

ADP (Compulsory Course)

1 Department of Translation studies
BS (All the disciplines of university)
Course Outline

Course Title: Arabic for Understanding Quran
Course code: TSAQN 00103
Credit hours: Non-Credit
Category: compulsory

کورس کے اہداف:

- یہ یقین دلانا کہ قرآن آسان ہے۔
- لفظی ترجمے اور ٹی پی آئی کے ذریعے قرآن کو سمجھنے کا آسان طریقہ سکھانا۔
- نماز کو مؤثر طریقے سے پڑھنے کا طریقہ بتانا تاکہ نماز میں خوب دل لگے، خشوع اور خضوع حاصل ہو اور نماز کے اثرات ہماری روزمرہ زندگی میں آئیں۔
- قرآن کو زندگی میں لانے کا طریقہ سکھانا۔
- ایمان کو مضبوط کرنا اور عمل صالح اور اچھے اخلاق کی ترغیب دلانا۔
- قرآنی گرامر اور ذخیرۃ الفاظ سے عربی بول چال کے جملے سکھانا۔
- قرآن کی میں آنے والے افعال سکھانا
- الفاظ کے معانی آسانی سے یاد کرنے کی خاطر اشارات اور فقروں کو سکھانا۔
- صرف کے مزید قواعد (الفاظ بنانے کے قواعد) اور نحو کے بنیادی قواعد سکھانا (الفاظ کو جوڑ کر جملے بنانے کے قواعد)۔

آیات قرآنیہ:

کورس میں مندرجہ ذیل موضوعات سے متعلقہ آیات شامل ہیں۔

۱. ایمانیات
۲. عبادات
۳. اخلاقیات
۴. معاملات

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The Islamia University of Bahawalpur

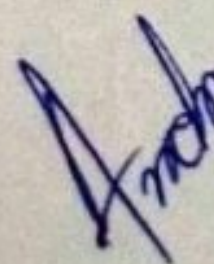
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Week	Session (Date & Time)	Lessons	Topic	Contents	Activities (case study, class activity, quiz, assignment etc)	Instructor's Signature
1		Level 1: Lesson 1 & 2	تعارف، گرامر، سورة الفاتحة، نکات تعلیم	(۱) کورس کا تعارف اور تعوذ (۲) گرامر: هو هم انت، انا (۳) سورة الفاتحة (۱-۳) نکات تعلیم یا شوق	On campus class	
2		Level 1: Lesson 3 & 4	سورة الفاتحة، گرامر، نکات تعلیم	(۱) سورة الفاتحة (۴-۵) (۲) گرامر: ضمائر متصلہ، مذکر سے مؤنث الفاظ (۳) نکات تعلیم یا شوق	On campus class	
3	Practice Session Review					
4		Level 1: Lesson 5 & 6	آذان، گرامر، نکات تعلیم	(۱) آذان، فجر کی آذان، اقامت اور وضو کے بعد کی دعا (۲) گرامر: ل، من، عن، ب، فی، علی (۳) نکات تعلیم یا شوق	On campus class/Assignment	
5		Level 1: Lesson 7 & 8	ارکان نماز، گرامر، نکات تعلیم	(۱) ثناء، رکوع، سجدہ، تشهد (۲) گرامر: رالی، مع، عند، هذا، هؤلاء، ذیک، اولئک، حروف جر کی چار باتیں (۳) نکات تعلیم یا شوق	On campus class	
6	Practice Session Review					
7		Level 1: Lesson 9 & 10	درود، دعائیں، گرامر، نکات تعلیم	(۱) درود ابراہیمی اور نماز کی دعائیں (۲) گرامر: فعل ماضی (۳) نکات تعلیم یا شوق	On campus class/Quiz	
8		Level 1: Lesson 11, 12 & 13	آخری تین سورتیں، گرامر، نکات تعلیم	(۱) سورة الاخلاص، الفلق، الناس (۲) گرامر: فعل ماضی اور فعل مضارع (۳) نکات تعلیم یا شوق	On campus class	

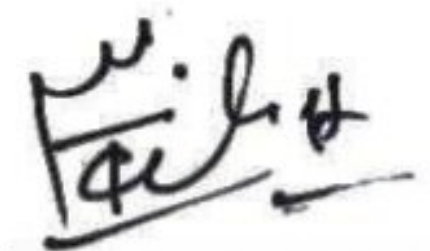
9	Practice Session Review				
10	Level 1: Lesson 14, 15 & 16	تین مختلف سورتیں، گرامر، نکات تعلیم	(۱) سورۃ العصر، النصر، الکافرون (۲) گرامر: فعل مضارع، فعل امر، فعل نہی (۳) نکات تعلیم یا شوق	On campus class	
11	Level 1: Lesson 17, 18 & 19	نزول قرآن، قرآن آسان ہے، سیکھنے کی دعا اور طریقہ	(۱) نزول قرآن کا مقصد (ص): (۲) قرآن آسان ہے اور اس کا سیکھنا بہترین کام ہے (۳) سیکھنے کی دعا اور سیکھنے کا طریقہ (۴) گرامر: فعل امر، اسم فاعل (۵) نکات تعلیم یا شوق	On campus class	
12	Mid Term				
13	Level 2: Lesson 1 & 2	مقاصد، سورۃ الفاتحہ، اشارات، گرامر	(۱) سورۃ الفاتحہ کا ترجمہ (۲) اشارات: اللہ کی تعریف، ہدایت کی دعا (۳) گرامر: کمزور افعال سے گردان (۴) عربی بول چال	On campus class	
14	Level 2: Lesson 3 & 4	سورۃ البقرۃ، اشارات، گرامر، اسماء افعال	(۱) سورۃ البقرۃ (۱-۵) کا ترجمہ و تشریح (۲) اشارات: متقیوں کے لیے ہدایت، متقیوں کی صفات (۳) گرامر: کمزور افعال سے گردان (۴) عربی بول چال	On campus class/Assignment	
15	Practice Session Review				
16	Level 2: Lesson 5 & 6	سورۃ البقرۃ، اشارات، گرامر،	(۱) سورۃ البقرۃ (۶-۱۰) کا ترجمہ و تشریح (۲) اشارات: کافرین کو	On campus class	

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			اسماء افعال	ہدایت نہیں، منافقین کو ہدایت نہیں (۳) گرامر: کمزور افعال سے گردان (۴) عربی بول چال	
17		Level 2: Lesson 7 & 8	سورۃ البقرۃ، اشارات، گرامر، اسماء افعال	(۱) سورۃ البقرۃ (۱۱-۱۶) کا ترجمہ و تشریح (۲) اشارات: فساد اور بے وقوف، دورے (۳) گرامر: کمزور افعال سے گردان (۴) عربی بول چال	On campus class/Quiz
18	Practice Session Review				
19		Level 2: Lesson 9,10 & 11	سورۃ البقرۃ، اشارات، گرامر، اسماء افعال	(۱) سورۃ البقرۃ (۲۲-۱۷) کا ترجمہ و تشریح (۲) اشارات: آگ کی مثال، بارش کی مثال، قرآن کی دعوت (۳) گرامر: کمزور افعال اور مکرر افعال (۴) عربی بول چال	On campus class
20		Level 2: Lesson 12, 13 & 14	سورۃ البقرۃ، اشارات، گرامر، اسماء افعال	(۱) سورۃ البقرۃ (۲۶-۲۳) کا ترجمہ و تشریح (۲) اشارات: قرآن کا چیلنج، وعید و بشارت، مجھڑ کی مثال (۳) گرامر: کمزور افعال، افعال کا اعادہ (۴) عربی بول چال	On campus class
21	Practice Session Review				
22		Level 2: Lesson 15, 16 & 17	سورۃ البقرۃ، اشارات، گرامر، اسماء افعال	(۱) سورۃ البقرۃ (۳۰-۲۷) کا ترجمہ و تشریح (۲) اشارات: گمراہ کون، کفر کیسے، خلیفہ پر سوال (۳) گرامر: افعال کی چابی و اعادہ (۴) عربی بول چال	On campus class

23	Level 2: Lesson 18, 19 & 20	سورة البقرة، اشارات، گرامر، اسماء افعال	(۱) سورة البقرة (۳۱-۳۷) کا ترجمہ و تشریح (۲) اشارات: اسماء کی تعلیم، سجدہ اور ابلیس، پھسلانا اور توبہ (۳) گرامر: افعال کی چابی، کمزور افعال، جمع کی اقسام (۴) عربی بول چال	On campus class
24	Practice Session Review			
25	Final Exam			

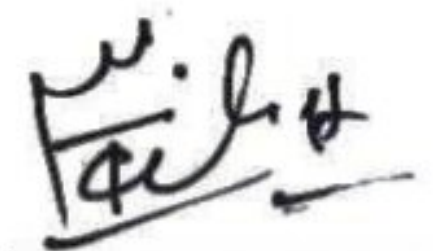
Reference Books:

- اردو تراجم قرآنیہ
- علم النحو، مشتاق احمد چر تھاؤلی
- 85% of Quranic words, Dr Abdul Aziz Abdul Raheem.
- Al Tibyaan, Easy way to Quranic reading, Shykh Dr. V. Abdur Rahim
- Arabic An Essential Grammar Fruk Abu-chacra
- Learning Arabic Language of the Quran by Izzat Aroosa, Darussalm


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ADP in Arabic

Foundation Course-II
(Specialization) 4th Semester

عنوان المقرر: تاريخ الأدب العربي

Title: History of Arabic Literature

4th semester

الساعات المعتمدة: 3 ساعات

الأهداف:

أولاً: المعرفة:

أن يتعرف الطالب و يكون قادراً على الآتي:

1. تحديد مفهوم الأدب و العصور التي مرّ بها.
2. معرفة أبرز خصائص و موضوعات الشعر و في العصر الجاهلي و عصر صدر الإسلام و العصر الأموي.
3. معرفة فنون النثر و خصائصه و موضوعاته و في العصر الجاهلي و عصر صدر الإسلام و العصر الأموي.
4. أن يتمكن الطالب من معرفة و نقد أبرز أعلام الشعر و النثر في العصر الجاهلي و عصر صدر الإسلام و العصر الأموي.
5. معرفة أبرز مصادر الدراسة العلمية للمقرر.

ثانياً: المهارات:

أن يكتسب الطالب المهارات الآتية:

1. يستفيد من النصوص في تقوية لغته.
2. يميز قضايا و أحوال العصور التي درسها في المقرر.
3. تعارف جملة من أسماء الشعراء و الخطباء و الكتاب من التراث الأدبي.
4. إعداد بحوث و محاضرات من مفردات المقرر تحت إشراف الأستاذ.

مفردات المقرر -الموضوعات الدراسية

الأدب و تعريفه
تحديد العصور الأدبية التاريخية
العصر الجاهلي
دراسة جغرافية شبه الجزيرة العربية

دراسة الأحوال السياسية و الإجتماعية
المجتمع الجاهلي
دراسة الحياة الأدبية في العصر الجاهلي
الشعر الجاهلي
مكانة الشاعر في المجتمع الجاهلي
أغراض و مواضيع الشعر الجاهلي
خصائص الشعر الجاهلي
المعلقات السبع
أهمية المعلقات و مكانتها في الجاهلية و سبب تسميتها بهذا الإسم
أعلام الشعر الجاهلي
إمرؤ القيس (حياته وخصائص شعره،)
زهير بن أبي سلمى (حياته وخصائص شعره،)
النثر الجاهلي
خصائص النثر الجاهلي
الحكم و الأمثال
مكانتهما في العصر الجاهلي و أعلامهما
الخطبة و مكانة الخطيب في المجتمع الجاهلي و أهمية الخطابة و أشهر الخطباء
القرآن الكريم (نزوله ، أسلوبه، و تأثيره)
الحديث الشريف (تدوينه، أسلوبه، و قيمته الأدبية)
الشعر في عصر صدر الإسلام
أغراض و مواضيع الشعر في عصر صدر الإسلام
خصائص الشعر في عصر صدر الإسلام
حسان بن ثابت (حياته، مكانته الأدبية، خصائص شعره، دفاعه عن الإسلام و هجاء الكفار)
النثر في عصر صدر الإسلام

خصائص النثر الإسلامي
الخطابة في العصر الإسلامي و أهميتها
أعلام الخطابة
عمر بن الخطاب
علي بن أبي طالب
العصر الأموي
نظرة على الحياة الأدبية في العصر الأموي
الشعر في العصر الأموي
أغراض الشعر الأموي
خصائص الشعر الأموي
أعلام الشعر في العصر الأموي
الأخطل (حياته، مكانته الأدبية، خصائص شعره)
جرير (حياته، مكانته الأدبية، خصائص شعره)
الفرزدق (حياته، مكانته الأدبية، خصائص شعره، شعره و موضوعاته)
النثر في العصر الأموي
خصائص النثر الأموي
إزدهار الخطابة في العصر العباسي
أعلام الخطابة
حجاج بن يوسف (حياته، خطابته، مكانته الأدبية)
زياد بن أبيه (حياته، خطابته، مكانته الأدبية)
الادب العربي في العصر الحديث
نظرة عامة في العصر الحديث (بدايته وارتقاءه)
النثر العربي الحديث (خصائصه وأغراضه)
مصطفى لطفى المنفلوطي (حياته وأثاره)
جمال الدين الافغانى (حياته واسلوبه في الخطابة)

الشعر العربي الحديث (خصائصه واغراضه)
احمد الشوقي (حياته وشعره)
حافظ ابراهيم (حياته وشعره)

الكتب الرئيسية:

1. تاريخ الأدب العربي (العصر الجاهلي- العصر الإسلامي- العصر الأموي) ، تأليف د.شوقي ضيف، الناشر: دار المعرف، مصر، 1997.
2. مصادر الشعر الجاهلي ، تأليف د. ناصر الدين أسد، النشر:
3. الجامع في تاريخ الأدب العربي القديم، تأليف د. حنا الفاخوري، النشر: دار الجيل للطبع و النشر 1991م.
4. تاريخ آداب اللغة العربية ، تأليف د. جرجي زيدان، النشر: دار الفكر للطباعة و النشر و التوزيع، الطبعة الأولى 2005م.
5. تاريخ الأدب العربي ، تأليف د. أحمد حسن الزيات، النشر: دار المعرفة للطباعة و النشر 2000م.
6. تاريخ الأدب العربي، تأليف د. عمر فاروخ، النشر: دار العلم للملايين، بيروت.
7. تاريخ آداب العرب، تأليف مصطفى صادق الرافعي، النشر: المكتبة العصرية، الدار النموذجية، 2001م.
8. المفصل في تاريخ الأدب العربي في العصور القديمة و الوسيطة و الحديثة، تأليف مجموعة مؤلفين، النشر: دار إحياء العلوم، 1996م.

ADP in Arabic

Foundation Course-III
(Specialization) 4th Semester

بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

عنوان المقرر: الإنشاء و المحادثة

Title: Composition & Conversation

الساعات المعتمدة: 3 ساعات

البرنامج التي يتم تقديم المقرر ضمنه : ADP 4th Semester

الأهداف:

1. أن يتمكن الطالب من المحادثة باللغة العربية في حياته اليومية.
2. أن يتعرف الطالب على مخارج الحروف الصحيحة.
3. أن يتمكن من تحديد أسلوب الكلام و يتدربها.
4. أن يتمكن من تكوين مواضيع قصيرة تحت عناوين متنوعة.
5. معرفة علامات الترقيم و استخدامها.

مفردات المقرر -الموضوعات الدراسية:

المحادثة
طبيعتها
الجوانب المهمة للنطق
تدريبات النطق للالفاظ والكلمات العربية
الكلمة العربية
تحديد الكلمة
تحديد أسلوب الكلام

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التدريبات العامة
مخارج الحروف
دراسة الحروف الأبجدية
التطبيقات علي الحركات الإعرابية
التدريبات علي المخارج للحروف الأبجدية
أساليب المحادثة
الأسلوب البياني
الأسلوب الخطابي
الأسلوب الإستفساري
أداء الأدوار للمواضيع
ماذا رأيت اليوم
جامعتنا
كليتنا
قريتنا
مدينتنا
مطالعة الكتب
الجرائد
البريد
المصرف
الإذاعة
التلفزيون
مواعيد الدراسة
القطار تحديد
الجملة العربية

الجملة البسيطة
الجملة المركبة
الجملة المعقدة
المقابلة
علامات الترقيم
الفاصلة
علامة الإستفهام
الفاصلة منقوطة
علامات التنصيص والتعجب
النقطتان
القوسان و علامة الحذف

مصادر الدراسة:

الكتب الرئيسية:

* الأسلوب الصحيح في الانشاء (الجزء الثالث) تأليف: جماعة من الأساتذة، المكتبة

العلمية، لاهور 1987م

* تيسير الإنشائ، خليل الهنداوي، مكتبة دار الشرق، بيروت

* دروس اللغة العربية

لغير الناطقين بها، للدكتور، ف، عبدالرحيم، مطابع الجامعة الإسلامية، المدينة المنورة

1999م

ADP in Arabic

Foundation Course-IV
(Specialization) 4th Semester

بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

عنوان المقرر: النثر القديم و الحديث

Title: Classical and Modern Arabic Prose

الساعات المعتمدة: 3 ساعات

البرنامج التي يتم تقديم المقرر ضمنه : ADP 4th Semester

1. التعريف بالنثر و أقسامه.
2. معرفة فنون النثر الحديث و معرفة أعلام النثر الحديث.
3. الإلمام بأهم أدباء النثر الحديث و خصائص أدبهم.
4. معرفة أبرز خصائص و موضوعات النثر في العصر الحديث.
5. دراسة نصوص النثر الحديث مع الشرح و التفسير و النقد.

مفردات المقرر -الموضوعات الدراسية:

النثر (النوع النثر في العصر الجاهلي)
الخطابة، الامثال، الحكم، الوصايا
النثر (النوع النثر في العصر الاسلامي، القرآن الكريم، خطبة الحجة الودعة)
خطوط النبي الى ملوك العرب
البيان والتبيين موضوعات مختارة
فنون النثر الحديث
الرواية
القصة
القصة القصيرة
الأقصوصة

مصطفى لطفى المنفلوطي
حياته و آثاره
اليتيم (من العبرات) نبذة موجزة
دراسة النص مع الشرح والتعليق
طه حسين حياته و آثاره
الشيخان 1-10
جبران خليل جبران
حياته و آثاره
أسلوبه و خصائص أدبه
مات أهلي (من العواصف) نبذة موجزة
دراسة النص مع الشرح والتعليق
المسرح العربي
المسرحية معناها و أسلوبها
أهم أنواع المسرحية
توفيق الحكيم
أريد أن أقتل (نبذة موجزة)
دراسة النص مع الشرح والتعليق

مصادر الدراسة:

الكتب الرئيسية:

- 1- العبرات للمصطفى لطفى المنفلوطي مكتبة دارالنشر قاهرة مصر 1998م.
- 2- الشيخان للدكتور طه حسين مكتبة القاهرة مصر 1977م
- 3- دراسات في الأدب العربي الحديث و مدارسه، تأليف د. محمد عبد المنعم خفاجي.
- 4- الجامع في تاريخ الأدب العربي الحديث، تأليف د. حنا الفاخوري، النشر: دار الجيل للطبع و النشر 1991م.

ADP in Arabic

Foundation Course-V
(Specialization) 4th Semester

بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

عنوان المقرر: الشعر العربي القديم والحديث

Course Title: Classical & Modern Arabic Poetry

الساعات المعتمدة: 3 ساعات

البرنامج التي يتم تقديم المقرر ضمنه : ADP 4th Semester

الأهداف:

1. دراسة تحليلية لنصوص الشعر العربي القديم.
2. دراسة تحليلية لنصوص الشعر العربي الحديث.
3. دراسة أهم مواضيع و خصائص الشعر في العصر الحديث.
4. دراسة مع الشرح للأبيات الشعرية.

مفردات المقرر -الموضوعات الدراسية

المعلقات:العصر الجاهلي

امرؤ القيس (10 اشعار)

النابغة الذبياني (10 اشعار)

العصر الاسلامي

حسان بن ثابت (قصيده الهمزيه 15 اشعار)

كعب بن زبير (10 اشعار)

العصر الحديث

حافظ إبراهيم

(9 أبيات)

ابو القاسم لشابي

((إرادة الحياة)) (10 أبيات)

أحمد شوقي

((الهمزية النبوية)) (15 بيتا)

(الشوقيات، دار الكتاب العربي بيروت، ص: 36، 34)

مصادر التعليم:

الكتب الرئيسية:

1. المعلقات السبع، للزوزنى ، دار الجيل بيروت 2000م
2. المفضليات، تحقيق وشرح: احمد محمد شاكر، عبدالسلام محمد هارون دار المعارف القاهرة 1977م
3. موسوعة دواوين شعراء العرب الحديث ، طبع المكتبة النهضة ، قاهره مصر العربية 2010
4. الشوقيات، احمد الشوقى ، طبع المكتبة النهضة ، قاهره مصر العربية 2010 م
5. شعراء العصر الحديث ، لجنة الادباء المكتبة العلمي ، قاهره مصر 2012م

عنوان المقرر: قواعد اللغة العربية التطبيقية

Title: Applied Grammar

الساعات المعتمدة: 3 ساعات

البرنامج التي يتم تقديم المقرر ضمنه: ADP 4th Semester

الأهداف:

أولاً: المعرفة:

1. تعرف الطالب على علم النحو و أساسياته.
2. القدرة على تمييز أقسام الكلمة، و أقسام الإسم، و أقسام الحروف.
3. الإلمام بعلامات المبني و المعرب.
4. معرفة أساسيات علم الصرف، و تقسيمات الفعل إلى الثلاثي المجرد و المزيد فيه و الرباعي و المزيد في الرباعي ة تصريفه.
5. ضبط الطالب لأركان الجملة الإسمية و الفعلية، و ما يتعلق بها من تعريف و تنكير و تقديم و تأخير، و مبتداء و خبر.

ثانياً: المهارات:

أن يكتسب الطالب المهارات الآتية:

1. إكتساب مهارة النطق السليم للمبني و المعرب إعراباً فرعياً.
2. أن يميز الطالب بين المعرب و المبني، و الجامد و المتصرف، من الأسماء و الأفعال.
3. القدرة على تطبيق القواعد الذي دراسها في الكتابة و المحادثة.
4. إكتساب مهارة إعراب الكلمات و وضع الحركات في المكان المناسب.
5. القدرة على تصحيح الجمل و العبارات.

مفردات المقرر -الموضوعات الدراسية

كلمة كلام (اسم، فعل، حرف)
العلامات الإعرابية
المعرب و المبني
الأفعال المبنية
الأسماء المبنية
علامات الإعراب علامات البناء
تدريبات تطبيقية و إعرابية
الجامد والمشتق
المتصرف
الفعل الثلاثي المزيد و أبوابه مع جميع صيغ الزوائد مزيد بحرف
الإسم الممنوع من الصرف و علاماته
تدريبات تطبيقية و إعرابية
الفعل الثلاثي المزيد و أبوابه مزيد بحرفين
الأسماء الستة و إعرابها الأسماء الخمسة و إعرابها الأفعال الخمسة و إعرابها أسماء الزمان و المكان
تدريبات تطبيقية و إعرابية
الفعل الثلاثي المزيد و أبوابه مزيد بثلاثة أحرف
إن و أخواتها (ذكرها، عملها، معانيها)
كان و أخواتها (ذكرها، عملها، معانيها)

تدريبات تطبيقية و إعرابية
الفعل الرباعي و أبوابه مصادر الأفعال الرباعية الرباعي المزيد المصادر الصريحة و المصادر المؤولة
لا النافية للجنس، معناها، شروط عملها
أدوات النصب
تدريبات تطبيقية و إعرابية
أدوات الجزم
تدريبات تطبيقية و إعرابية
أدوات الإستفهام
تدريبات تطبيقية و إعرابية
أنواع الخبر
تدريبات تطبيقية و إعرابية
أسماء التفضيل
أنواع الجمع (جمع تكسير و أقسامه) جمع منتهى الجموع جمع الجمع شبه الجمع
تدريبات تطبيقية و إعرابية
المركبات مركب جاري مركب توصيفي مركب إضافي

مركب عددي
تدريبات تطبيقية و إعرابية
القلب و الإبدال قواعد القلب و الإبدال قلب الواو و إلقاء ألفاً قلب الواو ياء
تدريبات تطبيقية و إعرابية
قواعد القلب و الإبدال الأخرى
مراجعة ماسبقت دراسته
مراجعة ماسبقت دراسته من مواضيع النحو و الصرف في الفصل الأول

مصادر الدراسة:

الكتب الرئيسية:

1. قواعد اللغة العربية الميسرة، د فهمي النجار، الطبعة الأولى 2007، النشر: مكتبة الملك فهد الوطنية، الرياض.
2. القواعد العربية الصحيحة، (ثلاثة أجزاء)، تأليف جماعة من الأساتذة. النشر: منشورات دار مكتبة الحياة- بيروت. 2000م
3. التذكرة في قواعد اللغة العربية، محمد خليل باشا، النشر: عالم الكتب، بيروت، الطبعة الثانية. 1998م
4. الموجز في قواعد اللغة العربية، سعيد الأفغاني، الناشر دار الفكر، بيروت. 1978م
5. دروس اللغة العربية لغير الناطقين بها، د. عبد الرحيم، النشر: مطابع الجامعة الإسلامية، المدينة المنورة. 2001م

ADP in Botany
Foundation Course-II
(Specialization) 4th Semester

Diversity of Plants

Course Objective:

- To introduce and enable the students to understand and appreciate the biology and evolution of vascular plant architecture.
- To familiar the students with local vascular flora of the area.
- To enable the students to access & generate new knowledge in purposeful fashion.

Course Contents:

Algae (General characters of the division), Representative types of different groups including (Chlamydomonas, Spirogyra) Chara, Vaucheria.

Fungi (General characters of the division), Representative types of different groups including (Mucor, Penicillium), their implication on crop production and industrial applications.

Phyllactinia, Ustilago. Puccinia, Agaricus lichens (Physcia).

Bryophytes, (General characters of the division), Representative types of different groups including Riccia, Anthoceros, Funaria.

Pteridophytes, (General characters of the division), Representative types of different groups including Fossils and fossilization, Psilopsida (Psilotum). Lycopsidea (Selaginella), Sphenopsida (Equisetum).

Gymnosperms, (General characters of the division), Representative types of different groups including Cycas, Gymnosperms, Pinus.

Practical:

Identification of various types mentioned from prepared slides and fresh collections Culturing, maintenance, preservation and staining of microorganisms. Study of morphology and reproductive structures of the types mentioned in theory.

Recommended Books:

- 1.Hatcher, P., Battey, N., Battey, P. N. 2011. Biological Diversity. Wiley- Blackwell Publisher.
- 2.David, S. I., Vince-Prue, D., Peter, J. G. 2011. Science and the Garden. Blackwell Publishing.
- 3.Blackwell Publishing.
- 4.Frank, E. Z., Jan, C. H. 2011. Biodiversity Hotspots. Springer.

ADP in Botany

Foundation Course-III (Specialization) 4th Semester

Plant Systematics, Anatomy and Development

Course Objective:

Systematics is the study of the nature, cause, patterns and trends in variations among taxa. From the structural point of view systematics is the study of the basic taxonomic components and evolution. Study of plant systematics, anatomy and development deal with the study of classification systems, naming of plants and characteristics features of major plant families along with structure and function of various tissues such as parenchyma, collenchyma, sclerenchyma, epidermis, xylem and leaf, and phloem.

Course Outcomes:

This course also covers structure and development of plant body, structure of ovules, and endosperm formation. The laboratory work includes the study of anatomy and taxonomy of plants mentioned in theory.

Course Contents:

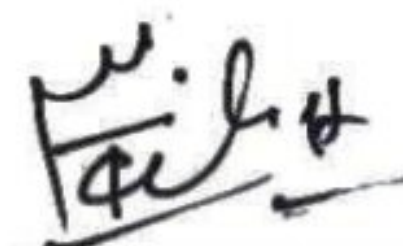
Introduction to Plant Systematics: aims, objectives and importance. Classification: brief of various systems of classification with emphasis on Takhtajan. Brief introduction to nomenclature, importance of Latin names and binomial system with an introduction to International Code of Botanical Nomenclature (ICBN). Class test and assignment. Morphology: morphological characters of root and stem. Morphological characters of leaf and inflorescence. Flower, placentation. Diagnostic character, economic importance and distribution pattern of the following families: Brassicaceae (Cruciferae), Fabaceae (Leguminosea). Diagnostic character, economic importance and distribution pattern of the following families: Rosaceae, Euphorbiaceae, Cucurbitaceae. Diagnostic character, economic importance and distribution patten of the following families: Solanaceae and Poaceae. Cell wall: structure and chemical composition. Concept, structure and function of various tissues like: i. Parenchyma, ii. Collenchyma, iii. Sclerenchyma iv. Epidermis (including stomata and trichomes).

Practical:

Study of stomata, epidermis. Tissues of primary body of plant. T.S of angiosperm stem and leaf. Identification of families and technical description of flowering plants belonging to families mentioned in theory syllabus. Field trips shall be undertaken to study and collect local plants. Students shall submit 40 fully identified herbarium specimens.

Recommended Books:

1. Philip, R. 2011. The Anatomy Lesson. Random House.
2. Michael, G. S. 2010. Plant Systematics. Academic Press.
3. Dennis, W. W. 2009. Contemporary Plant Systematics. Andrews University Press.



ADP in Botany

Foundation Course-IV (Specialization) 4th Semester

Plant Physiology and Ecology

Water relations (water potential, osmotic potential, pressure potential, matric potential). Absorption and translocation of water. Stomata regulation. Mineral nutrition: Soil as a source of minerals. Passive and active transport of nutrients. Essential mineral elements, role and deficiency symptoms of macronutrients. Photosynthesis. Oxygenic and non – oxygenic photosynthesis Mechanism: light reactions (electron transport and photophosphorylation) and dark reactions (Calvin cycle). Differences between C₃ and C₄ plants. Respiration: Definition and respiratory substrates. Mechanism-Glycolysis, Krebs cycle. Electron transport and oxidative phosphorylation. Anaerobic respiration. Energy balance in aerobic and anaerobic respiration, Respiratory quotients. Growth: Definition; role of auxins, gibberellins, cytokinins, abscisic acid and ethylene in controlling growth. Photoperiodism: Definition, historical background, Classification of plants based on photoperiodic response, Role of phytochromes, and hormones and metabolites in photoperiodism. Dormancy: Definition and causes of seed and bud dormancy; methods of breaking seed dormancy. Physiological processes during seed germination. Introduction, aims and applications of ecology. Light and Temperature. Quality of light, diurnal and seasonal variations. Ecophysiological responses. Water: Field capacity and soil water holding capacity. Characteristics of xerophytes and hydrophytes. Effect of precipitation on distribution of plants. Wind as an ecological factor and its importance.

Practical:

Plant Physiology

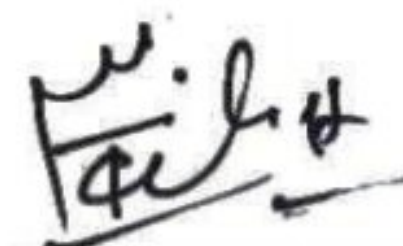
Preparation of solution of specific normality of acids / bases, salts, sugars, molal and molar solutions and their standardization. Determination of uptake of water by swelling seeds when placed in sodium chloride solution of different concentrations. Measurement of leaf water potential by the dye method by cobalt chloride paper method. Chemical testes for the following cell constituents. Starch, Cellulose, Lignin, Proteins. Extraction of chlorophyll from the leaves and separation of component pigments on a paper chromatogram. Estimation of oxygen utilized by a respiring plant by Winkler's method. Extraction of amylase from germinating wheat seeds and study of its effect on starch breakdown.

Ecology

Measurements of vegetation by Quadrat and line intercept methods. Field trips to ecologically diverse habitats.

Recommended Books:

1. Schwarz, A. Jax, J. 2011. Ecology Revisited: Reflecting on Concepts, Advancing Science. Springer.
 2. Robert, D. H. 2011. Annual Plant Reviews, Biology of Plant Metabolimics. Blackwell Publiser.
- Macdougall, D. T. 2010. Elementary Plant Physiology. General Book Club.



ADP in Botany
Foundation Course-V
(Specialization) 4th Semester

Biodiversity and Conservation

Course of Biodiversity and Conservation will be completed during 16 weeks with 2 Theory Lectures and 1 Lab (Practical) per week. Introduction and importance of biodiversity: Species diversity. Genetic diversity, social diversity Class test and assignment. Causes and depletion of biodiversity: Habitat loss, habitat fragmentation. Causes and depletion of biodiversity: Over exploitation, climatic changes. Causes and depletion of biodiversity: invasive species, seawater intrusion Assignment. The value of species. How species become endangered? Extinction of species, present rate. Theory of mass extinction. Inventory and monitoring of biodiversity. Importance of red data book. In situ and Ex Situ conservation of plants. Implementation of laws (protection and conservation of various taxa. Sustainable use of biodiversity. Protected areas of Pakistan. Criteria for determining different categories of protected areas. Baseline study, impact assessment, management plan for protected area. IUCN categories for threatened species, criteria for recognizing different categories of threatened species. Gene bank management and operation. Public awareness strategies. Population explosion. Biodiversity action plan for Pakistan.

Practical

Causes of local species extinction. Field excursion. Data collection. Preparation of an inventory of the fauna given region. To carry on base line study of any designated category.

Recommended Books:

Latest additions of books will be recommended from stock available in the main library of the university

ADP in Botany

Foundation Course-VI (Specialization) 4th Semester

Lab. Techniques in Plants

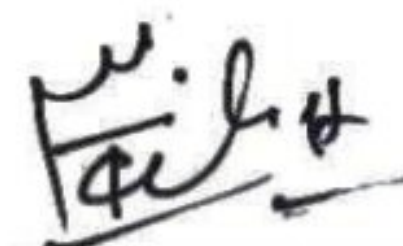
Course Outline:

1. **General Laboratory Glassware and care**
2. **Laboratory safety measures.**
3. **Elementary Microscopy and principals of optics:** light microscopy, Magnification, Resolution, contrast.
4. **Types of microscopy:** Phase contrast, Dark field and Electron microscopy.
5. **Collection and handling of material:** (Anatomy, Chromosomal study and maycorrhiza).
6. Assignment.
7. **Principles and methods:** involved in the killing, fixing and storage of materials, Chemicals used and their properties.
8. **Recipes and preparations:** of important fixatives, Dyes and related reagents and solutions.
9. Assignment.
10. **Histochemistry:** plant crystallography, localization of various chemicals in plant tissues.
11. **Histology-1:** histological studies in plant tissues by fixation and dehydration.
12. Assignment.
13. **Histology -2:** Impregnation and Embedding techniques, Section cutting staining and mounting procedures.
14. **Micrometry:** Use of stage and Ocular micrometer, calibration of ocular micrometer. Size measurement of different microscopic objects.
15. **Procedures:** for whole mounts and smears, collection of algae and pond microorganisms and microscopy.
16. Project Assignment.
17. **Extraction techniques:** Centrifugation, Ultra centrifugation, cell fractionation, Cell fractionation, filtration, Distillation.
18. **Separation techniques:** Chromatography: principle, applications types, thin layer chromatography, column and ion exchange chromatography.
19. **Electrophoresis:** principle and applications.
20. **Presentations and work on the project.**
21. **Biological photography and importance.**
22. Work on the project.

Lab. Outlines:

1. Preparation of anatomical and surface slides through hand and microtome sectioning.
2. Study of morphology and reproductive structures of the types collected.
3. Handling of prepared slides for staining of plant material.
4. Study of morphology and reproductive structures of the local flora.
5. Identification of various types mentioned from prepared slides and fresh collections.

Recommended Books:



1. Kenneth, L. W., Katherine, M. M. 2011. Techniques Labs for Macroscale and Microscale Organic Experiments. Mary Finch.
2. Donald, L. P., Gary, M. L., George, S. K, Randall, G. E. 2010. A Small Scale Approach to Organic Laboratory Techniques. Mary Finch.

Ravichandra, N. G. 2010. Methods and Techniques in Plants Nematology. Asoke K. Ghosh. PHI Learning Ltd.

M. Finch

ADP in Chemistry
Foundation Course-II
(Specialization) 4th Semester

Course Discipline Specific (Analytical Chemistry)

INTRODUCTION TO ANALYTICAL CHEMISTRY

1. Introduction: analytical analysis, brief account of analytical tools and impact of analytical chemical information.
2. Classification of chemical analysis: Qualitative and Quantitative chemical analysis.
3. Analytical properties: Errors, Accuracy, precision, sensitivity and selectivity.

SAMPLING FOR ANALYSIS

Introduction, Sampling and Handling techniques for taking samples from air, water and Soil.

SEPARATION AND PURIFICATION TECHNIQUES

1. Chromatography
2. Solvent extraction
3. Distillation

ATOMIC AND MOLECULAR SPECTROSCOPY:

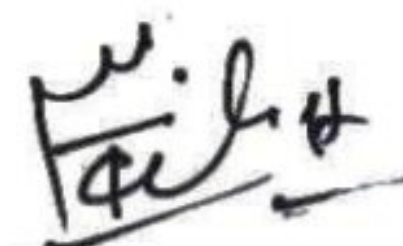
Brief introduction and principles of UV & IR Spectroscopy

THE ANALYTICAL PROBLEM:

1. Introduction of analytical problem
2. Elements of analytical problem
3. Steps of the analytical problem solving process.
4. Consistency between required information and supplied information.

PRACTICALS

1. To understand the working of analytical balance.
2. To calibrate the Volumetric Glassware commonly used.
3. To prepare normal solutions of HCl, H₂SO₄, NaOH AgNO₃, EDTA, KMnO₄, Na₂S₂O₃ and their standardization.
4. Determine the percentage purity of given sample of NaHCO₃
5. Determine the percentage composition of given mixture of Na₂CO₃ and NaOH,



6. Determine the percentage purity of the given sample by Volhard's method.
7. Determine the percentage purity of given sample of $\text{FeSO}_4 \cdot 7\text{H}_2\text{O}$.
8. Draw the neutralization curve of:
 - i. 1N HCl and 1N NaOH
 - ii. 0.1N HCl and 0.1N NaOH

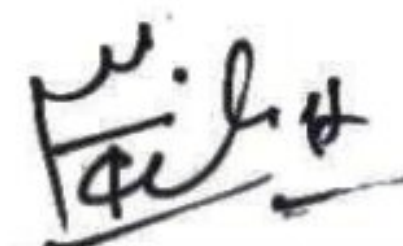
Books Recommended

Theory

1. Skoog, D. A., West, P. M., Holler, F. J., Crouch, S. R., Fundamentals of Analytical Chemistry, 9th ed., Brooks Cole Publishing Company, (2013).21
2. Christian, G. D., Analytical Chemistry. 6th ed., John-Wiley& Sons, New York, (2006).
3. Harris, D. C., Quantitative Chemical Analysis, 8th ed., W. H. Freeman and Company, New York,USA, (2011).
4. Kealey, D. and Haines, P. J., Instant Notes., Analytical Chemistry, Bios Scientific Publishers Limited, Oxford, UK, (2002).
5. Matthios, Otto, CHEMOMETRICS- Statistics and Computed applications in Analytical Chemistry, 2nd ed., Wiley-VCH, Germany, (2007).
6. Mitra A., Fundamentals of Quality Control and Improvement, 3rd ed., JohnWiley& Sons, (2008).
7. Miller, J. and Miller, J., Statistics and Chemometrics for Analytical Chemistry, 5th ed., Prentice Hall, (2005).

Practicals

1. Analytical Chemistry by Gary D. Christian; 6th ed. 2004; John Wiley & Sons, Inc.
2. Douglas A. Skoog, Donald M. West, F. James Holler, Stanley R. Crouch, "Fundamentals of Analytical Chemistry" 8th ed. 2003; Saunders College Publishing, Philadelphia.
3. Instrumental Methods of Analysis by HoberthH. Willard D.L. Merrit& J.R.J.A. Dean, Frank A. Settle; 7th Sub edition 1988; Wadsworth Publishing Company.
4. Laboratory Manual of Analytical Chemistry by C. Reilly; Allyn and Bacon, London.
5. Quantitative Analysis by W. J. Blaedal and V. W. Medloche; Harper & Row, N.Y.
6. J.G. Dick, Analytical Chemistry, McGraw-Hill, Tokyo.



