CURRICULUM

OF

POLITICAL SCIENCE
BS (4-YEAR)

2008

HIGHER EDUCATION COMMISSION
ISLAMABAD
CURRICULUM DIVISION, HEC

Dr. Syed Sohail H. Naqvi    Executive Director
Prof. Dr. Riaz ul Haq Tariq   Member (Acad)
Miss Ghayyur Fatima   Deputy Director (Curri)
Mr. M. Tahir Ali Shah   Assistant Director
Mr. Shafiullah Khan   Assistant Director
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PREFACE

Curriculum development is a highly organized and systematic process and involves a number of procedures. Many of these procedures include incorporating the results from international research studies and reforms made in other countries. These studies and reforms are then related to the particular subject and the position in Pakistan so that the proposed curriculum may have its roots in the socio-economics setup in which it is to be introduced. Hence, unlike a machine, it is not possible to accept any curriculum in its entirety. It has to be studied thoroughly and all aspects are to be critically examined before any component is recommended for adoption.

In exercise of the powers conferred by sub-section (1) of section 3 of the Federal Supervision of Curricula Textbooks and Maintenance of Standards of Education Act 1976, the Federal Government vide notification No. D773/76-JEA (cur.), dated December 4th 1976, appointed the University Grants Commission as the competent authority to look after the curriculum revision work beyond class XII at the bachelor level and onwards to all degrees, certificates and diplomas awarded by degree colleges, universities and other institutions of higher education.

In pursuance of the above decisions and directives, the Higher Education Commission (HEC) is continually performing curriculum revision in collaboration with universities. According to the decision of the special meeting of Vice-Chancellor’s Committee, the curriculum of a subject must be reviewed after every 3 years.

A committee of experts comprising of conveners from the National Curriculum Revision of HEC in Basic, Applied Social Sciences and Engineering disciplines met in April 2007 and developed a unified template to standardize degree programs in the country to bring the national curriculum at par with international standards, and to fulfill the needs of the local industries. It also aimed to give a basic, broad based knowledge to the students to ensure the quality of education. The new BS degree shall be of 4 years duration, and will require the completion of 130-136 credit hours. For those social sciences and basic sciences degrees, 63.50% of the curriculum will consist of discipline specific courses, and 36.50% will consist of compulsory courses and general courses offered through other departments.

For the purpose of curriculum revision various committees are constituted at the national level, comprising of senior teachers nominated by universities, degree awarding institutions, R&D organizations and respective accreditation councils. The National Curriculum Revision Committee for Political Science in a meeting held on May 27-28, 2008 at
HEC, Islamabad in continuation of its earlier meeting held on April 7-9, 2008 at HEC Regional Center, Peshawar revised the curriculum in light of the unified template. The final draft prepared by the National Curriculum Revision Special Committee, duly approved by the competent authority, is being circulated for implementation in the concerned institutions.

DR. RIAZ-UL-HAQ TARIQ
Member Academics

June 2008
Abbreviations Used:
NCRC. National Curriculum Revision Committee
VCC. Vice-Chancellor's Committee
EXP. Experts
COL. Colleges
UNI. Universities
PREP. Preparation
REC. Recommendations
LI Learning Innovation
R&D Research & Development Organization
HEC Higher Education Commission
INTRODUCTION

The final NCRC meeting in Political Science was held on May 27-28, 2008 at Mural Hall, HEC, Islamabad, which was a follow up of preliminary meeting held on April 7-9, 2008 at HEC Regional Center, Peshawar.

The following attended the meetings:

1. Dr. Taj Moharram Khan
   Professor,
   Department of Political Science,
   University of Peshawar. Peshawar.
   Convener

2. Prof. Bashir Ahmad Sheikh
   Department of Political Science
   University of Sindh, Jamshoro
   Member

3. Mr. Amir Ali Chandio
   Associate Professor
   Department of Political Science,
   Shah Abdul Latif University,
   Khairpur.
   Member

4. Prof. Dr. A. Z. Hilali
   Chairman
   Department of Political Science,
   University of Peshawar. Peshawar.
   Member

5. Dr. Muhammad Ijaz Latif
   Assistant Professor,
   Department of Political Science & IR,
   The Islamia University of Bahawalpur,
   Bahawalpur
   Member

6. Dr. Tauqir Alam
   Assistant Professor,
   Department of Political Science,
   Islamia College University,
   Peshawar.
   Member

7. Mr. Mumtaz Ali Baloch
   Assistant Professor,
   Department of Political Science,
   University of Balochistan, Quetta.
   Member
On April 7, 2008 the preliminary meeting started with recitation of verses from the Holy Quran by Dr. Taj Moharram Khan, Professor, Department of Political Science, University of Peshawar. Mr. Shafiullah Khan, Assistant Director (Curriculum) HEC Islamabad requested the participants to develop BS (4-year) programme according to the standardized template agreed upon during the meeting of Conveners of NCRC on April 30, 2007 at HEC, Islamabad. The Committee unanimously selected Professor Dr. Taj Moharram Khan as Convener and Professor Dr. Ishtiaq Ahmed Chaudhry as Secretary of the meeting.

Dr. Taj Moharram Khan, in his opening remarks thanked the members for attending the meeting and requested them to put forward their suggestions/improvement in the draft worked out by them. After agreeing on the papers to be taught at BS level, the contents were thoroughly discussed in the meeting.

After a long discussion a framework and scheme of studies for BS (4-year) in Political Science was developed.

On May 27, 2008 the final NCRC meeting started with recitation of verses from the Holy Quran by Mr. Shafiullah Khan, Assistant Director (Curriculum), HEC. Ms. Ghayyur Fatima, Dy. Director (Curriculum) welcomed the participants and requested them to develop course outlines according to HEC format.

OBJECTIVES OF BS 4 YEAR INTEGRATED PROGRAM IN POLITICAL SCIENCE

State is an alternative term used for a politically organized society. The question whether a society is politically organized or otherwise is dependent on the extent to which the citizens, as one of the constituent elements of state, are conscious of their rights and duties towards the polity.

The 4 year Integrated Program for BS in Political Science seeks to achieve the aforesaid objectives. It is designed to streamline the
education of Political Science in Pakistan and bring it in line with the international standard. The course is designed to broaden the knowledge of graduates in diverse fields of political science. For this purpose, different streams of specialization have been provided to be opted by the students in the last two semesters. Apart from the numerous objectives listed below, the program aims at the development of an educated community which is equipped with the potentials to cope effectively with the challenges of modern world.

Educational objectives of the BS 4 year integrated program: -

1. To educate and train the students and make them conscious of their rights and obligations towards the society. Such a knowledge will facilitate their active participation in State business;

2. To familiarize the students with the manner in which the game of politics is played locally, nationally and internationally.

3. To develop among the students the ability to apply an interdisciplinary approach to the study of state related problems and suggest viable solutions.

4. To expand and sharpen the intellectual capacity of students through familiarizing them with the introductory / foundation courses and steadily moving towards the major / advanced stages;

5. To offer to the students varieties of choices wherefrom to select areas for specialization later at the Masters, M.Phil and doctoral levels.

