Principal, PUCIT
5. Director, Undergraduate Studies
6. Principals, Affiliated Colleges
7. Controller of Examinations
8. Director, IT.
9. Deputy Controller (Conduct)
10. Deputy Controller (Secrecy)
11. Deputy Controller (Computer)
12. Deputy Registrar (General).
13. Assistant Registrar (Statutes)
14. Secretary to the Vice-Chancellor
15. P.S. to the Registrar
16. Assistant Syndicate (With file)


**Deputy Registrar (Academic)
for Registrar**

24/02/2017

COMMUNITY COLLEGES 2-YEAR PROGRAM**Index**

Associate Degree in Information Technology (Specialization in Networking/Web Technologies)			
Course Title	Course Code	Cr. Hrs.	Common With
Writing Workshop	ENG-121	3	BS-FYDP
Islamiyat/Ethics	ISE-121	2	BS-FYDP
Calculus I	MATH-131	3	BS-FYDP
Mechanics and Wave Motion	PHY-121	3	BS-FYDP
Introduction to Computing	IT-101	3	BS-FYDP
Total		14	

TITLE: WRITING WORKSHOP (IT)**UNIQUE COURSE CODE: ENG-121****CREDIT HOURS: 3**

The basic philosophy behind writing workshop is to allow students to daily spend time writing for real purposes about things that interest them. Students can experiment with a variety of genres. English, spelling, handwriting and other mechanics can be taught within writing workshop. Students learn the craft of writing through practice, conferring, and studying the craft of creative and fundamental writings. Topics: Introduction of communication; 4 skills of communication; Importance and Benefits of Effective communication; Components of communication; Components of communication; Concepts and problems of communication; Forms of communication: verbal/nonverbal; The general principles of communication; The general principles of communication; Communication and the Global Context; Strategies for Successful Speaking. Project Documentation and Presentation must be treated as compulsory part of this paper. Note for the instructor: make frequent use of worksheets in class and in homework assignments.

Text Book

1. George Stern, Learners' Writing in English

Recommended Books

1. Hand outs: Synonyms, Antonyms, Idiomatic Phrases and Difference Between American and British English
2. Useful links: www.owl.english.purdue.edu

✓ **SEMESTER - I**
TITLE: ISLAMIC STUDIES-I
UNIQUE COURSE CODE: ISE-121
CREDIT HOURS: 2

This course provides a comprehensive knowledge of Islam. It covers the basic beliefs and practices of Islam. This course is intended to familiarize students with a range of the most important Islamic beliefs, practices, and issues. It should equip them to recognize, understand and appreciate the different dimensions of Islam that they will encounter in their practical life. This course will enable the students to perform their worship in the manner prescribed by Allah. It will also make them aware of their duties as Muslims, including what is compulsory, what is permitted and what is forbidden for a Muslim in his day-to-day life. This course will also enable the students to appreciate the beauty and excellence of Islamic moral and social teachings and adopt them as their guidance in life thereby demonstrating values and attitudes necessary for a healthy and balanced lifestyle. The following topics will be covered in this course: Aqeedah, Tawheed, Risalah and Al-Akhira, Tahara, Salah, Sujood as-Sahw, Qadda (making up), Qasr (Shortening) and Jama (Joining), Sawm (Fasting), Salah at-Taraaweeth (The Night Prayer), Zakaah, Hajj, Jihad, Birth, Tehneek, Aqeeqah and Circumcision (Khittaah), Death, The Funeral Prayer, Burial, Food and Dress/Adornment, Male/Female relationship, Social Interaction Between Men & Women, Marriage(Nikah), Rights and Obligations of the Spouses, The Law of Divorce, Inheritance, Major Sins (Kabirah), Crime & Punishment, Islamic Economics & Finance, Contemporary issues, Moral/ Manners / Tazkiyah Nafs, concepts of Taqwa, Tazkiyah, Ihsan, Huqooq ullah and Huqooq ul-Ibad.