ADP in Chemistry
Foundation Course-III
(Specialization) 4th Semester

Course Discipline Specific (Inorganic Chemistry)

THE PERIODIC LAW AND PERIODICITY

1. Development of periodic table.
2. Classification of elements based on orbitals (s, P, d and f).
3. Periodic trend of atomic radii, ionic radii, ionization energy, electron affinity, electro negativity and redox potential.

CHEMICAL BONDING IN MAIN BLOCK ELEMENTS

1. Lewis concept: ionic, covalent and coordinate covalent bond.
2. Valence Bond Theory (VBT).
3. Molecular Orbital Theory (MOT).
4. Valence Shell Electron Pair Repulsion Theory (VSEPR).
5. Atomic Orbital Hybridization (AOH).

ACID AND BASIS:

1. Introduction of concepts of acids and basis.
2. Relative strengths of acids and bases.
3. Significance pH, pKa and pKb.
4. Buffers: introduction, significance, buffer action and buffer capacity.
5. Theories of indicators.

CHEMISTRY OF d-BLOCK ELEMENTS

1. Introduction and electronic configuration of d-block elements.
2. Coordination compounds.
3. Werner's theory of coordination compounds.
4. Sidgwick theory of coordination compounds.
5. Valence bond theory (VBT) of complexes.
6. Crystal field theory (CFT) of complexes.
7. IUPAC rules for nomenclature of coordination compounds.

File

8. Isomerism in coordination compounds.

NUCLEAR CHEMISTRY

1. Radioactivity
- 2- Group displacement law
3. Kinetics of radioactive decay
4. Activity of radioactive substances.
5. Artificial transmutation reactions induced by different Bombarding projectiles.
6. Natural and artificial radioactive series.
7. Factors affecting the nuclear stability.
8. Detections and measurement of radioactivity.
9. Nuclear fission.
10. Nuclear fusion
11. Uses of radioactive isotopes as radioactive tracers.

Practicals

1. Laboratory Ethics and Safety Measures

Awareness about the toxic nature of chemicals and their handling, cleaning of glassware, safe laboratory operations

2. Qualitative Analysis

Analysis of four ions (two cations and two anions) from mixture of salts.

3. Quantitative Analysis

Determination of total hardness of water using EDTA.

Estimation of magnesium using EDTA

Estimation of copper (iodometrically).

Determination of chloride by Volhard and Mohr methods.

Percentage determination of barium in barium nitrate by gravimetric method.

Gravimetric determination of nickel.

Recommended Books:

1. Badar-ud-Din and Ali S. M. "Inorganic Chemistry" Ferozsons Pvt. Ltd.
2. Cartmell E. and Fowles G. W. A. "Valency and Molecular Structure" Adlard and Sons Limited. 3rd Edition (1996).

3. Cotton, F. A., Wilkinson G., Murillo C.A. and Bockhmann, M. "Basic Inorganic Chemistry" John Wiley & Sons, Inc. 2nd Edition (1987)
4. Douglas B., McDaniel D. and Alexander J. "Concepts and Models of Inorganic Chemistry" John Wiley & Sons, Inc. 3rd Edition (1994)
5. Harvey K. B. and Porter G. B. "Introduction to Inorganic Physical Chemistry" Addison- Wesley Publishing Company, Inc. (1963)
6. Hill J. W. and Petrucci R. H. "General Chemistry" Prentice-Hall, Inc. (1996)
7. Huheey J. E. "Inorganic Chemistry Principles of Structure and Rectivity" Happer and Row Publishers 2nd Edition (1978)
8. Huheey J.E. "Inorganic Chemistry Principles of Structure and Reactivity" Harper and Row Publishers. SI Unit Edition (1975)
9. Lee J. D. "Concise Inorganic Chemistry" Chapman and Hall. 5th Edition (1996)
10. Marr G. and Rockett B. W. "Practical Inorganic Chemistry" Van Nostrand Reinhold Company. (1972)
11. Miessler G.L. and Tarr Donald A. "Inorganic Chemistry" Prentice-Hall International, Inc. Prentice-Hall International Edition (1991).
12. Moody B. "Comparative Inorganic Chemistry" Routledge, Chapman and Hall, Inc. 3rd Edition (1991).
13. Shriver, D.F., Atkins P.W. and Langford C.H. "Inorganic Chemistry" Oxford University Press 2nd Edition (1994).

PRACTICAL BOOKS:

1. Baig M.M. "Inorganic Chemical Analysis" Kifayat Academy (1974).
2. Bassette J., Denney C., Jeffery G.H. and Mendham J. "Vogel's Textbook of Quantitative Inorganic Analysis Including Elementary Instrument Analysis" English Language Book Society. 4th Edition (1978).
3. Harris W.E., Kratochvil B. "An Introduction to Chemical Analysis" Saunders College Publishing. Holt-Saunders International Edition (1981). A.I. "A Text Book of Micro and Semimicro Qualitative Inorganic Analysis" Longman Green & Co. (1995).

File

ADP in Chemistry
Foundation Course-IV
(Specialization) 4th Semester

Course Discipline Specific (Organic Chemistry)

BASIC CONCEPTS IN CHEMICAL BONDING:

Localized and delocalized bonding; concept of hybridization leading to bond angles, bond energies and geometry of simple organic molecules; dipole moment; inductive effect; resonance, resonance energy, rules of resonance, resonance effect, steric inhibition of resonance; hyperconjugation; tautomerism; hydrogen bonding.

NOMENCLATURE OF ORGANIC COMPOUNDS:

Common and trivial names of organic compounds; an introduction to the systematic nomenclature of mono- and bi-functional organic compounds by IUPAC rules.

CONCEPTS OF ACIDS AND BASES:

1. Concepts of acidity & basicity.
2. Effect of structure and medium on the acidity and basicity of organic compounds.
3. Acidity of phenols
4. Acidity of aliphatic and aromatic carboxylic acids.
5. Basicity of aliphatic and aromatic amines.
6. Basicity of heterocyclic compounds.

CLOSED CHAIN HYDROCARBONS:

Synthesis, reactions and relative stability of Cycloalkanes.

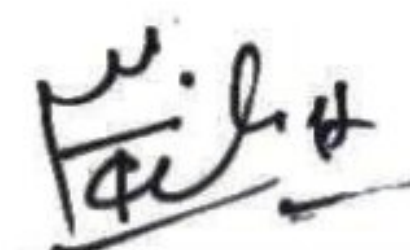
ISOMERISM

Geometrical isomerism: of configuration of geometrical isomers, Z, E convention and cis- and trans-isomerism in compounds containing two double bonds;

Optical isomerism: Optical activity, chirality and optical activity, racemisation and resolution of racemic mixtures, R, S notation, diastereoisomers.

Conformational isomerism: A brief introduction to conformation of ethane, n-butane and cyclohexane. **CARBONYL COMPOUNDS**

Introduction preparation, reactivity and chemical reactions of simple Organic Compounds.



BASIC CONCEPTS OF SPECTROSCOPY

1. Introduction to spectroscopy
2. Electromagnetic radiations and their way of interaction with matter.
3. Properties of light: Energy wave length, frequency, wave number.
4. Electromagnetic spectrum.
5. Molecular energy levels: Electronic, vibration and rotational energy levels.
6. Principles of absorption spectroscopy, Beer's Lambert law and Frank-condon principle.
7. Jablonski diagram: Excitation, relaxation, fluorescence and phosphorescence

PRACTICALS: Sixteen experiments shall be conducted based on the following:

a. Techniques

Melting and boiling point determination, Distillation, solvent extraction, crystallization.

b. Qualitative Organic Analysis

Systematic identification of organic compounds (10 Compounds)

RECOMMENDED BOOKS

Theory

1. Bansal R.K, "A Text book of Organic Chemistry" Wiley Eastern Ltd; Second Edition (1990).
2. Carrey F.A, "Organic Chemistry" The McGraw-Hill Companies, Inc; Fourth Edition (2000).
3. Finar I.L, "Fundamental Principles of Organic Chemistry" Longman, 8th Edition, Vol. I (2009).
4. March. J, "Advanced Organic Chemistry Reactions, Mechanisms and Structure" John Wiley & Sons (latest edition available).
5. Mc Murry J, "Organic Chemistry" Thomson Asia Ltd; Singapore, Fifth Edition (2000).
6. Morrison R.T, Boyd R.N; "Organic Chemistry" Prentice-Hall, Inc; 8th Edition (1992).
7. Pine S.H, Hendrickson J.B Hammond G.S, "Organic Chemistry" McGraw-Hill, Inc; Fourth Sons Inc; 5th Edition (2002).

Practical Books

- Furniss, B.S, Hannaford, A.J, Rogers, V, Smith, P.W.G, Tatchell, A.R, "Vogel's Text book of Practical Organic Chemistry Including Qualitative Organic Analysis" Longman Group Ltd; Fourth Edition (1986).
- Gosney, J.T.S, Rowley, A.G, "Practical Organic Chemistry" Chapman and Hall (1990).
- Mann, F.G, Saunders, B.C, "Practical Organic Chemistry" Lowe and Brydone (Printers) Ltd; Thetford, Norfolk (1975).
- Shriner, R.L, Fuson, R.C, Curtin, D.Y and Morrill, T.C, "The Systematic Identification of Organic Compounds (a laboratory manual)" John Wiley & Sons, Inc; Sixth Edition (1980).
- Vogel, A., I., "Practical Organic Chemistry", Longman Green & Co (1995).

ADP in Chemistry
Foundation Course-V
(Specialization) 4th Semester

Course Discipline Specific (Physical Chemistry)

PHYSICAL STATES OF MATTER

1. Ideal and real gases - introduction.
2. Law of equipartition of energy, degree of freedom, Molecular collisions.
3. Collision diameter, collision frequency, collision number and mean free path.
4. Physical properties with applications of liquids: Surface Tension, Viscosity and refractive index.
5. Unit cells and crystal systems.
6. Composite materials: Brief account with special emphasis on super conductors and semi conductors.

CHEMICAL THERMODYNAMICS

1. Lewis of thermodynamics.
2. Thermodynamic functions: internal energy, enthalpy, entropy and free energy.
3. Relation between thermodynamic functions.
4. Heat capacity.

CHEMICAL KINETICS

1. Introduction, rate of reaction, rate law, order of reaction, molecularity of reaction.
2. Zero, first and second order reactions.
3. Determination of order of reaction and rate constant.
4. Effect of temperature on the rate of reaction.

ELECTROCHEMISTRY

1. Basic concepts of electrochemistry.
2. Kohlrausch's law.
3. Debye Huckel theory.
4. Electrode potential.
5. Electrochemical cells: electrolytic cell, galvanic cell
6. Applications of Electrochemical series.

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Practical (1-Cr.Hr.)

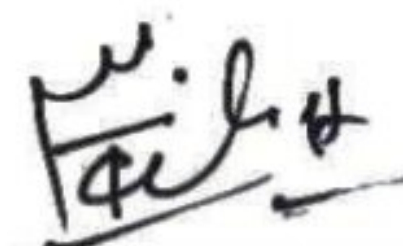
- Determination of Viscosity and parachor values of liquids.
- Determination of percent composition of liquid solutions viscometrically.
- Determination of refractive index and molar refractivity.
- Determination of percent composition of liquid solutions by refractive index measurements.
- Determination of heat of solution by solubility method.
- Determination of heat of neutralization of an acid with a base.
- Kinetic study of acid catalyzed hydrolysis of ethyl acetate.
- Determination of partition coefficient of a substance between two immiscible liquids.

Books Recommended (Theory)

1. Alberty R. "Physical Chemistry" 17th ed., John Wiley and Sons (1987)
2. Atkins, P. W. "Physical Chemistry" 6th ed., W. H. Freeman and Co. New York (1998).
3. Laidler K.J. "The World of Physical Chemistry" 1st ed., Oxford University Press (1993)
4. Laidler K.J., John H.M. and Bryan C.S. "Physical Chemistry" 4th ed., Houghton Mifflin Publishing Company Inc. (2003).
5. Peter P.A. "Chemical Thermodynamics" Oxford University Press (1983).
6. Brain S.E. "Basic Chemical Thermodynamics" 4th ed., E.L.B.S. Publishers (1990).
7. Barrow G.M. "Physical Chemistry" 5th ed., McGraw Hill (1992).

Books Recommended (Practical)

1. Jaffar M. "Experimental Physical Chemistry" University Grants Commission (1989)
2. Levitt B.P. "Findlay's Practical Physical Chemistry" 9th ed., Longman Group Limited (1978).
3. Shoemaker D. "Experiments in Physical Chemistry" 5th ed., McGraw Hill Publishing Company Limited (1989).



ADP in Chemistry
Foundation Course-VI
(Specialization) 4th Semester
Semester IV

Course Discipline Specific (Biochemistry)

Course Code: ADP-406 Credit Hrs: (3+1)

MID TERM

CARBOHYDRATES

Introduction, Classification, Monosaccharides (Glucose, Fructose), Oligosaccharides (Sucrose) and Polysaccharides (Starch, Cellulose, Glycogen). Role of carbohydrates in human body.

LIPIDS

Introduction, Classification, Simple lipids (Fats and oil), Classification of glycerides, Chemical properties of glycerides, Saponification number, Rancidity, Iodine number, acid number, Compound lipids (Phospholipid), Derived lipids (Steroid, Cholesterol), Physiological function.

AMINO ACIDS

Introduction of Amino acids, Classification, Essential and non-essential amino acids, Structure and Reactions of amino acid, Peptides.

FINAL TERM

PROTEINS

Introduction, Classification, Structure, Denaturation of protein, Role of Protein.

NUCLEIC ACIDS

Introduction, Components of nucleic acid, Nucleotide and nucleoside, Structure of nucleic acid, Structure of DNA and RNA, Biological role of nucleic acid.

ENZYMES

Introduction, Types, Factors affecting enzyme activity, Co-enzymes, Enzymes inhibition, Physical properties of enzymes, Physiological role of enzyme.

VITAMINS

Introduction, Fat-soluble vitamins (A, D, E, K), Characteristics and key role, Water-soluble vitamins (B-complex and Vitamin C), Characteristics and key role.

PRACTICALS (1-Cr. Hr.)

1. Qualitative test of carbohydrates.
2. Quantitative test of fats and oils.
3. Qualitative test of proteins.
4. Solubility test for lipids.
5. Determination of acid value of fats and oils.
6. Determination of iodine number of fat.

Dr. Muneer Ahmad
Muneer

Muneer

DIRECTOR
Institute of Chemistry
The Islamia University of Bahawalpur

M. F. H.

RECOMMENDED BOOKS: (THEORY)

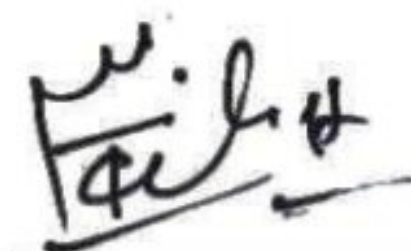
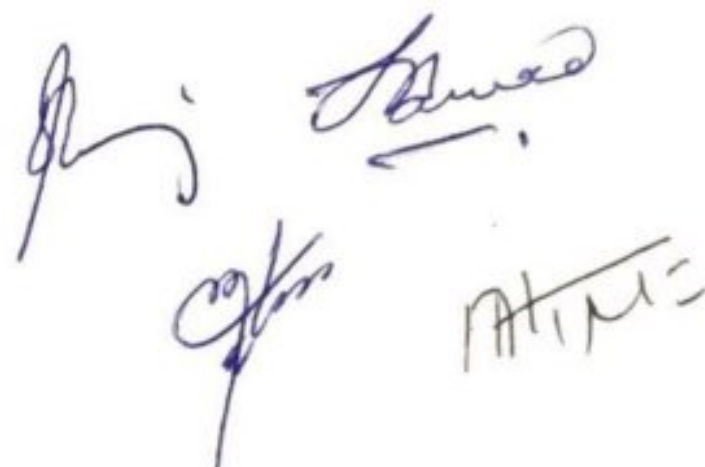
- Biochemistry by Denise R. Ferrier
- Biochemistry by U. Satyanarayana and U. Chakrapani
- Textbook of Medical Biochemistry by M. N. Chatterjea and Rana Shinde
- Harper's Illustrated Biochemistry, Lange McGraw-Hill Education
- Biochemistry by M.A. Siddiqui

PRACTICALS

- Introductory Practical Biochemistry by S.K. Sawhney



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ADP in Computer Science

Foundation Course-II (Specialization) 4th Semester

Data Structures and Algorithms		
	Prerequisites:	Programming Fundamentals
Course Learning Outcomes (CLOs):		
At the end of the course the students will be able to:		Domain
		BT Level*
1. Implement	various data structures and their algorithms, and apply them in implementing simple applications.	C
2. Analyze	simple algorithms and determine their complexities.	C
3. Apply	the knowledge of data structures to other application domains.	C
4. Design	new data structures and algorithms to solve problems.	C
* BT= Bloom's Taxonomy, C=Cognitive domain, P=Psychomotor domain, A= Affective domain		
Course Content:		
Abstract data types, complexity analysis, Big Oh notation, Stacks (linked lists and array implementations), Recursion and analyzing recursive algorithms, divide and conquer algorithms, Sorting algorithms (selection, insertion, merge, quick, bubble, heap, shell, radix, bucket), queue, dequeuer, priority queues (linked and array implementations of queues), linked list & its various types, sorted linked list, searching an unsorted array, binary search for sorted arrays, hashing and indexing, open addressing and chaining, trees and tree traversals, binary search trees, heaps, M-way trees, balanced trees, graphs, breadth-first and depth-first traversal, topological order, shortest path, adjacency matrix and adjacency list implementations, memory management and garbage collection.		
Teaching Methodology:		
Lectures, Written Assignments, Practical labs, Semester Project, Presentations		
Course Assessment:		
Sessional Exam, Home Assignments, Quizzes, Project, Presentations, Final Exam		
Reference Materials:		
<ol style="list-style-type: none"> 1. Data Structures and Algorithms in C++ by Adam Drozdek 2. Data Structures and Algorithm Analysis in Java by Mark A. Weiss 3. Data Structures and Abstractions with Java by Frank M. Carrano & Timothy M. Henry 4. Data Structures and Algorithm Analysis in C++ by Mark Allen Weiss 		

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ADP in Computer Science

Foundation Course-III (Specialization) 4th Semester

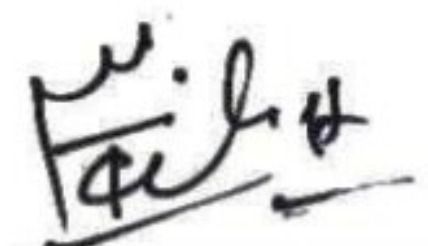
Discrete Structures		
Credit Hours:	3+0	Prerequisites: None
Course Learning Outcomes (CLOs):		
At the end of the course the students will be able to:		Domain
		BT Level*
1. Understand the key concepts of Discrete Structures such as Sets, Permutations, Relations, Graphs, and Trees etc.	C	2
2. Apply formal logic proofs and/or informal, but rigorous, logical reasoning to real problems, such as predicting the behavior of software or solving problems such as puzzles.	C	3
3. Apply discrete structures into other computing problems such as formal specification, verification, databases, artificial intelligence, and cryptography.	C	3
4. Differentiate various discrete structures and their relevance within the context of computer science, in the areas of data structures and algorithms, in particular.	C	4
* BT= Bloom's Taxonomy, C=Cognitive domain, P=Psychomotor domain, A= Affective domain		
Course Content:		
Mathematical reasoning, propositional and predicate logic, rules of inference, proof by induction, proof by contraposition, proof by contradiction, proof by implication, set theory, relations, equivalence relations and partitions, partial orderings, recurrence relations, functions, mappings, function composition, inverse functions, recursive functions, Number Theory, sequences, series, counting, inclusion and exclusion principle, pigeonhole principle, permutations and combinations, elements of graph theory, planar graphs, graph coloring, euler graph, Hamiltonian path, rooted trees, traversals.		
Teaching Methodology:		
Lectures, Written Assignments, Practical labs, Semester Project, Presentations		
Course Assessment:		
Sessional Exam, Home Assignments, Quizzes, Project, Presentations, Final Exam		
Reference Materials:		
<ol style="list-style-type: none"> 1. Discrete Mathematics and Its Applications, 7th edition by Kenneth H.Rosen 2. Discrete Mathematics with Applications, 4th Edition by Susanna S.Epp 3. Discrete Mathematics, 7th edition by Richard JohnsonBaugh 4. Discrete Mathematical Structures, 4th edition by Kolman, Busby & Ross 		

File

ADP in Computer Science

Foundation Course-IV (Specialization) 4th Semester

Web Systems & Technologies		
Credit Hours:	3 (3,0)	Prerequisites: Programming Fundamentals
Course Learning Outcomes (CLOs):		
At the end of the course the students will be able to:		Domain
		BT Level*
1. Discuss how web standards impact software development.		C
2. Describe the constraints that the web puts on developers.		C
3. Design and Implement a simple web application.		C
4. Review an existing web application against a current web standard.		C
* BT= Bloom's Taxonomy, C=Cognitive domain, P=Psychomotor domain, A= Affective domain		
Course Content:		
Web programming languages (e.g., HTML5, CSS 3, Java Script, PHP/JSP/ASP.Net), Design principles of Web based applications, Web platform constraints, Software as a Service (SaaS), Web standards, Responsive Web Design, Web Applications, Browser/Server Communication, Storage Tier, Cookies and Sessions, Input Validation, Full stack state management, Web App Security - Browser Isolation, Network Attacks, Session Attacks, Large scale applications, Performance of Web Applications, Data Centers, Web Testing and Web Maintenance.		
Teaching Methodology:		
Lecturing, Written Assignments, Project, Report Writing		
Course Assessment:		
Sessional Exam, Home Assignments, Quizzes, Project, Presentations, Final Exam		
Reference Materials:		
1. Web Engineering, Rajiv Chopra, Prentice-Hall of India,2016		
2. Web Engineering, Emilia Mendes and Nile Mosley, Springer Verlag,2010.		
3. WebEngineering: APractitioners' Approach,RogerS.Pressman,McGrawHill,2008.		
4. DynamicHTML:TheDefinitiveReference:AComprehensiveResourceforXHTML, CSS, DOM, JavaScript 3 rd Edition, O'Reilly Media2007.		
5. JavaScript: The Definitive Guide, 8 th Edition, David Flanagan. O'Reilly Media.2014.		



ADP in Computer Science

Foundation Course-V (Specialization) 4th Semester

Object Oriented Programming		
	Prerequisites:	Programming Fundamentals
Course Learning Outcomes (CLOs):		
At the end of the course the students will be able to:	Domain	BT Level*
1. Understand principles of object-oriented paradigm.	C	2
2. Identify the objects & their relationships to build object-oriented solution	C	3
3. Model a solution for a given problem using object-oriented principles	C	3
4. Examine an object-oriented solution.	C	4
* BT= Bloom's Taxonomy, C=Cognitive domain, P=Psychomotor domain, A= Affective domain		
Course Content:		
Introduction to object oriented design, history and advantages of object oriented design, introduction to object oriented programming concepts, classes, objects, data encapsulation, constructors, destructors, access modifiers, const vs non-const functions, static data members & functions, function overloading, operator overloading, identification of classes and their relationships, composition, aggregation, inheritance, multiple inheritance, polymorphism, abstract classes and interfaces, generic programming concepts, function & class templates, standard template library, object streams, data and object serialization using object streams, exception handling.		
Teaching Methodology:		
Lectures, Written Assignments, Practical labs, Semester Project, Presentations		
Course Assessment:		
Sessional Exam, Home Assignments, Quizzes, Project, Presentations, Final Exam		
Reference Materials:		
1. Java Complete Reference, 8 th /9 th edition by Herbert Schildt 2. Java: How to Program, 9 th Edition by Paul Deitel 3. Beginning Java 2, 7 th Edition by Ivor Horton		

File

ADP in Computer Science

Foundation Course-VI (Specialization) 4th Semester

Database Systems		
	Prerequisites:	None
Course Learning Outcomes (CLOs):		
At the end of the course the students will be able to:	Domain	BT Level*
1. Explain fundamental database concepts.	C	2
2. Design conceptual, logical and physical database schemas using different data models.	C	5
3. Identify functional dependencies and resolve database anomalies by normalizing tables.	C	2
4. Use Structured Query Language (SQL) for database definition and manipulation	C	4
* BT= Bloom's Taxonomy, C=Cognitive domain, P=Psychomotor domain, A= Affective domain		
Course Content:		
Basic database concepts, Database approach vs file based system, database architecture, three level schema architecture, data independence, relational data model, attributes, schemas, tuples, domains, relation instances, keys of relations, integrity constraints, relational algebra, selection, projection, Cartesian product, types of joins, normalization, functional dependencies, normal forms, entity relationship model, entity sets, attributes, relationship, entity-relationship diagrams, Structured Query Language (SQL), Joins and sub-queries in SQL, Grouping and aggregation in SQL, concurrency control, database backup and recovery, indexes, NoSQL systems.		
Teaching Methodology:		
Lectures, Written Assignments, Practical labs, Semester Project, Presentations		
Course Assessment:		
Sessional Exam, Home Assignments, Quizzes, Project, Presentations, Final Exam		
Reference Materials:		
<ol style="list-style-type: none"> 1. Database Systems: A Practical Approach to Design, Implementation, and Management, 6th Edition by Thomas Connolly and Carolyn Begg 2. Database Systems: The Complete Book, 2nd Edition by Hector Garcia-Molina, Jeffrey D. Ullman, Jennifer Widom 3. Database System Concepts, 6th Edition by Avi Silberschatz, Henry F. Korth and S. Sudarshan. 4. Database Management Systems, 3rd Edition by Ragu Ramakrishnan, Johannes Gehrke 		

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ADP in Economics

Foundation Course-II (Specialization) 4th Semester

Introduction to Macroeconomics

An Introduction to Macroeconomics

Identify the four resource categories, Create a production possibilities, create a production possibilities curve, describe the breakdown of households as income receivers and spenders, and describe the breakdown of the business population,

The Income-Consumption and Income-Saving Relationships

Scope and subject matter of macroeconomics, apply the formulas for the Average Propensity to Consume, Average Propensity to Save, Marginal Propensity to Consume and Marginal Propensity to Save, Describe the three types of business firms, describe the economic role of government, describe world trade agreements and free-trade zones.

Measuring Domestic Output and National Income

Concepts of national income, GDP & GNP, Real vs. nominal GNP, NNP, NI, PDY, measurement of Gross Domestic Product using the expenditures and income approach, describe the difference between nominal GDP and real GDP.

Business Cycles, Unemployment, and Inflation

Describe the phases of the business cycle, describe the four types of unemployment, calculate the rate of unemployment, calculate the rate of inflation, define the federal deficit, define the public debt, describe the economic implications of the growing public debt, describe the use of discretionary fiscal policy, concept of inflation, unemployment.

The Economic Basis for Trade

Balance of payment, Exchange rate and Business cycle, monetary Policy and Fiscal Policy and their role in the international trade.

Recommended Books:

1. McConnell and Brue (2006) Principles of Economics 17th Edition, McGraw Hill.
2. Lipsey and Grant (2003) Principles of Economics 10th Edition, Oxford University Press.
3. Mankiw, G. (2001) Principles of Economics 2nd Edition, South West Publishers.
4. Samuelson and Nordhaus (2004), Economics 18th Edition McGraw Hill
5. Froyen, R. T., (2002) 7th Edition, Macroeconomics: Theories and Policies, Macmillan.

ADP in Economics

Foundation Course-III (Specialization) 4th Semester

Intermediate Microeconomics I

1-Introduction: Markets and Price

The themes of microeconomics: tradeoffs, price and markets, equilibrium, theories and models, positive and normative analysis.

2-The Price Mechanism

Demand and supply, market mechanism, changes in market equilibrium, elasticity of demand and supply, short run Vs. long run elasticities, understanding and predicting the effects of changing market conditions. Effects of Govt. intervention price control.

3-Consumer Choice

Consumer behavior, consumer preferences, budget constraints, consumer choice, revealed preferences, marginal utility and consumer choice,

4-Individual and Market Demand:

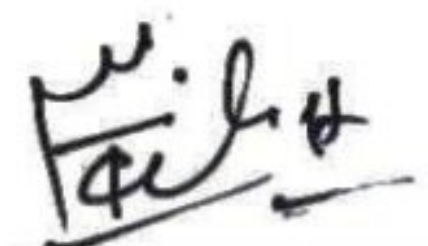
Individual demand, income and substitution effects, market demand, consumer surplus, network externalities.

5-Production

Production function, the technology of production, production with one variable input, production with two variable inputs, returns to scale.

6-Cost of Production

Measuring cost: which cost matters? Cost in the short run, cost in the long run, long run Vs short run cost curves, production with two outputs-economies of scope, dynamic changes in cost – the learning curve,



estimating and predicting the cost. Modern theory of cost, engineering cost curves, the relevance of the shape of costs in decision making.

7- The Perfectly Competitive Market

Assumptions of the model, Pure and Perfect Competition, Short-run and Long run equilibrium of competitive firms, Supply functions in the short and long run, Constant cost and increasing cost industries, Derivation of equilibrium Prices and Quantity using simple equations.

Recommended Books:

1. Pindyck, Rubinfeld, and Mehta, (2005) 6th Edition, Microeconomics, Pearson Education, Singapore.
2. Nicholson, W., (1994) 6th Edition, Intermediate Microeconomics, the Dryden Press: Harcourt Brace College Publishers.
3. Koutsoyiannis, A., (1979) 2nd Edition, Modern Microeconomics, Macmillan.
4. Varian, H. R., (2002) 6th Edition, Intermediate Microeconomics: Modern Approach, W.W. Norton Publishing Company, New York.
5. Leftwich, E., (1988) 10th Edition, The Price System and Resource Allocation, The Dryden Press, New York.

W. F. L.

ADP in Economics

Foundation Course-IV (Specialization) 4th Semester

Intermediate Macroeconomics I

Introduction to Macroeconomics

Scarcity and the allocation of resources, economic systems, production Possibilities Frontier, Market System, Scope of Macroeconomics

The Macro economy

Measuring the national economy and its effect on diverse groups in society, national income accounting, price indexes, unemployment rates and the labor force, macroeconomic problems and their effects on diverse groups in society, business fluctuations.

Inflation and Unemployment

Okun's law and unemployment, Macroeconomic theory, aggregate demand, long run, short-run, aggregate supply, long run, short run, fiscal policy, instrument, applications, money banking and monetary policy, instrument, applications, money supply, banking system, monetary theory.

The Budget Process

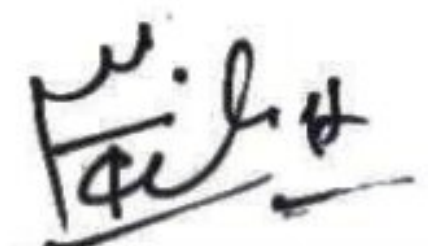
Constructing the Budget, Deficits and Surpluses, National Debt

Economic Growth

Nature and Determinants of Growth, Productivity and Technology, Economics of Development

Recommended Books:

1. Dornbusch, R., Stanley, F., (2008) 9th Edition, Macroeconomics, McGraw-Hill Inc
2. Shapiro, E., (2000) 7th Edition, Macroeconomic Analysis, Harcourt Brace Inc.
3. Froyen, R. T., (2002) 7th Edition, Macroeconomics: Theories and Policies, Macmillan.
4. Mankiw, G. N., (2007) 6th Edition, Macroeconomics, Worth Publishers, New York.
5. Blanchard, O., (2000) 2nd Edition, Macroeconomics, Prentice Hall International.
6. McConnell, C. R., Brue, S. L., & Flynn, S. M. (2009). Economics: Principles, problems, and policies: Boston McGraw-Hill/Irwin.



ADP in Economics

Foundation Course-V

(Specialization) 4th Semester

Intermediate Microeconomics II

Introduction

Economic models, classification of markets, the concept of an industry, the importance of concept of an industry, criteria for the classification of firms into industries.

Theory of demand

Theory of consumer behavior: the cardinal utility theory, the indifference curve theory, the revealed preference hypothesis, the consumer's surplus, some application of indifference curve analysis. **The market demand:** derivation of the market demand, determinant of demand, elasticities of demand, market demand, total revenue and marginal revenue. **Recent development in the theory of market demand:** the pragmatic approach to demand analysis, linear expenditure system, linear expenditure system, the demand for the product of a firm.

Theory of Production

The production function for a single product, laws of production: laws of returns to scale, the law of variable proportions, technological progress and the production function, equilibrium of a firm: choice of optimal combination of factors of production, single decision of a firm, choice of optimal expansion path, derivation of cost functions from production function, the production function of a multiproduct firm.

Theory of cost

The traditional theory of cost, modern theory of cost, engineering cost curves, the analysis of economies of scale, empirical evidence on the shape of costs, the relevance of the shape of costs in decision making.

Monopoly and Monopsony

The market power of a firm, Sources of monopoly power, Why do monopolies exist, Decreasing cost industries and natural monopolies, Comparison between monopoly and monopsony Short run and Long run Equilibrium of a firm with monopoly power Price discrimination, Bi-lateral monopoly, Multi plant monopoly, The social costs of monopolies, Public utilities and marginal cost pricing Market regulation and antitrust policies, Market equilibrium with monopoly power.

Monopolistic Competition

Characteristics of monopolistic competition, Short run and Long run equilibrium, The basic theories of monopolistic competition Comparison with pure competition & monopoly, The role of advertisement and media.

Recommended Books

1. Koutsoyiannis, A., (1979), Modern Microeconomics, Macmillan, London.
2. Pindyck and Rubinfeld with Mehta (2005), Microeconomics 6th Edition
3. Nicholson, W., 6th Edition, Microeconomic Theory: Basic Principles and Extensions, South-Western.
4. Varian, Hall R., (2002) Intermediate Microeconomics Modern approach 6th Edition, Norton publishing Company, New York.
5. Ferguson, C.E & J.P.Gould, (Latest Edition), Microeconomic Theory, Macmillan.
6. Silberberg, E., (Latest edition), The Structure of Economics; A Mathematical Analysis, McGraw. Hill

W. P. Mehta

ADP in Economics
Foundation Course-VI
(Specialization) 4th Semester

Intermediate Macroeconomics II

Introduction

The economy in aggregate, complexities of the world of business, scope of macroeconomics, brief account of the development of macroeconomics after the world war II, concept of business cycles, boom and depression, concepts of inflation and unemployment, macroeconomics variables and their mutual relationship, macro-models and abstraction from the real economy. Economic tradeoffs, Markets and macroeconomics, The theory of supply, demand and market adjustment, The current approach to macroeconomic measurement, Inflationary and deflationary gaps, Growth, price changes and real GDP, Employment and unemployment, Measuring employment and unemployment, Employment, unemployment and well-being, Aggregate demand and economic fluctuations, Aggregate demand and economic fluctuations, Aggregate demand, The Keynesian model, Fiscal policy, The role of government spending and taxes, Budgets, deficits and policy issues, The international sector, Money and monetary policy, The theory of money, prices and inflation

The demand for and supply of money

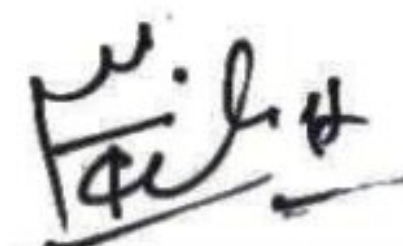
The demand for money, the quantity theory of money, the liquidity preference/portfolio balance approach, the supply of money: M1, M2, M3 concepts, the money supply multiplier and the role of banking system, instruments of credit control and the role of central bank, equilibrium of the money market, derivation of LM curve (graph), factors effecting the position and slope of the LM curve.

Determination of the National Income

The Keynesian model for a simple two sector economy, inflationary and deflationary gaps, the concepts of multiplier, interaction of the IS and LM functions and derivation of the aggregate demand function, the impact of changes in public expenditure, taxation and money supply on aggregate demand and the rate of interest.

Recommended Books:

1. Shapiro, E. (2000), Macroeconomics Analysis 7th Edition (2000) Harcourt Brace Inc.
2. Froyen, Richard T (2002), Macroeconomics Theories and Policies, Pearson Education.
3. Mankiw, Gregory N., (2000), Macroeconomics, Worth Publishers, New York.
4. Blanchard, O. (2000) Macroeconomics- 2nd edition Prentice Hall International.
5. Dornbusch, R., S. Fischer., and, R. Startz., (2004), Macroeconomics, McGraw-Hill.
6. Pakistan Economic Survey (latest), Annual reports of State Bank of Pakistan, Federal and Provisional budgets (latest).



ADP Education

Foundation Course-II (Specialization) 4th Semester

Curriculum and Instruction

INTRODUCTION

In the system of education, Curriculum is designed to provide desirable learning experiences. Curriculum is a total plan for an educational setting. Curriculum development is a process in which choices of learning experiences are made and activated through co-ordinated activities. The process starts from selection of Aims, Goals and Objectives, which guide the structure and provide direction. The next stages are selection of Content and its organization, selection of instructional strategies and evaluation.

OBJECTIVES

On the completion of the course, the student will be able to:

1. understand the concept of curriculum;
2. explain the foundations of the curriculum;
3. elaborate the needs and principles of curriculum;
4. discuss the factors affecting curriculum development;
5. understand the process of curriculum development;
6. write curriculum objectives in behavioral term;
7. examine the elements/components of curriculum development;
8. differentiate between different types of curricula;
9. Identify the problems and issues of curriculum development in Pakistan.
10. explain the concept of teaching, teaching learning strategies, and relationship among different elements;
11. examine the role of teacher in detail;
12. use various teaching learning strategies for effective classroom learning;
13. develop appropriate lesson plans according to the nature of the subject matter; use various teaching aids for effective teaching learning activities

COURSE CONTENT

WEEK-1 &2

Unit 01 Introduction to Curriculum

- 1.1 Concept of curriculum
- 1.2 Difference between curriculum, syllabus and text book
- 1.3 Need for curriculum development,
- 1.4 Principles of curriculum development
- 1.5 Elements of curriculum: Objectives, Content, Teaching methods and evaluation.
- 1.6 Factors influencing curriculum development

WEEK-3&4

Unit 02 Foundations of Curriculum

- 2.1 Philosophical/Ideological foundations
- 2.2 Historical Foundations
- 2.3 Psychological Foundations
- 2.4 Socio-economic & Cultural Foundations
- 2.5 Political Foundations

WEEK-5, 6 &7

Unit 03 Curriculum Development Process

3.1 Situation analysis

1. Need Assessment
2. Phases of need assessment
3. Conducting situation analysis

3.2 Selection of aims, goals and objectives

1. Taxonomy of educational objectives
2. Objectives of education in the current education policy

3.3 Selection of Content

1. Organization of Content
2. Selection and organization of learning experiences
3. Selection of Instructional Strategies

3.4 Evaluation

1. Types of evaluation
2. Tools of evaluation
3. Reporting
4. Evaluating curriculum and multiple textbooks

WEEK-8 MID-TERM EXAMINATION

WEEK-9 &10

Unit 04 Curriculum Design

- 4.1 Concept of curriculum design
- 4.2 Criteria of selecting curriculum design
- 4.3 Types/ pattern of curriculum
 1. Subject Centered Designs
 2. Learner centered Designs
 3. Problem or topic centered Designs
 4. Integrated curriculum

WEEK-11, 12, &13

Unit 05 Models of Curriculum Development

- 5.1 Tyler Model
- 5.2 Hilda Model
- 5.3 Lewis Model
- 5.4 Wheeler Model

WEEK-14 &15

Unit 06 Problems and Issues of Curriculum Development in Pakistan

Problems and issues of curriculum development in Pakistan

Week-16 FINAL-TERM WXAMINATION

Recommended Books

- Children Resource International (2004). Child-centered Curriculum (unit 3rd), Islamabad.
- David Minton (1997). Teaching Skills in Further and Adult Education, (revised ed.) London, City and Guilds.
- Farooq, R.A, (1993), Education System in Pakistan, Islamabad; Asia Society for Promotion of Innovation and Reforms in Education, Islamabad.
- Kelly, A.V. (1999). The Curriculum and Theory and Practice, London, Paul Chapman.