6. To inculcate among the students the practice of making comparisons by placing before them differing views that Islam and the West offer on various aspects of state and government;

7. To enable the students know the difference (if any) between the theory and practice of various state processes, pinpoint the causative factors and develop the know-how to bridge the gaps;

8. To disseminate to the students necessary knowledge of politics and administration and enable them to be effective managers irrespective of the professions they join later on.
### STANDARDIZED FORMAT / SCHEME OF STUDIES FOR BS (4-YEAR) IN POLITICAL SCIENCE

#### STRUCTURE

<table>
<thead>
<tr>
<th>Sr.</th>
<th>Categories</th>
<th>No. of courses</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Compulsory Requirement (No Choice)</td>
<td>9</td>
<td>25</td>
</tr>
<tr>
<td>2.</td>
<td>General Courses to be chosen from other departments</td>
<td>7</td>
<td>21</td>
</tr>
<tr>
<td>3.</td>
<td>Discipline Specific Foundation Courses</td>
<td>9</td>
<td>32</td>
</tr>
<tr>
<td>4.</td>
<td>Major Courses including research project/Internship</td>
<td>12</td>
<td>40</td>
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<tr>
<td>5.</td>
<td>Electives within the major</td>
<td>4</td>
<td>12</td>
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<td><strong>Total</strong></td>
<td><strong>41</strong></td>
<td><strong>130</strong></td>
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> Total numbers of Credit hours 130
> Duration 4 years
> Semester duration 16-18 weeks
> Semesters 8
> Course Load per Semester 15-18 Cr hr
> Number of courses per semester/practical courses 4-6 (not more than 3 lab
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<th>Cr. hr</th>
<th>Subject</th>
<th>Cr. hr</th>
<th>Subject</th>
<th>Cr. hr</th>
<th>Subject</th>
<th>Cr. hr</th>
<th>Subject</th>
<th>Cr. hr</th>
<th>Subject</th>
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<tr>
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<td>1. Economics</td>
<td>03</td>
<td>1. Introduction to Pol. Science – I</td>
<td>03</td>
<td>1. Introduction to International Relations.</td>
<td>03</td>
<td>1. Diplomacy</td>
<td>03</td>
<td></td>
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<tr>
<td>4. English – IV *</td>
<td>03</td>
<td>4. Psychology</td>
<td>03</td>
<td>4. Political Systems (Developing)</td>
<td>04</td>
<td>4. History of International Relations- I</td>
<td>04</td>
<td>4. Local Govt. in Pakistan/ Comparative Local Govt.</td>
<td>03</td>
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<td>5. Pakistan Studies</td>
<td>02</td>
<td>5. History of Civilization</td>
<td>03</td>
<td>5. Western Political Philosophy - I</td>
<td>04</td>
<td>5. Public International Law – I</td>
<td>03</td>
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<tr>
<td>6. Islamic Studies / Ethics.</td>
<td>02</td>
<td>6. Everyday Science</td>
<td>03</td>
<td>6. Western Political Philosophy - II</td>
<td>04</td>
<td>6. Public International Law -II</td>
<td>03</td>
<td></td>
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<td>8. Maths. – II **</td>
<td>03</td>
<td>8. Muslim Political Philosophy –II</td>
<td>03</td>
<td>8. Foreign Policy Analysis</td>
<td>03</td>
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<td></td>
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<td>10. International Organization s.</td>
<td>03</td>
<td>11. Political Ideologies</td>
<td>03</td>
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<td></td>
<td></td>
<td></td>
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<tr>
<td>12. Political Economy</td>
<td>03</td>
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* University has the option to recommend any other course in lieu of English IV
** University may recommend any other course in lieu of Mathematics II
SCHEME OF STUDIES FOR BS (4 YEAR) IN POLITICAL SCIENCE

1ST YEAR

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<th>Credit Hours</th>
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</tr>
<tr>
<td>2</td>
<td>Islamic Studies</td>
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</tr>
<tr>
<td>3</td>
<td>Introduction to Political Science-I</td>
<td>3</td>
</tr>
<tr>
<td>4</td>
<td>Mathematics-I</td>
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<td>5</td>
<td>General-I</td>
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<td>General-II</td>
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<th>Credit Hours</th>
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<tbody>
<tr>
<td>1</td>
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<td>2</td>
<td>Pakistan Studies</td>
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<td>3</td>
<td>Introduction to Political Science-II</td>
<td>3</td>
</tr>
<tr>
<td>4</td>
<td>Mathematics-II*</td>
<td>3</td>
</tr>
<tr>
<td>5</td>
<td>General-III</td>
<td>3</td>
</tr>
<tr>
<td>6</td>
<td>General-IV</td>
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2ND YEAR

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<td>English-III</td>
<td>3</td>
</tr>
<tr>
<td>2</td>
<td>Introduction to Basics in Computer</td>
<td>3</td>
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<td>Political Systems (Developed)</td>
<td>4</td>
</tr>
<tr>
<td>4</td>
<td>General-V</td>
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<td>General-VI</td>
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<th>Credit Hours</th>
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<tr>
<td>1</td>
<td>English-IV**</td>
<td>3</td>
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<tr>
<td>2</td>
<td>Political Systems (Developing)</td>
<td>4</td>
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<td>3</td>
<td>Pakistan Movement</td>
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<td>4</td>
<td>Introduction to International Relations</td>
<td>3</td>
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<tr>
<td>1</td>
<td>Western Political Philosophy-I</td>
<td>4</td>
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<tr>
<td>2</td>
<td>Muslim Political Philosophy-I</td>
<td>3</td>
</tr>
<tr>
<td>3</td>
<td>Comparative and Developmental Politics-I</td>
<td>4</td>
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<td>4</td>
<td>Political Ideologies</td>
<td>3</td>
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<tr>
<td>5</td>
<td>Public Administration</td>
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<th>Semester-VI</th>
<th>Credit Hours</th>
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<td>Western Political Philosophy-II</td>
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<td>2</td>
<td>Muslim Political Philosophy-II</td>
<td>3</td>
</tr>
<tr>
<td>3</td>
<td>Comparative and Developmental Politics-II</td>
<td>3</td>
</tr>
<tr>
<td>4</td>
<td>History of International Relations</td>
<td>4</td>
</tr>
<tr>
<td>5</td>
<td>Introduction to Local Government</td>
<td>3</td>
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<td>Total</td>
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### 4th YEAR

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<td>Methods of Study and Research</td>
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<tr>
<td>2</td>
<td>Foreign Policy Analysis</td>
<td>3</td>
</tr>
<tr>
<td>3</td>
<td>Public International Law-I</td>
<td>3</td>
</tr>
<tr>
<td>4</td>
<td>Diplomacy</td>
<td>3</td>
</tr>
<tr>
<td>5</td>
<td>Foreign Policies of UK, USA</td>
<td>3</td>
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<tr>
<td>Total</td>
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<th>Credit Hours</th>
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<tr>
<td>1</td>
<td>Public International Law-II</td>
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</tr>
<tr>
<td>2</td>
<td>International Organizations</td>
<td>3</td>
</tr>
<tr>
<td>3</td>
<td>Political Economy</td>
<td>3</td>
</tr>
<tr>
<td>4</td>
<td>Local Government in Pakistan</td>
<td>3</td>
</tr>
<tr>
<td>Total</td>
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<td>12</td>
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Total Cr hrs = 130
LISTS OF ADDITIONAL GENERAL MAJOR AND ELECTIVE COURSES

LIST OF GENERAL COURSES:

1. Community Organization & Development;
2. Development Economics;
3. Environmental Sciences;
4. Everyday Science;
5. Feminist Theories;
6. Feminist Movements;
7. Gender and Development;
8. Gender and Human Rights;
9. Historical and Contemporary Psychology;
10. History of Civilizations;
11. International Finance;
12. Introduction to Basics in Computer;
13. Introduction to Micro-Economics – I;
15. Introduction to Macro-Economics – I;
16. Introduction to Macro-Economics – II;
17. Introduction to Geography;
18. Introduction to Gender Studies;
19. Introduction to Law;
20. Introduction to Psychology;
21. Introduction to Social Work;
22. Introduction to Journalism;
23. Labour Welfare and Industrial Relations;
24. Language (any of the national / regional languages other than that of the candidate’s mother tongue);
25. Learning, Cognition and Motivation;
26. Logic / Philosophy;
27. Monetary Economics;
28. Principles of Sociology;
29. Social Institutions and Social Systems of Pakistani Society;
30. Sociology of Environment;
LIST OF ELECTIVE COURSES

International Affairs:
1. International Law – I
2. International Law – II
3. International Organizations
4. Regional Organizations
5. Politics of International Economic Relations
6. Foreign Policy of UK, USA
7. Foreign Policies of Pakistan and India compared
8. Muslim International / Regional Organizations.