Text Book

Dr. Muhammad Hamidullah, *Introduction to Islam*

Recommended Books

1. Marwan Ibrahim Al-Kaysi, *Morals And Manners in Islam*, The Islamic Foundation, Leicester, United Kingdom, 1991.
2. Mohammad Yusuf Islahi, *Etiquettes of Life In Islam*, Markazi Maktabah Islami Publishers, New Delhi, 2003.
3. Dr. Abu Ameenah Bilal Philips, *The Foundations of Islamic Studies*.
4. John Esposito, *Islam: The Straight Path*.
5. Abul A'la Mawdudi, *Al-Jihad Fil Islam*
6. Dr. Abu Ameenah Bilal Philips, *Funeral Rites in Islaam*
7. Jamal A. Badawi, *At-Taharah: Purity And State Of Undefilement*
8. Abul A'la Mawdudi, *Human Rights in Islam*
9. Abul A'la Mawdudi, *Ethical Viewpoint of Islam*
10. Muhammad Akram Khan, *An Introduction to Islamic Economics*
11. Khurshid Ahmad, *Studies in Islamic Economics*

TITLE: CALCULUS (IT)-I
UNIQUE COURSE CODE: MATH-131
CREDIT HOURS: 3

This course provides a systematic introduction to the aspects of differential and integral calculus. It provides a sound foundation in calculus for students of Mathematics and Computer Science. Emphasis of the course is on modeling and applications. The following topics will be covered in this course: Number systems, Intervals, Inequalities, Functions, Solving absolute value equations and inequalities, Limits, Continuity; Limits and continuity of trigonometric functions, Slopes and rates of change, the Derivative, Local linear approximation, Differentials, Analysis of functions, Rolle's theorem and Mean value theorem, the indefinite integral, the definite integral, L'Hopital's rule; Integration, First order differential equations and applications, Second order linear homogeneous differential equations, Polar coordinates and Graph sketching, Conic sections in calculus.

Text Book

Anton, Bivens and Davis, *Calculus*, 7th Edition, John Wiley and Sons, 2002. ISBN: 9971-51-431-1

Recommended Books

1. Thomas and Finney, *Calculus with Analytic Geometry*, Addison Wesley 10th Edition, 2001. ISBN: 0201163209
2. Dennis G.Zill & Michael R. Cullen, *Differential equations with boundary value problems*, 3rd Edition, 1992. ISBN: 0534418872
3. Online Material: www.mathworld.com

TITLE: MECHANICS & WAVE MOTION (IT)

UNIQUE COURSE CODE: PHY-121

CREDIT HOURS: 3

To teach students calculus based general physics by way of learning about the following topics in depth: Measurement and vectors, Motion in one, two and three dimensions, Newton's laws of motions, Work and energy principles, Laws of conservation of momentum and energy, One- and two-dimensional collisions, Rotational kinematics and dynamics, Conservation of angular momentum, Gravitation, Oscillations and waves.

1. Resnick, Halliday and Krane, *Physics*, vol. 1. ISBN: 978-0-471-32057-9

Recommended Book

1. University Physics, vol. 1, by Sears and Zemansky, ISBN-10: 0201603365

TITLE: INTRODUCTION TO COMPUTING**UNIQUE COURSE CODE: IT-101****CREDIT HOURS: 3**

In today's information age, computers are used in almost each and every aspect of human life: from cell phones to cruise missiles, from disease diagnostics to design of space ships, etc. Objective of this course is to get a breadth-first overview of computing and information technology, and to make students productive with widely used software applications and the World-Wide Web (WWW). The following topics will be covered in the course: The Information Age, Computer Hardware, Introduction to Internet Explorer, Software, Central Processing Unit, Introduction to Microsoft Office, Input & Output, Storage & Multimedia, Microsoft Word, Computer Networks, The Internet, Spreadsheets & Business Graphics, Programming Languages, Software Engineering, Management Information Systems, Artificial Intelligence, Microsoft Excel, Database Management Systems, Microsoft Access, Microsoft Power Point, Introduction to Web Development, Introduction to HTML, Images & Links, Lists and Tables, Forms, Maps and Frames, Introduction to Microsoft FrontPage, Introduction to JavaScript, E-commerce, Security, Privacy and Cyber-Ethics, Introduction to Programming, Algorithms & Flowcharts, Variables & Data Types, Operators & Precedence, Conditional Statements, Loops, Functions, Arrays, HTML Tabular Data Control, New hardware/software technologies.

Text Book

1. Capron, Computers—Tools for an Information Age, Sixth Edition, Prentice Hall, ISBN-10: 0131405640
2. Deitel, Internet & World Wide Web – How to Program, Prentice Hall, ISBN-10: 0131405640

Recommended Books

1. Brookshear; Computer Science – An Overview; Addison-Wesley, ISBN-10: 0201781301
2. Sanders; Computers Today; McGraw Hill, ISBN 9780070547018