MS Neil J.D (1990). Curriculum: A Comprehensive Introduction,4th ed. Los Angeles: Harper Collins.

MurryPrint(1993). Curriculum Development and Design 2nd ed., St. Leonards, Allen and Unwin

SaxenaSwarup,N.R., and Oberoi, S.C. (1994). Technology of Teaching, *Merrut, Royal Book*

Sharma, R.C, (2002). Modern Methods of Curriculum Organization, *New Delhi*

Wiles, J.&Bomdi, J. (1993). Curriculum Development Fifth edition, *New York McMillan Publication Company.*

W. P. Singh

ADP Education
Foundation Course-III
(Specialization) 4th Semester

General Methods of Teaching

Introduction:

The purpose of course is to prepare prospective teachers in learning and using different method and techniques of teaching in order to make teaching learning process effective. Various aspects of instructions are highlighted to help teacher practice different teaching strategies successfully.

Objectives

After completion of this course students will be able to:

- Explain the basic concepts of teaching.
- Demonstrate the essential attributes of the effective teacher.
- Describe the importance and types of teacher planning
- Practice different teaching methods in classroom.
- Organize classroom discussion and demonstrate its appropriate use.
- Apply various techniques to motivate students
- Select appropriate audio visual aids in classroom teaching
- Prepare lesson plans.

Course Content:

WEEK-1 & 2

Unit 1

Introduction

- 1.1. Definitions of Teaching
- 1.2. The concept of Effective Teaching
- 1.3. Role of teacher for conducive learning environment
- 1.4. Personal Characteristics of an Effective Teacher
- 1.5. Professional Characteristics of an Effective Teacher
- 1.6. The concepts of Teaching Methods, Strategies and Techniques

WEEK-3 &4

Unit 2

Lesson Planning in Teaching

- 2.1. The Need for lesson Planning
- 2.2. Approaches to lesson Planning
- 2.3. Weekly Planning
- 2.4. Daily Planning
- 2.5. Unit Planning
- 2.6. Course Planning

WEEK-5&6

Unit 3

Steps in Lesson Planning

- 3.1. Introduction
- 3.2. Presentation
- 3.3. Generalization
- 3.4. Application
- 3.5. Recapitulation
- 3.6. The Lesson Plan Format

WEEK-7

File

- Unit 4** **Pedagogy**
4.1. Pedagogy of early childhood education
4.2. Pedagogy of elementary education

WEEK-8 **MID-TERM EXAMINATION**

WEEK-9 & 10

- Unit 5** **Inquiry Method**
5.1. The Inductive Method
5.2. Deductive Method of inquiry
5.3. Scientific Method
5.4. The Problem Solving Approach
5.5. Advantages and Limitations of Inquiry Method

WEEK-11&12

- Unit 6** **Activity Methods & Cooperative learning**
6.1. Individual Project
6.2. Group Project
6.3. Research Projects
6.4. Cooperative learning
6.5. Techniques of cooperative learning
6.6. Advantages and Limitations of activity & cooperative Method

WEEK-13&14

- Unit 7** **Demonstration Method**
7.1. What is Classroom Discussion
7.2. Planning the Discussion
7.3. Organizing the Discussion
7.4. Practicing in asking questions
7.5. Practicing in answering the questions
7.6. Assessing the discussion
7.7. Advantages and Limitations of Discussion Method

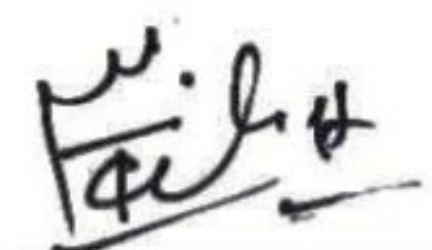
WEEK-15

- Unit 8** **Student Motivation**
8.1. Concept of Motivation
8.2. Intrinsic Motivation
8.3. Extrinsic Motivation
8.4. Theories of Motivations
8.5. Strategies to Motivate Students

WEEK-16 **FINAL-TERM EXAMINATION**

Recommended Books

- Allen, Mendler, (2009). "Motivating Students Who Don't Care": Successful Techniques for Educators. Amazon.com
Arends, R.I. (2007) "Learning to Teach" (7th Edition, McGraw Hill International Edition). Boston: McGraw Hill.
Bhatt, B. D. (1995). *Modern methods of teaching: Concept and techniques*. New Delhi: Kanishka.
Borich, G. D. (2000). *Effective teaching methods*. Upper Saddle River, N.J: Merrill.
Cruickshank, D. R., Jenkins, D. B., & Metcalf, K. K. (1995). *The act of teaching*. New York: McGraw-Hill.
Ellington, H et al. (2005) "Handbook of Educational Technology" (3rd Edition). London: Kogan Page Limited.



- Feldman, J. A., & McPhee, D. (2008). *The science of learning & the art of teaching*. Clifton Park, NY: Thomson Delmar Learning.
- In Peterson, A. D. C. (1965). *Techniques of teaching*. Oxford: Pergamon Press
- Kochhar, S. K. (1967). *Methods & techniques of teaching*. Delhi: Sterling Publishers.
- Marzano, R. J. (2007). *The art and science of teaching: A comprehensive framework for effective instruction*. Alexandria, Va: Association for Supervision and Curriculum Development.
- Singer, A. J. (2003). *Teaching to learn, learning to teach: A handbook for secondary school teachers*. Mahwah, N.J: L. Erlbaum Associates.
- Wellington, J. J., Ireson, G., & Wellington, J. J. (2008). *Science learning, science teaching*. London: Routledge.

W. J. J.

ADP Education
Foundation Course-IV
(Specialization) 4th Semester

Learning Theories

Title:	Learning Theories
Credit Rating:	03 credit hours
Level:	ADP
Delivery:	Semester 3 or 4
Tutor/s:	
Pre-requisites:	May be an aptitude test

This course will examine the major theories and models for understanding how students learn. Attention will be given to the cognitive, affective and sensory/psychomotor domains and implications for learning through differing modalities. Contributions of neuroscience to understanding adolescent research are explored, and structural barriers to learning such as stereotype threat are discussed. Students will gain insights into the interplay of learner characteristics, prior experiences, the medium of instruction, and cultural influences and understand that learning is contextual, with no single theory universally applying to every student in every situation.

Objectives of the course:

At the end of course scholar may be able to:

- Demonstrate an understanding of the concept of learning.
- Promoting knowledge of the essential theoretical assumptions underlying the learning.
- Making students able to demonstrate basic knowledge of major issues or topics related to learning theories.
- Discuss the domains and characteristics of learning
- Discuss in detail all the learning theories used in educational setting.

COURSE CONTENT:

Mid-Term

1. Learning and Learning Process
2. Types of Learning
3. Understanding Conditions of Learning
4. Piaget's Theory of Cognitive Development

Final-Term

5. Blooms' Domains of Learning
6. Thorndike theory of learning
7. Operant Conditioning
8. Social Cognitive Theory

Teaching Learning Hours

Activity	Hours allocated
Staff/student contact (teaching, discussion, presentation, seminar, quiz,	48

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surprise test etc.)	
Private study (preparing assignments/presentations)	32
Reading	20
Total hours	100

Teaching Methods:

Creating social coherence
 Suitable opening sessions for module preparation
 Small group teaching and learning, group work and grading
 Lectures, Slide presentations, discussion, one to one interaction, Individual and small group presentation, Seminars, Cooperative performance activity

Learning methods & techniques

- Group discussion, Interactive sessions, independent learning, Field projects, Creative assignments/work, Material search/books/reports/ documents/internet
- Tutorial, presentations, Assignment/essay/project/material preparation /research

Teaching and learning assessment

Pre-test, optional tutorials, flexible module delivery
 Checking progress with feedback, multiple layers of support, video/audio lectures, mixing students, special seminar groups, varied assignments, graded assignments, pacified reading list, resource-based learning,

Reading Sources

Graham, Stephen, and Simon Marvin. (2001). Splintering Urbanism: Networked Infrastructures, Technological Mobilities and the Urban Condition. New York: Routledge.

Hardt, Michael, and Antonio Negri. 2000. Empire. Cambridge, Mass.: Harvard University Press. Harvey.

David. (1990). The Condition of Postmodernity: An Enquiry into the Origins of Cultural Change. Cambridge, MA: Blackwell.

Inda, Jonathan Xavier, and Renato Rosaldo. 2002. The Anthropology of Globalization: A Reader. Malden, MA: Blackwell Publishers.

Peña, Devon Gerardo. 1997. The Terror of the Machine: Technology, Work, Gender, and Ecology on the U.S.-Mexico Border. 1st ed. Austin, TX: Center for Mexican American Studies the University of Texas at Austin.

Richard J. Payne, (2009). Global Issues: Politics, Economics and Culture, 2/E. Illinois State University. Longman.

<https://www.educationcorner.com/learning-theories-in-education/>

File

ADP Education
Foundation Course-V
(Specialization) 4th Semester

Course Title: Teaching Practice

Credit Hours: 3(0+3)

Course Description:

Student Teaching is the most important experience in teacher education program and is generally based on a country's National Education policy. Teaching practice is a compulsory course for all aspiring student teachers registered in a teacher education programs to prepare them as good future teachers. During this developmental practicum, you are expected to critically select and use appropriate materials, resources (including persons in the community), and technology, and to have opportunities to employ various classroom-management techniques and a variety of formative and summative evaluation techniques (including authentic assessment). During this period, most programmers focus on: Instructional planning, use of Instructional technology, Micro-teaching mentoring (Model Teaching, Assessment, Feedback), Study of teaching methods and posting of students to schools where they can practice their major courses of study.

Expected Learning Outcomes:

- Reflect on and learn from connecting theory and their teaching practice
- Produce plans for teaching and learning that reflect the use of appropriate instructional methods and strategies to meet the needs of all students within the context of the practicum classroom
- Recognize cognitive and affective needs of children and establish learning environments and use activities appropriate to meeting those needs.
- Utilize appropriate instruments or techniques for informally and formally assessing children's learning and children's learning needs

Course Content:

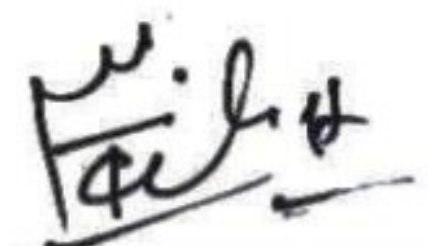
Unit 1: Teaching

- Definitions of Teacher and Teaching
- Maxims of Teaching
- Introduction to National Professional Standards for Teachers in Pakistan
- Activity: Students will be asked to recall all their teachers and write down the qualities of all teachers they like the most as a student

Unit 2: Teaching Practice

- Introduction to Teaching practice
- Teaching Practice, its Need and Importance for Prospective Teachers
- Tasks Needs to be Performed during Teaching Practice
- Activity: Students will enlist all activities performed in schools and prepare an attendance register

Unit 3: Lesson Planning



- Introduction to Lesson Plan
- Need and Importance of Lesson Planning
- Approaches of Lesson Plan used in Pakistan
- Activity: students will discuss on lesson plan

Unit 4: Formulation of Objectives

- Formulation of General Objectives
- Formulation of Specific Objectives
- Activity: Student will prepare general and specific objectives

Students will prepare and deliver lessons in the class (in-house teaching practice)

Unit 5: Teaching Methods

- Different Teaching Methods
- Teaching Methods for Science, English, Urdu, Math, Islamiat, Social Studies, Teaching of Grammar
- Activity: Students will provide a list of different teaching methods used in different subjects and for different topics

Unit 6: Audio Visual Aids

- Audio Visual Aids in School
- Personal Audio-Visual Aids
- Use of White Board
- Principles of use of Audio-Visual Aids
- Activity: Students would ask to use most available personal and classroom A.V Aids particularly white board, laptops and other low-cost A.V Aids

Unit 7: Presentation of Content

- Presentation of the Content in Proper Way
- Good Presentation v/s Bad Presentation
- Activity: Students would come to the white board and perform the steps of a good presentation

Unit 8: Qualities of a Good Teacher

- Professional
- Knowledge Seeker
- Physically Sound
- Emotionally Stable
- Socialized 9.6 Revolutionary
- Having Good Sense of Dressing
- Activity: Conduct a discussion with student about how they perceive a good teacher should be

NOTE:

IN OVERALL all students will prepare and deliver 40 lessons in two different subjects (20 in each subject) according to the specialization. English is compulsory for the students of arts and humanities groups.

Suggested Readings:

Brown, P.D., & Brown, N.R. (1990). Effective teaching practice. England: Stanley

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- Thornes. Carnoy, M. (2006). Lessons from the past two decades: Investment choices for education and growth. Stanford: Stanford University.
- Furlong, V.J.P.U., & Hirst, K. P. (1988). Initial teacher training and the role of the school. Philadelphia: Open University Press.
- Kiggundu E., & Nayimuli, S. (2009). Teaching practice: a make or break phase for student teachers. South African Journal of Education, 29(3), 345-358.
- Marais, P. & Meier, C. (2004). Hear our voices: student teachers' experience during practical teaching. Africa Education Review, 1,220-233.
- Ngidi, D.P. & Sibaya, P.T. (2003). Student teacher anxieties related to practice teaching. South African Journal of Education, 23,18-22.
- Stones E., & Morris, S. (1972). Teaching practice: Problems and perspectives: A reappraisal of the practical professional element in teacher preparation. Washington DC:
- Taylor & Francis. Taneja, R.P.(2000). Encyclopedia of comparative education (Vol.4). New Delhi: Anmol Publications Pvt. Ltd.
- University of Dar es Salaam, (2005). Facts and Figures 2004/2005. Dar es Salaam: University of Dar es Salaam.
- Strahan, D. (2003). Promoting a collaborative professional culture in three elementary schools that have beaten the odds. The Elementary School Journal, 104(2), 127–146.
- Supovitz, J. A. (2002). Developing communities of instructional practice. Teachers College Record, 104(8), 1591–1626.
- DfE. (2014a). Teacher training options. Retrieved from <http://www.education.gov.uk/getinto-teaching/teacher-training-options> DfE. (2014b). University-led teacher training. Retrieved from <http://www.education.gov.uk/get-into-teaching/teacher-trainingoptions/universitybased-training.aspx>
- Lucas, N., Nasta , T., & Rogers, L. (2012). From fragmentation to chaos? The regulation of initial teacher training in further education. British Educational Research Journal, 677– 695.

ADP Education
Foundation Course-VI
(Specialization) 4th Semester

Islamic History of Education

Title	History of Islamic Education
Credit Hours	03
Level	BS Secondary Education
Semester	3 rd
Tutor	

Objectives:

The objective of this course is to develop theoretical and practical knowledge of the students about meaning, definitions, concept, aims, functions, resources, foundations, major sections and current trends of Education and History.

Learning Outcomes:

- ❖ Demonstrate at least a basic knowledge of theory, principles, conceptual framework and methodology of the selected areas of the subject
- ❖ Have an understanding of some of the relevant social and economical context within the subject

Key Transferable Skills:

- ❖ Students will be motivated to use learning technologies during presentation
- ❖ Communication skills through groups and individual discussion and oral presentation
- ❖ Searching of relevant and appropriate material related to topic

Curriculum Contents:

Sr.No	Topics	
		Mid-Term
(1)	Islamic Philosophy of Education	اسلام کا فلسفہ تعلیم
(i)	Origin of Islamic Education (Suffah)	اسلامی تعلیم کا آغاز (صفہ)
(ii)	Concept of Islamic Education	اسلامی تعلیم کا تصور
(iii)	Importance of Education according to Quran and Hadith	تعلیم کی اہمیت قرآن و حدیث کی روشنی میں
(iv)	Aims of Education	تعلیم کے مقاصد
(v)	Reflection Wisdom, Promotion of Truth and Moral Deeds	تفکر و تدبیر، حقیقت کی ترویج اور نیک اعمال کی ترغیب
(2)	Islam and Educational Evolution	اسلام و تعلیم کا ارتقاء (تعارف)
(i)	Era of Caliphs	خلفائے راشدین کا دور (تعارف)
(ii)	Era of Banu Ummayyah	بنو امیہ کا دور (تعارف)
(iii)	Era of Abbasids	عباسی دور (تعارف)

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(iv)	Ottoman Empire and Educational Development	سلطنت عثمانیہ اور تعلیمی ترقی (تعارف)
	Final-Term	
(3)	Introduction of Educational Evolution of Muslims Philosophers	موسلم مفکرینا تعلیم کے نظریات کا تعارف
(i)	Educational Theories of Imam Ghazali	امام غزالی کے نظریات تعلیم (تعارف)
(ii)	Educational Philosophy of Ibne Khaldoon	ابن خلدون کا فلسفہ تعلیم (تعارف)
(iii)	Moral Education of Shah Waliullah	شاہ ولی اللہ کا صواب اخلاقی تعلیم (تعارف)
(iv)	Educational Thoughts of Dr. Allama Iqbal	ڈاکٹر اعلیٰ محمد اقبال کے تعلیمی افکار (تعارف)
(v)	Educational Achievements of Muslims Scientist	مسلم سائنسدانوں کی تعلیمی خدمات (تعارف)
(4)	Introduction of Educational Measurement in Subcontinent	برصغیر میں تعلیمی ارتقار (تعارف)
(i)	Educational Movement of Sir Syed Ahmad	سر سید احمد خان کی تعلیمی تحریک (تعارف)
(ii)	Educational Movement of Dar-ul- Aloom Deo Band	دارالعلوم دیوبند کی تعلیمی تحریک (تعارف)
(iii)	Educational Achievements of "JAMIA MILLIA"	جامعہ ملیہ کی تعلیمی خدمات (تعارف)
(iv)	Islamic Education in Pakistan	پاکستان میں اسلامی تعلیم (تعارف)

Teaching and Learning Methods:

The course contents will be taught employing a variety of teaching learning techniques including tutor presentation, creating social coherence, individual and group discussions, reading tasks, written assignments and students' presentations and cooperative performance activity.

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W. F. H. S.

ADP in English Linguistics

Foundation Course-II (Specialization) 4th Semester

Course Title: Introduction to Literary Studies

Course Description

This course introduces literature as cultural and historical phenomena. This entails a study of history of various periods of English Literature from Renaissance to the present. The course also, very briefly, touches upon different theoretical approaches to literature to introduce the student to literary critique and evaluation. A general understanding of literary theory as a broad field of philosophical concepts and principles is also crucial to the understanding of literary piece.

Course Objectives

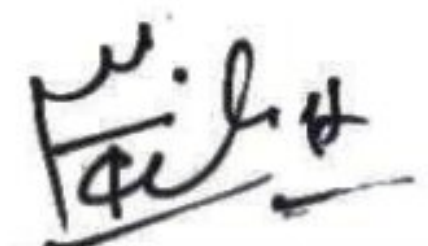
1. To study the history and practice of English as a scholarly discipline.
2. To study the history and development of each genre through excerpts of literary texts.
3. To do close reading of texts and analyze them with different critical frameworks.
4. To analyze and criticize the works of literature in their cultural and historical contexts.
5. To assess the influence of literary movements in Britain on English literature from all parts of the world.

Course Contents

1. William Henry Hudson. *Introduction to the Study of Literature* (1913)
2. Andrew Sanders. *The Short Oxford History of English Literature* (1994)
3. Mario Klarer. *Introduction to Literary Studies* (1999)
4. J. H. Miller. *On Literature* (2002)

Suggested Readings

- Albert, E. (1979). *History of English Literature* (5th ed.). Oxford, New York: Oxford University Press.
- Alexander, M. (2000). *A History of English Literature* London: Palgrave Macmillan.
- Blamires, H. (1984). *A Short History of English Literature*. London: Routledge.
- Carter, R., & McRae, J. (1997). *The Routledge History of Literature in English, Britain and Ireland*. London: Routledge.
- Chin, B. A., Wolfe, D., Copeland, J., & Dudzinski, M. A. (2001). *Glencoe Literature: British Literature*. New York: McGraw-Hill Higher Education.



- Compton-Rickett, A. (1912). *A History of English Literature*. London: T. C. and E. C. Jack.
- Daiches, D. (1968). *A Critical History of English Literature*. London: Martin Secker and Warburg Ltd.
- Fletcher, R. H. (1919). *A History of English Literature*. Boston: R. G. Badger.
- Legouis, E., & Cazamian, L. (1960). *A History of English Literature*. London: J. M. Dent and Sons.

W. Fisher

ADP in English Linguistics

Foundation Course-III (Specialization) 4th Semester

Course Title: World Literature in English Translation

Course Description

This course covers the body of selected pieces of world literature in Translation: its techniques, thematic concerns, and theoretical viewpoints. By focusing on salient aspects of world literature, this course aims to accomplish among students a habit of alternative interpretations of contemporary intercontinental cultural and political ethos under transition.

Course Contents

Selected Readings of

1. Rumi
2. Muhammad Ḥāfeẓ-e Shīrāzī
3. Ghalib
4. Allama Muhammad Iqbal
5. Tagore
6. Khalil Jibran
7. Guy de Maupassant: The Necklace
8. The String
9. Any other poets or prose writer selected by the teacher

Recommended Readings

- Barks, C. (2007). *Rumi: Bridge to the soul - journeys into the music and silence of the heart*.
- Barks, C. (2010). *The Soul of Rumi: A New Collection of Ecstatic Poems*.
- *Garden of Heaven*. (2012). Place of publication not identified: Dover Publications.
- Ḥāfīz, ., Arberry, A. J., & Hafiz, S. (1970). *Fifty poems of Hafiz: Text and translations*. Richmond: Curzon Press.
- Hafez, S. (n.d.). *A Reader of Modern Arabic Short Stories [electronic resource]*.
- Iqbal, M., & Kiernan, V. G. (2003). *Poems from Iqbal: Renderings in English verse with comparative Urdu text*. Lahore: Iqbal Acad.
- Bushrui, S., & Malarkey, J. (2014). *The Literary Heritage of the Arabs: An Anthology*. New York: Saqi.
- Maupassant, G. ., Kelley, G., Artinian, A., & Hoopla digital. (2016). *The necklace*. United States: Xist Publishing.

ADP in English Linguistics

Foundation Course-IV (Specialization) 4th Semester

Course Title: World Englishes

Course Description

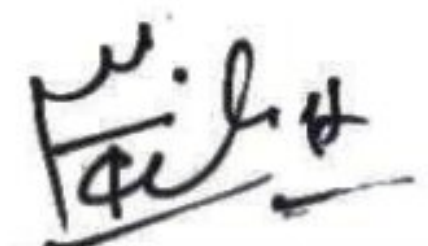
This course is an attempt to present a link between the link between English as lingua Franca and International Englishes. This course is an introductory course for the students of Linguistics to show the historical background of the phenomenon of World Englishes. The application of linguistic knowledge gives an equal status to all varieties of English in the modern world. The course introduces the practical important features of Pakistani English (PE) as an emerging variety. It will highlight the use of PE as a vehicle of formal and informal communication in Pakistan.

Course Contents

1. Introduction to the course & historical background
2. Language Variation
3. Levels of language variation
4. Language change and language contact
5. Ecology comes first
6. Categorizing World Englishes
7. Interrelationship of World Englishes to Sociolinguistics
8. Major Trends in World Englishes specifically in ESL situation
9. South Asian Englishes
10. Pakistani English: Introduction
11. Historical Background of Pakistani English
12. Pakistani English and cultural context
13. Pedagogical impact of using Pakistani English in classroom
14. Discussion on the practicality of training in language teaching methods for teachers and learners with special reference to Pakistani English
15. Status of Pakistani English (Moag, Kachru, Schneider's Models)
16. Language policy and planning
17. Future prospectus
18. English as a Lingua Franca
19. International English(IE)
20. PE as an independent variety
21. Fiction in Pakistani English
22. Poetry in Pakistani English
23. Journalistic Language of Pakistani Newspapers

Suggested Readings

- Baumgardner, R.J. (ed.) (1993). The English Language in Pakistan Karachi: Oxford University Press.
- Baumgardner, Robert J. (1987). Utilizing Pakistani Newspaper English to teach Grammar'. World Englishes 6.3:241-252.
- Baumgardner, Robert J. (Eds). (1993). The English Language in Pakistan. Oxford: Oxford University Press.



- Baumgardner, Robert J. (Eds). (1996). South Asian English: Structure, Use and Users . Urbana and Chicago: University of Illinois Press .Kachru,B.B.(1983).
- Constructing Meaning in World Englishes (2010) by Ahmar Mahboob and Eszter Szenese
- Crystal, D. (1995). *The Cambridge encyclopedia of the English language*. Cambridge: Cambridge University Press.
- Crystal, D. (1997). *English as a global language*. Cambridge: Cambridge University Press.
- English Around The World: An Introduction (2011) by Edgar W. Schneider
- English as an Islamic Language: A Case Study of Pakistani English (2009) by Ahmar Mahboob
- English: The Industry (2011) by Ahmar Mahboob Pakistan English (2014) by Tariq Rahman
- Graddol, D. (1997). *The future of English: A guide to forecasting the popularity of English in the 21st century*. London: British Council.
- Kachru Braj B. (1983). *The Indigenization of English : The English Language of India* . Delhi: Oxford University Press.
- Kachru Braj B. , Yamuna, & Nelson, C.(2006). (Eds). *The Handbook of varieties of English* .Oxford:Blackwell.
- Mahboob, A. (2004). Pakistani English: Morphology and Syntax. In Kortmann, Bernd /Schneider, Edgar W. (eds.). *A Handbook of Varieties of English: Volume 2: Morphology and Syntax*, (pp. 1045- 1057). Berlin: Walter de Gruyter.
- Mehmood, M. A. (2009). *A Corpus Based Analysis of Pakistani English*. Ph D Dissertation BZU Multan
- Pakistani English: Phonology (2004) by Ahmar Mahboob and Nadra Huma Ahmar
- The Form and Functions of English in Pakistan (2002) Dr Mubina Talaat Ph D Dissertation
- The Routledge Handbook of World Englishes (2010) Edited by Andy Kirkpatrick

File

ADP in English Linguistics

Foundation Course-V (Specialization) 4th Semester

Grammar and Syntax

Course Description

Syntax is concerned with sentence structure - how words are combined to form phrases, how phrases are combined to form larger phrases, clauses and sentences, and how clauses are combined to form complex sentences. Ability to identify constituents and agreement constraints helps students to improve and correct their academic writing. The course is practical in focus and aims to teach students essential skills for the linguistic description and analysis of a language. The course also includes basic syntactic theories.

Course Objectives

The course aims to:

- acquaint students with basics of syntax
- enable students to identify various parts of speech through structural signals
- introduce the major syntactic structures of the English language to students
- enable students to recognize various grammatical constructions
- familiarize students with some elementary syntactic theories

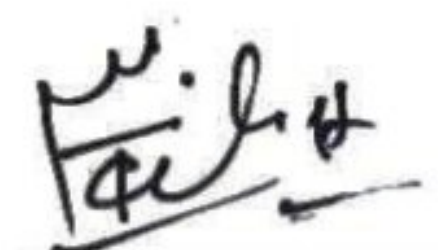
Course Contents

1. Syntax

- Some concepts and misconceptions
- What is the study of syntax about?
- Use of linguistic examples
- Why not just use examples from English?
- How to read linguistic examples
- Why do languages have syntax?

2. Structure of Phrase

- NP: Noun Phrase
- VP: Verb Phrase
- AP: Adjective Phrase
- AdvP: Adverb Phrase
- PP: Preposition Phrase
- Grammar with phrases



3. Clause

- Clause and sentence
- Main and sub-ordinate clauses
- Clause constructions
- Recognizing clauses

4. Grammatical Functions

- Introduction
- Subject
- Direct and indirect object
- Complements
- Modifiers

79

- Form and Function together

5. Head, Complements and Modifiers

- What is a head?
- Head and its dependents
- Projections from lexical heads to modifiers
- Differences between modifiers and complements
- PS Rules, X Rules and Features

6. Constituents and Tree diagrams

- What is a constituent?
- Evidence of structure in sentences
- Some syntactic tests for constituent structure
- Introduction to constituent structure trees
- Relationships within the tree
- Developing detailed tree diagrams and tests for constituent structure
- An introduction to the bar notation

7. Phrase Structure Grammar

8. Transformational Generative Grammar

- Generative Grammar

W. F. H.

- Properties of Generative Grammar
- Deep & Surface structures
- Transformational Grammar
- Transformational Rules

9. Basics of Systemic Functional Linguistics

Recommended Books

- Miller, Jim. (2002). *An Introduction to English Syntax*. Edinburg University Press.
- Prasad, Tarni. (2012). *A course in Linguistics*. New Delhi: PHI Publications.
- Sells, Peter & Kim, Jong-Bok. (2007). *English Syntax: An Introduction*.
- Tallerman, M. (2015). *Understanding syntax* (4th ed). Routledge, London.
- Wekker, H., & Haegeman, L. M. (1985). *A modern course in English syntax*. Croom Helm.
- Valin, Jr., Robert. (2001). *An Introduction to Syntax*. Cambridge University Press.

File

ADP in English Linguistics

**Foundation Course-VI
(Specialization) 4th Semester**

Lexicology

Mid

- * word meaning
- * polysemy, Homonymy, context

Final

- * vocabulary as a system of sense relation
- * morphological structures
- * word formation

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ADP in English Literature

Foundation Course-II (Specialization) 4th Semester

Grammar and Syntax

Course Description

Syntax is concerned with sentence structure - how words are combined to form phrases, how phrases are combined to form larger phrases, clauses and sentences, and how clauses are combined to form complex sentences. Ability to identify constituents and agreement constraints helps students to improve and correct their academic writing. The course is practical in focus and aims to teach students essential skills for the linguistic description and analysis of a language. The course also includes basic syntactic theories.

Course Objectives

The course aims to:

- acquaint students with basics of syntax
- enable students to identify various parts of speech through structural signals
- introduce the major syntactic structures of the English language to students
- enable students to recognize various grammatical constructions
- familiarize students with some elementary syntactic theories

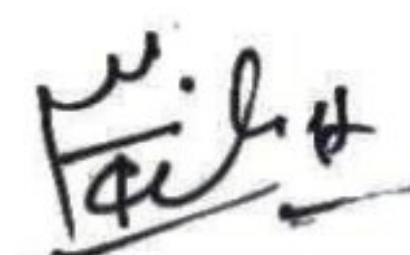
Course Contents

1. Syntax

- Some concepts and misconceptions
- What is the study of syntax about?
- Use of linguistic examples
- Why not just use examples from English?
- How to read linguistic examples
- Why do languages have syntax?

2. Structure of Phrase

- NP: Noun Phrase
- VP: Verb Phrase
- AP: Adjective Phrase
- AdvP: Adverb Phrase
- PP: Preposition Phrase



- Grammar with phrases

3. Clause

- Clause and sentence
- Main and sub-ordinate clauses
- Clause constructions
- Recognizing clauses

4. Grammatical Functions

- Introduction
- Subject
- Direct and indirect object
- Complements
- Modifiers

79

- Form and Function together

5. Head, Complements and Modifiers

- What is a head?
- Head and its dependents
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- What is a constituent?
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- An introduction to the bar notation

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7. Phrase Structure Grammar

8. Transformational Generative Grammar

- Generative Grammar
- Properties of Generative Grammar
- Deep & Surface structures
- Transformational Grammar
- Transformational Rules

9. Basics of Systemic Functional Linguistics

Recommended Books

- Miller, Jim. (2002). *An Introduction to English Syntax*. Edinburg University Press.
- Prasad, Tarni. (2012). *A course in Linguistics*. New Delhi: PHI Publications.
- Sells, Peter & Kim, Jong-Bok. (2007). *English Syntax: An Introduction*.
- Tallerman, M. (2015). *Understanding syntax* (4th ed). Routledge, London.
- Wekker, H., & Haegeman, L. M. (1985). *A modern course in English syntax*. Croom Helm.
- Valin, Jr., Robert. (2001). *An Introduction to Syntax*. Cambridge University Press.

W. F. H.

ADP in English Literature

Foundation Course-III (Specialization) 4th Semester

Introduction to Literary Studies

This course introduces literature as cultural and historical phenomena. This entails a study of history of various periods of English Literature from Renaissance to the present. The course also, very briefly, touches upon different theoretical approaches to literature to introduce the student to literary critique and evaluation. A general understanding of literary theory as a broad field of philosophical concepts and principles is also crucial to the understanding of literary piece.

Course Objectives

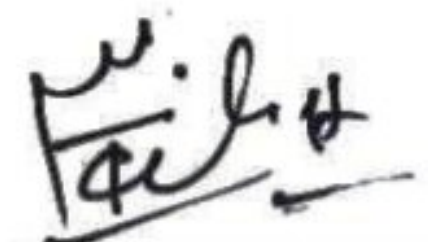
6. To study the history and practice of English as a scholarly discipline.
7. To study the history and development of each genre through excerpts of literary texts.
8. To do close reading of texts and analyze them with different critical frameworks.
9. To analyze and criticize the works of literature in their cultural and historical contexts.
10. To assess the influence of literary movements in Britain on English literature from all parts of the world.

Course Contents

4. William Henry Hudson. *Introduction to the Study of Literature* (1913)
5. Andrew Sanders. *The Short Oxford History of English Literature* (1994)
6. Mario Klarer. *Introduction to Literary Studies* (1999)
- 4 J. H. Miller. *On Literature* (2002)

Suggested Readings

- Albert, E. (1979). *History of English Literature* (5th ed.). Oxford, New York: Oxford University Press.
- Alexander, M. (2000). *A History of English Literature* London: Palgrave Macmillan.
- Blamires, H. (1984). *A Short History of English Literature*. London: Routledge.
- Carter, R., & McRae, J. (1997). *The Routledge History of Literature in English, Britain and Ireland*. London: Routledge.
- Chin, B. A., Wolfe, D., Copeland, J., & Dudzinski, M. A. (2001). *Glencoe Literature: British Literature*. New York: McGraw-Hill Higher Education.
- Compton-Rickett, A. (1912). *A History of English Literature*. London: T. C. and E. C. Jack.



- Daiches, D. (1968). *A Critical History of English Literature*. London: Martin Secker and Warburg Ltd.
- Fletcher, R. H. (1919). *A History of English Literature*. Boston: R. G. Badger.
- Legouis, E., & Cazamian, L. (1960). *A History of English Literature*. London: J. M. Dent and Sons.

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ADP in English Literature

Foundation Course-IV (Specialization) 4th Semester

Academic Reading and Writing

Course Description

This course aims at inculcating proficiency in academic writing through research. It guides students to develop a well-argued and well-documented academic paper with a clear thesis statement, critical thinking, argumentation and synthesis of information. This course also teaches students how to use different systems of citations and bibliography. It allows students to become independent and efficient readers armed with appropriate skills and strategies for reading and comprehending texts at undergraduate level.

Course Objectives

To enable the students to:

- Improve literal understanding, interpretation & general assimilation, and integration of knowledge
 - Write well organized academic texts including examination answers with topic/thesis statement and supporting details.
 - Write argumentative essays and course assignments
- Course Contents
- Reading and Critical Thinking
1. Read academic texts effectively by:
 - Using appropriate strategies for extracting information and salient points according to a given purpose
 - Identifying the main points supporting details, conclusions in a text of intermediate level
 - Identifying the writer's intent such as cause and effect, reasons, comparison and contrast, and exemplification.
 - Interpreting charts and diagrams
 - Making appropriate notes using strategies such as mind maps, tables, lists, graphs.
 2. Reading and carrying out instructions for tasks, assignments and examination questions
 3. Enhance academic vocabulary using skills learnt in Compulsory English I course
 3. Acquire efficient dictionary skills such as locating guide words, entry words, choosing appropriate definition, and identifying pronunciation through pronunciation key, identifying part of speech, identifying syllable division and stress patterns

4. Writing Academic Texts:

1. Plan their writing: identify audience, purpose and message (content)
2. Collect information in various forms such as mind maps, tables, charts, lists
3. Order information such as:
 - Chronology for a narrative
 - Stages of a process
 - From general to specific and vice versa
 - From most important to least important
 - Advantages and disadvantages
 - Comparison and contrast
 - Problem solution pattern
4. Write argumentative and descriptive forms of writing using different methods of developing ideas like listing, comparison, and contrast, cause and effect, for and against
 - Write good topic and supporting sentences and effective conclusions
 - Use appropriate cohesive devices such as reference words and signal markers

File #

5. Redraft checking content, structure and language.

6. Edit and proof read

7. Grammar in Context

- Phrase, clause and sentence structure
- Combining sentences
- Reported Speech

Recommended Readings

- Eastwood, J. (2004). English Practice Grammar (New edition with tests and answers). Karachi: Oxford University Press.
- Fisher, A. (2001). Critical Thinking. CUP
- Goatly, A. (2000). Critical Reading and Writing: An Introductory Course. London: Taylor & Francis
- Hacker, D. (1992). A Writer's Reference. 2nd Ed. Boston: St. Martin's
- Hamp-Lyons, L. & Heasley, B. (1987). Study writing: A course in written English for academic and professional purposes. Cambridge: Cambridge University Press.
- Howe, D. H, Kirkpatrick, T. A., & Kirkpatrick, D. L. (2004). Oxford English for Undergraduates. Karachi: Oxford University Press.
- Murphy, R. (2003?). Grammar in Use. Cambridge: Cambridge University Press.
- Smazler, W. R. (1996). Write to be Read: Reading, Reflection and Writing. Cambridge: Cambridge University Press.
- Wallace, M. (1992). Study Skills. Cambridge: Cambridge University Press.
- Yorky, R. Study Skills.

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ADP in English Literature

Foundation Course-V (Specialization) 4th Semester

General and Applied Linguistics

Course Objectives

This course is a gateway to the field of general and applied linguistics. It will introduce students to different methods adopted throughout the tradition of language teaching to teach language at the same time probing into the approaches, linguistic or psychological, that backed them. The knowledge of this will prepare the students to cope with the other subjects. This course further aims at introducing fairly advanced ideas related to syllabus designing and implementation. It offers a review of dominant and competing syllabuses in the 20th century focusing especially on the milieu of their rise and the cause of their decay both. The theory will go in this course hand in hand with practice: the students will review different syllabus for applying the concepts they learn.

Course Contents

1. Theories of language learning
2. The nature of approaches and methods in language learning o GTM o The Direct Method o The Audio-lingual Method o The Natural Approach o CLT o The Eclectic Approach
3. Error Analysis 4. Nature and purpose
5. Causes of errors
 - Inter-lingual errors
 - Intra-lingual errors
 - Overgeneralization
 - Literal translations
6. Contrast between Behavioristic and Mentalistic attitude to errors
7. Stages of error analysis
 - Definition and scope of syllabus
 - Considerations common to all syllabuses
 - Relationship between theory of language, language learning and language syllabuses
 - Dichotomies of Syllabuses
 - Product vs. Process-oriented syllabuses
 - Analytical Synthetic syllabuses
8. Product-Oriented Syllabuses
 - Grammatical Syllabus o Theoretical bases o Selecting and grading contents o Criticism
 - Notional Functional Syllabus o Theoretical bases o Selecting and grading contents o Criticism
9. Process Oriented Syllabuses

Suggested Readings

1. Allen, J. P. B. & Corder, S P. (eds) (1974). Techniques in applied linguistics. The Edinburgh course in applied linguistics (Vol. 3). Oxford: OUP.
2. Brumfit, C. (ed.) (1986). The practice of communicative teaching. Oxford: Pergamon.
3. Chomsky, N. (1959). A review of B. F. Skinner's Verbal Behaviour. In Krashen, S. D. (1982). Principles and practice in second language acquisition. New York: Pergamon.
4. Harmer, J. (1991). The practice of English language teaching. Harlow: Longman
5. Johnson, K. (1996). Language teaching and skills learning. London: Blackwell.