Pakistan Affairs:
1. Pakistan Movement
2. Constitutional Development in Pakistan since 1947;
3. Political Parties and Elections in Pakistan;
4. Civil Service of Pakistan / Bureaucracy in Pakistan;
5. Military in Pakistan;
6. Local Government in Pakistan;
7. Pakistan in Regional Affairs;
8. Pakistan in World Affairs;
9. Problems of Governance in Pakistan;
10. Public Administration in Pakistan;
11. NGOs in Pakistan;
12. Pakistan’s Foreign Policy;

Public Administration:
1. Public Policy Analysis;
2. Issues in Public Finance;
3. Personnel Administration;
4. Issues in Central – Provincial Relations.

LIST OF MAJOR COURSES
1. Political Systems of China and Malaysia;
2. Political Systems of Russian Federation and European Union;
3. Contemporary Theories of Comparative Governments;
4. Political Systems of South-East Asia (Philippines, Malaysia and Indonesia);
5. Comparative Political Systems of the Middle East (Egypt, Iraq, UAE and Israel);
6. South-Asian Political Systems (India, Bangladesh and Sri Lanka);
7. Political Systems of Europe (Germany, Switzerland and Albania)
DETAILS OF COURSES FOR BS (4 YEAR)
IN POLITICAL SCIENCE

Students at this stage will study Political Science as a component of common courses.

YEAR - I

<table>
<thead>
<tr>
<th>Semester-I</th>
<th>INTRODUCTION TO POLITICAL SCIENCE-I</th>
<th>03 Cr. Hrs.</th>
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</table>

Objectives:
The objective of this course is to introduce the students with the fundamentals of the subject of Political Science and prepare them for advanced studies in the forthcoming semesters. The very basic concepts and terminology commonly used in the further courses of studies are taught to make the students friendly with the subject.

Contents:
2. Relationship of Political Science with other social sciences.
3. Approaches to the study of Political Science: Traditional and Modern.
4. Basic concepts of Political Science: Power, Authority, Legitimacy, Nation and Sovereignty.
5. State: its origin and evolution; Western and Islamic concepts of State, Forms of State: Unitary, Federation, Confederation.

Note: Sub-fields of Political Science include: Political Philosophy/Theory; Comparative Politics; International Relations; Public Administration/ Public Policy; Local Government, etc.

Recommended Books:
2. Sheikh Bashir Ahmad, Riyasat Jo Ilm (Sindhi meaning Science of State), Jamshoro, Institute of Sindhalogy, University of Sindh, 1985.

| Semester-II | INTRODUCTION TO POLITICAL SCIENCE-II | 03 Cr. Hrs. |

Objectives:

This course is the continuation of Political Science-I. It mainly emphasizes on the functional aspects of the politics in a society. The students are to be enabled to understand the functioning of the political system, study its various components and actors influencing this functioning.

Course Contents:

1. Political System: Definition, Characteristics and Functions.
2. Law: Definition, Sources, kinds; its relationship with Morality, individual Liberty and Rights & Duties.
4. Political Parties: Kinds, Structures, Functions,
5. Interest Groups: Kinds, Functions, Relationship with political parties.
8. Political Ideologies: Liberalism, Fascism, Nazism, Socialism, Marxism, Nationalism.

Recommended Books:

2. Sheikh Bashir Ahmad, Riyasat Jo Ilm (Sindhi meaning Science of State), Jamshoro, Institute of Sindhalogy, University of Sindh, 1985.

YEAR – 2

<table>
<thead>
<tr>
<th>Semester-III</th>
<th>POLITICAL SYSTEMS (DEVELOPED) UK &amp; USA</th>
<th>03 Cr. Hrs.</th>
</tr>
</thead>
</table>

Objectives:
The course is designed to give an understanding to the students about the functioning of the developed political systems and their structure. In this course efforts are made to cover the various aspects of Political Systems of UK and USA. The purpose of this course is to generate awareness among the students about the actual functioning of these political systems. This study will enable them to compare any other political system and find out the reasons of its malfunctioning and solution of various problems faced in it.

Course Contents:
Following aspects of the political systems of UK and USA shall be studied.

1. Historical background and development;
2. Constitutional/legal foundations of the system;
3. Political process and political recruitment;
a. Political parties and pressure groups
b. Functioning of the organs of the government: legislature, executive and judiciary
c. Political environmental factors influencing the politics such as geographic, socio-economic, international scenario, media etc.

4. Political culture

Recommended Books:
10. Thomas E. Patterson, The American Democracy, Boston, McGraw Hill College, 1999

<table>
<thead>
<tr>
<th>Semester-IV</th>
<th>POLITICAL SYSTEMS (DEVELOPING) PAKISTAN, INDIA, TURKEY AND IRAN</th>
<th>03 Cr. Hrs.</th>
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</thead>
</table>

Objectives:
This course is designed to enable the students for a comparative study of the political systems of Pakistan, India, Turkey and Iran. This study will not only provide the students with basic knowledge about the actual functioning of these political systems, but also enable them to make a meaningful comparison among any of the countries and find out the reasons of malfunctioning, if any.
Course Contents:
Following aspects of the political systems of the Countries under reference shall be studied: -
1. Historical background and development;
2. Constitutional/legal foundations of the system;
3. Political process:
   a. Political parties and pressure groups;
   b. Functioning of the organs of the government: legislature, executive and judiciary
   c. Political environmental factors influencing the politics such as geographic, socio-economic, international scenario, media etc.
4. Political culture: Salient features, public participation, ideological orientations, nature of civil-military relations.

Recommended Books:
1. Iqbal Ahmad (Ed.) The Islamic Revolution in Iran, Lahore, 1980.
4. Ergun Ozbudun, Contemporary Turkish Politics: Challenges to Democratic Consolidation (Lynner Liener 2000)
6. M.P Singh, Indian Political System (Manak Publishers, N.D)

Objectives:
The course is designed to generate awareness among the students regarding genesis of Pakistan, constitutional and political evolution in the Indo-Pak sub continent. It will enable the students to determine the real
objectives of the struggle of Indian Muslims in the first half of 20th century.

**Course Contents:**

1. Establishment of British Raj and its impact on Indian Muslims;
2. Politics of All Indian National Congress and Muslim grievances;
3. Gradual involvement of the Muslims in Indian political processes and the role played by eminent Muslim leaders;
4. All India Muslim League: Objectives and priorities
5. Initiatives towards the establishment of responsible government (1914-1935);
6. Fluctuating trends in the subsequent developments in Pakistan movement;
7. The second world war and its impact on Pakistan Movement;
8. The Cripps Mission and Congress revolt, Jinnah-Gandhi talks, Simla conference and elections, the Cabinet Mission;
9. The Interim government and transfer of power.