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ADP in English Literature

Foundation Course-VI (Specialization) 4th Semester

History of English Literature

Aims & Objectives:

One of the objectives of this course is to inform the readers about the influence of historical and socio-cultural events on literature. Although the scope of the course is quite expansive, the readers shall focus on early 14th to 19th century literature written during Romantic Movement. Histories of literature written by some British literary historians will be consulted to form some socio-cultural and political cross connections. In its broader spectrum, the course covers a reference to the multiple factors from economic theories to religious, philosophical and metaphysical debates that overlap in these literary works of diverse nature and time periods under multiple contexts. The reading of literature in this way i.e. within socio-cultural context will help the readers become aware of the fact that literary works are basically a referential product of the practice that goes back to continuous interdisciplinary interaction.

Contents:

- Medieval Literature
- The Renaissance and the Elizabethan Periods
- The Age of Neo-Classicism
- The Victorian Age
- The Romantic Age

Recommended Readings:

1. Long, William J. (2006). English Literature: Its History and Significance for the life of English speaking world, enlarged edition.
2. Evans, Ifor. (1976). A Short History of English Literature. London: Penguin.
3. Compton-Rickett, A. A History of English Literature. Thomas-Nelson & Sales, 1940 (latest edition).
4. Sanders, Andrew. (2002). The Short Oxford History of English Literature. Oxford University

W. J. Long

ADP in Environmental Science

**Foundation Course-II
(Specialization) 4th Semester**

ENVIRONMENTAL CHEMISTRY

THEORY

Concept and scope of environmental chemistry. Chemical reactions, kinetic and mechanism concerning to organic and inorganic pollutants. Fundamentals of aquatic, atmospheric and soil chemistry. Fate of pollutants in environment; their sources and toxic actions. Acid rain and chemistry of stone cancer. Green house effect, its causes and impacts. Ozone depletion, its causes and effects. Environmental impact of various industries.

RECOMMENDED BOOKS

1. Environmental Chemistry. Ibanez, J.G., Hernandez-Esparza, M., Doria-Serrano, C., Fregoso-Infante, A. and Singh, M.M., Springer, Germany, 2008.
2. Principles of Environmental Chemistry, Girard, J.E., 1st Edition. Jones and Barlett, USA, 2005.
3. An Introduction to Environmental Chemistry, Andrews, J.E., Brimblecombe, P., Jickells, T.D., Liss, P.S. and Reid, B.J., 2nd Edition. Blackwell Science, UK, 2004.
4. Environmental Science, Miller, G.T., Thomson-Brooks, Canada, 2004.
5. Environmental Chemistry, Samir, K., Banerji Prentice Hall of India, India, 1999.

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ADP in Environmental Science

**Foundation Course-III
(Specialization) 4th Semester**

ENVIRONMENTAL POLLUTION

THEORY

Introduction to soil, water and air pollution; Sources and causes of pollution; Types of pollutants: Inorganic, organic and radioactive; Fate of pollutants; Factors affecting and determining movement of pollutants in soil; Impact of pollutants on soil, plant, animal and human health; Groundwater contamination: Drinking and irrigation; Strategies for pollution control; Management and control: Public awareness, control measure at source, soil and water treatment

RECOMMENDED BOOKS

1. Gupta, T., A. Agarwal, R.A. Agarwal, N.K. Labhsetwar. 2018. Environmental Contaminants: Measurement, Modelling and Control. Springer, Singapore.
2. Mishra, S., C. Srinivas, S. Singh, D.V. Savant. 2017. Current Perspectives in Sustainable Environment Management. SIES Indian Institute of Environment Management, Nerul, Navi Mumbai, India.
3. Pepper, I.L., C.P. Gerba and M.L. Brusseau. 2011. Environmental and Pollution Science. Academic Press, San Diego, CA, USA.
4. Perk, M.V.D. 2013. Soil and Water Contamination. 2nd Ed. CRC Press, Leiden, The Netherlands.
5. Singh, J.S., G. Sevevirate. 2017. Agro-Environmental Sustainability: Volume 2: Managing Environmental Pollution. Springer.

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ADP in Environmental Science

Foundation Course-IV (Specialization) 4th Semester

FUNDAMENTALS OF ECOLOGY

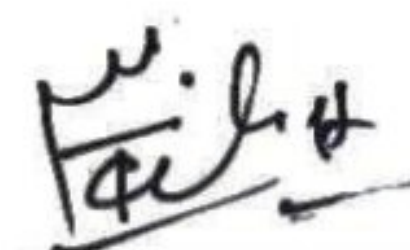
3(3-0)

THEORY

Introduction and branches of ecology. Levels of ecological organization: species, population, community and ecosystem. Abiotic and biotic factors. Concepts of limiting factors, habitat and niche. *Populations*: distribution and abundance, population dynamics and distribution limits. *Community*: organization and various concepts, community dynamics. *Ecosystem*: structure and function, energy flow and material cycling within ecosystem and carrying capacity. Biomes of the world. Ecological production: primary and secondary productivity, productivity of different ecosystems.

RECOMMENDED BOOKS

1. Ecology (Concepts and Applications.) Moles, M C J 6th Edition. WCB/McGraw-Hill. New York, 2012.
2. Elements of Ecology. Thomas M. Smith and Robert L. Smith. 8th Ed. Benjamin Cummings, 2012.
3. Ecology. Michael L Cain, William D. Bowman and Sally D. Hacker. 2nd Ed. Sinauer Associates, 2011.
4. *Ecology (principles and applications)*. Chapman, J. L. and Reiss, M. J. 1st Ed. Cambridge University Press, UK, 1992.
5. *Fundamentals of Ecology*. Odum, E. P. and Barrett, G. W. 5th Ed.
6. Thomson Brooks/Cole, 2004.



ADP in Environmental Science

Foundation Course-V (Specialization) 4th Semester

SOLID WASTE MANAGEMENT

3(3-0)

THEORY

Introduction to solid waste management; Solid waste characterization: Sources, quantities, quality; Waste collection and transport; Treatment technologies: Bioremediation strategies; Composting: Types and methods, environmental requirements, incineration, reuse and recycling; Landfills: Site design and management; Pollution and risk assessment of landfills; Biogas generation: Use of biogas digest; Recent technologies used for solid waste management.

RECOMMENDED BOOKS:

1. *Principles and Applications of Microbiology*. Salvia, D.M., J.J. Fuhrman, G.P. Hartel and A.D. Zuberer. 2nd Ed. Prentice Hall, Upper Saddle River, NJ, USA. 2005.
2. *Compost Science and Technology*. Diaz, L.F., M. de Bertold and W. Bidlingmaier. Elsevier, London, UK. 2007.
3. *Compost*. Kenneth, T. and E. Annelise. Dorling Kindersly, London, UK. 2007.
4. *Organic Waste Recycling: Technology and Management*. Polprasert, C. IWA, London, UK. 2007.

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ADP in Environmental Science

**Foundation Course-VI
(Specialization) 4th Semester**

CLIMATE CHANGE AND ENVIRONMENT

3(3-0)

THEORY

Introduction; The causes and measurements of climate change; Climate change indicators; Green House effect and global warming; Ozone depletion; Physical, chemical, biological and social factors contributing to global climate change; Acid rain; Precipitation and drought; Energy production and climate change; Future climate and the consequences for agriculture and environment; Adaptation and mitigation plans.

RECOMMENDED BOOKS

1. Hardy, T.J. 2003. Climate Change: Causes, Effects and Solutions. 1st Ed. John. Wiley and Sons, West Sussex, UK.
2. Intergovernmental Panel on Climate Change (IPCC). 2005. Climate Impact and Adaptation Assessment: A guide to the IPCC Approach. Earthscan Publications Ltd., London, UK.
3. Intergovernmental Panel on Climate Change (IPCC). 2013. Climate Change 2013 - The Physical Science Basis. IPCC, Geneva, Switzerland.
4. Richardson, K., W. Steffen and D. Liverman. 2014. Climate Change: Global Risks, Challenges and Decisions. Cambridge University Press. Cambridge, UK.
5. Ussiri, D.A.N. and R. Lal. 2017. Carbon Sequestration for Climate Change Mitigation and Adaptation. Springer, Switzerland.

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ADP in Fine Art
Foundation Course-II
(Specialization) 4th Semester

Drawing-II

Course Description: The course will focus on fundamental of drawing elements of line, volume, composition, light and shadows.

Students will become familiar with various ways which improves their creative approach. Detailed studies of human figure drawing related to environment. Observation exercises and techniques of drawing image various mediums.

Course Objectives

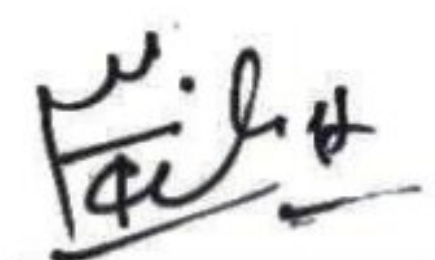
To enable students to draw full human figure to create flow of line and handling of composition through observation and practicals.

Course Outline:

- Introduction about material
- Principles of Drawing.
- Measurements
- Quick sketching
- Detailed figure drawing through Model.
- Anatomy drawings
- Shading techniques
- Drawing through different eye levels.
- Full figure drawing in detail.

Books Recommended

- Drawing a contemporary approach (Sale)
- The complete book drawing (Barrington)
- Drawing (Keith Michle Wright)
- Drawing (Paul Thomas)
- Art across times (Gombrich)
- The Art of responsive drawing (Gold Stei)
- Sketching planning and drawing (Wift)



ADP in Fine Art
Foundation Course-III
(Specialization) 4th Semester

Basic Design

Course Description:

To introduce students the language and the vocabulary of design. The aim is to establish elements and principals of design as the means of visual expression and communication.

Course Objectives:

To enhance creative skills to create design in manual form.

To develop interest in design and create basic shapes with paper

Exploration of different materials in new forms.

Course Contents

- Study of Design elements.
- Study of Design elements in two dimensional.
- Design Surfaces.
- Colour Wheel
- Perspective.
- Principles of Design

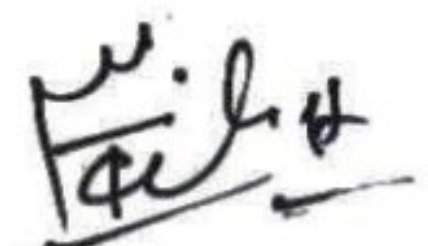
Books Recommended:

The Complete Graphic Designers _____ Ryan Hembree

The Design Encyclopedia _____ Melbyars

Materials for Inspirational Designs _____ Chris Lefteri

Making Great Paper Craft _____ Kate Lively



ADP in Fine Art
Foundation Course-IV
(Specialization) 4th Semester

Course Title: 3-D Studio

Course Description:

The course is basically preparatory and experimental. Students will be working with variety of media. The additive process and subtractive process like wood carving in relief and in round is done in this semester

Course Objectives:

To develop an understanding of three dimensional physical form which is the basic characteristic of this medium of expression.

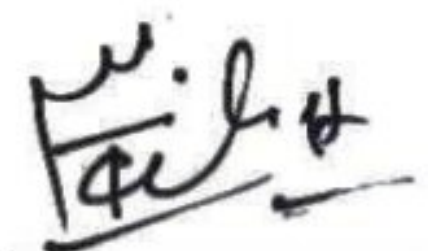
To develop a general introduction to sculpture. Its various traditional and modern forms, materials technical evaluation, approaches and discussions on the aesthetics and artistic problems of the media.

Course Content

- Introduction to Sculpture
- Basic Sculpture
- Carving
- Junk Sculpture
- Mold-Making and Casting
- Basic Figure Sculpture
- Woodcarving and Metal Sculpture

Books Recommended:

- Modern Painting and Sculpture – Elderfie
- Art today – Smith
- Mosaics – Farsett
- Complete water color course – R. Digeest
- The Complete oil painting Book – Blake
- Exploring Art- Mittlor
- Techniques of the World's Great Painters.



ADP in Fine Art
Foundation Course-V
(Specialization) 4th Semester

Course Title: Visual Arts

Credit hours: 3(0+3)

Course Description

- Exercises in the study of elements of space, color, tone etc, which illustrate the formal the human form, Landscape and still life that address the two dimensional surface.
- Study of different art material and their application on experimental surfaces
- Arts forms of the human figure (exercises in life study and painting of the figure in relation to an observed environment).

Course Objectives

- To enable the students to further their understanding of mediums, Techniques and surface.
- Preparation of surface for different painting techniques on different surfaces.

Course Contents

- Study of Experimental painting techniques.
- Study of formal elements in three dimensional.
- Surfaces preparation.
- Perspective in 2D and 3D Surfaces.
- Principles of Arts

Books Recommended

- Color Basics – Pentak
- Modern Painting and Sculpture – Elderfie
- Art today – Smith
- Mosaics – Farsett
- Art through the ages – Gardner
- Complete water color course – R. Digeest
- The Complete oil painting Book – Blake
- Exploring Art- Mittlor
- Techniques of the World's Great Painters.

ADP in Fine Art
Foundation Course-VI
(Specialization) 4th Semester

Course Title: Fundamental of Painting

Credit hours: 3(0+3)

Course Description

Study of the formal elements that make up the two-dimensional surface of a painting. This may include exercises in spatial relationships, color, form and perspective etc. working directly from references which may include landscape, still life and life, the student builds up observation while exploring the genre as vehicle of an individual point of view.

Course Objectives

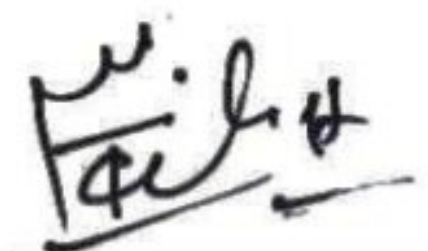
- Using the basic skills acquired in the semester III, students are encouraged to develop and explore their own ideas.
- The student is encouraged to build and enhance his / her understanding of the various mediums available to the artist and to study the possibilities and uses of these mediums. This includes an introduction to the techniques of tempera and gesso.

Course Contents

- Study of formal elements.
- Study of formal elements in two dimensional.
- Surfaces.
- Space.
- Color.
- Form.
- Perspective.

Recommended Books

- The Great Masters Series (Syed Amjad Ali) Feroz Sons Pakistan
- Still Life Step by Step (Mary Mclean, CDA)North Light Books
- Artists Painters (Angel, Nunez) Nova Galicia Editions, S.L Carlos Del Pulgar Sabin.
- The Impressionist Print (Micheel Melot) Yale University Press New Haven and Lodon



ADP in Geography

Foundation Course-II

(Specialization) 4th Semester

MAP WORK

Course Outline

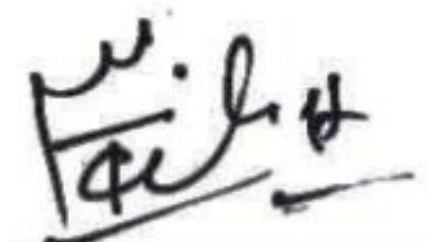
- Maps: its elements and types
- Principles and methods of map making, reading and reproduction
- Scale: types and their use, grid reference and indexation,
- Map projections: types, construction, characteristics, and uses
- Enlargement and reduction of maps
- Interpretation of weather maps of Pakistan

Lab Work

Drawing of various thematic maps and other relevant exercises in cartography and mapping.

Books Recommended

1. Aronoff, S. (2004), Geographic Information Systems, A Management Perspective, WDL Publications, Ottawa
2. Burrough, P. (2002), Principles of Geographic Information Systems for Land Resources Management. Oxford University Press, Oxford,
3. Bygot, J. (1960), An Introduction to Map Work & Practical Geography, Tutorial Press London
4. Campbell, James B. (2002), Introduction to Remote Sensing,, The Guilford Press
5. Clarke, K. (2004), Getting started with Geographic Information System, Prentice Hall , New York,
6. Clendinning, J. (1960), Principles of Surveying. , Blackie and Sons, Limited Glasgow
7. Debenham, F., (latest edition), Exercises in Cartography.
8. Foresman, T. (1997), The history of Geographic Information System, Prentice Hall, New York
9. Guljan Mushtaq-Ur-Rehman, (1974), Map Projection, Oxford University Press.
10. Heywood, I., Cornelius, S. and Carver, S. (2003), An introduction to Geographic Information System, Addison Wesley Longman, New York
11. Jensen, J. (2000), Introductory Remote Sensing: Principles and Concepts, W H Freeman & Co



ADP in Geography
Foundation Course-III
(Specialization) 4th Semester

Human Geography

Objective

This course attempts to impart knowledge about the relationship between man and environment including natural resources and related human activities

Course Outline

- Key concepts in Human Geography
 - Quranic inferences guiding the principles related to the laws of nature and dynamism in the human environment
- Meaning, scope and status of Human Geography
- Basic concepts and theories
 - Environmental determinism
 - Possibilism, probabilism
 - Cognitive behaviourism
- Population and its characteristics
 - Population distribution, density, and growth
 - Dynamics including fertility, mortality and migration,
 - Population composition; rural and urban population
- Natural resources and human activities
 - Primary, secondary, tertiary, quaternary and quinary
 - Agriculture, mining, forestry, animal husbandry and poultry
 - Industries: cottage, light and heavy
 - Trade and transport
 - Tourism
- Settlements
 - Theories of human settlement
 - Types of settlements,
- Rural settlements,
 - dispersed, nucleated and Ribbon settlements
 - rural urban contrast
- Urbanization
 - Introduction to urban structure and theories
 - Land use and land cover pattern
 - Commercial, industrial and residential, open, green spaces/belts and transport.
 - Process of urbanization (city-size distribution, intermediate and primate city etc.)
- Environmental issues, causes and remedies

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Books Recommended

1. Becker, A. & Secker (2002), Human Geography: Culture, Society, and Space, New York; John Wiley and Sons
2. Blij, H.J.D. (2002), Human Geography: Culture, Society, and Space, New York; John Wiley and Sons
3. Hagget, P. (1997), Geography: A Modern Synthesis, London. Harper International.
4. Harper, H.L. (2003), Environment and Society: Human Perspectives on Environmental Issues. New York; Prentice Hall
5. Knox, P.L. & S.A. Marston (2003), Places and Regions in Global Context: Human Geography, New York; Prentice Hall
6. Lewis, C.P. Mitchel-Fox & C. Dyer (2001), Village, Hamlet and Field: Changing Medieval Settlements in Central England, London; Windgather Press
7. Neuwirth, R. (2004), Shadow Cities: A Billion Squatters, A New Urban World, London. Routledge
8. Rowntree, L. et .al. (2004), Globalization and Diversity: Geography of a Changing World, New York. Prentice Hall
9. Pakistan Geographical Review(Lahore)

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ADP in Geography
Foundation Course-IV
(Specialization) 4th Semester

FUNDAMENTAL OF GEOLOGY

Objectives: To create understanding about the physical characteristics of the earth

Course Outlines

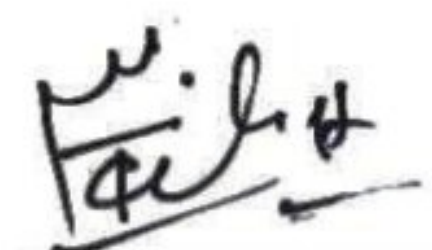
- Universal concepts in Physical Geography
 - Quranic inferences guiding the principles related to the laws of nature and dynamism in the natural environment
 - Realms of the physical environment
- Lithosphere
 - Internal structure of earth.
 - Rocks—origin, formation and types: Igneous Rocks, Sedimentary and Metamorphic Rocks.
 - Plate tectonics, mountain building
 - Geomorphic processes – endogenic and exogenic processes and their resultant landforms
 - Earthquakes and volcanic activity, folding and faulting.
 - Weathering, mass wasting, cycle of erosion, erosion and deposition.
 - Landforms produced by surface water, ground water, wind and glaciers.

Lab work outline

Identification of rocks and minerals, Study and identification of landform using air photos and General Topographic Sheet, soil and water analysis. Use and making of various models showing various types of landforms. Drawing of world map showing the origin of continents and oceans. Recording and observation of weather data from a mini weather station. Drawing of world map showing the origin of continents and oceans.

Books Recommended

1. Christopherson, R.W. (2000), Geo-systems, Prentice-Hall, Inc, USA.
2. De Blij, H. J and Muller, P.O. (1996), Physical Geography of the global Environment, USA, John Wiley and Sons Inc.
3. Diwan A.P. & D.K. Arora (1995), Origin of the Ocean, Anmol Publisher, Delhi
4. Gabler, R.E, Sager, R.J and Wise, D.L (1997), Essentials of Physical Geography, Saunders College Publishing, New York
5. Kendrew (1961), Climates of the continents, Longman London/New York
6. King, CAM (1980), Physical Geography,, Oxford, Basil Blackwell



7. Mcliveen, J.F.R. (1992), Fundamentals of Weather and climate, Prentice Hall New Jersey
8. Miller, E.W. (1985), Physical Geography, Columbus, Charles E. Merrill
9. Miller, G.T. (1996), Living in the Environment, Principles, connections and solutions, Wadsworth
10. Monkhouse, F.J. (1996), Principles of Physical Geography, Hodder & Stoughton, London
11. Rathor, A. Hamid (1996), Tabhi Geographia, Islamabad Muqtadra Qaumi Zaban
12. Scott, R.C. (1996), Introduction to physical geography, West Publishing Co, New York. I
13. Small, R. J. (1989), Geomorphology and Hydrology, London, Longman.
14. Strahlar, A.N., Strahlar, A.H. (2004), Physical Environment, John Wiley, New York
15. Stringer, E.T. (2004), Modern Physical Geography New York: John Wiley
16. Taylor, J. (1993), Integral Physical Geography, London Longman
17. Thompson, R.D. et. Al. (1986), Process in Physical Geography, London, Longman
18. Thornbury, W.D. (1969), Principles of Geomorphology, John Wiley & Sons. New York.
19. Thurman, H.V. & Merrill (1996), Essentials of Oceanography, Menon, London

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ADP in Geography
Foundation Course-V
(Specialization) 4th Semester

GEOGRAPHY OF PAKISTAN

Objective

This course attempts to impart knowledge about the relationship between man and physical, socio-economic and cultural environment with special reference to Pakistan, including land, population, human settlement, resources and related human activities.

Course Outlines

- Geographical location of Pakistan
 - Location and Geopolitical importance: Relations with neighbouring states
 - The Genesis of Pakistan
 - The Borders of Pakistan and related problems
 - Administrative setup
- The Land and Environment
 - Physiography
 - Climate and climatic regions
 - Soil and vegetation
- The Human Population
 - Population structure, composition and distribution
 - Population Change
 - Urbanization
- Economy
 - Agriculture (crops and livestock)
 - Irrigation
 - Power and mineral resources
 - Industries
 - Tourism
 - Trade
- Transport and Communication

Books Recommended

1. Abdul Hameed. (1972), Historical and descriptive geography of water development in West Pakistan: A case study of the Middle Indus Basin., San Francisco State College
2. Ahmad, Q. S. (1964), Geography of Pakistan, Oxford University Press
3. Burkey, J.S. (1991), Pakistan the continuing search for Nationhood., Western Press, Oxford, UK

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4. Davidson, A. P & Munir Ahmad , (2003), Privatization and the Crisis of Agricultural Extension: The Case of Pakistan (King's Soas Studies in Development Geography, Ashgate Publishing)
5. Dichter, D. (1967), Geography of N-W.F.P, Oxford University Press
6. Imperial Gazetteer of India, (1901), North West Frontier Province, Government of NWFP Printing Press Peshawar.
7. Jonson B.L.C., (1969), South Asia: selective studies of the essential geography of India, Pakistan and Ceylon., Heinemann Educational
8. Khan F.K. (1991), Geography of Pakistan, Oxford University Press, Karachi
9. Sahibzada, M.A, (1960), Land Use Survey of N-W.F.P., Part-I P & D Department Government of Pakistan
10. Spate, O.H.K. (1984), India and Pakistan, Munshiram Mohoarlal Publications Pvt.Ltd
11. Tayyeb, A. (1966), A Political Geography of Pakistan,, Oxford University Press
12. Pakistan Geographical Review (Lahore)
13. Pakistan Journal of Geography (Peshawar)
14. Journal Geography (Karachi)
15. HEC Digital Library

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ADP in Geography
Foundation Course-VI
(Specialization) 4th Semester

LAND SURVEYING

Objective:

To train students in map drawing, reading and its use for geographical analysis. After the successful completion of this course the students are expected to have a good knowledge of map reading and drawing.

Course Outlines

- Instrumental survey and records
- Surveying using the following instruments:
 - Chain survey
 - Plane Table
 - Prismatic Compass
 - Determination of heights and slopes with Abney Level
 - Contouring by Indian Clinometer
 - Use of Dumpy level and Theodolite
 - Total station
 - Global Positioning System (GPS)
- Air photo and satellite imagery

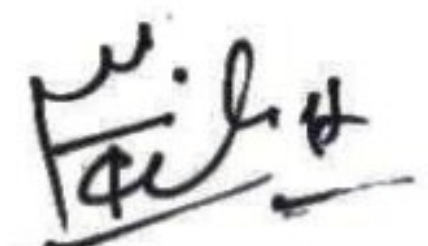
Field visits

Visit to Survey of Pakistan Offices.

(The students are required to record the exercises in practical notebook duly signed by the concerned teachers).

Books Recommended

1. Brinker, R.E. & W.C. Taylor, (1962), Elementary Surveying, The International Text Book Company.
2. Carey, H. Helen. (1983), How to Use Maps and Globes, Franklin Watts, London New York.
3. Clendinning, J. (1960), Principles of Surveying. Blackie and Sons, Limited Glasgow



4. Dink, P. (1962), Map Work, Dehli
5. Guljan Mushtaq-Ur-Rehman, (1974), Map Projection, Oxford University Press.
6. Kanetkar, T.P. & Kulkarni, S.V. (latest edition), Surveying and Levelling part-I. Union Book Stall Karachi
7. Maguire, D.J. (1991), Geographic Information System., Longman London
8. Rubey, H. et .al. (1958), Engineering Surveys., The Macmillan Company
9. Thomas W.N. (1942), Surveying, John Wiley and Sons
10. Usil, G.W. & Hearn G. (1960), Practical Surveying, The Technical Press Ltd

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ADP in History
Foundation Course-II
(Specialization) 4th Semester

HIS-01205	Pakistan Movement	03 Credit Hours
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Course Contents:-

1. Different Perspectives About the Creation of Pakistan
2. Muslim Responses to the Establishment of the British Raj (1857-1906)
3. Muslims in the Active Politics (1906-1932)
4. Ideas of Pakistan
5. The Pakistan Movement (1934-1947)
6. Role of Muslim Majority Provinces & Territories
8. Muhammad Iqbal: Political Philosophy and Vision
9. Mohammad Ali Jinnah: From Indian Nationalism to Muslim Nationalism
10. Partition and the Creation of Pakistan

Reading List:-

- Abdul Hamid. Muslim Separatism in India. Karachi: Oxford University Press, 1967.
- Afzal, M. Rafique. A History of the All India Muslim League, 1906-1947. Karachi: Oxford University Press, 2013.
- Ali, Rabia Umar. Empire in Retreat: The Story of India's Partition. Karachi: Oxford University Press, 2012.
- Aziz, K.K. The Making of Pakistan: A Study in Nationalism. Islamabad: National Book Foundation, 1976.
- _____. A History of the Idea of Pakistan. Lahore: Vanguard, 1997.
- Burke, S.M. Landmarks of the Pakistan Movement. Lahore: Research Society of Pakistan, 2011.
- Dhulipala, Venkat. Creating A New Medina: State Power, and the Quest for Pakistan in Late Colonial North India. Delhi: Cambridge University Press, 2015.
- Gandhi, Rajmohan. Understanding Muslim Mind. New Delhi: Penguin, 2000.
- Hayat, Sikandar.ed.Aspects of the Pakistan Movement. Islamabad: National Institute of Historical and Cultural Research, 2016.
- _____. The Charismatic Leader: Quaid-i-Azam Mohammad Ali Jinnah and the Creation of Pakistan. Karachi: Oxford University Press, 2013.
- Long, Roger D. ed. A History of Pakistan. Karachi: Oxford University Press, 2015. (283-453)
- Qureshi, IshtiaqHussain. The Struggle for Pakistan. Karachi: University of Karachi, 1974.
- Raja, Masood Ashraf.Constructing Pakistan: Foundation Texts and the Rise of Muslim National Identity, 1857-1947. Karachi: Oxford University Press, 2010.
- Sayeed, Khalid B. Pakistan: The Formative Phase, 1857-1948. Karachi: Oxford University Press, 1998. (1-222)
- Sharma, Suresh K. ed. The Emergence of India & Pakistan. New Delhi: Pentagon Press, 2007.

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Talbot, Ian. Provincial Politics and the Pakistan Movement: The Growth of the Muslim League in North-West and North East India, 1937-47. Karachi: Oxford University Press, 1988.
Waheed-uz-Zaman. Towards Pakistan. Lahore: Publishers United, 1978.
Wolpert, Stanley. Shameful Flight: The Last Years of the British Empire. Karachi: Oxford University Press, 2006.

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ADP in History
Foundation Course-III
(Specialization) 4th Semester

HIS-01402	Ancient India	03 Credit Hours
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Course Contents

1. Chiefdoms to Kingdoms: c.1200-600 BC
2. States and cities of Indo-Gangetic Plains: c. 600-300 BC
3. The Mauryan Empire: c. 321-185 BC
4. Alexander's Invasion of India: BC 325–327
5. Trade and politics: circa. 200 BC-300 AD
6. The Gupta Period (The Golden Age): circa 320 to 550 CE
7. Emergence of Regional Kingdoms: c. 500-600 AD
8. Rise of HarshaVardhan of Qanauj: circa 590–648

Reading List

- Basham, A.L. *The Wonder That Was India: A Survey of the Culture of the Indian Sub-Continent before the Coming of the Muslims*, New York: Grove Press, 1954.
- Bryant, Edwin. *In Quest of the Origins of Vedic Culture: The Indo-Aryan Migration Debate*. New York: Oxford University Press, 2001
- Bose, Mandakranta. *Faces of the Feminine in Ancient, Medieval, and Modern India*, New York Oxford University Press, 2000.
- Ganguly, D.K. *The Imperial Guptas and Their Times*. New Delhi: Abhinav Publication, 1987
- Ghoshal, U.N. *A History of Indian Political Ideas: The Ancient Period and the Period of Transition to the Middle Ages*. London: Oxford University Press, 1959
- K.L. Firman, *Social and Rural Economy of Northern India, Cir. 600 B.C.-200 A.D.* Edition: 2nd, Calcutta: Firma K. L. Mukhopadhyay, 1961.
- M. Bradford,Pamela. ed., *With Arrow, Sword, and Spear: A History of Warfare in the Ancient World*. Westport: Praeger, 2001.
- Nath Banerjee, Nath. *Hellenism in Ancient India*. Delhi: Munshi Ram ManoharLal, 1961
- Piggott, Stuart. *Prehistoric India to 1000 B.C.* London: Penguin Books, 1950.
- Rowland, Benjamin. *The Art and Architecture of India: Buddhist, Hindu, Jain*. London: Penguin Books, 1953.
- Rhys-Davids, T.W. *Buddhist India*. Calcutta: Susil Gupta, 1957.
- Renou, Louis. *Religions of Ancient India*. New York: Schocken Books, 1968
- Ramaswamy, Sumathi. *The Lost Land of Lemuria: Fabulous Geographies, Catastrophic Histories*. Berkeley: University of California Press, 2004
- Sgharfe, Hartmut. *Education in Ancient India*. Boston: Brill, 2002.
- Smith, K. Brian. *Classifying the Universe: The Ancient Indian Varna System and the Origins of Caste*. New York: Oxford University Press, 1994.

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Sinha, Phulgenda. The Gita as It Was: Rediscovering the Original Bhagavadgita. La Salle: Open Court, 1987.

Subramanian, V.K. Art Shrines of Ancient India. New Delhi: Abhinav, 2003

Thapar, Romila. Early India: From the Origins to A.D. 1300, Part 1300. California: University of California Press, 2004.

Wood, Ernest. Manu Dharma S'astra: A Sociological and Historical Study. Madras: Ganesh & Co, 1958.

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ADP in History
Foundation Course-IV
(Specialization) 4th Semester

HIS-01404	US History	03 Credit Hours
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Course Objectives:-

The objective of this paper is to acquaint the students with an overview of the major developments in US History, upon completion of course, students will be able to

- 1) Use critical thinking in the analysis of historical facts
- 2) Demonstrate awareness in the appraisal of historical context, and understand the independence and rise of US on the world map including current world order.
- 3) To understand the historical events that affected US during the period under review.

Teaching Methodology:-

- Online/Offline Lecture Delivery (LMS in collaboration with interactive Audio/video conferencing tools readily available as free source)
- Online classrooms (LMS/Moodle/Blackboard/Google Classroom)
- This course will enable students to complete academic work in a flexible manner. Course materials and access to the online learning management system will be made available to each student. Online tasks include discussion questions, examinations, and individual assignments submitted for review and evaluation by the faculty member. Assigned faculty will support the students throughout this course.

Major Themes:-

- A. Independence (Freedom for all – Articles of Confederation 1776- 1800's)
- B. Building a Nation – Civil War (1800's – 1860s)
- C. Rebuilding a Nation – (1860s–1914)
- D. Challenges at Home and Abroad (1914–1945)
- E. America Since World War II (1945–Present)

Curriculum Contents:-

PART A:-

Declaration of Independence

- A. Influence of John Locke
- B. Compromise

THE AMERICAN REVOLUTION

- A. 1776 War of Independence
- B. The Treaty of Paris, 1783

POST-WAR AMERICA

- A. Articles of Confederation
- THE CONSTITUTION

- A. Branches and Functions of Government
- THE NEW NATION

- A. Jefferson and the Louisiana Purchase
- B. War of 1812 and Aftermath
- C. Jacksonian Era

Part B:-

EXPANSION AND REFORM

- A. Manifest Destiny
- B. 2nd Great Awakening
- C. Abolition

Civil War

- A. Causes
- B. The War (Mid-Term Syllabus ends here)

Reconstruction

- A. The Plans

- B. Southern Reaction- Jim Crow Laws
- Industrialization, Urbanization, Immigration

- A. From Agriculture to Modern America
- B. The Labor Movement

The Progressive Era

- A. The Need for Reform
- B. The Progressive Presidents

Imperialism, Rise of Communism and Opposition in US, Policy of Isolation ended

Part C:-

World War One

- A. Causes
- B. US Involvement
- C. Imperfect Peace- Treaty of Versailles

World War Two

- A. Causes
- B. US Involvement, Nuclear Bomb, UN
- C. Cold War – US vs USSR

Course Materials:-

Lecture Notes

- PowerPoint slides and notes
- Core Books:

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- The American Pageant by Thomas A. Bailey and David M. Kennedy
- A brief History of USA by Robert V. Remini
Web Based Readings (Online Accessible):
- <https://libguides.colostate.edu/History/medeuropa>
(A comprehensive set of readings available online – mostly free)
<https://sites.google.com/a/gjps.org/candorj/home/the-americans-textbook-pdf>
<https://docs.google.com/viewer?a=v&pid=sites&srcid=Z2pwcY5vcmd8Y2FuZG9yfGd4OjEwM DMxMmY0Zjg2MjcwMGQ>
(Littell, McDougal. "The Americans.", 2007)

Criteria for Students Evaluation:-

- Assignments
- Quizzes
- Discussions
- Tests/Exams

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ADP in History

Foundation Course-V

(Specialization) 4th Semester

HIS-01405	European History	03 Credit Hours
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Course Objectives:

The objective of this paper is to present presents in-depth coverage of major developments in modern European history(1453-present), upon completion of course, students will be able to

- 1) Use critical thinking in the analysis of historical facts
- 2) Students will master an understanding of European history from the Early Renaissance to the present.
- 3) To understand the historical events that affected Europe during the period under review

Teaching Methodology

- Online/Offline Lecture Delivery (LMS in collaboration with interactive Audio/video conferencing tools readily available as free source)
- Online classrooms (LMS/Moodle/Blackboard/Google Classroom)
- This course will enable students to complete academic work in a flexible manner. Course materials and access to the online learning management system will be made available to each student. Online tasks include discussion questions, examinations, and individual assignments submitted for review and evaluation by the faculty member. Assigned faculty will support the students throughout this course.

Curriculum Contents:

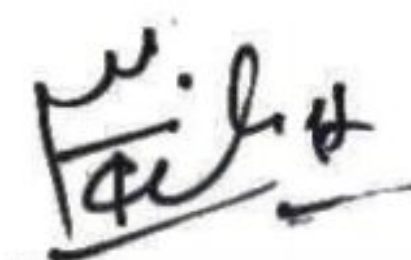
1. Introduction; Geography and Historical Background
2. Renaissance: causes, course and Impact (1450's – 16th century)
4. Reformation and Counter reformation and Religious Wars.
7. Scientific Revolution and its Impact on Religion, Socio-Political life.
8. European Policy of Expansion and Glorious Revolution, Discovery of the New World
9. Changes in Early Modern Europe (1648-1750)
10. The Enlightenment, French Revolution, and Napoleonic Era (1750 - 1815)
11. The Industrial Revolution (1815-1872)
12. An Era of Militarism, Alliances, Imperialism, Nationalism – Aggressive European Front (1872-1914)
13. World War I, the Interwar Period, and WWII (1914-1945)
14. The Cold War and Contemporary Europe, European Union (1945-Present)

Course Materials

Lecture Notes

- PowerPoint slides and notes
- Core Books:

- Viault, Birdsall S, Modern European History: The History of Europe Since the Late Middle Ages, Penguin Group, 2005.
- Lee, Stephen J., Aspects of European History, 1494-1789 (Routledge, Chapman & Hall, 1984.)
- Spielvogel, Jackson J. Western Civilization Since 1300, 10th Ed. Samford: Cengage Learning, 2018.



- Golden, R. The Social Dimension of Western Civilization, Vol. 2. Boston: Bedford and St. Martin's, 2003.

Criteria for Students Evaluation

- Assignments
- Quizzes
- Discussions
- Tests/Exams

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ADP in History

Foundation Course-VI
(Specialization) 4th Semester

HIS-01406	Philosophy of History	03 Credit Hours
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Course Contents:-

1. An Introduction to Philosophy of History

1.1 Understanding History, Historiography and Philosophy of History

1.2 Objectives of Philosophy of History

1.3 Subject-matter and Scope

1.4 The Origins of Philosophy of History

2. From Myth to Historicity: Historiography in the Ancient World

3. Sacred History: Influence of Christianity on Historiography

4. Contribution of the Muslims to Historiography

5. Historiography during Renaissance in Europe

6. Enlightenment and Romanticist Historiography in Europe

7. Impact of Positivism, Industrial Revolution & Capitalism on European Historiography

8. Historiography in the Twentieth Century: A Brief Overview

Reading List:-

Anjum, Tanvir. *Historiography*. Islamabad: Allama Iqbal Open University Press, 2012.

Baali, Fuad. *Society, State, and Urbanism: Ibn Khaldun's Sociological Thought*. Albany: State University of New York Press, 1988, Chap. 4, pp. 43-52.

Brian Shetler, "George Wilhelm Friedrich Hegel: Dialectics and the World Spirit", in *Macrohistory and Macrohistorians*, Chap. 2, Part 2.6, pp. 47-54.

Cairns, Grace. *Philosophies of History*. London: Peter Owen Limited, 1962, Chap. III, pp. 251-55.

Collingwood, R. G. *The Idea of History*. Oxford: Oxford University Press, 1978 rpt.

Galtung, Johan, and Sohail Inayatullah, eds. *Macrohistory and Macrohistorians*, Westport: Praeger, 1997.

Gilderhus, Mark T. *History and Historians: A Historiographical Introduction*. New Jersey: Prentice Hall, 2003.

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Hughes-Warrington, Marnie. Fifty Key Thinkers on History. London and New York: Routledge, 2000.