**Recommended Books:**


**YEAR – 3**

<table>
<thead>
<tr>
<th>Semester-V</th>
<th>WESTERN POLITICAL PHILOSOPHY-I</th>
<th>03 Cr. Hrs.</th>
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**Objectives:**

This course is designed to provide students grounding in evolution of Greek Political thought and institutions. The significance of this course is that Greek philosophy and institutions provided the basis for further development of the political studies.
Course Contents:

1. Political Institutions in ancient Greece
2. The Philosophy of Socrates
3. Political Philosophy of Plato
4. Political Philosophy of Aristotle

Recommended Books:


<table>
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<tr>
<th>Semester-V</th>
<th>MUSLIM POLITICAL PHILOSOPHY-I</th>
<th>03 Cr. Hrs.</th>
</tr>
</thead>
</table>

Objectives:

This course is designed to acquaint the students with the major political concepts of Islam, the structural functional aspect of Islamic polity, the writings of prominent Muslim thinkers with the prospects relating to the application of Islamic principles to modern times.

Contents:

a) The Political Concepts and Institutions in Islam

1. Khilafat
2. Shura
3. Justice (Adl)
4. Sovereignty
5. Equality
6. Status of Minorities in an Islamic States

b) Muslim Political Thinkers:

1. Al-Mawardi
2. Al-Farabi
3. Al-Ghazali
4. Ibn-e-Taymiya
5. Ibn-e-Khaldun
6. Shah Waliullah
Recommended Books:
4. Rashid Ahmad, *Muslmano Kay Siasy Afkar* (Urdu), Lahore, Urdu Bazar
7. Muqadema Ibne Khaldoon (Urdu Translation)
8. Ibne Taymiya, *Siyasatu Shariya* (Urdu Translation)

Objectives:
The objective of this course is to make the students aware about the basic concepts and terminology often used in the study of political systems and processes commonly in all the societies. Further, the students are to be prepared for making meaningful comparisons of various political systems with reference to their political functions, structures, cultures, development, processes etc.

Course Contents:
1. Approaches to comparative politics:
   a. Traditional approach of its characteristics and critique.
   b. Behavioral approach, its characteristics and critique.
2. Political system: definition, characteristics and functions. A detailed study of the models of political systems given by David Easton, and Almond Coleman.
3. Political Culture: meanings and scope, various kinds of political culture with reference to mass participations and civil-military relations.

Recommended Books:

<table>
<thead>
<tr>
<th>Semester –V</th>
<th>INTRODUCTION TO INTERNATIONAL RELATIONS</th>
<th>03 Cr. Hrs</th>
</tr>
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</table>

**Objectives:**

The course is designed to focus on the dynamics of International Relations, national interests, power factor and state behavior as a guide to understand the nature of real politick. The course will enable the students to analyze the basic approaches and fundamental concepts of International Relations.

**Course Outline:**

1. Introduction, Nature and Scope of International Relations;
2. Approaches to the Study of International Relations:
   a) Realism
   b) Idealism (Liberalism)
   c) Behaviouralism.
3. Modern State System and Sovereignty;
4. Doctrine of Power in International Relations:
   a) Elements of Power
   b) Balance of Power.
5. National Interests in International Relations
6. Concept of Nationalism;
7. Concept of Diplomacy
   a). Status of diplomacy during cold war;
   b). Status of diplomacy in the post cold war era;
   c). Status of diplomacy after 9/11.

8. Ideologies in the 21st century:
   a). Clash of civilization (Islam vs the West);
   b). End of History.

**Recommended Books:**


<table>
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<tr>
<th>Semester –V</th>
<th>PUBLIC ADMINISTRATION</th>
<th>03 Cr. Hrs</th>
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</table>

**Objectives:**

The course is designed to familiarize the students with the fundamentals of government and administration. Students will thus gain knowledge regarding the practical working of government as the functional arm of the state. This will also enable the students to become successful managers regardless of the fields they opt for as their future careers.
Course Contents:
1. Definition, Scope, Relationship with other Social Sciences, Public and Private Administration.
3. Rise of Big Government and the Contributory Factors;
4. Bureaucracy, Concept, Nature and Functions, Max Weber’s Ideal type, Criticism and the Changing View of Bureaucracy;
5. Functional Elements of administration:
   a). Organization, its types, principles and theories;
   b). Planning, Rationale and Principles;
   c). Personnel Administration, its techniques and functions;
   d). Communication, types and channels.
6. Decision Making: Models and Processes;
7. Administrative Accountability: the role of legislature, judiciary, public advocacy groups, ombudsman and the media.

Recommended Books:
Objectives:
This course is continuation of “Western Political Philosophy-I”. It is designed to provide further understanding among the students regarding an evolution of Western Political thoughts in medieval and modern period. It deals with the political philosophy of the most representative thinkers of major political movements.

Course Contents:
1. Machiavelli;
2. Hobbes;
3. Locke;
4. Rousseau;
5. Bentham;
6. J.S. Mill;
7. Hegel;
8. Karl Marx and Lenin;
9. Laski

Recommended Books:
Objectives:
This course is continuation of “Muslim Political Philosophy-I”. It is designed to acquaint the students with the major political concepts of Islam, the structural functional aspect of Islamic polity, the writings of prominent Muslim thinkers with the prospects relating to the application of Islamic principles to modern times.

Course Contents:
1. Muhammad Iqbal
2. Jamaluddin Afghani
3. Muhammad Abduh
4. Ubaidullah Sindhi
5. Abul Aala Maudoodi
6. Syed Qutb
7. Hasan Turabi

Recommended Books:
5. H. K. Sherwani, Studies in Muslim Political Thought and Administration, Karachi, A.B. Corporation.
7. Manzooruddin Ahmad, Islamic Political System in Modern Age, Karachi, Saad Publications
8. Rashid Ahmad, Musalmano Kay Siasy Afkar (Urdu), Lahore, Urdu Bazar
Objectives:
This course is in continuation of “Theory of Comparative and Developmental Politics-I”. Its purpose is to acquaint the students with a broader framework within which a political system develops, the various theories put forward and models designed. The role played in the process by elite institutions such as civil and military bureaucracies will also be taken into account.

Course Contents:
1. Political Development: meanings of Political Development and common characteristics.
2. Indicators of Political Development;
3. Socio-political change and Modernization: Major Theories and their Functional Implications;

Recommended Books:

Objectives:
The course deals with the study of important events in International Relations and provides a survey on different empirical perspectives of International Relations. The main objective is to integrate theory and
policy in the context of specific historical cases in international politics.

Contents:

1. Origin and development of International Relations;
2. International Relations between the two world wars;
3. Origin and causes of World Wars I and II;
4. Developments in International Politics in the Post-World War -II era;
5. Origin and causes of the Cold War;
6. End of Cold War and its implications;
7. Collapse of the Soviet Union and the New World Order;
9. Contemporary issues in International Relations:
   a). Terrorism;
   b). Religion and Politics;
   c). Globalization;
   d). Nuclear Proliferation.

Recommended Books:

Objectives:
The main objective of this course is to generate awareness among the students about the significance of Local Government and basic dynamics of the system. It will provide to the students the parameters and analytical framework for study of any individual system or comparison among various systems of local governments.

Contents of the Course:
1. Meaning, Nature and Scope of Local Government;
2. Difference between Local Government and Local self-government;
3. Approaches to the study of Local Government;
4. Central-Local Government Relations and its implications on the performance of Local Institutions;
5. Kinds of transfer of powers at the local level: Decentralization, Deconcentration and Devolution;
6. Local Government Finance;
7. Problems of Local Government in the Developing Countries.

Recommended Books:
YEAR – 4

In the 4th year, a student will be required to study five courses. One of these entitled: Methods of Study and Research will be a compulsory course. Four other can be chosen from a list of advanced courses.

<table>
<thead>
<tr>
<th>Semester –VII</th>
<th>METHODS OF STUDY &amp; RESEARCH</th>
<th>03 Cr. Hrs</th>
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Objectives:

This course aims at the dissemination of knowledge about the scientific methods of study and conduction of research. The course is specifically designed to serve the needs of postgraduate students in general, and the students with scholastic bent of mind, in particular who intend to go for higher education. A familiarity with latest / modern methods of study and the basic skills of research will facilitate the future assignments of would-be scholars. Tutors of this course should ask the students to prepare their semester assignments with the application of basic research techniques.

Course Contents:

1. Approaches to the Study of Political Science:
   a) Normative;
   b) Positivistic;
   c) Disciplinary;
   d) Intra-Disciplinary;
   e) Behavioral

2. Methods:
   a) Comparative;
   b) Analytical;
   c) Deductive / Inductive;
   d) Quantitative / Qualitative;
   e) Scientific.

3. Scientific Research:
   a) Concepts;
   b) Theories;
   c) Facts;
   d) Laws;
   e) Generalization;
   f) Prediction.

4. Research:
   a) Meaning, Kinds and Importance;
5. Steps involved in Research Process:
   a) Selection of the problems;
   b) Hypothesis;
   c) Research Design (Components);
   d) Techniques for the collection of data – Observation, Interviews, Questionnaires, Scrutiny of Documents;
   e) Sampling, Sampling Design;
   f) Application of Computer.

**Recommended Books:**


**Semester – VII**  **FOREIGN POLICY ANALYSIS**  **03 Cr. Hrs**

**Objectives:**

The course is designed to enlighten the students about the concepts and schools of thought in foreign policy analysis, concentrating particularly on the process of decision-making in the International System. The students will study the foreign policies of selected countries in order to understand the policy debate in the light of great power actions and weak state problems.

**Course Contents:**

1. Conceptual Framework of Foreign Policy: Definition and its Tools;
2. Various Approaches to the Study of Foreign Policy;
3. Kinds of Foreign Policy:
   a). Ethical
   b). Offensive
   c). Traditional
   d). Radical
   e). Pragmatic.
4. Structure and nature of International Politics;
5. Economics as an Instrument in International Politics;
6. State Strengths and Weaknesses: Limitations of State Actions;
7. Process of formulation of Foreign Policy in developed and developing countries;
8. Foreign Policy: Determinants and Objectives;
9. Radical Changes in Foreign Policy after 9/11;

**Recommended Books:**

Objectives:

Objective of this course is to generate awareness among the students regarding the nature, evolution, development and application of International Law among the members of the international community such as states, international institution and individuals. This course also addresses the issue of practicability of International Law.

Course Contents:

1. Definition, Nature and Scope of International Law, Binding Nature of International Law, Two Schools of Thoughts about the Reality of International Law.
2. Origin and Development of International Law, Theories of International Law, Relationship between International and Municipal Laws.
3. Sources of International Law.
5. State as International Actor: Pre-requisites of statehood, kinds of states.
6. Recognition of state and government, De Jure and De facto Recognition, Legal effects of recognition, Recognition of insurgency and belligerency and its impacts.
7. State succession and its effects.
8. State Sovereignty: Acquisition of Territorial Sovereignty.
9. State Jurisdiction: Territorial Jurisdiction, Jurisdiction over maritime belt, contiguous zones, continental shelf, Jurisdiction over high seas, right of hot pursuit on high seas, Jurisdiction over airspace and outer space.

Recommended Books:


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<tr>
<th>Semester –VIII</th>
<th>PUBLIC INTERNATIONAL LAW – II</th>
<th>03 Cr. Hrs</th>
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</table>

**Objectives:**

This course is the continuation of the International Law-I. Its purpose is to give an understanding to the students regarding the legal framework for mutual interaction of the states, both in times of peace and war. It also covers the legal issues of individuals such as nationality, asylum, extradition etc.

**Course Contents:**

1. Individuals in International Law: Nationality, Conflict of Nationality Laws, Acquisition and loss of nationality.
2. International Humanitarian Law.
3. Extradition: Conditions and states’ practices, offences exempted from extradition.
4. Asylum, territorial and extra-territorial asylum, humanitarian aspect of asylum in international law.
8. Laws of War and Armed Conflicts; Difference between Combatants
and Non-Combatants, Lawful and Unlawful Combatants; Rights of Prisoners of War; War and Human Rights.

9. Islamic Concept of Law of War, and rights and duties of belligerent parties.

10. Concept of Neutrality and Quasi-Neutrality; Difference between Neutral and Neutralized States; Rights and Duties of Neutral and belligerent States.

11. International Law and the present day challenges.

Recommended Books:

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<tr>
<th>Semester-VII</th>
<th>FOREIGN POLICY OF PAKISTAN</th>
<th>03 Cr. Hrs.</th>
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Objectives:

The course aims at introducing students the structure of Pakistan’s foreign policy and giving them an understanding of essential factors which play significant role in formulation of Pakistan’s foreign policy. It highlights basic determinants, principles and objectives of Pakistan’s foreign policy with an emphasis upon analysis of Pakistan’s relations with other countries.

Course Outline:

1. Definition and development of foreign policy
2. Essential factors for strong foreign policy
a. Political stability  
b. Economic development  
c. Military strength  

3. Determinants of Pakistan’s foreign policy  
4. Principles of Pakistan’s foreign policy  
5. Objectives of Pakistan’s foreign policy  
6. Different phases of Pakistan’s foreign policy  
7. Pakistan’s alignment with the west  
8. Kashmir problem and Indo-Pak peace process  
9. Nuclear issue  
10. Pakistan’s relation with other countries especially USA, China, Iran, Afghanistan and India.

Recommended Books:

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<tr>
<th>Semester-VII</th>
<th>DIPLOMACY</th>
<th>03 Cr. Hrs.</th>
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Objectives:

The course endeavors to develop an understanding of the concept of diplomacy, its kinds and learning of negotiation techniques and strategies. Through its study, the students would acquire first hand
knowledge and insight into the process and diplomatic methods. It also focuses upon analyzing diplomatic procedures as an integral part of diplomatic practices and diplomatic missions.

**Course Outline:**

1. Evolution and development of diplomacy
2. Kinds of diplomacy and various methods of its implementation
   a. Environmental diplomacy
   b. Public diplomacy
3. Diplomacy since World War-II
4. Techniques of diplomacy and crisis management
5. The art of negotiations
   a. Negotiation process
      i. Preliminaries
      ii. Substantives negotiations
   b. Negotiation techniques
6. Diplomatic institutions
   a. Consular immunities and privileges
   b. Diplomatic missions: functions and organization
7. Diplomacy in Islam

**Recommended Books:**

### Semester-VII

<table>
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<tr>
<th>FOREIGN POLICIES OF USA AND UK</th>
<th>03 Cr. Hrs.</th>
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**Objectives:**

**Contents:**

A Comparative Study of Foreign Policies of US and UK is to be made with special emphasis on the determinants, objectives and diplomatic strategies of these countries.

**Recommended Books:**


### Semester-VIII

<table>
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<tr>
<th>LOCAL GOVERNMENT IN PAKISTAN</th>
<th>03 Cr. Hrs.</th>
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**Objectives:**

The objective of the course is to acquaint the students about the basic concepts of local government system and the essentials required for its successful functioning. It would deal with the historical development of local government in Pakistan.

**Contents:**

4. Planning and Functional Structures of Local Governments
5. Sustainability Problem of Local Governments

**Recommended Books:**

Semester: VIII

INTERNATIONAL ORGANIZATIONS

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<th>Semester:</th>
<th>INTERNATIONAL ORGANIZATIONS</th>
<th>03 Cr. Hrs.</th>
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Objectives:

This course intends to give an insight to the students into the multiple roles of the international organizations in the world politics. It would enable the students to have an understanding about the impact and working of these bodies on the international as well as regional issues.