Hussain, Asaf. "The Ideology of Orientalism" in Asaf Hussain, Robert Olson and Jamil Qureshi. Eds. Orientalism, Islam, and Islamists. Brattleboro, Vermont: Amana Books, 1984, Chapter 1: pp. 5-22. See also Introduction, pp. 1-4.

Joseph Rouse, "Power/Knowledge", in The Cambridge Companion to Foucault, ed. Gary Gutting. Cambridge: Cambridge University Press, 1994.

Lacoste, Yves. Ibn Khaldun: The Birth of History and the Past of the Third World. London: Verso, 1984, Part 2, Chap. 3, pp. 159-71.

Lemon, M. C. Philosophy of History: A Guide for Students. London and New York: Routledge, 2003.

Criteria for Students Evaluation

- Assignments
- Quizzes
- Discussions
- Tests/Exams

ADP in Information Technology

Foundation Course-II (Specialization) 4th Semester

Data Structures and Algorithms		
	Prerequisites:	Programming Fundamentals
Course Learning Outcomes (CLOs):		
At the end of the course the students will be able to:	Domain	BT Level*
1. Implement various data structures and their algorithms, and apply them in implementing simple applications.	C	2,3
2. Analyze simple algorithms and determine their complexities.	C	4,5
3. Apply the knowledge of data structures to other application domains.	C	3
4. Design new data structures and algorithms to solve problems.	C	6
* BT= Bloom's Taxonomy, C=Cognitive domain, P=Psychomotor domain, A= Affective domain		
Course Content:		
Abstract data types, complexity analysis, Big Oh notation, Stacks (linked lists and array implementations), Recursion and analyzing recursive algorithms, divide and conquer algorithms, Sorting algorithms (selection, insertion, merge, quick, bubble, heap, shell, radix, bucket), queue, dequeuer, priority queues (linked and array implementations of queues), linked list & its various types, sorted linked list, searching an unsorted array, binary search for sorted arrays, hashing and indexing, open addressing and chaining, trees and tree traversals, binary search trees, heaps, M-way trees, balanced trees, graphs, breadth-first and depth-first traversal, topological order, shortest path, adjacency matrix and adjacency list implementations, memory management and garbage collection.		
Teaching Methodology:		
Lectures, Written Assignments, Practical labs, Semester Project, Presentations		
Course Assessment:		
Sessional Exam, Home Assignments, Quizzes, Project, Presentations, Final Exam		
Reference Materials:		
5. Data Structures and Algorithms in C++ by Adam Drozdek 6. Data Structures and Algorithm Analysis in Java by Mark A. Weiss 7. Data Structures and Abstractions with Java by Frank M. Carrano & Timothy M. Henry 8. Data Structures and Algorithm Analysis in C++ by Mark Allen Weiss		

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Foundation Course-III (Specialization) 4th Semester

Discrete Structures			
Credit Hours:	3+0	Prerequisites:	None
Course Learning Outcomes (CLOs):			
At the end of the course the students will be able to:		Doma in	BT Level*
1. Understand the key concepts of Discrete Structures such as Sets, Permutations, Relations, Graphs, and Trees etc.		C	2
2. Apply formal logic proofs and/or informal, but rigorous, logical reasoning to real problems, such as predicting the behavior of software or solving problems such as puzzles.		C	3
3. Apply discrete structures into other computing problems such as formal specification, verification, databases, artificial intelligence, and cryptography.		C	3
4. Differentiate various discrete structures and their relevance within the context of computer science, in the areas of data structures and algorithms, in particular.		C	4
* BT= Bloom's Taxonomy, C=Cognitive domain, P=Psychomotor domain, A= Affective domain			
Course Content:			
Mathematical reasoning, propositional and predicate logic, rules of inference, proof by induction, proof by contraposition, proof by contradiction, proof by implication, set theory, relations, equivalence relations and partitions, partial orderings, recurrence relations, functions, mappings, function composition, inverse functions, recursive functions, Number Theory, sequences, series, counting, inclusion and exclusion principle, pigeonhole principle, permutations and combinations, elements of graph theory, planar graphs, graph coloring, euler graph, Hamiltonian path, rooted trees, traversals.			
Teaching Methodology:			
Lectures, Written Assignments, Practical labs, Semester Project, Presentations			
Course Assessment:			
Sessional Exam, Home Assignments, Quizzes, Project, Presentations, Final Exam			
Reference Materials:			
5. Discrete Mathematics and Its Applications, 7 th edition by Kenneth H.Rosen			
6. Discrete Mathematics with Applications, 4 th Edition by Susanna S.Epp			
7. Discrete Mathematics, 7 th edition by Richard JohnsonBaugh			
8. Discrete Mathematical Structures, 4 th edition by Kolman, Busby & Ross			

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Foundation Course-IV (Specialization) 4th Semester

Digital Logic and Design		
Credit Hours:	3 (3,0)	Prerequisites:
Course Learning Outcomes (CLOs):		
At the end of the course the students will be able to:		Domain
<ol style="list-style-type: none"> 1. Acquire knowledge related to the concepts, tools and techniques for the design of digital electronic circuits 2. Demonstrate the skills to design and analyze both combinational and sequential circuits using a variety of techniques 3. Apply the acquired knowledge to simulate and implement small-scale digital circuits 4. Understand the relationship between abstract logic characterizations and practical electrical implementations. 		BT Level*
* BT= Bloom's Taxonomy, C=Cognitive domain, P=Psychomotor domain, A= Affective domain		
Course Content:		
Number Systems, Logic Gates, Boolean Algebra, Combination logic circuits and designs, Simplification Methods (K-Map, Quinn Mc-Cluskey method), Flip Flops and Latches, Asynchronous and Synchronous circuits, Counters, Shift Registers, Counters, Triggered devices & its types. Binary Arithmetic and Arithmetic Circuits, Memory Elements, State Machines. Introduction Programmable Logic Devices (CPLD, FPGA); Lab Assignments using tools such as Verilog HDL/VHDL, MultiSim		
Teaching Methodology:		
Lecturing, Written Assignments		
Course Assessment:		
Sessional Exam, Home Assignments, Quizzes, Final Exam		
Reference Materials:		
<ol style="list-style-type: none"> 1. Digital Fundamentals by Floyd, 11/e. 2. Fundamental of Digital Logic with Verilog Design, Stephen Brown, 2/e. 		

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Foundation Course-V (Specialization) 4th Semester

Calculus & Analytical Geometry		
Credit Hours:	3 (3,0)	Prerequisites:
Course Learning Outcomes (CLOs):		
At the end of the course the students will be able to:	Domain	BT Level*
* BT= Bloom's Taxonomy, C=Cognitive domain, P=Psychomotor domain, A= Affective domain		
Course Content:		
Limits and Continuity; Introduction to functions, Introduction to limits, Techniques of finding limits, Indeterminate forms of limits, Continuous and discontinuous functions and their applications, Differential calculus; Concept and idea of differentiation, Geometrical and Physical meaning of derivatives, Rules of differentiation, Techniques of differentiation, Rates of change, Tangents and Normals lines, Chain rule, implicit differentiation, linear approximation, Applications of differentiation; Extreme value functions, Mean value theorems, Maxima and Minima of a function for single-variable, Concavity, Integral calculus; Concept and idea of Integration, Indefinite Integrals, Techniques of integration, Riemann sums and Definite Integrals, Applications of definite integrals, Improper integral, Applications of Integration; Area under the curve, Analytical Geometry; Straight lines in R ³ , Equations for planes.		
Teaching Methodology:		
Lecturing, Written Assignments		
Course Assessment:		
Sessional Exam, Home Assignments, Quizzes, Final Exam		
Reference Materials:		
<ol style="list-style-type: none">1. Calculus and Analytic Geometry by Kenneth W. Thomas.2. Calculus by Stewart, James.3. Calculus by Earl William Swokowski; Michael Olinick; Dennis Pence; Jeffery A. Cole.		

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ADP in Information Technology

Foundation Course-VI
(Specialization) 4th Semester

Database Systems		
	Prerequisites:	None
Course Learning Outcomes (CLOs):		
At the end of the course the students will be able to:		Domain
		BT Level*
1. Explain fundamental database concepts.	C	2
2. Design conceptual, logical and physical database schemas using different data models.	C	5
3. Identify functional dependencies and resolve database anomalies by normalizing tables.	C	2
4. Use Structured Query Language (SQL) for database definition and manipulation	C	4
* BT= Bloom's Taxonomy, C=Cognitive domain, P=Psychomotor domain, A= Affective domain		
Course Content:		
Basic database concepts, Database approach vs file based system, database architecture, three level schema architecture, data independence, relational data model, attributes, schemas, tuples, domains, relation instances, keys of relations, integrity constraints, relational algebra, selection, projection, Cartesian product, types of joins, normalization, functional dependencies, normal forms, entity relationship model, entity sets, attributes, relationship, entity-relationship diagrams, Structured Query Language (SQL), Joins and sub-queries in SQL, Grouping and aggregation in SQL, concurrency control, database backup and recovery, indexes, NoSQL systems.		
Teaching Methodology:		
Lectures, Written Assignments, Practical labs, Semester Project, Presentations		
Course Assessment:		
Sessional Exam, Home Assignments, Quizzes, Project, Presentations, Final Exam		
Reference Materials:		
<ol style="list-style-type: none"> 1. Database Systems: A Practical Approach to Design, Implementation, and Management, 6th Edition by Thomas Connolly and Carolyn Begg 2. Database Systems: The Complete Book, 2nd Edition by Hector Garcia-Molina, Jeffrey D. Ullman, Jennifer Widom 3. Database System Concepts, 6th Edition by Avi Silberschatz, Henry F. Korth and S. Sudarshan. 4. Database Management Systems, 3rd Edition by Raghu Ramakrishnan, Johannes Gehrke 		

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Foundation Course-VI (Specialization) 4th Semester

Numerical Computing

Numerical Computing		
Credit Hours:	3	Prerequisites: Calculus and Analytical Geometry
Course Learning Outcomes (CLOs):		
At the end of the course the students will be able to:		Domain
		BT Level*
1. The student would understand the fundamental concepts of Scientific Programming using programming Language(s)		C
2. Use a computer algebra system to investigate and solve mathematical problems relating to integration, differential equations and approximation.		C
* BT= Bloom's Taxonomy, C=Cognitive domain, P=Psychomotor domain, A= Affective domain		
Course Content:		
<p>Mathematical preliminaries and error analysis, round-off errors and computer arithmetic, Calculate Divided Differences. Use Divided-difference Table. Find Newton's Interpolation Polynomial. Calculate Interpolation with Equally Spaced Data. Find the Difference Table. Calculate, Newton's Forward & Backward Difference Formulae. Use Gauss Formulae. Use Stirling's Interpolation Formula. Use Bessel's Interpolation Formula. Use Everett's Interpolation Formula. Solve Nonlinear Equations. Solve Equations by Bisection Method. Solve Equations by Regula Falsi Method. Solve Equations by Secant Method. Solve Equations by Newton-Raphson Method. Find Fixed Point Iteration. Solve Equations by Jacobi Iterative Methods. Solve Equations by Gauss Seidel Method Calculate Numerical Differentiation. Find Numerical Differentiation Formulae Based on Equally Spaced Data. Find Numerical Differentiation Based on Newton's Forward Differences. Find Numerical Differentiation Based on Newton's Backward Differences. Find Numerical Differentiation Based on Stirling's Formula. Find Numerical Differentiation Based on Bessel's Formula. Find Numerical Differentiation Based on Lagrange's Formula. Calculate Error Analysis of Differentiation Formulae. Solve Richardson Extrapolation. Calculate Numerical Integration. Use Trapezoidal Rule with Error Term. Use Simpson's 1/3 Rule with Error Term. Use Simpson's 3/8 Rule with Error Term. Use Composite Numerical Integration. Use Composite Trapezoidal Rule. Use Composite Simpson's Rule. Find Richardson's Extrapolation. Find Newton-Cotes Closed Quadrature Formulae.</p>		
Teaching Methodology:		
Lectures, Written Assignments, Semester Project, Lab Assignments, Presentations		
Course Assessment:		
Sessional Exam, Home Assignments, Quizzes, Project, Presentations, Final Exam		
Reference Materials:		
<ol style="list-style-type: none"> 1. <i>Numerical Analysis</i> (9th Edition) by Richard L. Burden, J. Douglas Faires by Brooks/Cole Boston USA, 2011 2. <i>Numerical Methods for Scientific Computing</i> by J.H. Heinbockel Trafford Publishing USA, 2006 		

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ADP in International Relations

**Foundation Course-II
(Specialization) 4th Semester**

Diplomatic History of International Relations: 1648-1945

Course Description:

This course deals with the origin and evolution of International Relations in the modern state system from the treaty of Westphalia to the end of the Second World War and the emergence of the UN. The course aims to enable students to understand historical development of the academic discipline of IR and the impact it had on shaping governmental policies.

Contents:

- European Politics: Religious and political factors, Renaissance and reformation, Treaty of Westphalia 1648
- Industrial Revolution
- French Revolution of 1789
- Congress of Vienna 1815
- Balance of Power in Europe
- World War I: Causes and consequences
- Treaty of Versailles 1919: Its Impacts
- Emergence of the League of Nations: Causes and consequences
- The Great Economic Depression
- Fascism in Italy and Nazism in Germany
- World War II: Causes and consequences
- Emergence of the United Nations: Causes and consequences

Core Books:

1. Carrie, A. R. *A Diplomatic History of Europe: Since the Congress of Vienna*. London: Methuen, 1955.
2. Anderson, M.S. *The Ascendancy of Europe: 1815-1914*. London: Longman, 1972.
3. Thompson, D. *Europe Since Napoleon*, 2nd revised ed. New York: Knopf, 1962.

Recommended Books:

1. Field, L. and Henry, W. *History of Europe Since 1815*. New York: Praeger, 1963.
2. Graham, R. *The Great Powers and Decline of the State System: 1914-1940*. London: Croom Helm, 1983.
3. Langer, W. L. *European Alliances and Alignments: 1871-1914*. New York: Practice-Hall, 1950.

Leeds, C. A. *European History: 1789-1914*, 2nd ed. Plymouth: Macdonald, 1979.

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ADP in International Relations

Foundation Course-III
(Specialization) 4th Semester

Political Psychology

Examinations Department IUB

W. F. H.

ADP in International Relations

Foundation Course-IV (Specialization) 4th Semester

Introduction to Human Rights Cr.hr: 3

Course Description:

This course provides an introduction to the question of human rights. The goal of this course is, first, to understand that the evolution of the concept of human rights and its institutionalization was a complex and political process and that what we today understand as human rights is also a political construction. A second goal is to be able to discern different theoretical understandings of human rights and to critically assess contemporary human rights discourses.

Contents:

- **Introduction:** Freedom, Liberty and equality, Civil, Political, Social and Economic Rights, Women Rights, Freedom of Expression.
- **History of Human Rights:** French Declaration and Critiques, Cosmopolitanism
- **Basic Concepts:** Natural rights, Natural Law, Sovereignty
- **Institutionalization of Human Rights:** Birth of United Nations, Human Rights and Anti-colonialism, Treaties and Conventions
- **Politics of Human Rights and Justice:** Rights, Moral or Political? Rights and Culture
- **Issues of Human Rights:** Immigration, Development, Democratic Transition, Torture
- **Defending Human Rights:** Law and Courts, Civil Society, Media, Responsibility to Protect.

Core Books:

1. Moyn, S. *The Last Utopia: Human Rights in History*. Cambridge: Harvard University Press, 2010
2. Goodhart, M. *Human Rights: Politics and Practice*. 2nd ed. Oxford: Oxford University Press, 2013.
3. Philip, A., and Ryan, G. *International Human Rights*. Oxford: Oxford University Press, 2012.

Recommended Books:

1. Wong, W. H. *Internal Affairs*. Ithaca: Cornell University Press, 2012.
2. Hafner-Burton, E. *Making Human Rights a Reality*. Princeton: Princeton University Press, 2013.
3. Rhona K.M. S. *Textbook on International Human Rights*, 6th ed. Oxford: Oxford University Press, 2014.
4. Alston, P., Goodman, R., & Steiner, H. J. eds. *International Human Rights in Context: Law, Politics, Morals*, 3rd ed. Oxford: Oxford University Press, 2007.

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ADP in International Relations

Foundation Course-V (Specialization) 4th Semester

Geo-Political Structure of the world Cr.hr:3

Course Description:

The main objective of the course is to develop an understanding for the students about those dimensions of International Relations which are influenced by prominent geographical factors and features of the world.

Contents:

- **Political Geography:** Traditional boundaries, Modern boundaries, Problems of boundaries
- **Geography of Imperialism:** The revolutionary heritage, Formal Imperialism: the creation of empires, Informal Imperialism: dominance without empires
- **Human Topography:** Politics of identity, Politics of ethnicity, Modernity and digital divide
- **Geography of Resources:** Water resources, Oil and gas, Food resources, Geo Politics, Core and periphery, Choke points, Buffer zones
- **Power Analysis and Political Geography:** Traditional empires, Colonial empires, Offshore empire
- **Geo-Economics:** Theories of geo-economics, Economics and politics, Common economic spaces

Core Books:

1. Cox, K. R. *Political Geography*. Oxford: Blackwell Publishers, 2002.
2. Dicken, P. *Global Shift: Reshaping the Global Economics Map in the 21st Century*, 4th ed. London: Sage Publications, 2003.
3. Little, R., and Smith, M. *Perspective on World Politics*. New York: Routledge, 2006.

Recommended Books:

1. Kupchan, C. A., Emanuel, A., Jean-Marc, C., and Khong, Y. F. *Power in Transition: The Peaceful Change of International Order*. Tokyo: United Nations University Press, 2001.
2. Martin, I. R. A. *Political Geography*, New York: John Wiley & Sons, Inc., 1993.
3. Miles, E. L. *Global Ocean Politics: The Decision Process on the Law of the Sea, 1973-1982*, Martinus: Nijhoff, 1998.
4. Richard, M. *Political Geography: A New Introduction*, New York: Macmillan, 1997.

ADP in International Relations

Foundation Course-VI (Specialization) 4th Semester

International Relations since 1945 Cr.hr: 3

Course Description:

The objective of this course is to acquaint the students with evolution of the world politics since the end of the 2nd World War, to get knowledge about historical background of the existing power politics at international level and to understand the present international scenario by tracing its roots from the historical developments.

Contents:

- **East-West Relations:** Impact of World War II on global politics, Emergence of Cold War, Bipolarity, and containment, Third World Developments-South Asia, Middle East, Afghanistan, Decolonization, Emergence of Non-aligned Movement, Sino-Soviet split and Sino-American rapprochement, Détente: East-West Cooperation and Peaceful Co-existence, Disintegration of the Soviet Union: Causes and consequences
- **Post-Cold War Era/New World Order:** United Nations in the post Cold War Era, Russia in the Post-Soviet setting, Changing role of NATO, Emerging Regionalism and Economic Organizations
- **New Poles of International Power and Influence:** Rise of China as a Major Power, Emergence of Japan and Germany as Economic Powers, Unification of the Germany, Rise of the Asia-Pacific region

Core Books:

1. Kegley, C. W. Jr. *World Politics: Trend and Transformation*. 4th ed. New York: St. Martin's Press, 1993.
2. Leaver, R.L., and Richardson, J. L. *Charting the Post-Cold Order*. Boulder: Westview, 1993.
3. Spiegel, S. L. *World Politics in New Era*, Harcourt: Brace College & Wehling, Fred L., 1999.

Recommended Books:

1. Ahmad, I. *New Nuclear Order: From Chagai & Pokhran*. Islamabad: Institute of Regional Studies, 1998.
2. Ahmer, M. *The Arab – Israeli Peace Process: Lesson for India and Pakistan*. Oxford: Oxford University Press, 2001.
3. Anderson, J. *The International Politics of Central Asia*. Manchester: Manchester University Press, 1997.
4. Bidwal, P., and Vaniel, A. *South Asia on a Short Fuse: Nuclear Politics and the Future of Global Disarmament*. Oxford: Oxford University Press, 1999.

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ADP in Islamic Studies

Foundation Course-II (Specialization) 4th Semester

Arabic Functional

Objectives of the Course	1- عربی زبان کو صحیح استعمال کرنے کے لیے صرف و نحو کی مہارت پیدا کرنا 2- طلباء میں عام عربی نصوص کو سمجھنے کی صلاحیت بہتر کرنا
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Course Description/Outlines

Sr. No	Title	Description
1	علم النحو	علم النحو کا تعارف علم النحو کی اہمیت علم النحو کی مبادیات
2		علم النحو کے اہم متعلقہ قواعد جملہ کی اقسام (جملہ اسمیہ اور فعلیہ) جملہ کی اقسام (نواسخ جملہ اسمیہ اور فعلیہ)
3	مبنی کلمات	مبنی کلمات کا تعارف مبنی کلمات کی اقسام مبنی کلمات سے متعلق قواعد
4	اسماء	اسماء موصولہ اسماء اشارہ اسماء افعال
5	معرب کلمات	معرب کلمات کا تعارف معرب کلمات کی اقسام معرب کلمات کے متعلقہ قواعد
6	مرفوعات	مرفوعات
7	منصوبات	منصوبات
8	مجرورات	مجرورات
9	مرکبات	مرکب ناقص اور اقسام مرکب تام (جملہ اسمیہ اور فعلیہ)
10	حروف عاملہ	حروف استفہام حروف ناصبہ حروف جازمہ
11	مطالعہ نص	معلم الانشاء (الجزء الاول) میں سے منتخب مطالعہ
12		معلم الانشاء (الجزء الاول) میں سے منتخب مطالعہ
13		قصص النبیین از مولانا ابو الحسن علی ندوی

ADP in Islamic Studies

Foundation Course-III (Specialization) 4th Semester

Introduction to Quranic Studies

Objectives of the Course	۱۔ طلباء کو علوم القرآن سے اس طرح روشناس کروانا تاکہ وہ قرآن فہمی کی منازل کو آسانی سے طے کر سکیں ۲۔ طلباء کی مفاہیم قرآن کی سمجھ میں مدد کرنا ۳۔ طلباء میں ایسی مہارت، سلیقہ اور صلاحیت پیدا کرنا جس کی مدد سے وہ دور جدید کے مسائل، قرآنی تناظر میں سمجھ سکیں
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Course Description

S.No	Topic	Description
1	تعارف قرآن مجید	۱۔ قرآن مجید کا لغوی اور اصطلاحی مفہوم ۲۔ قرآن مجید کی خصوصیات و امتیازات
2	وحی الہی	۱۔ وحی کا مفہوم و اہمیت ۲۔ وحی کی اقسام اور کیفیات
3	تاریخ نزول قرآن	۱۔ نزول قرآن کا مفہوم ۲۔ نزول قرآن مجید: تدریج و حکمتیں ۳۔ قرآن مجید کے خصائص
4	کتابت وحی	۱۔ کتابت وحی کا تعارف ۲۔ کتابتین وحی ۳۔ کتابت وحی کے اسالیب
5	حفاظت قرآن مجید	۱۔ حفاظت قرآن کا مفہوم ۲۔ حفاظت قرآن کے لیے اقدامات الف۔ حفظ ب۔ کتابت ج۔ عمل تواتر
6	حضرت ابوبکرؓ کے دور میں تدوین قرآن	۱۔ تدوین قرآن کی ضرورت ۲۔ تدوین قرآن کی ذمہ داری ۳۔ حفاظت قرآن کے لیے مدنی دور کے اقدامات
7	عہد عثمانیؓ میں تدوین قرآن	۱۔ عہد عثمانی میں تدوین قرآن کے اسباب ۲۔ عہد عثمانی میں تدوین قرآن کے اسالیب ۳۔ عہد عثمانی میں تدوین قرآن کے اثرات

8	قرآن پاک کی مکی سورتیں	۱۔ مکی سورتوں کا تعارف و اہمیت ۲۔ مکی سورتوں کی شان نزول ۳۔ مکی سورتوں کے اہم مضامین
9	قرآن پاک کی مدنی سورتیں	۱۔ مدنی سورتوں کا تعارف و اہمیت ۲۔ مدنی سورتوں کی شان نزول ۳۔ مدنی سورتوں کے اہم مضامین
10	اسباب نزول	۱۔ اسباب نزول کا تعارف و اہمیت ۲۔ قرآن فہمی اور اسباب نزول ۳۔ تشریح قرآن میں اسباب نزول کی حیثیت
11	ناسخ و منسوخ	۱۔ ناسخ و منسوخ کا تعارف ۲۔ ناسخ و منسوخ کے اسباب ۳۔ ناسخ و منسوخ کا قرآن فہمی اور قرآن پاک کی تشریحی حیثیت پر اثرات
12	تفسیر القرآن کے اہم ماخذ	۱۔ تفسیر قرآن بالقرآن ۲۔ تفسیر قرآن بالحديث ۳۔ تفسیر قرآن باقوال صحابہ و تابعین ۴۔ قدیم صحف سماوی ۵۔ جاہلی ادب ۶۔ آثار و اثریات
13	اسلوب القرآن	۱۔ اسلوب القرآن کا مفہوم ۲۔ اسلوب القرآن کی اقسام ۳۔ قرآن فہمی میں اسلوب القرآن کی اہمیت
14	اعجاز القرآن	۱۔ اعجاز القرآن کا مفہوم و تعارف ۲۔ اعجاز القرآن کی مختلف جہتیں ۳۔ اعجاز القرآن کے اثرات
15	قرآن مجید اور انسانی زندگی	۱۔ قرآن مجید اور انفرادی انسانی زندگی ۲۔ قرآن مجید اور اجتماعی انسانی زندگی ۳۔ قرآن مجید کے انسانی زندگی پر اثرات
16	قرآن مجید اور عصری مسائل	۱۔ عصری مسائل اور ان کی نوعیت ۲۔ عصری مسائل کے حوالے سے قرآن مجید کا منہج

نصابی کتب

نمبر شمار	نام مصنف	نام کتاب
1	مولانا تقی عثمانی	علوم القرآن
2	مولانا محمد مالک کاندھلوی	منازل العرفان

روائع البيان	محمد علي الصابوني	3
علوم القرآن	علامه شمس الحق افغانى	4
The History of The Quran Text from reveletion to compilation	مصطفى اعظمى	5

حواله جاتى كتب

الاتقان	علامه سيوطى	1
التفسير والمفسرون	ڈاکٹر محمد حسين الذهبى	2
تاريخ قرآن	عبدالصمد صارم	3
علوم القرآن	مولانا گوهر رحمن	4
تاريخ قرآن	مناظر احسن گیلانى	5

ADP in Islamic Studies

Foundation Course-IV (Specialization) 4th Semester

History of Hadith

Objectives of the Course	<p>۱. حدیث و سنت کی حجیت و اہمیت سے آگاہ کرنا</p> <p>۲. حفاظت و تدوین حدیث کے مختلف طریقوں اور ادوار کا مطالعہ کرنا</p> <p>۳. عہدِ خلافت راشدہ اور صحابہ کرامؓ میں تاریخ حدیث کی نوعیت واضح کرنا</p> <p>۴. محدثین کی مساعی کا مطالعہ کرنا</p>
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Course Descriptions

S.No.	Topic	Descriptions
1	حدیث و سنت کا تعارف	<p>۱. حدیث کا لغوی و اصطلاحی مفہوم</p> <p>۲. سنت کا مفہوم</p> <p>۳. حدیث و سنت میں فرق</p>
2	حدیث و سنت کی تشریحی حیثیت	<p>۱. حجیت حدیث و سنت</p> <p>۲. حدیث و سنت شریعت اسلامیہ کا بنیادی ماخذ</p> <p>۳. حجیت حدیث پر اعتراضات کے جوابات</p>
3	حفاظت حدیث کا پہلا دور (عہد رسالت)	<p>۱. آغاز اسلام میں حفاظت حدیث کے طریقے</p> <p>۲. عہدِ نبوی کے تحریری وثائق</p>
4	حفاظت حدیث کا دوسرا دور (عہد خلفائے راشدین اور صحابہ کرام)	<p>۱. عہدِ ابوبکر میں حدیث</p> <p>۲. عہدِ فاروقی میں حدیث</p> <p>۳. عہدِ عثمانی میں حدیث</p> <p>۴. عہدِ علی میں حدیث</p> <p>۵. صحف صحابہ</p>
5	حفاظت حدیث کا تیسرا دور (تابعین و تبع تابعین)	<p>۱. مکہ، مدینہ، کوفہ کے مراکز حدیث</p> <p>۲. بصرہ، شام، مصر کے مراکز حدیث</p>
6	حضرت عمر بن عبدالعزیز کے دور میں حفاظت و تدوین حدیث	<p>۱. حضرت عمر بن عبدالعزیز کے دور میں تدوین حدیث کے محرکات</p> <p>۲. اس دور کے اہم محدثین</p>
7	تدوین حدیث (۱)	<p>۱. دوسری صدی ہجری کی اہم تالیفات</p> <p>۲. دوسری صدی ہجری کے کبار محدثین</p>
8	تدوین حدیث (۲)	<p>۱. فتنہ انکار حدیث کی ابتداء</p> <p>۲. فتنہ وضع حدیث کے اسباب و محرکات</p> <p>۳. فتنہ انکار حدیث اور وضع حدیث کا تدارک</p>

9	تدوین حدیث (۳)	۱۔ کتب سنہ کے مؤلفین کا تعارف ۲۔ کتب سنہ کا تعارف اور اسالیب
10	تیسری صدی کے اہم محدثین (۱)	۱۔ علی بن المدینی، یحییٰ بن معین، ابویکرین ابی شیبہ ۲۔ ابوزرعہ رازی، ابو حاتم رازی، محمد بن جریر الطبری ۳۔ امام ابن خزیمہ، اسحاق بن راہویہ، احمد بن حنبل
11	تیسری صدی ہجری کے اہم محدثین (۲)	۱۔ محمد بن سعد، واقدی، امام دارمی ۲۔ امام ابن قتیبہ دینوری ۳۔ تیسری صدی کی اہم تالیفات
12	چوتھی صدی ہجری کے اہم محدثین (۱)	۱۔ امام حاکم نیشاپوری، دارقطنی، امام ابن حبان ۲۔ امام طبرانی، امام قاسم بن اصبح، امام ابن السکن ۳۔ امام طحاوی، امام ابو عوانہ، حافظ ابن مندہ
13	چوتھی صدی ہجری کے اہم محدثین (۲)	۱۔ حافظ ابن السنی، حافظ ابن رام ہرمزی، حافظ ابن عدی ۲۔ قاضی المحاملی
14	تدوین حدیث کا پانچواں دور	۱۔ مجدالدین ابن اثیر الجزری، عزالدین ابوالحسن ابن اثیر الجزری، حافظ ابن الصلاح ۲۔ امام نووی، حافظ ابن دقیق العید ۳۔ جمال الدین مزنی، ابن تیمیہ، حافظ ذہبی

نصابی کتب

نمبر شمار	نام مصنف	نام کتاب
1	ڈاکٹر صبحی صالح	علوم الحدیث
2	ڈاکٹر خالد علوی	حفاظت حدیث
3	محمد ابوزہرہ	الحدیث والمحدثون
4	مفتی رفیع عثمانی	تاریخ کتابت حدیث
5	ڈاکٹر مصطفیٰ سباعی	السنة و مکانتها في التشريع الإسلامي
6	مولانا ضیاء الدین اصلاحی	تذکرۃ المحدثین (تین جلدیں)
7	ڈاکٹر محمد مصطفیٰ الاعظمی	دراسات في الحدیث النبوی و تاریخ تدوینہ

حوالہ جاتی کتب

نمبر شمار	نام مصنف	نام کتاب
1	امام حاکم	معرفة علوم الحدیث
2	پیر محمد کرم شاہ الازہری	سنت خیر الانام
3	سید ابوالاعلیٰ مودودی	سنت کی اتنی حیثیت
4	علامہ ناصر الدین البانی	حجیت حدیث
5	علامہ غلام رسول سعیدی	تذکرۃ المحدثین
6	ڈاکٹر سراج الاسلام حنیف	تاریخ علوم حدیث

ADP in Islamic Studies

Foundation Course-V (Specialization) 4th Semester

History of Islamic Jurisprudence

Objectives of the Course	۱۔ طلباء کو فقہ اسلامی کے مفہوم اور ارتقائی مراحل سے آگاہ کرنا ۲۔ فقہ کی تدوین میں فقہاء کرام کی خدمات کو واضح کرنا ۳۔ موجودہ دور میں فقہ کی اہمیت کی وضاحت کرنا
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Course Description

S.No.	Title	Description
1	فقہ : مفہوم اور خصوصیات	۱۔ لغوی اور عمومی مفہوم ۲۔ بطور اصطلاح مفہوم کا ارتقاء ۳۔ خصوصیات
2	فقہ سے متعلقہ بنیادی اصطلاحات	۱۔ شریعہ، اصول الفقہ، قواعد فقہیہ، فروق، سیاسہ شرعیہ، خلاف
3	ماقبل اسلامی دور، قانون کا جائزہ	رومن اور اسلامی قوانین کا تقابلی
4	فقہ اسلامی کا پہلا دور (عہد نبوی) اور اسکی خصوصیات	۱۔ قرآن : فقہی تعریف، احکام ۲۔ سنت: فقہی حیثیت ۳۔ اجتہاد: مفہوم، حیثیت
5	فقہ اسلامی کا دوسرا دور (عہد خلافت راشدہ) اور اسکی خصوصیات	۱۔ قرآن : تدوین ۲۔ سنت: روایت، استدلال ۳۔ اجتہاد: انفرادی و اجتماعی
6	فقہ اسلامی کا تیسرا دور (عہد بنی امیہ) اور اسکی خصوصیات	۱۔ سنت: روایت، اقسام ۲۔ مکاتب فقہ کاظہور
7	فقہ اسلامی کا چوتھا دور (عہد بنی عباس) اور اسکی خصوصیات	۱۔ تدوین، علوم ۲۔ مکاتب فقہ کا ارتقاء
8	حنفی مکتب فقہ کا تعارف	۱۔ بانی، معروف فقہاء، کتب ۲۔ نظریہ قانون اور اصول
9	مالکی مکتب فقہ کا تعارف	۱۔ بانی، معروف فقہاء، کتب ۲۔ نظریہ قانون اور اصول
10	شافعی مکتب فقہ کا تعارف	۱۔ بانی، معروف فقہاء، کتب ۲۔ نظریہ قانون اور اصول
11	حنبلی مکتب فقہ کا تعارف	۱۔ بانی، معروف فقہاء، کتب ۲۔ نظریہ قانون اور اصول

12	جعفری اور زیدی مکاتب فقہ کاتعارف	۱۔ بانی، معروف فقہاء، کتب ۲۔ نظریہ ہائے قانون اور اصول
13	غیر مروجہ مکاتب فقہ کاتعارف	۱۔ اوزاعی، ثوری، طبری
14	فقہ اسلامی کے بقیہ ادوار	۱۔ قانونی نظام کا استحکام ۲۔ تدوین قوانین ۳۔ مابعدنوآبادیاتی نظام
15	پاکستان میں اسلامی قانون سازی کی تاریخ	۱۔ قرارداد مقاصد ۲۔ دستور 1973ء مع متعلقہ ترامیم ۳۔ وفاقی شرعی عدالت، اسلامی نظریاتی کونسل کاتعارف

نصابی کتب

نمبر شمار	نام مؤلف	نام کتاب
1	محمد تقی امینی	فقہ اسلامی کاتاریخی پس منظر
2	محمد الخضر می	تاریخ التشريع الإسلامي
3	عبدالکریم زیدان	المدخل لدراسة التشريع الإسلامي
4	احمد حسن	The Early Development of Islamic Jurisprudence
5	حسن الخطیب	فقہ الاسلام

حوالہ جاتی کتب

نمبر شمار	نام مؤلف	نام کتاب
1	صبحی محمصائی	فلسفة التشريع الإسلامي
2	مناظر احسن گیلانی	مقدمہ تدوین فقہ
3	محمد علی السائس	تاریخ الفقہ الإسلامي
4	صوفی حسن ابوطالب	بین التشريع الإسلامي والقانون الروماني
5	ابوزھرہ	۱۔ ابوحنیفہ ۲۔ مالک ۳۔ الشافعی ۴۔ احمد بن حنبل ۵۔ جعفر الصادق ۶۔ زید بن علی
6	قاری محمد طیب	اجتہاد و تقلید

ADP in Islamic Studies

Foundation Course-V
(Specialization) 4th Semester

Ikhlaqiat

The Ethics of Disagreement in Islam ادب الاختلاف

Title	Description
Semester	4 th
Nature of Course	ADP
Course Code	ISL-01407
No. of C.Hrs.	03
Total Teaching weeks	18
Objectives of the Course	

Course Description

S.No.	Title	Description
1	اخلاق کا تعارف و اہمیت	اخلاق کا لغوی و اصطلاحی مفہوم، اہمیت قرآن و سنت کی روشنی میں۔
2		اخلاق کی اقسام، فضائل اربعہ و فروعات۔
3		ردائل اربعہ و فروعات، عناصر اخلاق، اخلاقی و نفسانی امراض اور ان کے معالجات۔
4	مختلف اخلاقی نظریات	ارسطو، افلاطون کا تصور اخلاق، ہندومت، گوتم، گرونا نک۔
5		یہودیت و عیسائیت میں تصور اخلاق، مغرب کا تصور اخلاق اور اشتراکی تصور اخلاق۔
6	فضائل اخلاق کی اساس	فضائل اخلاق کے اختلاف اور تقسیم: صدق، عفت و پاکبازی، سخاوت، امانت و دیانت

7		، شرم و حیا، عدل و انصاف، ایفائے عہد، عفو و درگزر، حلم و بردباری،
8		رفق و لطف، تواضع و خاکساری، خوش کلامی، اعتدال اور میانہ روی، ایثار، عزت نفس یا خودداری، شجاعت، استقامت، حق گوئی، استغناء، غیر و حمیت۔
9		منکریا برائی، بے حیائی، جھوٹ، جھوٹی قسمیں کھانا، خیانت و بددیانتی، دغا بازی، فریب، بہتان، چغل خوری، بدگوئی، غیبت، بدگمانی، دو زُخا پین، حسد، بغض و کینہ، -
10	رذائل اخلاق	خوشامد، بخل، ریا، فخر و غرور، حرص، ظلم، فحاشی و زنا، فحش گوئی، اسراف، چوری، رشوت، سود خوری، شراب خواری۔
11		غلول، حب جاہ، حب مال اور ان اخلاقی امراض کا علاج۔
12		فارابی، ابن مسکویہ امام غزالی، جلال الدین دوانی (نظریہ سعادت و مثل اعلیٰ، فلسفہ اخلاق۔
13		غزالی، حیات انسانی کے نفسیاتی، معاشرتی اور سیاسی رویے اور اخلاق، اقسام مدینہ ومدینۃ الفاضلہ۔
14	مسلم مفکرین اخلاقیات اور ان کے نظریات	سیاست ملک کی اقسام، امور سلطنت، اخلاقی قوانین و وضعی قوانین میں فرق۔
15		حقوق و فرائض (اس حصہ میں اس تعلق کا مطالعہ کیا جائے گا، جو اخلاق اور عملی زندگی کے درمیان پایا جانا مطلوب ہے)

مجوزہ کتب: عبدالله بن مبارک، کتاب الزہد، وکیع بن جراح، کتاب الزہد، امام احمد بن حنبل، کتاب الوریع، المنذری، الترغیب و الترہیب علی ہجویری، کشف المحجوب، عبدالکریم قشیری، رسالہ قشیریہ ابونصر سراج، کتاب اللع؛ پروفیسر یوسف سلیم چشتی، اسلامی تصوف میں غیر اسلامی نظریات پروفیسر یوسف سلیم چشتی، تاریخ تصوف، ڈاکٹر میر ولی الدین، قرآن اور تصوف؛ سید ابوبکر غزنوی، حقیقت ذکر الہی، شیخ عبدالقادر حبیب اللہ، التصوف فی المیزان؛ امین احسن اصلاحی، تزکیہ نفس، امام غزالی، احیاء علوم الدین؛ غزالی، المنقذ

من الضلال ؛ حفظ الرحمان سيوهاروى، اخلاق اور فلسفه اخلاق ، سيد سليمان ندوى ، سيرت النبى (جلد ششم) خطيب العمري ولى الدين ، مشكاة المصابيح ، شاه ولى الله دهلوى ، فيوض الحرمين ، شاه ولى الله دهلوى ، بمعات ، الجيلى عبدالكريم، الانسان الكامل ، علامه احسان الہى ظہير ، التصوف المنشأ والمصادر ، عبدالوهاب شعرانى ، الاخلاق المقبولية ، محمدصادق عرجون ، التصوف فى الاسلام ، التصوف فى تراث ابن تيميه ، عبدالماجد دريأ ، تصوف اسلام ، ابو نعيم اصفهاني ، حلية الاولياء ، عبدالقادر جيلاني ، غنية الطالبين ، عبدالرحمن كيلاني ، شريعت و طريقت ، ابن تيميه ، الصوفيه والفقراء؛ ڈاکٹر احمد بن محمد بنانى، موقف ابن تيميه فى التصوف ؛ ابن قيم الجوزيه ، كتاب الروح ، مكتوبات مجدد الف ثانى، نواب سيد صديق حسن خان ، الدين الخالص مولانا اشرف على تھانوى ، التكشف عن مهمات التصوف ، شيخ شهاب الدين سهروردى ، عوارف المعارف.