Course Contents:

1. Conceptual framework of International Organizations
2. Origin and Development of International Organizations
3. League of Nations: formation, functioning and causes of failure
4. United Nations: formation, functioning aims and objectives
5. UN and its specialized agencies
6. The role of UN in collective security, preventive diplomacy, peacekeeping operations
7. Future of UN

Recommended Books:


REGIONAL ORGANIZATIONS 03 Cr. Hrs.

Objectives:
This course has been designed to give a clear understanding to the students about the nature, role, importance, needs and evolution of the concept of regional organizations. It also explains the impact of regional organizations in the world politics.

Course Contents:
1. NATO
2. European Union (EU)
3. Association of South East Asian Nations (ASEAN)
4. South Asian Association for Regional Cooperation (SAARC)
5. Economic Cooperation Organization (ECO)
6. Organization of Islamic Conference (OIC)
7. Non-Aligned movement (NAM)
8. Gulf Cooperation Council (GCC)
9. The African Union
10. Shanghai Cooperation Organization (SCO)

Recommended Books:
5. Louise Fawcett and Andrew Hurrell, Regionalism in World Politics: Regional Organization and International Order, 1996
9. Sajid Iqbal, An Introduction to International Organizations: the
Objectives:
This course seeks to develop an understanding among the students about the leading world ideologies that have been shaping the destiny of masses since centuries. Students will be educated about the characteristics of each of the listed ideologies and their impact on state systems, inter-state conflicts and cooperation.

Contents:
1. Capitalism
2. Socialism
3. Marxism
4. Democracy
5. Islamic Ideology and Nationalism

Recommended Books:
8. Ebenstein, Modern Political Thought
9. Herman, Judd, Political Thought from Plato to Present
10. Joad, CME, Modern Political Theory
Recommendations:

The members of the National curriculum Revision Committee lauded the contribution of the Higher Education Commission towards the development of Political Science as a discipline and unanimously adopted the following recommendations for the consideration of competent authorities:

1. While the scheme of 4 year integrated program is praiseworthy, universities in Pakistan under the existing circumstances can not be relied upon for the implementation of the scheme. The role of colleges will have to be worked out. All degree level colleges in the country should, therefore, be supplied with the needed resources (manpower and material) so that they can participate meaningfully in the implementation of the proposed 4-year integrated BS program. Every district in Pakistan should have, at least, one male and one female postgraduate college so as to facilitate implementation of the program.

2. For the purposes of uniformity and coordination, there should be an annual meeting of the heads of departments at the HEC head office so that senior professors can assess the progress made and problems faced in the implementation of the program. The forum like this will suggest measures for the removal of obstacles.

3. Though Political Science Departments in the public sector universities have now access to computer facilities, they still lack modern devices of teaching. The provision of laptops and accessories will promote efficiency in teaching process;

4. Access to relevant books is becoming increasingly difficult primarily on account of their high prices. In the interest of students community, text books be arranged on subsidized prices through their publication by the National Book Foundation. Scholars of repute in Pakistan should also be encouraged to write books on matters falling within the domain of Political Science;

5. Political Science Departments have plans to expand the range of their academics by introducing various fields of specialization at the masters level. HEC should assist such departments by making arrangements for additional classrooms and the required teaching staff;

6. Workshops and refresher courses be arranged, at least once in every two years under the auspices of the HEC where teaching faculty can be imparted training regarding the modern methods of teaching. This is particularly necessary for the implementation of the proposed 4-year integrated program in its true spirit;
7. A package be designed for strengthening the capability of those Departments of Political Science which are either new or less developed. The components of Development Package should, beside other things, include: faculty exchange program, provision of scholarships, computers, internet facilities etc.;

8. The members expressed their concern over the poor turnout of the representatives of Political Science Departments in the meetings of NCRC. To make the curriculum revision exercise more meaningful, the HEC should make it obligatory for senior faculty members (Professor / Chairman) to attend such meetings. Further, to encourage the senior faculty, meetings should be held at Islamabad only;

9. A proposal put forward in 2002 regarding the provision of few computers, a printer and a photo copier at the venue of NCRC meeting was renewed. These equipments are essential for the participants to complete the curricular related assignments in time. Internet facility will also facilitate the quick gathering of requisite information;

10. Currently, participants of the meeting are paid just TA/DA and no honorarium. Senior professors attend such meetings while sacrificing their financial gains from other assignments such as part time teaching. A reasonable honorarium be paid to the participants. This will encourage the senior professors to attend and contribute towards a qualitative change in the syllabus.

11. Printed copies of the revised curriculum should be supplied to the departments of Political Science in all public and private sector universities for distribution among faculty members. This will update the knowledge and keep the faculty members abreast with the progress taking place in the development of curriculum under auspices of Higher Education Commission.
Annexure “A”

COMPULSORY COURSES IN ENGLISH FOR BS
(4 YEAR) IN BASIC & SOCIAL SCIENCES

English I (Functional English)

Objectives: Enhance language skills and develop critical thinking.

Course Contents

Basics of Grammar
Parts of speech and use of articles
Sentence structure, active and passive voice
Practice in unified sentence
Analysis of phrase, clause and sentence structure
Transitive and intransitive verbs
Punctuation and spelling

Comprehension
Answers to questions on a given text

Discussion
General topics and every-day conversation (topics for discussion to be at the discretion of the teacher keeping in view the level of students)

Listening
To be improved by showing documentaries/films carefully selected by subject teachers

Translation skills

Urdu to English

Paragraph writing
Topics to be chosen at the discretion of the teacher

Presentation skills
Introduction

Note: Extensive reading is required for vocabulary building

Recommended books:
1. Functional English
   a) Grammar

47
English II (Communication Skills)

Objectives: Enable the students to meet their real life communication needs.

Course Contents

Paragraph writing
Practice in writing a good, unified and coherent paragraph

Essay writing
Introduction

CV and job application
Translation skills
Urdu to English

Study skills
Skimming and scanning, intensive and extensive, and speed reading, summary and précis writing and comprehension

Academic skills
Letter/memo writing, minutes of meetings, use of library and internet

Presentation skills
Personality development (emphasis on content, style and pronunciation)

Note: documentaries to be shown for discussion and review
Recommended books:

Communication Skills

a) Grammar

b) Writing

c) Reading
2. Reading and Study Skills by John Langan

English III (Technical Writing and Presentation Skills)

Objectives: Enhance language skills and develop critical thinking

Course Contents

Presentation skills
Essay writing
Descriptive, narrative, discursive, argumentative

Academic writing
How to write a proposal for research paper/term paper
How to write a research paper/term paper (emphasis on style, content, language, form, clarity, consistency)

Technical Report writing
Progress report writing

Note: Extensive reading is required for vocabulary building
**Recommended books:**

Technical Writing and Presentation Skills

a) Essay Writing and Academic Writing


c) Reading

- The Mercury Reader. A Custom Publication. Compiled by norther Illinois University. General Editors: Janice Neulib; Kathleen Shine Cain; Stephen Ruffus and Maurice Scharton. (A reader which will give students exposure to the best of twentieth century literature, without taxing the taste of engineering students).
Pakistan Studies (Compulsory)

Introduction/Objectives

- Develop vision of historical perspective, government, politics, contemporary Pakistan, ideological background of Pakistan.
- Study the process of governance, national development, issues arising in the modern age and posing challenges to Pakistan.

Course Outline

1. Historical Perspective
   b. Factors leading to Muslim separatism
   c. People and Land
      i. Indus Civilization
      ii. Muslim advent
      iii. Location and geo-physical features.

2. Government and Politics in Pakistan
   Political and constitutional phases:
   a. 1947-58
   b. 1958-71
   c. 1971-77
   d. 1977-88
   e. 1988-99
   f. 1999 onward

3. Contemporary Pakistan
   a. Economic institutions and issues
   b. Society and social structure
   c. Ethnicity
   d. Foreign policy of Pakistan and challenges
e. Futuristic outlook of Pakistan

Books Recommended

Annexure “C”

ISLAMIC STUDIES
(Compulsory)

Objectives:

This course is aimed at:
1. To provide Basic information about Islamic Studies
2. To enhance understanding of the students regarding Islamic Civilization
3. To improve Students skill to perform prayers and other worships
4. To enhance the skill of the students for understanding of issues related to faith and religious life.

Detail of Courses

Introduction to Quranic Studies
1) Basic Concepts of Quran
2) History of Quran
3) Uloom-ul-Quran

Study of Selected Text of Holly Quran
1) Verses of Surah Al-Baqra Related to Faith (Verse No-284-286)
2) Verses of Surah Al-Hujrat Related to Adab Al-Nabi (Verse No-1-18)
3) Verses of Surah Al-Mumanoon Related to Characteristics of faithful (Verse No-1-11)
4) Verses of Surah al-Furqan Related to Social Ethics (Verse No.63-77)
5) Verses of Surah Al-Inam Related to Ihkam (Verse No-152-154)

Study of Selected Text of Holly Quran
1) Verses of Surah Al-Ihzab Related to Adab al-Nabi (Verse No.6,21,40,56,57,58.)
2) Verses of Surah Al-Hashar (18,19,20) Related to thinking, Day of Judgment
3) Verses of Surah Al-Saf Related to Tafakar,Tadabar (Verse No-1,14)

Seerat of Holy Prophet (S.A.W) I
1) Life of Muhammad Bin Abdullah (Before Prophet Hood)
2) Life of Holy Prophet (S.A.W) in Makkah
3) Important Lessons Derived from the life of Holy Prophet in Makkah

**Seerat of Holy Prophet (S.A.W) II**
1) Life of Holy Prophet (S.A.W) in Madina
2) Important Events of Life Holy Prophet in Madina
3) Important Lessons Derived from the life of Holy Prophet in Madina

**Introduction To Sunnah**
1) Basic Concepts of Hadith
2) History of Hadith
3) Kinds of Hadith
4) Uloom –ul-Hadith
5) Sunnah & Hadith
6) Legal Position of Sunnah

**Selected Study from Text of Hadith**

**Introduction To Islamic Law & Jurisprudence**
1) Basic Concepts of Islamic Law & Jurisprudence
2) History & Importance of Islamic Law & Jurisprudence
3) Sources of Islamic Law & Jurisprudence
4) Nature of Differences in Islamic Law
5) Islam and Sectarianism

**Islamic Culture & Civilization**
1) Basic Concepts of Islamic Culture & Civilization
2) Historical Development of Islamic Culture & Civilization
3) Characteristics of Islamic Culture & Civilization
4) Islamic Culture & Civilization and Contemporary Issues

**Islam & Science**
1) Basic Concepts of Islam & Science
2) Contributions of Muslims in the Development of Science
3) Quranic & Science

**Islamic Economic System**
1) Basic Concepts of Islamic Economic System
2) Means of Distribution of wealth in Islamic Economics
3) Islamic Concept of Riba
4) Islamic Ways of Trade & Commerce

**Political System of Islam**
1) Basic Concepts of Islamic Political System
2) Islamic Concept of Sovereignty
3) Basic Institutions of Govt. in Islam

**Islamic History**
1) Period of Khlaft-E-Rashida
2) Period of Ummayyads
3) Period of Abbasids

**Social System of Islam**
1) Basic Concepts Of Social System Of Islam
2) Elements Of Family
3) Ethical Values Of Islam

**Reference Books:**
1) Hameed ullah Muhammad, “Emergence of Islam”, IRI, Islamabad
2) Hameed ullah Muhammad, “Muslim Conduct of State”
3) Hameed ullah Muhammad, ‘Introduction to Islam
4) Mulana Muhammad Yousaf Islahi,”
6) Ahmad Hasan, “Principles of Islamic Jurisprudence” Islamic Research Institute, International Islamic University, Islamabad (1993)
9) Dr. Muhammad Zia-ul-Haq, “Introduction to Al Sharia Al Islamia” Allama Iqbal Open University, Islamabad (2001)
Annexure “D”

Note: One course will be selected from the following six courses of Mathematics.

COMPULSORY MATHEMATICS COURSES FOR BS (4 YEAR)

(FOR STUDENTS NOT MAJORING IN MATHEMATICS)

1. MATHEMATICS I (ALGEBRA)

Prerequisite(s): Mathematics at secondary level
Credit Hours: 3 + 0

Specific Objectives of the Course: To prepare the students, not majoring in mathematics, with the essential tools of algebra to apply the concepts and the techniques in their respective disciplines.

Course Outline:

Preliminaries: Real-number system, complex numbers, introduction to sets, set operations, functions, types of functions.
Matrices: Introduction to matrices, types, matrix inverse, determinants, system of linear equations, Cramer’s rule.

Quadratic Equations: Solution of quadratic equations, qualitative analysis of roots of a quadratic equations, equations reducible to quadratic equations, cube roots of unity, relation between roots and coefficients of quadratic equations.

Sequences and Series: Arithmetic progression, geometric progression, harmonic progression.
Binomial Theorem: Introduction to mathematical induction, binomial theorem with rational and irrational indices.
Trigonometry: Fundamentals of trigonometry, trigonometric identities.

Recommended Books:
Kaufmann JE, College Algebra and Trigonometry, 1987, PWS-Kent Company, Boston
2. MATHEMATICS II (CALCULUS)

Prerequisite(s): Mathematics I (Algebra)
Credit Hours: 3 + 0

Specific Objectives of the Course: To prepare the students, not majoring in mathematics, with the essential tools of calculus to apply the concepts and the techniques in their respective disciplines.

Course Outline:

Preliminaries: Real-number line, functions and their graphs, solution of equations involving absolute values, inequalities.
Limits and Continuity: Limit of a function, left-hand and right-hand limits, continuity, continuous functions.

Derivatives and their Applications: Differentiable functions, differentiation of polynomial, rational and transcendental functions, derivatives.
Integration and Definite Integrals: Techniques of evaluating indefinite integrals, integration by substitution, integration by parts, change of variables in indefinite integrals.

Recommended Books:
Thomas GB, Finney AR, Calculus (11th edition), 2005, Addison-Wesley, Reading, Ma, USA

3. MATHEMATICS III (GEOMETRY)

Prerequisite(s): Mathematics II (Calculus)
Credit Hours: 3 + 0

Specific Objectives of the Course: To prepare the students, not majoring in mathematics, with the essential tools of geometry to apply the concepts and the techniques in their respective disciplines.

Course Outline:

Geometry in Two Dimensions: Cartesian-coördinate mesh, slope of a line, equation of a line, parallel and perpendicular lines, various forms of equation of a line, intersection of two lines, angle between two lines, distance between two points, distance between a point and a line.
Circle: Equation of a circle, circles determined by various conditions, intersection of lines and circles, locus of a point in various conditions. 

Conic Sections: Parabola, ellipse, hyperbola, the general-second-degree equation

Recommended Books:
Kaufmann JE, College Algebra and Trigonometry, 1987, PWS-Kent Company, Boston

4. COURSE FOR NON-MATHEMATICS MAJORS IN SOCIAL SCIENCES

Title of subject: MATHEMATICS
Discipline: BS (Social Sciences).
Pre-requisites: SSC (Metric) level Mathematics
Credit Hours: 03 + 00
Minimum Contact Hours: 40
Assessment: written examination;
Effective: 2008 and onward

Aims: To give the basic knowledge of Mathematics and prepare the students not majoring in mathematics.