NICHOLOSON, Mysticim in Islam,

Sufi Orders in Islam,

Arnold, Preaching of Islam.

Islam in sub-continent

Examinations Department IUB

4135

W. F. H.

ADP in Library & Information Science

Foundation Course-II (Specialization) 4th Semester

Evolution of Libraries & Information Sources

Ancient records of knowledge; history of libraries; evolution of alphabets; clay tablets; parchment; papyrus roles; codex; invention of printing; books; serials; journals; magazines; newspapers; audio. Visual; multimedia; microforms. Library and information profession; library and its role in society; information society.

Recommended Readings:

1. Rubin, R. E. (2017). Foundations of library and information science. American Library Association.
2. Kilgour, F. G. (1998). The evolution of the book. New York, Oxford University Press.
3. Liu, Z. (2008). Paper to digital: Documents in the information age. Westport, Conn.: Libraries Unlimited.

W. F. H.

ADP in Library & Information Science

Foundation Course-III (Specialization) 4th Semester

Organization of Information

Historical development of the organization of information; systems for organization of information: environments, storage and retrieval tools; encoding standards; cataloguing codes and its modern aspects; resource description and access (RDA); current systems. Role of libraries in information management. The information organization process; surrogate/metadata records: description, access; authority control; subject access: analysis; classification; organization and administration: arrangement, management issues; problems of information organization in Pakistan.

Recommended Readings:

1. Joudrey, D. N., & Taylor, A. G. (2017). *The organization of information*. ABC-CLIO.
2. [Lazarinis, F.](#) (2014) *Cataloguing and Classification: An introduction to AACR2, RDA, DDC, LCC, LCSH and MARC 21 Standards*. Chandos Publishing.
3. Harvey, D. R., Hider, P., & Harvey, D. R. (2004). *Organizing knowledge in a global society: Principles and practice in libraries and information centres*. Wagga Wagga, N.S.W.: Centre for Information Studies, Charles Sturt University.

W. Faiz

ADP in Library & Information Science

Foundation Course-IV (Specialization) 4th Semester

User Services in Libraries 3(3-0)

Introduction to user services; types of users, types of user services; circulation service; reference and information services (traditional and digital); book shelving; current awareness service (CAS), selective dissemination of information (SDI) service; documentation services; translation services; inter library loan; document delivery service; reprographic service; user education, information literacy; economic aspects of information; information policy; freedom of information; information privacy; intellectual property; information ethics.

Recommended Readings:

1. Bopp, R.E. and Smith, L.C. (eds), (2011). Reference and information services: an introduction. 4th ed. Colorado: Libraries Unlimited.
2. Kern, M. Kathleen (2009). Virtual reference best practices: tailoring services to your library. Chicago: American Library Association.
3. Evans, G. E. (2008). Introduction to library public services. Westport: Libraries Unlimited.

W. F. H.

ADP in Library & Information Science

Foundation Course-V (Specialization) 4th Semester

Emerging Technologies in Libraries & Information Centers 3(3-0)

Information and other library technologies; Hardware; Software; Operating systems; Telecommunications and networks; Internet and WWW; Barcode technology; Wireless technology and virtual private network (VPN); Social networking; Email; Word processing; Spreadsheets; Presentation software; Desktop publishing; Databases; Library security systems; Tele-lifts; Digitization hardware and software; Reprographic technology; Radio Frequency Identification (RFID) Scanning.

Recommended Readings:

1. Li, L. (2009). Emerging technologies for academic libraries in the digital age. Elsevier.
2. Miller, J. B. (2008). Internet technologies and information services. Westport, CT: Libraries Unlimited.
3. Burke, J. J. (2006). Library technology companion. New York: Neal-Schuman.
4. Calvert, P. (2017). Library Technology and Digital Resources: An Introduction for Support Staff. The Electronic Library.

W. F. H.

ADP in Library & Information Science

Foundation Course-VI (Specialization) 4th Semester

Reference and Information Sources 3(3-0)

Definition; evaluation criteria; bibliographies and its types; basic guides to reference materials; library catalogs; serials guides; indexes and abstracts; HEC NDL; dictionaries and thesauri; almanacs and fact books; encyclopedias; directories; biographical sources; geographical sources - maps, atlases & gazetteers; electronic reference sources; search engines; online searching (basic & advanced).

Recommended Readings:

1. Bopp, R.E. and Smith, L.C. (eds), (2011). Reference and information services: an introduction. 4th ed. Colorado: Libraries Unlimited.
2. Basic reference sources. <http://www.lili.org/forlibs/ce/able/course11/welcome-2.htm>
3. Katz, W.A.(2002). Introduction to reference work volume I: basic information services. 8th ed. New York: McGraw-Hill.

W. F. H.

ADP in Mathematics
Foundation Course-II
(Specialization) 4th Semester

Multivariable Calculus

Course Outlines:

Mid Term:

Vectors and analytic geometry in space: Coordinate system. Rectangular, cylindrical and spherical coordinates. The dot product, The cross product, The triple products. Vector Identities. Equations of lines and planes. Quadric surfaces. Vector-valued functions: Vector-valued functions and space curves. Derivatives and integrals of vector valued functions. Arc length, tangent, normal and binormal vectors. Osculating, normal and rectifying planes. Curvature and torsion.

Multivariable functions and partial derivatives: Functions of several variables. Limits and Continuity. Partial derivatives, Composition and chain rule. Directional derivatives and the gradient vector. Implicit function theorem for several variables. Maximum and minimum values. Optimization problems. Lagrange Multipliers.

Final Term:

Multiple integrals: Double integrals over rectangular domains and iterated integrals. Non-rectangular domains. Double integrals in polar coordinates. Triple integrals in rectangular, cylindrical and spherical coordinates. Applications of double and triple integrals. Change of variables in multiple integrals.

Vector calculus: Vector fields. Line integrals. Green's theorem. Curl and divergence. Identities involving gradient, curl and divergence. Surface integrals over scalar and vector fields. Divergence theorem. Stokes' theorem.

Prescribed Books:

- Thomas, Calculus, 14th Edition. Addison Wesley Publishing Company, 2017
- Stewart J, Calculus Early Transcendentals (8th edition), 2016, Brooks/Cole (suggested text)
- H. Anton, I. Bevens, S. Davis, Calculus, 10th Edition, John Wiley, & Sons, Inc. 2017
- Hughes-Hallett, Gleason, McCallum, et al, Calculus Single and Multivariable, 3rd Edition. John Wiley & Sons, Inc. 2002.
- Frank A. Jr, Elliott Mendelson, Calculus, Schaum's outlines series, 4th Edition, 1999

ADP in Mathematics
Foundation Course-III
(Specialization) 4th Semester

Elements of Set Theory and Mathematical Logic

Course Outlines:

Mid Term

Set theory: Sets, subsets, operations with sets: union, intersection, difference, symmetric difference, Cartesian product and disjoint union. Functions: graph of a function. Composition; injections, surjections, bijections, inverse function. Computing cardinals: Cardinality of Cartesian product, union. Cardinality of all functions from a set to another set. Cardinality of all injective, surjective and bijective functions from a set to another set. Infinite sets, finite sets. Countable sets, properties, examples (\mathbb{Z} , \mathbb{Q}). \mathbb{R} is not countable. \mathbb{R} , $\mathbb{R} \times \mathbb{R}$, $\mathbb{R} \times \mathbb{R} \times \mathbb{R}$ have the same cardinal. Operations with cardinal numbers.

Final Term

Cantor-Bernstein theorem. Relations: Equivalence relations, partitions, quotient set; examples, parallelism, similarity of triangles. Order relations, min, max, inf, sup; linear order. Examples: \mathbb{N} , \mathbb{Z} , \mathbb{R} , $P(A)$. Well-ordered sets and induction. Inductively ordered sets and Zorn's lemma. Mathematical logic: Propositional Calculus. Truth tables. Predicate Calculus.

Prescribed Books:

- M. Liebeck, A Concise Introduction to Pure Mathematics, CRC Press, 2011.
- N. L. Biggs, Discrete Mathematics, Oxford University Press, 2002.
- R. Garnier, J. Taylor, Discrete Mathematics, Chapters 1,3,4,5, CRC Press, 2010.
- A. A. Fraenkel, Abstract Set Theory, North-Holland Publishing Company, 1966.

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ADP in Mathematics
Foundation Course-IV
(Specialization) 4th Semester

Basic Algebra

Credit Hours: 03

Course Outlines:

Mid Term:

Group Theory: basic axioms of a group with examples, subgroups, order of a group, definition and examples of field, definition and examples of vector spaces, linearly dependent and independent sets, definition and examples of bases and dimensions of a vector space, algebra of matrices, inverse of matrices, elementary row operations, rank and nullity of a matrix, matrix of a linear transformation.

Final Term:

System of linear equations: equivalent equations, Gaussian elimination methods, Gauss-Jordan method, consistency criterion, determinants: determinant of a square matrix, axiomatic definition of a determinant, determinant as sum of products of elements, determinant of the transpose, algorithm to evaluate determinant, determinants and inverse of matrices.

Prescribed Books:

- H. Anton, Linear Algebra with Applications (8th edition), John Wiley, New York.
- I. N Herstein, Topics in Algebra (2nd edition), 1975, John Wiley, New York
- R. O. Hill, Elementary Linear Algebra with Application (3rd edition), 1995, Brooks/Cole
- R. Larson, D. C. Falv, Elementary Linear Algebra, (6th edition), 2009, Houghton Mifflin Harcourt Publishing Company, New York.
- S. M. Yousaf, A. Majeed, M. Amin, Mathematical Methods, IlmiKitabKhana, Urdu Bazar, Lahore

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ADP in Mathematics
Foundation Course-V
(Specialization) 4th Semester

Operation Research

Credit Hours: 03

Course Outlines:

Mid Term:

Linear inequalities, development of LP model, feasible and infeasible solutions, graphical methods, simplex method, revised simplex method, optimal solutions, range of optimal solutions,

Final Term:

Transportation model, relation between LP model and transportation model, methods for solving transportation model (North-West corner method, least cost method and Vogel approximation method) and assignment model.

Prescribed Books:

- Hamdy A. Taha, Operations Research, An Introduction, McMillan Publishing Company, New York, 1987.
- B.E. Gillett, Introduction to Operations Research, Tata McGraw-Hill Publishing Company Ltd., New Delhi. 2001
- G.D. Hillier, & G.J. Lieberman, Operations Research, CBS Publishers and Distributors, New Delhi. 1967

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ADP in Mathematics
Foundation Course-VI
(Specialization) 4th Semester

Number Theory
Credit Hours: 03
Course Outlines:

Mid Term:

Number systems: natural numbers, integers, rational numbers, real numbers, complex numbers, the equivalence and the difference of cardinality between them, de Morvie's theorem with applications, circular, hyperbolic and logarithmic functions, separation into real and imaginary parts and simple cases of summation of trigonometric series

Final Term:

Introduction to number theory including divisibility, the Euclidean algorithm, GCD and LCM of 2 integers, fundamental theorem of arithmetic (UFT), properties of prime numbers, congruence with applications, arithmetic functions, quadratic residues.

Prescribed Books:

- D. M. Burton, Elementary Number Theory, McGraw-Hill, 2007.
- K. H. Rosen, Elementary Number theory and its Applications (12th edition), 2000, Addison-Wesley, Reading, Ma, USA.
- S. M. Hussain, M. Zia-ud-din, S. A. Arif, Elementary Theory of Numbers, The Caravan Book House, Lahore, 2018
- S. M. Hussain, Guide to Elementary Theory of Numbers, Pakistan Book Centre Printing Agency, 2018

W. Faiz

ADP in Media Studies
Foundation Course-II
(Specialization) 3rd Semester

Media Laws & Ethics

Objectives

The course seeks to apprise the students about the codes of ethics, the laws and regulations, which are governing and regulating the media in Pakistan. The course develops the sense of norms, values and responsibility in future professionals, government media relationship and press freedom in Pakistan.

Contents:

Media Laws

Introduction, need and nature, Evolution of press laws in sub-continent and Pakistan, Salient features of the current press ordinances, PEMRA ordinance: establishment and salient features, Press Council Ordinance: Evolution, need, establishment and code of ethics, Defamation Ordinance, Copy Right Act, Constitutional provisions on fundamental rights of speech, and expression, Cyber laws and PTA, Social media as an emerging check on mass media and vice versa.

Ethics

Introduction, need and nature, Sources of ethics in Pakistan society, Need and scope, Ethics and media profession, Social responsibility theory, Islamic code of ethics, Islamic concept of communication, International codes of ethics (Print, electronic and web media), Pakistani codes of ethics, PFUJ, APNS, CPNE etc. Other codes of ethics and application, External and internal pressures on media, The violations of media ethics in Pakistan (deadline and rating) Privacy, corruption, personal interests, etc.), Violation of professional values: problems and consequences.

Recommended Readings:

1. Jabbar, Javed Qazi Faiz Isa (1997). *Mass Media Laws and Regulation in Pakistan*. Singapore: AMIC
2. Naz, Ahsan Akhtar (1998). *Sahafti Zimadariyan*. Islamabad: Muqtadara Qaumi Zuban (National Language Authority).
3. Hassan, Jawad & Hadi, Syed Ali (2004). *Media and Mass Communication laws of Pakistan*. Lahore: Haji Hanif Printers.

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ADP in Media Studies
Foundation Course-III
(Specialization) 3rd Semester

Broadcast Media, Short Film & Documentary ***Credit Hours: 03***

Objectives

To enable the students to know the background of Pakistan Broadcasting Corporation, Pakistan Television, Private media organizations and to know the basic concept of reporting and editing for Broadcast Media. Distinguish between, and critically evaluate, the principle 'modes' of documentary making. Produce their own short film, making informed and creative decisions at every stage of production process.

Radio: Introduction to Radio as a medium and structure, Type of Radio Programs: News, Feature, Documentary, Voxpops, Interviews, Radio Production: Basics of recording, Using audio variety, Sound bites, Audio editing using adobe auditions software, Basics of Radio News writing and types of Radio news, Socio-economic impact of FM Radio.

Television: Introduction to television as a medium and structure, Basics of writing style guide for television, Documentary, Interviews, Talk shows, Basics of TV News writing and its types, Structure, Contents, Flow, Breathing techniques, TV News delivery, Elements of a television news bulletin: Package, Beeper, Ticker, Voxpaps, Television Production: Team, Technical staff, Design team, Requisites for Pre-production and post-Production, Basics of TV anchoring, Basics of Video acquisition: Operating camera and Shooting, Recorders, Lighting, Set designing, Video composition and editing.

Short Film & Documentary: What is short film, its history & types, principles of short film, what is documentary, its history & types, principles of documentary?

Recommended Readings:

1. Sterling, Christopher H (1994). *Electronic Media*. London: Preager
2. Price, Stewart (1993). *Media Studies*. London: Pitman Publishing
3. Hart, Andrew (1991). *Understand the Media*. New York: Rontledge
4. Fink, Conrad (1990). *Inside the Media*. NewYork: Longman

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ADP in Media Studies
Foundation Course-IV
(Specialization) 4th Semester

Mass Media in Pakistan

Credit Hours: 03

Objectives:

This course is designed to study the role of Muslim Press in the Sub- continent with reference to the work of eminent Muslim journalists, and its role during freedom movement and struggle for Pakistan. It is further designed to help students to have a look on the evolution of print and electronic media in Pakistan from the beginning till date, with reference to their problems and prospects.

Contents:

Historical Background: Growth of the Press in the sub-continent. Role of Sir Syed Ahmed Khan, Moulana Hasrat Mohani, Moulana Muhammad Ali Johar, Moulana Abul Kalam Azad and Zafar Ali Khan. Press and the Pakistan Movement.

History and Development of Press: Press since independence. Major Developments of Press in Pakistan, Major problems and prospects of Press in Pakistan, Progressive writer's movement.

Government and Press: Government Press relations.

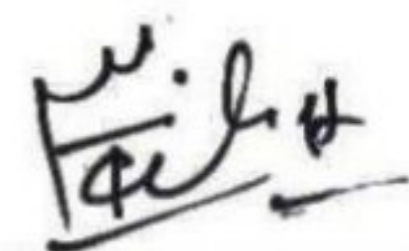
Electronic Media in Pakistan: Brief introduction to media in Pakistan, Growth & expansion of Radio, Television and Film In Pakistan, Growth of Cable television and its cultural and ethical dimensions. Rise and fall of film in Pakistan, Electronic Media in Private Sector. FM radio And Satellite, Television. Online Journalism: Development and future prospects.

News Agencies: Development of News Agencies. Expansion, Working, Organizational, Structure and Future perspective in Pakistan. Development of visual news agencies.

Recommended Readings:

1. Syed, M. H. (2006), *Mass Media in new world order*. Anmol Publication.
2. Ahmad, Shehzad (2005), *Journalism News Coverage*. Anmol Publication Pvt. Ltd. New Delhi
3. Hijazi, Miskeen Ali (2004), *Mass Communication Theory and Practice*. A-One Publishers. Lahore.
4. Aziz Yousaf (2003), *Prospect & Promotion of Electronic Media in Pakistan*

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Objectives:

The prime objective of this course is to create awareness among the students of the national and international issues that may have gained currency in the major newspapers at the time of offering this course.

Contents:

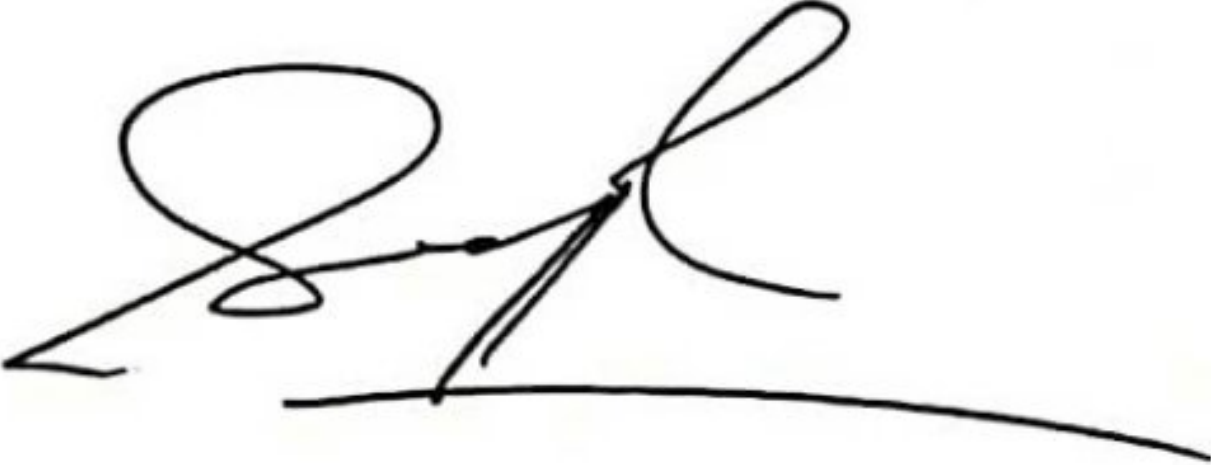
The teacher-in charge at the outset is supposed to identify at least 10 (ten) issues for the students to do extensive readings on it and discussions in the class. At the end of the Semester the students will be examined on those issues. Some of the identified issues may well be ones which may have gained a degree of permanence and significance relating to national and international scenario.

Recommended Readings:

1. Khan, Wasem Riaz (2019). *To the Point Current Affairs* Karachi: Jahangir's World Times Publisher
2. M Imtiaz Shahid, (2019). *Contemporary Affairs Current Affairs*. Book 108 Advanced Publisher.
3. Major Daily English Newspapers of Pakistan
4. Current Affairs Journals


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The Islamia University of Bahawalpur

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Objectives:

The course is designed to develop writing skills of the students for advanced journalistic writing like, editorial, column, feature, book reviews, Radio, TV programs review. It would enable students to differentiate among various types of newspaper writings apart from the news. This course is also planned to train the students in such a way that they should learn the basic techniques and principles for these writings.

Contents:

The Editorial: Definition of Editorial, Its purpose, importance and forms, Functions of Editorial, The Techniques of Editorial writing, The contents of editorial page, The editorial page in Pakistan and its standard, Difference between editorial, column and feature, Analyzing the media policy through editorials, Writing practice.

Feature Writing: Definition, Concept and Scope of Feature, Types of Feature, Sources for the material, Feature Writing Technique, The importance of Pictorial Display in features.

Column Writing: Definition and Concept, Functions of a Column, Types of Column, Role of Columnist in society, Practical Column Writing.

Review: What is review?, Difference between review and criticism, The purpose of Review writing the techniques of review writing, Practice of reviewing books, Film, Drama, Theatre, Radio and Television Program etc. Review exercise.

Recommended Readings:

1. N, Arora (2014). *Techniques of Feature Writing and Mass Communication*, Lahore: Pak Book Corporation.
2. Garrison, Bruce (2004). *Professional Feature Writing: Lea's Communication series*. Lawrence Erlbaum Associates.
3. Digregorio, Charlotte (1993). *You can be a columnist: Writing and Selling your way to prestige*. Civetta Press.
4. Clark., Brenneck *Magazine Article Writing*, New York.
5. Drewry J. E. (1951). *Book Reviewing*. Boston Macmillan Co.


Chairman
Department of Media Studies
The Islamia University of Islamabad

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ADP in Pakistan Study

Foundation Course-II (Specialization) 4th Semester

Political History of Pakistan (1947-1969)

Course Objective:

The course provides to the students a brief historical survey of Pakistan's Political Development. It will deal with the causes of Political unrest and the change of Prime Ministers. It will also deal with the behavior of Governor General Malik Ghulam Muhammad and Sakindar Mirza towards the political institutions. Further it will deal with the causes of implementation of Martial Law, the administrative and Political policies of Ayub Khan and its impact on the country.

Teaching Methodology:

1. The class will be conducted in a participatory environment where the class Instructor will lead discussions and the students will be encouraged to Participate and to ask questions at the end of each class session.
2. Students will be expected to read assignments in advance. It will be tested through discussions, cross- questioning, participation and the involvement of the students in learning.

Curriculum Contents

Session 1 Basic Problems at the Birth of Pakistan.

Session 2 Administrative and Political problems.

Session 3 Joint and separate electorate and language problem.

Session 4 Quaid's Vision about the Constitution of Pakistan.

Session 5 Political problems and first Continuant Assembly.

Session 6 One Unit Scheme.

Session 7 Power Politics and its Consequences.

Session 8 Political Parties and Pressure Groups.

Session 9 Elite Politics in Pakistan up to 1969.

Session 10 Military rule of Ayub Khan.

Session 11 The Political measures initiated by Ayub Khan.

Session 12 Over all estimate of Ayub Khan's Regime.

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Suggested Readings:

- Ahmad, Justice (Retd.) Masud, *Pakistan: A Study of its Constitutional History, 1857-1975*, Lahore, 1983.
- AhmerFazeel, *The Constitution of the Islamic Republic of Pakistan*, Karachi, 1997.
- SafdarMahmood, *Constitutional Foundations of Pakistan*, London, 1975.
- SafdarMahmood, *Constitution of Pakistan 1973*, Lahore, 1994.
- G.W Chaudry, *Constitutional Development in Pakistan*, Lahore, 1969.
- Kameranuddin Bin Abbas, *The Constitution of Pakistan*, Lahore, 1958.
- Keith, A.B., *Constitutional History of India*. Oxford, 1937.
- Khalid-bin-Saeed, *The Political System of Pakistan*, Boston, 1969.

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ADP in Pakistan Study

Foundation Course-III (Specialization) 4th Semester

Basic Geography of Pakistan

Course Objective:

This course focuses on the physical and human environment of Pakistan, its interaction and impact of interaction on both the land and the people. An important part of the course focuses on the actions that people can take to protect and conserve the environment.

Criteria of Students Evaluation:

- Test
- Assignment
- Quiz
- Group discussion

Curriculum Contents:

- Absolute and relative location area, international boundaries and administrative units of Pakistan Landforms.
- Drainage System
- Soil: Types and Productivity
- Weather & Climate: Temperature and rainfall conditions, Climatic regions
- Water resources: surface water and ground water resources – their distribution and quality
- Growth and distribution of Population and problems associated with high growth rate.
- Agriculture: Rainfall and irrigated agriculture.
 - a) Irrigation System:- Types of irrigation, brief history & development of canal irrigation systems. Natural and human factors controlling land productivity
 - b) Important crops and their distribution
- Mineral Resources:- Metallic and non-metallic Minerals (Excluding fossil fuels).
- Industries: Factors controlling the location of industries. Major industries
- Relationship of the geography of Pakistan with its history cultural diversity, economy, populations, and settlement distribution regional variations in developments, and international politics.

Suggested Readings:

- K.U. A. Kureshy, *Geography of Pakistan*, Karachi, Oxford University Press, 1972.
- O.H.K., Spate, *India and Pakistan, A General Regional Geography*, London, 1957.
- F.A. Shams, *Land of Pakistan: A Geographical Perspective*, Heinemann: London, 1978.
- B.L.C. Johnson, *Pakistan: A Geographical Perspective*, Heinemann: London, 1986.

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- Fazal-e-Karim, *Pakistan: Geography, Economy and People*, Oxford University Press, Karachi, 2003.
- Government of Pakistan, *Environmental Profile of Pakistan*.
- F.K. Khan, *Geography of Pakistan, Environment People and Economy*, OUP, Karachi, 1987.
- Ahmad, Nazir, *Water Resources of Pakistan and their Utilization*, Lahore: privately printed, 1993.
- O.H.K, Spate and Learn month, A.T.A., *India and Pakistan: Land, People, Economy*, London, 1972.
- BushraAfzalAbbasi, *Geography of South Asia.*, n.p.,n.d.

Examinations Department IUB

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ADP in Pakistan Study

Foundation Course-IV (Specialization) 4th Semester

Course Unit Code	PS-01403
Course Title	Pakistan's National Security: External and Internal Dynamics
Credit Rating	03
Level	BS. Pakistan Studies
Delivery	Semester-IV

Course Objective:

This course is mainly about Pakistan's security problems, internal as well as external. First part of the course seeks to discern, the roots of Pakistan's external security issues that gave rise to a culture dominated by military authoritarianism. The second part mainly deals with internal security problems.

Teaching Methodology:

1. The class will be conducted in a participatory environment where the class. Instructor will lead discussions and the students will be encouraged to participate and to ask questions at the end of each class session.
2. Students will be expected to read assignments in advance. It will be through discussions, cross- questioning, participation and the involvement of the students in learning.

Curriculum Contents

1. **National Security; Definition, aims, objectives and significance**
2. **External Security.**
 - a. Formation of Pakistan and emergence of security problems.
 - b. Security issues caused by Pakistan strategic position.
 - c. External Threats.
 - d. Countering External Threats.
 - e. Role of Army.
 - f. Interdependence.
 - g. Diplomatic Ties.
3. **Internal Security**
 - a. Internal Security Problems.

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- b. Role and structure of internal security.
- c. Crime: causes, types, trends and statistic.
- d. Causes of crime in Pakistan.
- e. Civil unrest.
- f. Policing and Prison system in Pakistan.

Recommended Books:

- Akhtar, Hamid Saeed. *A Study of Pakistan Military Law*. Sialkot: Modern Book Depot, 1977.
- Aulakh Dr. Ahmed Majeed. *Criminal Justice System in Pakistan*. Lahore: Pak Muslim Academy 1986.
- Ayub Khan, Mohammad. *The Evolution of Judicial Systems and Law in the Sub Continent* Peshawar, Pakistan: n.p., n.d.
- Bhatti, Manzoor Hussain. *Crime, Punishment, Prison and Juvenile Delinquency*. Lahore: Siraj-ud-Din, 1976.
- Burke, S. M., and Lawrence Ziring. *Pakistan's Foreign Policy*. (Rev. 2nd Ed.) Karachi: Oxford University Press, 1990.
- Suzan, Barry, and Gowher Rizvi, *South Asian Insecurity and the Great Powers*. New York: St. Martin's Press, 1986.
- Cheema, Pervaiz Iqbal. *Pakistan's Defense Policy, 1947-58* Basingstoke, United Kingdom: MacMillan, 1990.
- Ch. Iqbal, *Pakistan Society*. Lahore: Aziz Publisher 1984.
- Ch. M. A. K. *Policing in Pakistan*, Lahore Vanguard Arts Books 1997.
- Cohen, Stephen P. *The Pakistan Army*, Berkeley: University of California Press, 1984.
- Jamil Rahman Khan, ed. *Government Administration in Pakistan* Islamabad: Pakistan Public Administration Centre, 1987.

Learning Hours

Activity	Hours Allocated
Staff/Students Contacts	45
Private Study	27
Presentation/ Tutorials	18
Total Hours	90
Total Credits	03

Note: Each credit will be of 30 hours.

Assessment:

Apart from mid and final-term written examination, students will be assessed through their classroom participation, performance in individual and group work activities, written assignments and presentations. For each written examination the questions will comprise of multiple choice questions

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(M.C.Q.). Short answer questions and Detail answer questions. The distribution of marks will be as below:

Marks Distribution

Assessment Activity	Marks Allocated
Class Room Participation/General Behavior	5
Quiz	5
Assignments	5
Presentation	5
Mid Term Examination	30
Final Term Examination	50
Total	100

W. F. H.

ADP in Pakistan Study

Foundation Course-V (Specialization) 4th Semester

Course Unit Code	PS-01404
Course Title	Constitutional Development in Pakistan 1969-1999
Credit Rating	03
Level	BS. Pakistan Studies
Delivery	Semester-IV

Course Objective:

- The course provides students understanding about the constitutional development in Pakistan.
- To know/ point out the problems which we are facing from the beginning about the development of Constitution
- The stability of constitution and the constitutional problems.

Teaching Methodology:

1. The class will be conducted in a participatory environment where the class Instructor will lead discussions and the students will be encouraged to Participate and to ask questions at the end of each class session.
2. Students will be expected to read assignments in advance. It will be tested through discussions, cross- questioning, participation and the involvement of the students in learning.

Curriculum Contents

Session 1 Legal frame work order of Yahha Khan.

Session 2 The elections of 1970, after effects.

Session 3 The constitution of 1973.

Session 4 Amendments made by Bhutto.

Session 5 Formation of Majlis-e-Shura.

Session 6 Enforcement of Hadood Ordinance and setting up of Shriah Court.

Session 7 Shariah Bench of the Supreme Court and the Plan of QaziCourst.

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Session 8 Appointment of Federal Ombudsman.

Session 9 Enforcement of Shariah Ordinance 1988.

Session 10 8th. Amendment and Junajo

Session 11 The effects of 8th. Amendment.

Session 12 14th. Amendments _____ Floor Crossing Banished

Session 13 Constitutional Amendments and the Supreme Courts.

Session 14 Constitutional bill for 15th. Ammendment

Suggested Readings:

- Ahmad, Justice (Retd.) Masud, *Pakistan: A Study of its Constitutional History, 1857-1975*, Lahore, 1983.
- Ahmer Fazeel, *The Constitution of the Islamic Republic of Pakistan*, Karachi, 1997.
- Safdar Mahmood, *Constitutional Foundations of Pakistan*, London, 1975.
- Safdar Mahmood, *Constitution of Pakistan 1973*, Lahore, 1994.
- G.W Chaudry, *Constitutional Development in Pakistan*, Lahore, 1969.
- Kameruddin bin Abbas, *The Constitution of Pakistan*, Lahore, 1958.
- Keith, A.B., *Constitutional History of India*. Oxford, 1937.
- Khalid-bin-Saeed, *The Political System of Pakistan*, Boston, 1969.

Learning Hours

Activity	Hours Allocated
Staff/Students Contacts	45
Private Study	27
Presentation/ Tutorials	18
Total Hours	90
Total Credits	03

Note: Each credit will be of 30 hours.

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Assessment:

Apart from mid and final-term written examination, students will be assessed through their classroom participation, performance in individual and group work activities, written assignments and presentations. For each written examination the questions will comprise of multiple choice questions (M.C.Q.), Short answer questions and Detail answer questions. The distribution of marks will be as below:

Marks Distribution

Assessment Activity	Marks Allocated
Class Room Participation/General Behavior	5
Quiz	5
Assignments	5
Presentation	5
Mid Term Examination	30
Final Term Examination	50
Total	100

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ADP in Pakistan Study

Foundation Course-VI (Specialization) 4th Semester

Course Unit Code	PS-01405
Course Title	Political History of Pakistan (1969-1999)
Credit Rating	03
Level	B.S. Pakistan Studies
Delivery	Semester- IV

Course Objective:

- This course will provide to the students understanding about the political and constitutional development in Pakistan.
- The will come to know about the problems which the country was facing during the Military regime of Yahya Khan.
- In this paper the student will study about LFO and the Election of 1970, and the separation of East Pakistan.
- The Students will also be able to know about the Military and Civilian Rules from 1977-1999.

Teaching Methodology:

1. The class will be conducted in a participatory environment where the class Instructor will lead discussions and the students will be encouraged to Participate and to ask questions at the end of each class session.
2. Students will be expected to read assignments in advance. It will be tested through discussions, cross- questioning, participation and the involvement of the students in learning.

Curriculum Contents

Session 1 Power Politics and Transfer of Power to Yahya Khan.

Session 2 The Elections of 1970, Political Parties and Pressure Groups.

Session 3 Elite Politics in Pakistan during Yahya Khan's Regime.

Session 4 Zulfikar Ali Bhutto as Martial Law Administrator and President.

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Session 5 Zulfikar Ali Bhutto Policies as the Prime Minister of Pakistan.

Session 6 The Elections of 1970 and the downfall of Z.A. Bhutto.

Session 7 Martial Regime of Zia and Political Activism.

Session 8 Junajos Political Activities and its after effects.

Session 9 The period of Unstable Democracy.

Session 10 The Implementation of another Martial Law.

Suggested Readings:

- Ahmad, Justice (Retd.) Masud, Pakistan: A Study of its Constitutional History, 1857-1975, Lahore, 1983.
- Ahmer Fazeel, The Constitution of the Islamic Republic of Pakistan, Karachi, 1997.
- Safdar Mahmood, Constitutional Foundations of Pakistan, London, 1975.
- Safdar Mahmood, Constitutional of Pakistan 1973, Lahore, 1994.
- G.W Chaudry, Constitutional Development in Pakistan, Lahore, 1969.
- Kameruddin bin Abbas, The Constitution of Pakistan, Lahore, 1958.
- Keith, A.B., Constitutional History of India. Oxford, 1937.
- Khalid-bin-Saeed, The Political System of Pakistan, Boston, 1969.

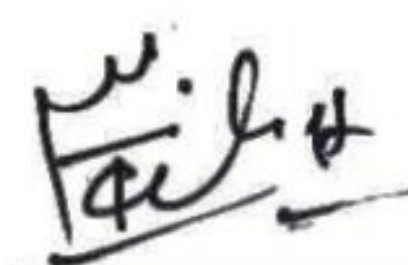
Learning Hours

Activity	Hours Allocated
Staff/Students Contacts	45
Private Study	27
Presentation/ Tutorials	18
Total Hours	90
Total Credits	03

Note: Each credit will be of 30 hours.

Assessment:

Apart from mid and final-term written examination, students will be assessed through their classroom participation, performance in individual and group work activities, written assignments and presentations. For each written examination the questions will comprise of multiple choice questions



(M.C.Q.), Short answer questions and Detail answer questions. The distribution of marks will be as below:

Note: Keeping in view the nature of the studies it is necessary for the students to visit the National Assembly and Senate of Pakistan during their sessions so that the student may be able to learn about the proceeding of legislator. The concerned instructor will arrange study tour for the visit of these offices and it will be compulsory for the students. The students will also submit the study tour report of 10 marks to their instructor.

Marks Distribution

Assessment Activity	Marks Allocated
Class Room Participation/General Behavior	5
Quiz	5
Assignments	5
Presentation	5
Mid Term Examination	30
Final Term Examination	50
Total	100

W. Faiz

ADP in Persian
Foundation Course-II
(Specialization) 4th Semester

Persian Grammar II.

Credit Hours: 3 hrs.

Methodology:

Class lectures & discussion, research based presentations, seminars, assignments

Syllabus of the course (Mid Term)

1. Introduction of Persian Fonatics/Masadir
2. Kind of Masadir, Maser e LazimwaMotaddi
3. Type of Masadir, masder e sada, murakab, peshwandi
4. Discussion about Muzary.
5. About Hasilmasder&Feil
6. Information about fel –e- Maroof&Majhool
7. About Feil-e-marooof& kind of feil - e -Maroof
8. Presentation of Students about said topics
9. Mid Term Examination.

Syllabus of the course (Final Term)

1. Introduction of feil – e – majhool
2. Detail of kinds of feil-e-Majhool.
3. Information about feil-e-majhool
4. Introduction of haroof/preposition
5. Types of haroof
6. Feil –e – naqis and its typs
7. Detail of kinds of feil-e-naqis
8. Presentation by students about above topics
9. Final Term Examination.

RECOMMENDED BOOKS

- Samray, Dr. Yadullah, AZFA (AmozisheZubane Farsi), Tehran 1366 H.S.
- Marzabanrad, Dr. Ali, DastooreSoodmand, Tehran, 1370 A.D.
- Tafhimi, Dr. Sajidullah, Farhang-e-Istalahat-e-Uloom-e-Adbi, Islamabad, 1375 H.S.
- Prof. Razi, KhudAamooz-e-Farsi, Vol 1&2, Lahore.
- Prof. MuhammadRafiq, dastoor e zaban e farsiwaMasder nama, Lahore, 2012
- Amoozesh e farsi-2, farsi

Guftari, Dr. MuhammadSaleem, Dr. NajamurRasheed&Dr. Sabir, oriental
Publications, Lahore

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ADP in Persian
Foundation Course-III
(Specialization) 4th Semester

Persian Rhetoric

Credit Hours: 3 hrs.

Methodology:-

Class lectures, translation, research based presentation, seminar, assignments & discussion.

SYLLABUS OF THE COURSE (Mid Term)

1. Introduction, need and objectives of rhetoric.
2. Tashbeh, ArkaneTashbeh and its types.
3. -do-
4. Metaphor (Esteara), Introduction & importance.
5. Types of Esteara, introduction & explanation.
6. Introduction of MajazMursal.
7. Explanation of the types of MajazMursal. Kinaya, introduction & explanation.
8. Mid Term Examianation.

SYLLABUS OF THE COURSE (Final Term)

1. Importance of ilmeBadee&Maani.
2. Laf-o-nashar, introduction & explanation.
3. Maratulnazeer, introduction & explanation.
4. Husn-e-Taleel introduction & explanation.
5. Talmeh,
6. Tajnees& its types.
7. Ejaz, Atnab, Mussawat, introduction & explanation.
8. Final Term Examination.