Objectives: After completion of this course the student should be able to:

- Understand the use of the essential tools of basic mathematics;
- Apply the concepts and the techniques in their respective disciplines;
- Model the effects non-isothermal problems through different domains;

Contents:

roots of quadratic equations, equations reducible to quadratic equations. **Sequence and Series:** Arithmetic, geometric and harmonic progressions.  
**Permutation and combinations:** Introduction to permutation and combinations, **Binomial Theorem:** Introduction to binomial theorem.  
**Trigonometry:** Fundamentals of trigonometry, trigonometric identities. **Graphs:** Graph of straight line, circle and trigonometric functions.

2. **Statistics:**  
   **Introduction:** Meaning and definition of statistics, relationship of statistics with social science, characteristics of statistics, limitations of statistics and main division of statistics.  
   **Frequency distribution:** Organisation of data, array, ungrouped and grouped data, types of frequency series, individual, discrete and continuous series, tally sheet method, graphic presentation of the frequency distribution, bar frequency diagram histogram, frequency polygon, cumulative frequency curve.  
   **Measures of central tendency:** Mean medium and modes, quartiles, deciles and percentiles.  
   **Measures of dispersion:** Range, inter quartile deviation mean deviation, standard deviation, variance, moments, skewness and kurtosis.

**Books Recommended:**
5. Mathematics For Chemistry

**Credit Hours:** 3

**Prerequisites:**  
Mathematics at Secondary level

**Specific Objectives of Course:** To prepare the students not majoring in mathematics with the essential tools of Calculus to apply the concepts and the techniques in their respective disciplines.
Course Outline:


Recommended Books:


6. MATHEMATICS FOR PHYSICS

Contents

1. Preliminary calculus.
   - Differentiation
     Differentiation from first principles; products; the chain rule; quotients; implicit differentiation; logarithmic differentiation; Leibnitz’ theorem; special points of a function; theorems of differentiation.
   - Integration
     Integration from first principles; the inverse of differentiation; integration by inspection; sinusoidal function; logarithmic integration; integration using partial fractions; substitution method; integration by parts; reduction formulae; infinite and improper integrals; plane polar coordinates; integral inequalities; applications of integration.
2. **Complex numbers and hyperbolic functions**
   - The need for complex numbers
   - Manipulation of complex numbers
     - Additions and subtraction; modulus and argument; multiplication; complex conjugate; division
   - Polar representation of complex numbers
     - Multiplication and division in polar form
   - de Moivre’s theorem
     - Trigonometrical identities; finding the nth roots of unity; solving polynomial equations
   - Complex logarithms and complex powers
   - Applications to differentiation and integration
   - Hyperbolic functions
     - Definitions; hyperbolic-trigonometric analogies; identities of hyperbolic functions; solving hyperbolic equations; inverses of hyperbolic functions; calculus of hyperbolic functions

3. **Series and limits**
   - Series
   - Summation of series
     - Arithmetic series; geometric series; arithmetico-geometric series; the difference method; series involving natural numbers; transformation of series
   - Convergence of infinite series
     - Absolute and conditional convergence; convergence of a series containing only real positive terms; alternating series test
   - Operations with series
   - Power series
     - Convergence of power series; operations with power series
   - Taylor series
     - Taylor’s theorem; approximation errors in Taylor series; standard Maclaurin series
   - Evaluation of limits

4. **Partial differentiation**
   - Definition of the partial derivative
   - The total differential and total derivative
   - Exact and inexact differentials
• Useful theorems of partial differentiation
• The chain rule
• Change of variables
• Taylor’s theorem for many-variable functions
• Stationary values of many-variable functions
• Stationary values under constraints

5. **Multiple integrals**
• Double integrals
• Triple integrals
• Applications of multiple integrals
  Areas and volumes; masses, centers of mass and centroids;
  Pappus’ theorems; moments of inertia; mean values of functions
• Change of variables in multiple integrals
  Change of variables in double integrals;

6. **Vector algebra**
• Scalars and vectors
• Addition and subtraction of vectors
• Multiplication by a scalar
• Basis vectors and components
• Magnitude of vectors
• Multiplication of vectors
  Scalar product; vector product; scalar triple product; vector triple product
• Equations of lines and planes
  Equation of a line; equation of a plane
• Using vectors to find distances
  Point to line; point to plane; line to line; line to plane
• Reciprocal vectors

7. **Matrices and vector spaces**
• Vectors spaces
  Basic vectors; the inner product; some useful inequalities
• Matrices
• The complex and Hermitian conjugates of a matrix
• The determinant of a matrix
  Properties of determinants
• The inverse of a matrix
• The rank of a matrix
• Simultaneous linear equations
  N simultaneous linear equations in N unknowns
• Special square matrices
Diagonal; symmetric and antisymmetric; orthogonal; Hermitian; unitary normal

- Eigen vectors and eigen values of a normal matrix; of Hermitian and anti-Hermitian matrices; of a unitary matrix; of a general square matrix
- Determination of eigen values and eigen vectors degenerate eigen values

8. **Vector calculus**

- Differentiation of vectors
  - Composite vector expressions; differential of a vector
- Integration of vectors
- Space curves
- Vector functions of several arguments
- Surfaces
- Scalar and vector fields
- Vector operators
  - Gradient of a scalar field; divergence of a vector field; curl of a vector field
- Vector operator formulae
  - Vector operators acting on sums and products; combinations of grad, div and curl
- Cylindrical and spherical polar coordinates
  - Cylindrical polar coordinates; spherical polar coordinates
INTRODUCTION TO STATISTICS

Credit hrs: 3(3-0)

Unit 1. What is Statistics?

Unit 2. Presentation of Data
Introduction, basic principles of classification and Tabulation, Constructing of a frequency distribution, Relative and Cumulative frequency distribution, Diagrams, Graphs and their Construction, Bar charts, Pie chart, Histogram, Frequency polygon and Frequency curve, Cumulative Frequency Polygon or Ogive, Historigram, Ogive for Discrete Variable. Types of frequency curves. Exercises.

Unit 3. Measures of Central Tendency
Introduction, Different types of Averages, Quantiles, The Mode, Empirical Relation between Mean, Median and mode, Relative Merits and Demerits of various Averages, properties of Good Average, Box and Whisker Plot, Stem and Leaf Display, definition of outliers and their detection. Exercises.

Unit 4. Measures of Dispersion

Unit 5. Probability and Probability Distributions
Discrete and continuous distributions: Binomial, Poisson and Normal Distribution. Exercises

Unit 6. Sampling and Sampling Distributions
Introduction, sample design and sampling frame, bias, sampling and non sampling errors, sampling with and without replacement, probability and non-probability sampling, Sampling distributions for single mean and proportion, Difference of means and proportions. Exercises.
Unit 7. **Hypothesis Testing**
Introduction, Statistical problem, null and alternative hypothesis, Type-I and Type-II errors, level of significance, Test statistics, acceptance and rejection regions, general procedure for testing of hypothesis. Exercises.

Unit 8. **Testing of Hypothesis- Single Population**
Introduction, Testing of hypothesis and confidence interval about the population mean and proportion for small and large samples, Exercises

Unit 9. **Testing of Hypotheses-Two or more Populations**
Introduction, Testing of hypothesis and confidence intervals about the difference of population means and proportions for small and large samples, Analysis of Variance and ANOVA Table. Exercises

Unit 10. **Testing of Hypothesis-Independece of Attributes**

Unit 11. **Regression and Correlation**

**Recommended Books**

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**Note: General Courses from other Departments**
Details of courses may be developed by the concerned universities according to their Selection of Courses as recommended by their Board of Studies.