RECOMMENDED BOOKS

- Roohi, Asghar Ali, DabereAjam, Lahore, 1946 A.D.
- Tafhimi, DrSajidUllah, FarhangeIstilahateUloomeAdbi, Islamabad, 1375 H.S.
Humai, Jalal, Fanunabalaghat o

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ADP in Persian
Foundation Course-IV
(Specialization) 4th Semester

Course Title: *Comparative Study of Persian & Urdu literature*
Credit Hours: 3 hrs

Methodology:-

Class lectures, translation, research based presentation, seminar, assignments & discussion.

WEEK	SYLLABUS OF THE COURSE (Mid Term)
4.	Common words of Persian & Urdu
5.	-do-
3.	Compounds of Persian & Urdu.
4.	Common poetic allusions (talmihat) of Persian & Urdu.
5.	-do-
6.	Common poetic simile (tashbeh&estiarat) of Persian & Urdu.
7.	-do-
8.	Mid Term Examination.

WEEK	SYLLABUS OF THE COURSE (Final Term)
9.	Common poetic & literary topics of Persian & Urdu language.
10.	-do-
11.	Kinds of prose and poetry of Persian & Urdu.
12.	Influence of famous Persian poets on Urdu poets.
13.	-do-
14.	Translation from Persian & Urdu.
15.	Translation from Urdu to Persian.
8.	Final Term Examination.

RECOMMENDED BOOKS

- Dr. Sajid Ahmad, **Urdu shairi par bare-Saghirketehzibiasrat.** GanjShakar Press, Lahore 2003.
- Abdul Hameed Yazdani, **Pas-e-pardaGuria,** SangeMeel publications, Lahore 1992.
- MueenNizami, **IraniKahanian,** Lahore, 1999 A.D.
- Dr. SadiqShibli, **TaseerZubane Farsi beZubane-Urdu,** Iran Pakistan Institute of Persian studies, Islamabad 1992.
- **Pegham-e-Ashna,** quarterly Journal of the cultural Consulate of the Islamic republic of Iran, serial no. 18

W. Faiz

ADP in Persian
Foundation Course-V
(Specialization) 4th Semester

Course Title: *Fikr-e-Iqbal*
Credit Hours: 3hrs

Methodology:-

Class lectures, translation, research based presentation, seminar, assignments & discussion.

WEEK SYLLABUS OF THE COURSE (Mid Term)

6. Life History of Allama Iqbal.
7. Introduction of Persian & Urdu books of Allama Iqbal
8. Selected text from "Bang-e-Dara". Poem 'Shikwa'
9. Selected text from "Bang-e-Dara". Poem 'Jawab-e-Shikwa'
5. Introduction of different thoughts of Iqbal
6. Philosophy of "Khudi & Bekhudi"
7. Philosophy of "Mard-e-Kamil"
8. Mid Term Examination.

WEEK SYLLABUS OF THE COURSE (Final Term)

16. Selected Poem "Tariq ki Dua" & Ghazal 'Sitaron se Aagay..' (Translation & Explanation)
17. Poem 'Khudika sir-e-Nihan..' & 'Harlehza he Momin' (Translation & Explanation)
18. Poem "Iblees ki Majlis-e-Shura" (Translation & Explanation)
19. -do-
20. Philosophy of "Ishq-e-Rasool (p.b.u.h)
6. Iqbal & Pan Islamism
7. Iqbal's thinking about Art & Poetry
8. Final Term Examination.

Recommended Books:

- Iqbal, Allama Mohammad, Kulyate Iqbal (Persian), Lahore, 1965 A.D.
- Afkar-Iqbal, Dr. S.M. Minhaj-ud-Din, R.R. Printers Lahore, 1986 A.D.
- Iqbal Ki Tavalif Nazmen, Rafi-ud-Din Hashmi, Sangemeel Publication, Lahore, 1993.
- Iqbal aik Tehreek, Dr. Syed Akram Ikram, Punjab University Lahore, 2004.
- Iqbal ki Farsi Shairi ki Tanqid, Dr. Abdul Shakur Ahsan.
- Iqbal darrahe Moulvi, Dr. Syed Akram Shah.
- Iqbal Mashraiq. Dr. AbdurRaffi Haqqat.
- Iqbal Lahori o deegar shuraefarsi go, Dr. Muhammad Riaz, Institute of Persian research studies, Islamabad 1977.

ADP in Persian
Foundation Course-VI
(Specialization) 4th Semester

Course Title: *Translation & Spoken Persian*

Credit Hours: 3 hrs

Methodology:-

Class lectures, translation, research based presentation, seminar, assignments & discussion.

SYLLABUS OF THE COURSE (Mid Term)

10. What is definition of Pharase/ Jumla and its structure.
11. -do-
12. Types of Jumla/ JumlaIsmia&JumlaFailiya
13. -do-
5. Simple Phrases& Compound Phrases
6. -do-
7. -do-
8. Mid Term Examination.

SYLLABUS OF THE COURSE (Final Term)

1. Practice for Translation and Re-Translation
2. -do-
3. Translation of Persian paragraph in to Urdu .
4. -do-
5. Persian translation of Urdu text.
6. Urdu Translation of Persian text.
7. -do-
8. Final Term Examination.

RECOMMENDED BOOKS

- Dr. Sibte -e - Hassan Rizvi, Dr. Ali RazaNaqvi. Gulshane Farsi, Islamabad, 1989 A.D.
- Dr. Abdul ShakoorAhsan, Modern Trends In The Persian language, Iran-Pakistan Institute of Persian studies, Islamabad, 1976 A.D.
- Dr. SajidUllahTafhimi, Farhang-e- Istlahat-e- Adabi, Iran-Pakistan Institute of Persian studies, Islamabad, 1996A.D.
- Prof. Feroz-ud-Din Raazi, KhudAmoze Farsi, (2 volum) Oxford & Cambridge Press, Lahore.
- Dr. Zahur-ud-Din Ahmad , Dastur-e- Zubane Farsi, Lahore, 1975 A.D.
- Dr. YadUllahSamrah, (4 volums) International relation deptt, Ministry of Islamic Culture. Tehran, 1989
- Prof. Muhammad Rafique , Ex Chairperson, Deptt Of Persian, GCU. Lahore, Ilmi Kitab Khana, Kabeer Street, Urdu Bazar, Lahore, 2012 A.D.

W. Faiz

ADP in Physical Education

Foundation Course-II (Specialization) 4th Semester

Science of Track and Field (Theory)

OBJECTIVES OF COURSE

The main purpose of this course is to enhance the knowledge of the students regarding Track & Field. This course will also be helpful in developing the skill of the students regarding the marking, and laying out of standard track and other circles and marking of the track. The students will be able to conduct the track and field competitions at various levels as well as to perform the duties of Technical officials.

COURSE CONTENTS

Week(s)	Contents
Week# 1, 2	HISTORY OF ANCIENT OLYMPIC GAMES WITH SPECIAL REFERENCE TO TRACK & FIELD a. Brief History b. Rules of participation c. Program of activities
Week# 3, 4, 5	MODERN OLYMPIC GAMES WITH SPECIAL REFERENCE TO TRACK & FIELD a. Brief History b. Rules of participation c. Program of activities
Week# 6, 7, 8	LAYING OUT STANDARD TRACK CONDUCT OF TRACK AND FIELD EVENTS a. Preparation of Track and Field competition program (Board, University, Province, National) b. Formation of Committees for Track and Field Competition
Week# 9	Mid Term
Week# 10	OFFICIALS AND THEIR DUTIES IN TRACK AND FIELD EVENTS
Week# 11, 12	RULES AND TECHNIQUES OF TRACK EVENTS
Week# 13, 14	RULES AND TECHNIQUES OF FIELD EVENTS

W. Field

Week# 15	RULES OF CROSS COUNTRY
Week# 16	RULES OF WALK-RACE
Week# 17	DECATHLON, AND PENTATHLON
Week# 18	Final Term

RECOMMENDED BOOKS

1. Winnick, J., & Porretta, D. (Eds.). (2016). *Adapted Physical Education and Sport*, 6E. Human Kinetics.
2. IAAF (2015). *IAAF Hand Book*: International Association of Athletics Federation.
3. Gifford, C. (2008). *Track and Field*. The Rosen Publishing Group.
4. Barber, G. (2006). *Getting Started in Track and Field Athletics: Advice & Ideas for Children, Parents, and Teachers*. Trafford Publishing.
5. Rogers, J. L. (Ed.). (2000). *USA track & field coaching manual*. Human kinetics.

W. Field

ADP in Physical Education

Foundation Course-III
(Specialization) 4th Semester

Major Games Practical-I (Volleyball & Basketball)

OBJECTIVES OF COURSE

This practical course has been designed with the purpose to provide technical knowledge to students develop their skill in selected games.

COURSE CONTENTS

Week(s)	Contents
Week# 1, 2, 3	VOLLEYBALL (Skills) a. Service b. Digging/Reception c. Boosting/Setting d. Smashing/Attack e. Blocking f. Court Defense
Week# 4, 5, 6	VOLLEYBALL (Coaching) a. Fitness b. Coordination c. Skill Work d. Foot-Work
Week# 7, 8	VOLLEYBALL (Officiating) a. Umpiring b. Line Judging c. Marking d. Scoring
Week# 9	Mid Term
Week# 10, 11, 12	BASKETBALL (Skills) a. Service b. Digging/Reception c. Boosting/Setting

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	d. Smashing/Attack e. Blocking f. Court Defense
Week# 13, 14, 15	BASKETBALL (Coaching) e. Fitness f. Coordination g. Skill Work h. Foot-Work
Week# 16, 17	BASKETBALL (Officiating) e. Umpiring f. Line Judging g. Marking h. Scoring
Week# 18	Final Term

RECOMMENDED BOOKS

1. Salen, K., & Zimmerman, E. (2004). *Rules of play: Game design fundamentals*. MIT press.
2. Lenberg, K. (Ed.). (2006). *Volleyball skills & drills*. Human Kinetics.
3. Shondell, D. S., & Reynaud, C. (Eds.). (2002). *The volleyball coaching bible*. Human Kinetics.
4. Kus, S. (2004). *Coaching volleyball successfully*. Human Kinetics.
5. Martens, R. (2012). *Successful coaching*. Human Kinetics.
6. Turner, B. (2015). *Factors Related to Preferences of Female Collegiate Volleyball Players' Coaching Style*. Robert Morris University.
7. Krause, J. V., & Nelson, C. (2018). *Basketball skills & drills*. Human Kinetics.
8. Thomas, K. (2005). *How Basketball Works*. Maple Tree Press.
9. Prudden, J. (2006). *Coaching girls' basketball successfully*. Human kinetics.
10. Wootten, M., & Wootten, J. (2012). *Coaching basketball successfully*. Human Kinetics.
11. McGee, K. (2007). *Coaching basketball technical and tactical skills*. Human Kinetics.
12. Rose, L. H. (2012). *Winning basketball fundamentals*. Human Kinetics.

W. F. H.

ADP in Physical Education

Foundation Course-IV (Specialization) 4th Semester

Course Code PEDU-04403, Sports Psychology (Theory) (3 Cr. Hr.)

OBJECTIVES OF COURSE

The course of Sport Psychology is designed to fulfill the following objectives:

There is very little know how in the people related to the sports arena in the sweet homeland about Psychology involvement in sport, which is resulting in the deserting of the ground and sport. This in turn is making the people idle, unhealthy and negative where they will for the uplift of their own or the country is lacking. There is a dire need to clinch the people back to the play fields in order to achieve the goal of strong individuals who may contribute to the success of the nation. Psychology need to be infused at gross root level as it will act as motivator for the young generation, so if the Physical Education Teacher is equipped with the knowledge, he'll be better able to inculcate the theme in the off-springs. The knowledge of Sport Psychology will enable the students to learn more about the organized play and goal setting procedures, which will contribute to the services provided by them in the educational as well as professional institutions.

COURSE CONTENTS

Week(s)	Contents
Week# 1, 2	SPORTS PSYCHOLOGY a. Defining Sports and exercise Psychology b. Specializing in sport psychology c. Difference between Clinical and Educational Sports Psychology d. Choosing from many sport and exercise psychology around the world
Week# 3, 4, 5	AGGRESSION IN SPORTS a. Defining Aggression c. Understanding the causes of Aggression d. Examining Aggression in Sports: <ul style="list-style-type: none">• Spectators and aggression• Games Reasoning and aggression• Athletic injuries and aggression• Performance and aggression• Team moral atmosphere and aggression
Week# 6, 7, 8	MOTIVATION IN SPORTS

W. F. H.

	<ul style="list-style-type: none"> a. Defining Motivation b. Reviewing three approaches to Motivation: <ul style="list-style-type: none"> • Trait-centered View • Situation-centered View • Interactional View c. Building motivation with five guidelines d. Using achievement motivation in professional practice
Week# 9	Mid Term
Week# 10, 11	<p>GOAL SETTING IN SPORTS</p> <ul style="list-style-type: none"> a. Defining Goals b. Reasons for Goal Setting c. Types of Goals <ul style="list-style-type: none"> • Outcome Goals • Performance Goals • Process Goals • Team Goals d. Effectiveness of Goal Setting e. Principles of Goal Setting f. Common Problems in Setting Goals
Week# 12, 13	<p>AROUSAL, STRESS AND ANXIETY</p> <ul style="list-style-type: none"> a. Differentiating among Stress, Anxiety and Arousal b. Measuring arousal and anxiety d. Connecting arousal and anxiety to sports performance e. Defining Stress f. Understanding the stress process g. Sources of stress and anxiety h. Applying knowledge to professional practice
Week# 14, 15	<p>IMAGERY AND PERFORMANCE</p> <ul style="list-style-type: none"> a. What is Imagery b. Evidences of imagery effectiveness c. Imagery in sport: where, what, when, and why d. Factors affecting the Effectiveness of Imagery e. How Imagery works f. Uses of Imagery in Sports g. How to develop an Imagery Training program h. When to use imagery

Week# 16, 17	<p>EXERCISE AND PSYCHOLOGICAL WELL-BEING</p> <p>a. Reducing anxiety and depression with exercise b. Enhancing mood with exercise c. Understanding exercise effect on psychological well-being d. Enhancing quality of life with exercise</p>
Week# 18	Final Term

RECOMMENDED BOOKS

1. Weinberg, R. S., & Gould, D. (2018). *Foundations of Sport and Exercise Psychology*, 7E. Human Kinetics.
2. Richard H. Cox, (2007) 6th Ed. *Sports Psychology*. McGraw Hill.
3. Moran, A., & Toner, J. (2017). *A Critical Introduction to Sport Psychology: A Critical Introduction*. Routledge.
4. James M. William, (2006) 5th Ed. *Applies Sports Psychology*, McGraw Hill.
5. Karageorghis, C. I., Terry, P. C., & Dickenson, P. (2011). *Inside sport psychology*. Champaign, IL: Human Kinetics.

W. Fair

ADP in Physical Education

Foundation Course-V (Specialization) 4th Semester

Course Code PEDU-04404, Theory of Games (Theory) (3+0 Cr. Hr.)

OBJECTIVES OF COURSE

This course is aimed at developing the knowledge of students about rules of the sports & games along with the coaching skills of different sports among the students. The course will enhance the organizational skills in the students and knowledge regarding organization and conduct of tournament at school, college, university and National levels. It will also help the students to develop and polish their leadership qualities and sports-man spirit.

COURSE CONTENTS

Week(s)	Contents
Week# 1, 2	INTRODUCTION a. Definition of Games and Sports b. Types of Games and Sports c. Values of Games and Sports
Week# 3, 4, 5, 6	SYSTEMS OF TOURNAMENT a. Single elimination or knockout system b. Round robin or league system c. Combination system d. Challenge system • Ladder system • Pyramid system
Week# 7, 8	ORGANIZATION AND CONDUCT OF TOURNAMENTS a. Board level b. University level c. Provincial level d. National level
Week# 9	Mid Term
Week# 10, 11	HISTORY, RULES AND TECHNIQUES OF GAMES (RACKET) a. Badminton b. Tennis c. Table Tennis

W. P. P. P.

Week# 12, 13, 14	HISTORY, RULES AND TECHNIQUES OF GAMES (BALL GAMES) a. Basketball b. Volleyball
Week# 15, 16, 17	HISTORY, RULES AND TECHNIQUES OF GAMES (FIELD GAMES) a. Football b. Hockey
Week# 18	Final Term

RECOMMENDED BOOKS

1. Salen, K., Tekinbaş, K. S., & Zimmerman, E. (2004). *Rules of play: Game design fundamentals*. MIT press.
2. Bass, T. L. (2012). *Football skills & drills*. Human Kinetics.
3. Anders, E., & Myers, S. (2008). *Field hockey: Steps to success*. Human Kinetics.
4. Lenberg, K. (Ed.). (2006). *Volleyball skills & drills*. Human Kinetics.
5. Smith, T. (2011). *Tom Smith's Cricket Umpiring & Scoring*. Weidenfeld & Nicolson.
6. McAfee, R. E. (2009). *Table tennis: Steps to success*. Human Kinetics.
7. Bartlett, R. (2007). *Introduction to sports biomechanics: Analysing human movement patterns*. Routledge.

W. F. H.

ADP in Physical Education

Foundation Course-VI (Specialization) 4th Semester

**Course Code PEDU-04405, Major Athletics Practical (Sprint Races, Throws & Jumps)
(0+2 Cr. Hr.)**

OBJECTIVES OF COURSE

The outline of this practical course is prepared with the purpose to provide basic knowledge to the students with modern approach for developing their skills in Track and Field events. Furthermore, this course will enable them to develop courage, determination, speed, endurance and self-reliance

COURSE CONTENTS

Week(s)	Contents
Week# 1, 2	SPRINT RACES (Skills, Coaching and Officiating) a. Start (Position at Block) b. Batten Changing c. Finishing Technique
Week# 3, 4, 5	THROWS (Discus) (Skills, Coaching and Officiating) a. Stance b. Grip/Holding c. Glide d. Throw and Balance
Week# 6, 7, 8	THROWS (Shot Put) (Skills, Coaching and Officiating) a. Stance b. Grip/Holding c. Glide d. Throw and Balance
Week# 9	Mid Term
Week# 10, 11, 12	THROWS (Javelin) (Skills, Coaching and Officiating) a. Stance b. Grip/Holding c. Throw and Balance
Week# 13, 14, 15	JUMPS (Horizontal) (Skills, Coaching and Officiating) a. Start b. Run-up

W. Field

	c. Jumping style at Takeoff board d. Style of crossing bar e. Landing
Week# 16, 17	JUMPS (Vertical) (Skills, Coaching and Officiating) a. Start b. Run-up c. Jumping style at Takeoff board d. Style of crossing bar e. Landing
Week# 18	Final Term

RECOMMENDED BOOKS

1. Silvester, L. J., & Silvester, J. (2003). *Complete book of throws*. Human Kinetics.
2. Hargreaves, A. (2009). *Skills & Strategies for coaching soccer*. Human Kinetics.
3. Lasorsa, R., & Peterson, J. A. (Eds.). (2007). *2008 NTCA Throws Handbook*. Coaches Choice Books.
4. Potrac, P., Gilbert, W., & Denison, J. (Eds.). (2013). *Routledge handbook of sports coaching*. Routledge.
5. Hardman, A. R., & Jones, C. (Eds.). (2010). *The ethics of sports coaching*. Routledge.
6. Nelson, L., Groom, R., & Potrac, P. (Eds.). (2016). *Learning in sports coaching: Theory and application*. Routledge.
7. Goosey-Tolfrey, V. (2010). *Wheelchair sport: a complete guide for athletes, coaches, and teachers*. Human Kinetics.
8. Maffetone, P. (2010). *The big book of endurance training and racing*. Skyhorse Publishing, Inc..
9. Vanlandewijck, Y. C., & Thompson, W. R. (Eds.). (2016). *Training and coaching the Paralympic athlete*. John Wiley & Sons.

W. T. Fisher

ADP in Physics

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WAVES, OPTICS AND THERMODYNAMICS

2+1 C.H.

Theory

2 C.H.

Mechanical and Traveling waves, Wave equation and calculation of energy, Principle of superposition, Interference of waves, Standing waves and resonance, Power and intensity in waves motion, Doppler's effect, Wave optics, Diffraction through single and double slits, Young's double slit experiment, Michelson's interferometer, Diffraction grating and Holography, Polarization of light, Temperature and kinetic theory of ideal gas, Thermodynamic functions (Internal energy, Enthalpy, Gibb's functions, Entropy, Helmholtz functions), Maxwell's relation, TDS equations, Van der Waals equation of state, Laws of thermodynamics and their applications, Carnot's theorem and engine, Equipartition of energy.

Lab.

1 C.H.

1. To determine the value of mechanical equivalent of heat 'J' by Callendar and Barner's electrical method with compensation for heat losses.
2. To determine the frequency of A.C. supply by Melde's experiment.
3. To determine the specific rotation of sugar or glucose solution by Laurent's half shade polarimeter.
4. To determine the frequency of A.C. supply by electric sonometer.
5. To determine the wavelength of sodium light by diffraction grating using spectrometer.
6. To determine the wavelength of sodium light by Fresnel's biprism.
7. To determine the resolving power of a diffraction grating.
8. To study the characteristics of photoelectron emission and determination of Plank's constant using a photocell.
9. To determine the wavelength of sodium light by Newton's rings.
10. To determine the temperature coefficient of resistance of a given wire.

Note: Students must have to perform at least 06 experiments from the list provided above or any other relevant experiment available in the laboratory. Teachers should emphasize on graphical analysis and error calculations.

Recommended Books:

1. D. Halliday, R. Resnick and K.S. Krane, *Physics* (Vol. 1 & 2), John Wiley & Sons, 5th Ed. 2010.
2. H.D. Young, *College Physics*, Sears and Zemansky's, 9th Ed. 2012.
3. R.A. Serway and J.W. Jewett, *Physics for Scientists and Engineers*, Golden Sunburst Series, 9th Ed. 2014.

Note: The Instructor may suggest any relevant/latest books available.

FUNDAMENTALS OF MATERIALS

3+0 C.H.

Metals and alloys, Ceramics, Organic polymers, Composites, Semi-conductors, Superconductors, Biomaterials, Advanced Materials, Smart materials, Nano-structured materials, Quantum dots, The electron, Protons, Neutrons, Atomic number, Atomic weight and mass number, Isotopes, Isobars, Isotones, Avogadro's number, Atomic nucleus, Atomic models, Electronic configuration of atoms, Wave mechanical picture of the atom, Forces between atoms, Mechanism of bond formation and bond energy, Types of bonds: Primary bonds (Ionic, Covalent and Metallic bond), Comparison of ionic, covalent and metallic bonds, Secondary bonds, Mixed bonds, Electronegativity, Mechanical (*e.g.* elastic modulus and strength), Electrical (*e.g.* electrical

conductivity and dielectric constant), Thermal (*e.g.* heat capacity and thermal conductivity), Magnetic (*e.g.* hysteresis and Curie temperature), Optical (*e.g.* index of refraction and reflectivity), Deteriorative (*e.g.* chemical reactivity of materials).

Recommended Books:

1. S.L. Kakani and A. Kakani, *Materials Science*, New Age Int. Publishers, 2004.
2. W.D. Callister, Jr. D.G. Rethwisch, *Materials Science and Engineering: An Introduction*, John Wiley & Sons, 10th Ed. 2018.
3. W.F. Smith, *Principles of Materials Science and Engineering*, McGraw-Hill Book Comp., 3rd Ed. 1999.

Note: The Instructor may suggest any relevant/latest books available.

Semester-IV

ELECTROMAGNETIC THEORY

2+1 C.H.

Theory

2 C.H.

Electric field and electric dipoles, Charge and its distributions, Electric potential and Gauss's law, Electric field as gradient of potential, Conductors and insulators, Capacitors and dielectrics, Electromagnetic spectrum, Poisson's and Laplace's equations, Magnetic field and energy density, Faraday's law, Lenz law, Biot-Savart law, Ampere's Law and its applications, Transformer, Inductance and inductive circuits (RL, LC and RLC circuits), Displacement current and Maxwell's equations, Electromagnetic waves and Poynting vector.

Lab.

1 C.H.

1. To measure the high resistance using a neon flash bulb and capacitor (condenser)
2. To convert a Weston type galvanometer into an ammeter reading upto 1.0 ampere (0-1.0 ampere range)
3. To convert a Weston type galvanometer into a voltmeter upto 3.0 volts (0-3 volts range)
4. To calibrate an ammeter using a potentiometer.
5. To calibrate a voltmeter using a potentiometer.
6. To determine the charge sensitivity of a ballistic galvanometer.
7. To compare the capacitances of two capacitors by ballistic galvanometer.
8. To determine the unknown low resistance by Carey Foster bridge.
9. To set up an RLC series (Acceptor) circuit. Draw its frequency response curve and find the values of resonance frequency, bandwidth and quality factor.
10. To set up an RLC parallel (Rejecter) circuit. Draw its frequency response curve and find the values of resonance frequency, bandwidth and quality factor.

Note: Students must have to perform at least 06 experiments from the list provided above or any other relevant experiment available in the laboratory. Teachers should emphasize on graphical analysis and error calculations.

Recommended Books:

1. D. Halliday, R. Resnick and K.S. Krane, *Physics* (Vol. 1 & 2), John Wiley & Sons, 5th Ed. 2010.
2. H.D. Young, *College Physics*, Sears and Zemansky's, 9th Ed. 2012.
3. R.A. Serway and J.W. Jewett, *Physics for Scientists and Engineers*, Golden Sunburst Series, 9th Ed. 2014.

Note: The Instructor may suggest any relevant/latest books available.

ELECTRONICS AND MODERN PHYSICS

2+1 C.H.

Theory

2 C.H.

Free electron model, Energy band theory, p-type and n-type semiconductors, p-n junction diode (its structure, characteristics and application as rectifiers), Transistor (basic structure and operation), Transistor as an amplifier, Transistor configurations (Common base, Common emitter, Common collector), R.C. Oscillators, Boolean algebra and logic gates (OR, AND, NOT, NAND, NOR), Black body radiations, Stefan-Boltzmann, Wien's and Planck's laws, Photoelectric and Compton effects, Emission and absorption spectra, Wave behavior of particle (wave function *etc.*), de Broglie hypothesis, Davisson-Germer and J.P. Thomson

experiments, Wave packets and particles, Bohr's theory (review), Frank-Hertz experiment, Bohr's magneton, Pauli's exclusion principle.

Lab.

1 C.H.

1. To draw the characteristics of a semiconductor diode and calculate the forward and reverse resistance from the graph.
2. To set up a single stage amplifier and measure its voltage gain.
3. To set up a transistor oscillator and measurement of its frequency by using a CRO.
4. To set up and study various logic gates (AND, OR, NAND) using diode and to develop their truth table.
5. To set up an electronic switching circuit using transistor LDR and demonstrate its use as NOT gate.
6. To study the BH curve and measuring the magnetic properties.
7. To set up a half wave and full wave rectifier and demonstrate the wave shape on CRO. Also study effect of smoothing current (capacitive filter) and the ripple voltage.
8. Determination of the range of alpha particles in air.
9. To determine the e/m (charge to mass ratio) of an electron.
10. To determine the ionization potential of mercury.

Note: Students must have to perform at least 06 experiments from the list provided above or any other relevant experiment available in the laboratory. Teachers should emphasize on graphical analysis and error calculations.

Recommended Books:

1. D. Halliday, R. Resnick and K.S. Krane, *Physics* (Vol. 1 & 2), John Wiley & Sons, 5th Ed. 2010.
2. H.D. Young, *College Physics*, Sears and Zemansky's, 9th Ed. 2012.
3. R.A. Serway and J.W. Jewett, *Physics for Scientists and Engineers*, Golden Sunburst Series, 9th Ed. 2014.
4. A. Beiser, *Concepts of Modern Physics*, McGraw-Hill Publishing, 7th Ed. 2009.
5. T.L. Floyd, *Electronic Devices*, Prentice Hall, 9th Ed. 2012.

Note: The Instructor may suggest any relevant/latest books available.

PHYSICS: A STEP HIGHER

3+0 C.H.

Crystal structure, Fundamental types of lattices, Index system for crystal planes and directions, Simple crystal structures (NaCl and CsCl), Bragg's law, Ionic and covalent bonding, Diatomic molecules: Rotational, Vibrational and Electronic spectra, Development of LASER systems, Applications of LASERS, Introduction to analogue Electronics, Modeling and circuit elements, Basic network configurations, Thevenin and Norton equivalence, Maxwell-Boltzmann, Bose-Einstein, Fermi-Dirac statistical systems, Postulates of Quantum Mechanics, Eigen functions and values, Expectation value, Dirac notation, Hermitian operators, Unitary operator, Time-independent Schrodinger wave equation, Nucleus and nuclear forces, Radioactivity and half-life, G.M. counter, Nuclear reactions, Nuclear fission and fusion.

Recommended Books:

1. A. Beiser, *Concepts of Modern Physics*, McGraw-Hill Publishing, 7th Ed. 2015.
2. H.D. Young, *College Physics*, Sears and Zemansky's, 9th Ed. 2012.
3. S.K. Roy, *Thermal Physics and Statistical Mechanics*, New Age Int. Publishers, 2011.
4. Nouredine Zettili, *Quantum Mechanics: Concepts and Applications*, John Wiley & Sons, 2nd Ed. 2009.
5. M.A. Omar, *Elementary Solid State Physics: Principles and Applications*, Pearson Education, 2009.

Note: The Instructor may suggest any relevant/latest books available.

ADP Physics Curriculum Committee:

1. Prof. Dr. Altaf Hussain (Focal Person), IoP-IUB.
2. Dr. Gul Naz, IoP-IUB.
3. Dr. M. Ramzan Khawar, IoP-IUB.

Prof. Dr. Saeed A. Buzdar
(Director IoP)

ADP in Political Science

Foundation Course-II (Specialization) 4th Semester

INTRODUCTION TO LEGISLATIVE PROCESS

COURSE CONTENTS:

- Britain Parliament at work
 - a. Speaker
 - b. Chancellor
 - c. Methods of limiting debate
 - d. Procedure of Law-Making
 - e. Financial Legislation
 - f. The Committee System
- Congress at work
 - g. Speaker
 - h. Chairman
 - i. Procedure of Law – Making
 - j. Financial Legislation
 - k. Committee of the Congress
- Legislative Process in Pakistan
 - l. Speaker
 - m. Deputy Speaker
 - n. Chairman and Deputy Chairman of Senate
 - o. Procedure of Law – Making
 - p. Financial Legislation
 - q. Committee of the Congress

RECOMMENDED BOOKS:

1. Reginald Bassett, (1964). *The Essential of Parliamentary Democracy*, Fank Case & Co. Ltd., London.
2. Brent Rathgeber, (2014). *Irresponsible Govt*, Dunduran Publishers of Fine Books, Canada, ISBN 978-1-45972-837-0
3. Peter, H. Russell & Lorni Sossin, (2009). *Parliamentary Democracy in Crises*, University Toronto Press, Canada.
4. Carl Schmit, (1988). *The Crises of Parliamentary Democracy*, MIT Press, London.
5. V. Bhaskara Rao, (1987). *Parliamentary Democracy in India*, K.M. Tittal Publication Delhi.

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6. John Filed, (2012). *The Story of Parliament, in the Palace of Westminster*, Third Millennium Information, London, 2nd ed.
7. Gregory. S Mahler, (2008). *Comparative Politics*, Taj Press Delhi.
8. Chauhan, Dr. K.S. (2013). *Parliament, Power, Functions & Privileges*, Laxis Nexis, India.
9. Greg Power, (2009). *Hand Book on Parliamentary Ethics and Conduct*, Westminster Foundation for Democracy, London.

Examinations Department IUB

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ADP in Political Science

Foundation Course-III (Specialization) 4th Semester

POLITICAL PARTIES AND ELECTIONS IN PAKISTAN

1. Characteristics and functions of Political Parties: A theoretical analysis.
2. Political parties in Pakistan: Their origin and growth.
3. Pakistan's Socio Economic Environment, Political Culture and its influence on party organizations and their functioning.
4. A critical Study of major national, regional/nationalist, religious and ethnic political parties in the context of their manifestos, functional framework and over all contributions to political stability, modernization and change.
5. Military influences, party alliances, and their impact on national politics.
6. Electoral behavior and political change since 1950s.
7. Changing trends in electoral process: A critical analysis of general election in Pakistan since 1960s.
8. Problems and prospects of electoral and party politics in Pakistan.

Books Recommended:

1. Askari, H., Military and Politics in Pakistan, Lahore: Progressive Publishers, 1988.
2. Wseem, M, Elections in Pakistan, 1947-58.
3. Aziz, K.K., Party Politics in Pakistan, 1947-58.
4. Palmer, N., Elections and Political Development in South Asia: India and Pakistan Experience,
5. Afzal, Rafiq, Political Parties in Pakistan, Vol. I & II.
6. Sayeed, K.B., Politics in Pakistan: Nature and Direction of Change, Lahore: Vanguard, 1988.
7. Mahmood, Safdar, Pakistan: Political Roots and Developments.
8. Ziring, L. An Enigma of Political Development in Pakistan.

ADP in Political Science

Foundation Course-IV (Specialization) 4th Semester

DEMOCRACY AND GOOD GOVERNANCE

Until recently the link between democracy and governance was not sufficiently introduced. This course is designed to introduce students to these issues.

1. Democracy ; meaning ,kinds
2. Aspect of democracy
3. Democratic state and society
4. Good governance ; meaning Scope ,and Characteristic
5. Democracy and good governance
6. UNDR report ; review and analysis
7. Reasons of lack of good governance
8. Problems and solution of good governance

Books Recommended:

1. Sohail Mamood, The Mushraf Regime and the Governance Crises: A Case Study of the Government of Pakistan, Himtington, New York: Nova Science, 2001.
2. D-8 Conference Report on Good Governance and Institutional Regimes, Planning Commission, Islamabad: Government of Pakistan, 1999.
3. Mahbulul Haq, Good Governance in South Asia, New York, UNDP.
4. Seminar Proceedings on Good Governance in Pakistan held at the Department of Public Administration, University of Karachi, Karachi: 1999.
5. Ali Akbar., Nuclear Politics and the Challengers of Governance. Karachi Royal Book Company, 1999.
6. Cheema, G.S. and D. Rondinelli. Decentralization and Development: Policy Implementation in Developing Countries. Beverly Hills: Sage. 1984.
7. Hussain Mushahid, Akmal Hussain. Pakistan: Problem of Governance. Lahore Vanguard Books PVT. LTD. 1993.
8. Hye Hasnat Abdul (ed.), Governance: South Asia Perspective. Karachi. Oxford University Press. 2000.
9. Public Sector Managing, Governance and sustainable Human Development, New York. UNDP. 1996.
10. Pascal, R. Managing on the Edge. New York: Simon and Schuster. 1990.
11. Siddiqui Tasneem Ahmed. Towards Good Governance. Oxford University Press 2001.
12. SIDA. Poverty, Environment and Development: Proposals for Action. Stockholm: SIDA 1991.
13. UNDP. Cities, People and Poverty: Urban Development Cooperation for the 1990s. New York: United Nations. (1991).
14. UNDP. The Urban Environment in Developing Countries. New York: United Nations. (1993).
15. UNDP. Human Development Report. New York: Oxford University Press. (1993a).
16. UNDP. UNDP: A Charter for Change (Parts I & II). New York: UNDP. (1993H).
17. UNDTCD. Measures to Ensures to Enhance the Capacity of Management Improvement Agencies in Developing Countries. New York: United Nations. 1992.
18. World Bank. Assistance Strategies to Reduce Poverty. Washington, DC. (1999la).
19. World Bank. Governance and Development. Washington. DC. (1992a).

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ADP in Political Science

Foundation Course-V (Specialization) 4th Semester

State, Society, and Civic Engagement

Course Description This course is designed as a mandatory course for BS level students of the University. The purpose of this course is to educate students to make them good citizens. This course will help them to understand the concepts of state, government, constitution, democracy, good governance, rights and duties of citizens. After studying this course they should be able to understand the importance of human rights and good citizens for contemporary societies. The contents of this course will help to educate the young generation about important ethics and etiquettes of a civilised society. This will also be useful to prepare the educated youth to better understand Pakistan's significant socio-economic issues and important global challenges faced by the modern world.

Learning Outcomes This course intends to: 1. Create awareness about responsibilities and duties of citizenship 2. Create understanding about issues and challenges in Pakistani society 3. Familiarize students with constitution and political system of Pakistan 4. Develop understanding of students about issues, trends, and challenges 5. Create awareness for respect and promotion of good governance, human rights, and Sustainable Development Goals (SDGs)

Course Contents

- 1. State and Government:** Definition, types/forms, elements, difference between State and Government, Overview of Branches of Government in Pakistan: Parliament, Executive, Judiciary.
- 2. Constitution:** Concept and definition, Constitution of Pakistan 1973 (Salient Features).
- 3. Democracy and Good Governance:** Concept, definition, kinds of democracy, concept and elements of good governance, benefits of democracy and good governance for a society.
- 4. Human Rights:** Concept, definition, provision of fundamental rights in Constitution of Pakistan, important human rights issues in Pakistan: gender equality, rights of minorities, sectarian violence, why should we care about human rights?
- 5. Citizenship:** Concept, duties and responsibilities of a good citizen, citizenship in federal societies, community engagement, why do societies need good citizens?
- 6. Ethics and Etiquettes of Pakistani Society:** Ideology, Patriotism, Sense of Honour (*izzat*), Respect and Dignity, Adaptability, Collectivism, Generosity and Hospitality. General Etiquettes (visiting or contacting others, eating, using the road and traffic sense, managing personal trash, and respecting the rights of others).
- 7. Socio-Economic Trends and Issues of Pakistan:** Poverty, corruption, malnutrition, intolerance and extremism, environmental degradation and pollution, issues related with health and hygiene.
- 8. Global Issues** Climate Change, depletion of natural resources, and pollution, security and wellbeing, poverty and unemployment, and Spread of Pandemics.

Recommended Books

Ali, Ghulam, and Ejaz Hussain. 2020. *Perspectives on Contemporary Pakistan: Governance, Development and Environment*. Taylor & Francis Group.

Bellamy, Richard. 2008. *Citizenship: A Very Short Introduction*. Karachi: Oxford University

Press.

Blackburn, Simon. 2003. *Ethics: A Very Short Introduction*. Karachi: Oxford University Press.

Clapham, Andrew. 2015. *Human Rights: A Very Short Introduction*. Second Edi. Karachi: Oxford

University Press.

Galaz, Victor, ed. 2019. *Global Challenges, Governance, and Complexity: Applications and Frontiers*. Nothampton: Edward Elgar Publishing.

Khan, Hamid. 2009. *Constitutional and Political History of Pakistan*. Karachi: Oxford University

Press.

Mahmood, Sohail. 2007. *Good Governance Reform Agenda in Pakistan: Current Challenges*.

New York: Nova Science Publishers, Inc.

Malik, Iftikhar H. 1997. *State and Civil Society in Pakistan: Politics of Authority, Ideology and Ethnicity*. Palgrave Macmillan UK.

Nadeem, AZhar Hassan. 2020. *Pakistan: The Politics of the Misgoverned*. Taylor & Francis Group.

Rais, Rasul Bakhsh, ed. 1997. *State, Society, and Democratic Change in Pakistan*. Karachi: Oxford University Press.

Schaflechner, Jürgen, Christina Oesterheld, and Asif Ayesha, eds. 2020. *Pakistan: Alternative Imag(in)ings of the Nation State*. Karachi: Oxford University Press.

Talbot, Ian. 2014. *Pakistan: A New History*. Karachi: Oxford University Press.

Weiss, Anita M. 2020. *Countering Violent Extremism in Pakistan: Local Actions, Local Voices*. Karachi: Oxford University Press.

ADP in Political Science

Foundation Course-VI
(Specialization) 4th Semester

Political System (Developed USA & UK)

Examinations Department IUB

W. F. H.

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ADP in Psychology
Foundation Course-II
(Specialization) 4th Semester

Cognitive Psychology

Course Objectives

1. This course provides an understanding of the mental processes involved in cognition, perception, attention, memory, thinking, language and reasoning processes.
2. The core focus will be on how information is received, perceived, filtered, stored, retrieved and conveyed and it will provide an understanding of the mental processes through which information is acquired, processed and conveyed.
3. Let students think critically about the internal processes involved in human cognition.
4. To articulate the basic principles major theories and research concerning higher mental processes.
5. To let students practically accomplish the task that are related to cognitive Psychology

Course Contents

Introduction

Nature and Scope of Cognitive Psychology

Historical Perspective

Neural Basis of Cognition

Neural representation of information

Organization of the brain and neural localization of function

Information coding in visual cells

Perception and Attention

Sensory memory: Iconic memory & echoic memory

Pattern recognition: Template matching and Feature Analysis

Speech recognition and Voice onset time

Perceptual Laws of Organization

Object Perception

Spatial vs. linear representation

Depth Perception

Color Perception

Perception of Movement

Knowledge Representation

Perception based knowledge

Meaning based knowledge

Memory

Implicit and Explicit memory

Retention in episodic memory

Working memory and long term memory

Interference: Fan effect

Recall vs. recognition

Thinking and Problem solving

Mean –end Analysis

Problem Solving by Analogy

Heuristic and algorithms

Reasoning

Deductive and inductive reasoning

Conditional reasoning

Syllogism

Language

Language comprehension: Parsing, Semantic considerations and Utilization.

Language and thought

Child language Acquisition

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Psycholinguistics
Linguistic Determinism
Transformational Grammar

Utility of Theoretical Knowledge

Following experiments shall be performed by the students.

1. Fluctuation in attention
2. Memory: Method of serial reproduction
3. Retroactive and proactive inhibition
4. Memory: Function of time (savings method)
5. Negative Afterimage
6. Stroop Effect
7. Maze Learning
8. Muller Lyer Illusion

Recommended Books

- Bermudez, J. L., (2020). *Cognitive science: An introduction to the science of mind*. (3rd ed.) USA: Cambridge university press.
- Goldstein, E. B. (2018). *Cognitive psychology: connecting mind research and everyday experience*. (5th ed). Boston: Cengage.
- Groomme, D., et al. (2016). *An introduction to applied cognitive psychology*. (2nd ed.). New York: Routledge.
- McBride, D. M., & Cutting, J. Cooper. (2018). *Cognitive psychology: theory practice and methodology*. (2nd ed). Boston: Sage.
- Sternberg, R. J., & Sternberg. K. (2016). *Cognitive psychology*. (7th ed.) Australia: Cengage.

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ADP in Psychology
Foundation Course-III
(Specialization) 4th Semester

Social Psychology

Course Objectives

1. To understand reflect and critically evaluate basic concepts of social psychology.
2. To help you better understand things such as how best to study for tests, how to read affectively, and how to remember difficult to learn material.
3. The course will develop an insight in students about how people think, perceive and relate to others.
4. This will help in developing an understanding of the concepts related to self and how self-functions in social world.
5. This will also enable students to think critically about social processes, influences, relations and attitudes.
6. The course emphasizes on the understanding of application of Social Psychology concepts in the real life settings.

Course Contents

Nature and Scope of Social Psychology

What is social psychology?

Social psychology and allied disciplines

Brief history of social psychology

Current trends in social psychology

Self in a Social World

Concept of self in social psychology

Components of self: Why they are essential and its relationship to other personality constructs and processes

Self-esteem, Self-presentation, Self-awareness, Self-efficacy, Self-conscious emotions, guilt, shame and embarrassment

Social Perception

Social cognition; person schemas, roles and scripts

Impression formation; Stereotypes

Attribution; Bias in attribution, Research in attribution

Altruism and Aggression

Altruism: The motivation to help

Factors, rewards and costs of helping

Aggression: The motivation to harm

Frustration and aggression: Other views

Threatened self-esteem and aggression

Controlling and socializing for non-aggressive ways of conflict resolution

Behavior and Attitudes

Attitude formation

Prejudice, stereotypes and discrimination

Attitude change

Cognitive dissonance

Persuasive communication

Measurement of attitudes

Friendship, Liking and Attraction

Social Basis of Friendship, liking and attraction

Social Influence and Group Behavior

Nature of groups, group polarization

De-individuation, group cohesiveness, productivity and decision making,

Conformity, obedience and deviance, cultural and social norms

Leadership: Effective leadership

Theories of leadership

File #

Social Psychology in Action

Social psychology entering: Health Psychology, Environmental Psychology, Legal Affairs
Organizational Psychology, Peace and conflict

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ADP in Psychology
Foundation Course-IV
(Specialization) 4th Semester

Developmental Psychology

Course Objectives

1. The course will provide students insight about the major developmental mile stones and stages of development.
2. This course will enable students to think critically about the developmental issues such as parenting styles, identity crisis, family& culture.
3. It would also help develop an understanding of Developmental theories and their application in the Pakistani cultural context.

Course Contents

Introduction

Nature and scope of developmental psychology
Historical perspective of developmental psychology
Research methods for studying developmental changes
Ethical issues in research on developmental psychology

Theories of Development

Freud's psychoanalytic theory
Erik Erikson's psychosocial stages of development
Piaget's theory of cognitive development
Vygotsky's socio cognitive cultural theory
Kohlberg's theory of moral development

Prenatal Development

Prenatal development phases
Genetic influences in development
Prenatal environmental influences

Infancy

Physical development
Cognitive development in infancy with reference to Piaget's theory
Language development in infancy
Socio emotional development in infancy

Childhood

Physical development
Emotional development
Cognitive development in childhood with reference to Piaget's theory
Personality development (role of familial and extra familial influences)

Adolescence

Physical development
Emotional development
Identity formation in adolescence
Cognitive development in adolescence with reference to Piaget's theory
Social development
Problems and disturbances in adolescence

Early Adulthood

Physical development
Occupational adjustments
Family adjustments

Middle Adulthood

Physical changes
Social adjustments
Occupational adjustments
Family adjustments

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Gerontology

Physical changes

Challenges faced by the elderly

The elderly and death

Utility of Theoretical Knowledge

The students will be expected to deliver a seminar on any developmental theory.

Recommended Books

Slater, A., & Bremner, J. G. (2017). *An introduction to developmental psychology*. John Wiley & Sons.

Berk, L. E. (2017). *Exploring Life Span Development* Pearson.

Suggested Books

Kathleen S. Berger. (4th Ed.). (2018). *Invitation to the Span*. Worth Publishers.

Carol. A Sigleman., & Elizabeth, A. Rider. (9th Ed.). (2017). *Life Span Human Development*. Cengage Learning.

John W. (17th Ed.). (2018). *Life Span Development*. McGraw-Hill Education.

Laura E. Berk. (4th Ed.). (2017). *Exploring Life Span Development*. Pearson

Barbara M.N., & Philip R.N. (13th Ed.). (2017). *Development through life*. Cengage Learning.

Patricia H.M. (2016). *Theories of Developmental Psychology*. Worth Publishers

Peter.M., & Fenja Ziegler. (2nd Ed.). (2017). *Fundamentals of developmental psychology*. Psychology Press.

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ADP in Psychology
Foundation Course-V
(Specialization) 4th Semester

Personality Psychology

Course Objectives:

- To understand reflect and critically evaluate basic concepts of personality psychology.
- To help you better understand things such as how best to study for tests, how to read affectively, and how to remember difficulty to learn material.
- To help students in understanding personality theories and knowledge of personality assessment.

Course Contents

Introduction to Personality Theory: Brief History of Personality Psychology.

Measuring and Assessing the Personality

Psychoanalysis: Freud.

Neo Analytic and Ego Aspects of Personality,

Biological Aspects of personality

The behaviorist perspective

Cognitive and Social-Cognitive Aspects of Personality

Trait Aspects of Personality

Humanistic, Existential, and Positive Aspects of Personality

Person–Situation Interactionist Aspects of Personality

Male–Female Differences in the Personality

Influence of Personality on Stress, Adjustment, and Health Differences

Personality Influences among Culture, Religion, and Ethnicity, Love and Hate

Personality Testing

Objective Personality Testing

Minnesota Multiphase Personality Inventory (MMPI)

Sixteen Personality Factors Questionnaire (16PF)

The Big Five Personality Traits

Eysenck Personality Questionnaire

Rotter's Incomplete Sentence Blank

Projective Techniques

Thematic Apperception Test (TAT)

Rorschach Inkblot Test

House Tree Person (HTP)

Sentence Completion Tests

Utility of Theoretical Knowledge

Recommended Text book:

- Friedman, H.S., & Schustack, M. W. (2016). Personality: Classic theories and modern research
- Burger, J. M. (2019) (10th ed.). Personality . Boston, MA: Cengage Learning.
- Carver, C. S., & Scheier, M. F. (2017). Perspectives on Personality (8th ed.). New York: Pearson Education.
- Cervone, D., & Pervin, L. A. (2016). Personality: Theory and Research (13th ed.). Hoboken, NJ: John Wiley & Sons.

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ADP in Psychology
Foundation Course-VI
(Specialization) 4th Semester

Vocational Guidance/Career Counseling

ADPA-01406 Vocational Guidance/Career Counseling

Objectives:

- ✓ To enable students to provide career counseling to general masses
- ✓ To enable students to work as career counselors so that they may help people choose the right field

Introduction to guidance, basic theories, Characteristics and scope of guidance

Various aspects of guidance setup, working patterns.

Psychological guidance and counseling for students, academic counseling, career counseling, latest trends in vocational guidance and counseling

NB: Each student will conduct at least **five (5)** sessions with individuals having some problem with selection of field/career individually and will present a report.

Books Recommended:

Bayne, R; Horton, I; Merry, T; Noyes, E; & McMalon, G. (1999). *The counselor's handbook: A practical A - Z guide to professional and clinical practice*. Cheltenham: Stanley Thornes.

Egan, G. (2001). *The skilled helper: A problem management and opportunity development approach to helping* (7th ed.). Pacific Grove, CA: Brooks/Cole.

Ellis, A., & Dryden, W. (1997). *The practice of rational emotive behavior therapy*. London: Free Association Books.

Gysberr, Norman C; Heppner, Mary J; & Johnson, Joseph A. (2002). *Career counseling: Processes, issues and techniques*. Allyn and Bacon.

Herr, Edwin L; Cramer, Stanley H; & Niles, spencer G. (2003). *Career guidance and counseling through the lifespan: Systematic Approach* (6th ed.). Allyn and Bacon.

Koshy, John S. (2004). *Guidance and Counseling*. New Delhi: Dominant Publications and Distributors.

Lowman, Rodney L. (1991). *The clinical practice of career assessment: Abilities, interests and personality*. APA.

Nelson-Jones, Richard (2001). *Theory and practice of counseling and therapy* (3rd ed.). London: Continuum.

Nelson-Jones, Richard (2003). *Basic counseling skills: A helper's manual*. Sage.

W. P. K. S.

Peterson, Nadene (1999). *The role of work in people;s lives: Applying career counseling and vocational psychgolgy*. Wadsworth.

Savickas, Mark L; & Walsh, W. Bruce (1996). *Handbook of career counseling: theory and practice*. Davies-Black Publishers.

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Examinations Department

W. Walsh

ADP in Siraiki

Foundation Course-II (Specialization) 4th Semester

کریڈٹ آورز: 3

کورس کوڈ: SIR-01401

چوتھا سمسٹر: سرائیکی زبان ٹور تے پندھ

کل نمبر 100

• زبان کیا ہے؟ زبان تے بولید افرق

- سرائیکی زبان دے مختلف ناں اتے وجہ تسمیہ
- سرائیکی زبان دے ارتقاچ مسلم علماء اتے صوفیاء دا کردار
- سرائیکی زبان دے منڈھ بارے مختلف نظریات
- سرائیکی دا ڈوجھیاں پاکستانی زبانیں نال گانڈھا

مجوزہ کتب:

۱. زبان کیا ہے؟
پروفیسر خلیل صدیقی
۲. ملتانیز بان کیا ہے؟
سید علی شاہ ملتانی
۳. پنجاب مینار دو
حافظ محمود شیرانی
۴. سرائیکی اور اسکیمسایہ علاقائیز بانیں
ڈاکٹر مہر عبدالحق
۵. ملتانیز بان اور اسکا اردو سے تعلق
ڈاکٹر مہر عبدالحق
۶. سرائیکی زبان دیا نامزد لسانی تحقیق
ڈاکٹر مہر عبدالحق
۷. لسانی مضامین
محمد اسلمر سولپوری
۸. سرائیکی مطالعے دے سو سال
ڈاکٹر کرستوفر شیکل / دلشاد کلانچوی
۹. دیس سرائیکی لینگویج آف سنٹر لیاکستان: اے ریفرنس گرامر
ڈاکٹر کرستوفر شیکل

ADP in Siraiki

Foundation Course-III (Specialization) 4th Semester

کریڈٹ آورز: ۳ کل نمبر 100

SIR-01402 کورس کوڈ:

چوتھا سمسٹر: سرائیکی زبان: قواعد و
املا

قواعد:

سرائیکی حروف ہجا، صحیح آوازاں، صحیح ہجے، شمسی و قمری حروف

● **لفظندی ساخت اتے ورتارا :**

لفظیں دی ترکیبی ساخت، مرکباتِ ناقصہ (سابقی، لاحقی، اضافی، توصیفی، عددی، عطفی، امتزاجی، ظرفی، اشاری، جاری، حالی، تاکیدی، تمیزی، تابع موضوع، تابع مہمل)، مرکباتِ تام بلحاظ ساخت (سادہ جملہ، مرکب جملہ)، بلحاظ معنی (خبریہ، انشائیہ)، بلحاظ نوعیت (جملہ اسمیہ، جملہ فعلیہ)، فعل و فاعل، فعل و مفعول اتے فعل و مبتدا دی مطابقت، امالہ۔

● **حرفیں دا ورتارا :**

حروفِ ربط، حروفِ عطف، حروفِ اختصاص، حروفِ فجائیہ، حروفِ استفہامیہ۔

● **املا:**

سرائیکی رسم الخط دا تعارف اتے علامتیں دا نظام، حروفِ علت دیاں علامتاں، مد دی علامت، تشدید دی علامت، ہمزہ دا استعمال، ”ھ“ دا استعمال، ”ھ“ اتے ”ہ“ دا فرق، غنہ دا ورتارا، الف بالکسرہ دا ورتارا سرائیکی دا موزوں ترین رسم الخط

● **دخیل الفاظ:**

عربی، فارسی اتے انگریزی زبانیں دے دخیل لفظ اتے انہاندا تلفظ اتے املا

● **مجوزہ کتب:**

۱. ملتانی زبان کیا ہے؟ سید علی شاہ ملتانی
۲. سرائیکی جامع قواعدمان اللہ داظم
۳. لسانی مضامین محمد اسلم رسول پوری
۴. سرائیکی قواعد تے زبان دانیبشیر احمد بھایا
۵. سرائیکی زبان دیاں مزید لسانی تحقیقات ڈاکٹر مہر عبدالحق
۶. سرائیکی زبان دے قاعدے تے قانون ڈاکٹر مہر عبدالحق
۷. سرائیکی لینگویج آف سنٹرل پاکستان: اے ریفرنس گرامر ڈاکٹر کرسٹوفر شیکل

ADP in Siraiki
Foundation Course-V
(Specialization) 4th Semester

کریڈٹ آورز: ۳ کل نمبر 100

SIR-01404 کورس کوڈ:

چوتھاسمسٹر: نثری اصنافِ ادب

- نثری اصنافِ دی شعریات
- نثری اصنافِ دے مزاج اتے اسالیب دا مختصر تعارف
- نثری اصنافِ دا تعارف
- افسانوی نثر:
- داستان، ناول، افسانہ، ڈراما
- غیر افسانوی نثر:
- خاکہ نگاری، سفرنامہ، رپورٹاژ، انشائیہ، مضمون، کالم، مکتوب

مجوزہ کتب:

- | | |
|-------------------------------------|-------------------------------|
| ڈاکٹر خلیق انجم | ۱۔ اصنافِ ادب اردو |
| ڈاکٹر علی محمد خان، ڈاکٹر اشفاق ورک | ۲۔ اصنافِ نظم و نثر |
| ڈاکٹر رفیع الدین ہاشمی | ۳۔ اصنافِ ادب |
| شمیم احمد | ۴۔ ادبی اصناف اور شعری ہئیتیں |
| افتخار شفیق | ۵۔ اصنافِ نثر |
| یحییٰ امجد | ۶۔ فن اور فیصلے |
| ڈاکٹر اسلم عزیز درانی | ۷۔ سرائیکی ناول نگاری |

ADP in Siraiki
Foundation Course-VI
(Specialization) 4th Semester

کریڈٹ آورز: ۳ کل نمبر 100

SIR-01405 کورس کوڈ:

چوتھاسمسٹر: سرائیکی لسانیات

- لسانیات کیا ہے؟
- لسانیات دیاں اہم شاخاں اتے شعبے
- ۱۔ صوتیات
- ۲۔ صرفیات
- ۳۔ نحویات
- ۴۔ معنیات
- علم لسان دی تاریخ، جدید لسانیات دا آغاز
- زبانیں دے مختلف خاندان: تعارفی مطالعہ
- ہند آریائی خاندان دینیں زبانیں دا تاریخ وار تسلسل اتے سرائیکی زبان دے آغاز دے نظریات
- سرائیکی لغت نویسی (ای او برائن، اے جیوکس، ظامی بہالپوری، دلشاد کلانچوی)
- سرائیکی گرامر نویسی (یو اے سمرنوف، سی شیکل، مہر عبدالحق)

مجوزہ کتب:

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|---|---------------------------------------|
| ۱۔ لسانیات کیا ہے؟ | ڈیوڈ کرسٹل (ترجمہ: نصیر احمد خان) |
| ۲۔ توضیحی لسانیات | ایچ اے گلیسن (ترجمہ: عتیق احمد صدیقی) |
| ۳۔ لسانیات پاکستان | ڈاکٹر میمن عبدالمجید سندھی |
| ۴۔ لغات سرائیکی | بشیر احمد ظامی |
| ۵۔ لغات دلشادیہ | دلشاد کلانچوی |
| ۶۔ لہندی لینگویج | یو۔ اے۔ سمرنوف |
| ۷۔ اے گلاسری آف ملتانی لینگویج | ای۔ او۔ برائن |
| ۸۔ دی سرائیکی لینگویج آف سنٹرل پاکستان: اے ریفرنس گرامر ڈاکٹر سی شیکل | |

ADP in Social Work

Foundation Course-II (Specialization) 4th Semester

Social Welfare in Pakistan

OBJECTIVES:

The course will enable the students to understand the concept of Social Welfare in Islam and its evolution at national level. The course will help the students to understand the modern concept of Social Welfare, Social Work and Welfare Policies in Pakistan.

CONTENTS:

Midterm:

1. Definition and Related Concepts
 - a. Functional definition
 - b. Descriptive definition
2. Relationship between social welfare and social work
3. Historical development of social welfare in Pakistan

4. Political system in Islam
5. Social work education in Pakistan

Final Term:

6. Concept of social welfare in Islam
 - a. Widows
 - b. Orphans
 - c. Sick
 - d. Minorities
 - e. Elderly
7. National Social welfare plans in Pakistan
 - a. Five year Plans
 - b. Contemporary social protection nets in Pakistan
8. Community development in Pakistan
9. Social welfare institutions
10. Seminar on
 - a. Structure and functions of social welfare ministry/departments in Pakistan
 - b. Socio-economic system of Islam
 - c. The role of Zakat Department and Pakistan Baitulmal in poverty alleviation

RECOMMENDED BOOKS:

1. Banks, S. (2001). *Ethics and Values in Social Work*. New York: Palgrave.
2. Compton, B. R. & Gala, B. (1984). *Social Work Process*. Chicago: Dorsey Press.
3. Fink, A. (1963). *Field of Social Work*. New York: Holt, Rinehart and Winston.
4. Friedlander, W.A. (1957). *Concepts and Methods of Social Welfare*. New York: Practice Hall.
5. Government of Pakistan, (2003). *The Five Year Plan, MTD (Medium Term Development Framework 2001-2011)*. Islamabad: Planning Commission of Pakistan.
6. Khalid, M. (2014). *Social Work Theory and Practice with special reference to Pakistan*. Karachi: Kifayat Academy.

ADP in Social Work

**Foundation Course-III
(Specialization) 4th Semester**

Social Problems in Pakistan

OBJECTIVES:

To help students understand the concept of social problems prevailing in Pakistani society, their causes and effects, and possible ways leading to solution of these problems.

CONTENTS:

Midterm:

1. Definition and nature of social problem
2. Importance of study of social problems
3. Definition of social evil

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4. Difference between social problem & social evil
5. Impacts of social problems on development

Final Term:

6. Role of Social worker in the solutions of social problems
7. Social problems
 - a. Crime.
 - b. Over Population
 - c. Juvenile Delinquency
 - d. Illiteracy
 - e. Poverty
 - f. Social Inequality
 - g. Beggary
 - h. Unemployment and under employment,
 - i. Child Labour.
 - j. Drug Addiction
 - k. Labour Problems
 - l. Gender based Violence
 - m. Corruption
 - n. Terrorism
 - o. Urbanization

RECOMMENDED BOOKS:

1. Khalid, Muhammad. (2014). *Social Work: Theory and Practice*. Karachi: Kafayat Academy.
2. Lauer, R. H. (2013). *Social Problems and the Quality of life*. Iowa: Wm.C.Brown Publishers.
3. Michel, O. & Bob S. (2012). *Social Work with Disable People*. UK: Macmillan.
4. Rehmatullah, S. (2003). *Social Welfare in Pakistan*. Karachi: Oxford University Press.
5. Safdar, S. (2007). *Social Work: Theory and its Implication*. University of Peshawar.
6. Anwar, A. (2006). *Applied Sociology (Social Problems and Research)*. Department of Sociology, University of Peshawar: Saif Printing Press.

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ADP in Social Work
Foundation Course-IV
(Specialization) 4th Semester

Course Title: SOCIAL WORK FIELDS	
Course Code:	Credit Hours: 3

OBJECTIVES:

This course will enable students to know about professional and volunteer approaches of social work. It also gives knowledge about various fields of practice where professional social workers render services for individuals, groups and communities.

CONTENTS:

Midterm:

1. Professional and volunteer approaches of social work
2. Social work with individuals
3. Social work with groups and families
4. Social work with communities
5. Medical social work
6. School social work
7. Social work for senior citizens
8. Social work for children within care centers
9. Social work with disables
10. Correctional services

Final Term:

11. Human rights and social work
12. Social work for population welfare
13. Social work with rural people
14. Women welfare services
15. Military social work
16. Industrial social work
17. Psychiatric social work
18. Social work and youth
19. Social work with drug addicts
20. Social protection as field of social work
21. Social work for poverty reduction
22. Social work for employment opportunities
23. Fields of social work in Pakistan

RECOMMENDED BOOKS:

1. Dulmus, C. N., & Sowers, K. M. (2012). *Social Work Fields of Practice: Historical Trends, Professional Issues, and Future Opportunities*: Wiley.
2. Goodman, A. (2013). *Social Work with Drug, Alcohol and Substance Misusers*: SAGE Publications.
3. Greene, R. R. (2011). *Social Work with the Aged and Their Families*: Aldine Transaction.
4. Jarolmen, J. A., & Tuzeo-Jarolmen, J. A. (2013). *School Social Work*. Thousand Oaks: SAGE Publications.
5. Khalid, M. (2006). *Social Work Theory and Practice*. Karachi, Pakistan: Kifayat Academy.
6. Michael Oliver, B. S. P. T. (2012). *Social Work with Disabled People*: Macmillan Education UK.

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ADP in Social Work

**Foundation Course-V
(Specialization) 4th Semester**

Course Title: FIELD PRACTICE	
Course Code:	Credit Hours: 3

OBJECTIVES:

This course will enable students to know about field purposes and practice in different fields which are being provided by social welfare institutions. Students will carry out some welfare activities.

CONTENTS:

Midterm:

1. Meaning and purpose of social work field work
2. Field work in Pakistan
3. Social welfare institutions in Pakistan
4. Report writing
5. Case history
6. Field Visits
 - a. Visits of Hospitals
 - b. Visits of rural communities
 - c. Visits of urban communities

Final Term:

5. Visits of NGOs
6. Visits of orphanages in Bahawalpur
7. Visits of Sanatzar and Nasheman in Bahawalpur
8. Visits of Social Work Department at IUB
9. Field Practices
 - a. Health camp at institute or in community
 - b. Fundraising for needy students
 - c. Cleanliness campaign
 - d. Book collection for needy students
 - e. Celebration of National and International Days

RECOMMENDED BOOKS:

1. Dash, B. M., & Roy, S. (2019). *Fieldwork Training in Social Work*: Taylor & Francis.
2. Doel, M., Shardlow, S. M., & Johnson, P. G. (2010). *Contemporary Field Social Work: Integrating Field and Classroom Experience*: SAGE Publications.
3. Gondal, I. A. (2012). Role of Ngo's in Pakistan: An Overview. *Al-Adwa*, 38(27).
4. Khalid, M. (2006). *Social Work Theory and Practice*. Karachi, Pakistan: Kifayat Academy.
5. Klein, K. (2011). *Fundraising for Social Change*: Wiley.
6. Rehmatullah, S. (2002). *Social welfare in Pakistan*. USA: Oxford University Press.

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ADP in Social Work

Foundation Course-VI
(Specialization) 4th Semester

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ADP in Sociology

Foundation Course-II (Specialization) 4th Semester(20-22)

Course Title: SOCIOLOGY OF DEVELOPMENT	
Course Code SOC-01402	Credit Hours:03

Objective:

Concepts and terms related to the issues of development shall be learnt. The students will learn about relevant theories about change and progress. Models of development related to local, regional, and global levels will be examined. Comparisons will be drawn among political, social, and economic factors of development in a variety of perspectives.

Course Outline

- **Introduction**
 - Change, development, and progress
 - Development and underdevelopment
- **Theories of development**
 - The Modernization School
 - Marxist and Socialist Models
 - Development and Underdevelopment-Dependency
 - Structural Adjustment
- **Determinants of Development**
 - Social determinants
 - Cultural
 - Economic
- **Technology and Development**
 - Technology
 - Adoption of technology
 - Role of technology in development
- **Social Change and Development in Global Perspective**
 - The Politics of Development: Economy, Policy, Culture
 - Corporations, Classes and Consumerism
 - Gender and Development
 - Transitional Practices in the Third World
- **The Role of Aid in Development**
 - The Role of Non-government Organizations in Development

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- Development in Pakistan: A Case Study

BOOKS RECOMMENDED: -

1. Bramson, L. (2015). *The political context of sociology*. Princeton University Press.
2. Mawere, M. (Ed.). (2018). *Development Naivety and Emergent Insecurities in a Monopolised World: The Politics and Sociology of Development in Contempora*. Langaa RPCIG.
3. Whitty, G. (2017). *Sociology and school knowledge: Curriculum theory, research and politics*. Routledge.
4. NIGHTLIFE, U. SOCIOLOGY BOOKS from RUTGERS UN.

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ADP in Sociology

Foundation Course-III
(Specialization) 4th Semester(20-22)

Course Title: sociology of Law and Human Rights	
Course Code SOC-01404	Credit Hours:03

- **Basic Concepts**
 - Civil Rights, Democratic Rights and Human Rights.
 - Perspectives on Rights: Liberal, Marxist and Neo-Marxist.
 - State, Constitution and Rights in Pakistan: Class, Caste, Tribe and Gender Growth of new rights e.g. Environment
 - Rights movement in Post in the post independent period
 - Rights and Globalisation, Role of United Nations and Anti-Globalisation Movements.
- **Conceptualising 'state sovereignty'**
 - Creation of states
 - Statehood and state sovereignty
- **The nature of international law**
 - Municipal law versus international law
 - Making and enforcing international law
 - IR actors as subjects of international law
 - Theory and themes
- **Human rights in international law**
 - Important human rights treaties and obligations of state parties -UDHR, ICCPR, ICESCR etc
 - Human rights as part of international customary law
 - Enforcing human rights
 - Preventive action / Humanitarian interventions (Past successes – Mozambique, failures – Rwanda, Somalia)
 - International courts and tribunals
 - Prosecutable offences under international law
 - ICTY and ICTR
 - ICC
 - National mechanisms and transitional justice
 - TRC in South Africa
 - Gacaca trials in Rwanda
 - Soft law as an alternative

BOOKS RECOMMENDED: -

1. Forsythe, D.P.: *Human Rights in International Relations* (second edition), CUP, 2006

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2. Henry, S. (2015). *Private justice: towards integrated theorising in the sociology of law*. Routledge.
 3. Turner, B. S. (2021). *Vulnerability and human rights*. Penn State University Press.
- Vanfraechem, I., Fernández, D. B., & Aertsen, I. (Eds.). (2015). *Victims and restorative justice*. Routledge.

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ADP in Sociology

Foundation Course-IV
(Specialization) 3rd Semester(20-22)

Course Title: Rural development	
Course Code SOC-01405	Credit Hours:03

- **What is Rurality/Rural?**

Who cares about rural issues? Why is rural development important? This session examines a variety of definitions of “rural” and explores how rural issues have been treated in social theory.

- **Social Change and Development.**

There is probably no more controversial concept today than “development.” We discuss some of the different approaches to defining development and theories of social change and development and apply them to rural areas.

- **Small Towns in Mass Society.**

How has the concept of community changed in recent years? Does it make sense to talk about community in the context of globalization and mass culture? What are some of the major trends influencing rural communities?

- **“Getting-By” in Rural Pakistan.**

How do people make a living in rural Pakistan? How is rural poverty different in rural areas than in the central city? What are some strategies for addressing these issues in persistently poor areas?

Natural Amenities: Multifunctional Resources in Rural Areas.

What are amenities? What is the relationship between natural amenities and rural development? Can rural communities promote growth and development while preserving the amenities that are so valuable?

- **Land Use.**

What are the major causes and consequences of sprawl? Can communities preserve farm land? What are some of the unintended consequences of growth management policies?

- **The Structure of Agriculture.**

What factors have led to the declining number of farms? Can the family farm be saved? What strategies are being used to help small farms survive today?

- **Agribusiness.**

What is agribusiness? What are the consequences of the highly centralized agribusiness system?

- **Sustainable Agriculture.**

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What are the alternatives to the conventional agricultural system? What are the environmental and social consequences of these alternatives? What types of policies would enhance their viability?

- **Immigration and Farmworkers.**

What is the historical background of seasonal farm work in the Pakistan? What are the different migratory streams? What are the working conditions of farm workers?

- **World Hunger.**

What are the causes of world hunger? What are the trends in hunger in various regions of the world? What types of policies and changes are needed to address these problems?

- **Population Growth and Migration.**

What are the trends in population growth in developing countries? What factors explain the rapid growth in population in development countries? Does rural to urban migration help or hurt the situation? What effects do international migration patterns have on these processes?

- **The World Trade Organization (WTO).**

How does liberalization of trade affect the rural poor in the developing countries?

- **Food Versus Fuel.**

The recent rise in food prices has created food riots in many developing countries and raised concerns about the effects of the bioeconomy. What are the tradeoffs to be made between food and fuel? What are the main forces driving these changes?

- **International Development.**

The role of NGOs in rural development has become a critical issue in many regions. What impact do NGOs have and how can they avoid being co-opted by governments?

BOOKS RECOMMENDED: -

1. Neumeier, S. (2017). Social innovation in rural development: identifying the key factors of success. *The geographical journal*, 183(1), 34-46.
2. Koopmans, M. E., Rogge, E., Mettepenningen, E., Knickel, K., & Šūmane, S. (2018). The role of multi-actor governance in aligning farm modernization and sustainable rural development. *Journal of rural studies*, 59, 252-262.
3. Fanzo, J. (2018). The role of farming and rural development as central to our diets. *Physiology & behavior*, 193, 291-297.
4. Vicol, M., Neilson, J., Hartatri, D. F. S., & Cooper, P. (2018). Upgrading for whom? Relationship coffee, value chain interventions and rural development in Indonesia. *World Development*, 110, 26-37.

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ADP in Sociology

Foundation Course-IV
(Specialization) 3rd Semester(20-22)

Course Title: Pakistani society and culture	
Course Code SOC-01403	Credit Hours:03

Objective

The course aims to make students learn about the nature and structure of Pakistani society. It aims to impart knowledge about national culture and sub-cultures of Pakistan. The course will develop understanding about the integrated function of various social institutions in the country. The aim of this course to understand the concept of society, characteristics of Pakistani society, social stratification, class and ethnicity, and different historical perspective of Pakistani culture and social institution of society.

Course Outline

• Introduction

- Definition of Society
- Characteristics of Pakistani Society
- Social Stratification, Cast, Class & Ethnicity
- Social Institutions in Pakistan
 - Family
 - Religion
 - Economy
 - Politics
 - Education
 - Recreational

• Educational Dynamics

- Illiteracy
- Literacy
- Universal Primary Education Concept
- Schools; Technical & Higher Education
- Status of Formal and Informal Education

• Historical Perspective of Pakistani Culture

- Provincial Culture
 - Culture of Punjab
 - Culture of Sindh
 - Culture of NWFP

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- Culture of Balochistan
- Culture of Kashmir & Northern Areas
- **Urban and Rural Division of Pakistan**
 - Rural Society
 - Urban Society
- **Minority and Their Belief**
- **Major Social Problems**
- **Major Occupation and Production Activities**

BOOKS RECOMMENDED: -

1. Tabassum, I., & Amin, S. (2021). Portrayal of Women in Pakistani Dramas and its Impact on Pakistani Society and Culture. *Human Nature Journal of Social Science*, 1(1), 22-30.
2. Kamran, M., & Kamran, S. (2017, November). Globalization, E-Learning and Pakistani Literature. In [2018] *Congreso Internacional de Educación y Aprendizaje*.
3. Ahmed, M., & Shah, S. K. (2013). The Relationship between Culture and ELT: The Representation of Aesthetic Sense Culture in "Oxford Progressive English". *Journal of Education and Practice*, 5(4).
4. Yasmin, A., & Iqbal, R. (2019). Justice Delayed is Justice Denied: the Role of Justice in Pakistani Society, an Overview. *Pacific International Journal*, 2(Issue-2), 01-06.

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ADP in Sociology

Foundation Course-VI
(Specialization) 3rd Semester(20-22)

Course Title: Classical sociological theories	
Course Code SOC-01401	Credit Hours:03

Objective

The course provides a review of classical sociological theorists to contemporary sociological thinking. It focuses on the content and utility of classical theories in terms of understanding social world. While the course provides a general history of sociological theory, the focus remains on examining how classical theories have provided the basis for a better understanding of the character and dynamics of societies around the world. The contents of the course also help understand the nature of contemporary sociological theories.

The aim of this course is to train the students in such a manner that they can understand the concept of social forces, intellectual forces, French revolution, concept of theory, sociological theory and contribution of different theorist.

Course Outline

- **Background**
 - Social Forces
 - Intellectual Forces
 - French Revolution
 - sEnlightenment
- **Development of Sociological Theory**
 - Theory and Knowledge
 - Process of Theorizing
 - Types of Sociological Theories
 - Inductive and Deductive
 - Process of theorizing
 - Fact, Propositions, and Laws
 - Sociological Theory between 1600 -1800 AD
- **August Comte**
 - Positivism
 - The law of Human Progress
 - Hierarchy of the Sciences
 - Social Static & Dynamic
- **Emile Durkheim**

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- Rules of Sociological methods
- Division of Labour
- Social Solidarity
- Theory of Religion
- Theory of Suicide
- **W. G. Sumner**
 - Folkways and Mores
 - Ingroup and outgroup
 - Basic motives
- **Karl Marx**
 - Communist Manifesto
 - Socialism
 - Stages of Social Evolution
- **Herbert Spencer**
 - The law of Social Evolution
 - Concept of Society
 - Laissez-faire
- **Max Weber**
 - Sociology of Religion
 - Bureaucracy
 - Protestant Ethic and the Sprit of Capitalism

BOOKS RECOMMENDED: -

1. Craib, I. (2015). *Modern social theory*. Routledge.
2. Rock, P. (2017). The foundations of sociological theories of crime. *The Oxford handbook of criminology*, 21-56.
3. Sica, A. (2019). Classical sociological theory. *The Wiley Blackwell Companion to Sociology*, 1-20.
4. Dillon, M. (2020). *Introduction to sociological theory: Theorists, concepts, and their applicability to the twenty-first century*. John Wiley & Sons.

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ADP in Statistics
Foundation Course-II
(Specialization) 4th Semester

Statistics-II

Course objectives:

- To understanding the basic techniques of sampling and estimation, their properties and application,
- To select a sample from a given population and use it to make inferences about the population and its parameters,
- To test, deduce and infer the validity of different types of hypotheses and models built on the basis of the raw data collected in diverse problem situations.

Learning outcomes:

- Acquire the knowledge of the sampling distributions and their properties,
- Derive the appropriate estimators for parameters using best estimation procedure,
- Use appropriate sampling distributions for interval estimation and hypotheses testing,
- Apply appropriate inferential procedures to handle the practical situations.

Course contents:

Sampling and sampling distribution of sample mean, proportion, difference between means and difference between proportions; Point and interval estimate properties of good point estimator; Testing of hypothesis for population mean, difference between population means and population proportion and difference between two population proportions, difference between means for paired data; Single population variance, ratio of two variances; Non-parametric methods: The sign test, Wilcoxon's signed rank test, Mann-Whitney U test, Median test, Run test, Kolmogorov-Smirnov test, Kruskal-Wallis test, Median test for k-samples, Friedman test.

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ADP in Statistics
Foundation Course-III
(Specialization) 4th Semester

Statistics-III

Course objectives:

- To provide foundation of regression analysis,
- To provide basic knowledge and art of statistical data analysis,
- To predict and draw inference about the parameters of the parameters of population.

Learning outcomes:

- Explore more adequately the connection between theory of regression,
- Analysis of real world problems,
- Prediction of dependent variables.

Course contents:

Relationship between variables, Simple linear regression model, Estimation of parameters by method of least squares and corresponding variance estimates, Testing and confidence intervals for least squares estimators, mean prediction and individual prediction. Multiple linear regression with two regressors, coefficient of multiple determination, Partial and multiple correlation up to three variables. Inference of simple, partial and multiple correlation coefficients, Analysis of variance for one-way classification and two-way classification. Decomposition of total sum of squares, Multiple comparison tests; least significant difference and Duncans multiple range test, Tukey test and Least significant difference test.

Pre-requisite: Statistics-I and Statistics-II

Books Recommended

1. Montgomery, D. C., Peck, E. A., and Vining, G. G. (2012). *Introduction to Linear Regression Analysis*. (Vol. 821). Wiley, New York.
2. Dielman, T. E. (2001). *Applied Regression Analysis for Business and Economics*. Pacific Grove, Duxbury Press.
3. Clark, G. M. and Kempson, R. E. (1997). *Introduction to the Design and Analysis of Experiment*. Arnold, London.
4. Rawlings, J. O., Pantula, S. G., and Dickey, D. A. (2001). *Applied Regression Analysis. a Research Tool*. Springer.
5. Walpole, P.E., Myers R.H., Myers S.L. (1998). *Probability and Statistics for Engineers and Scientists*. 7th edition, Prentice Hall.
6. Weiss, N.A, (1997). *Introductory Statistics*. 4th edition, Addison-Wesley, Boston.

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ADP in Statistics
Foundation Course-IV
(Specialization) 4th Semester

Statistics-IV

Course objectives:

- To provide solid understanding of the process of Exploratory Data Analysis,
- To educate students in data exploration, analysis, and visualization,
- To train students in industry standard tools for data analysis and visualization.

Learning outcomes:

- describe exploratory data analysis and visualization concepts,
- describe data analysis and visualization models and algorithms,
- describe applicability of different data analysis and visualization models techniques to solve real-world problems,
- acquire and pre-process data,
- apply exploratory data analysis to some real data sets and provide interpretations via relevant visualization.

Course contents:

Exploratory Data Analysis: Explore, Visualize, Analyze, Repeat. Selective data collection and data exploration. Data visualization and Data analysis (using Excel/Tableau/R/STATA/SPSS etc)

Pre-requisite: STAT-301: Introductory Statistics

Books Recommended

1. Peng, R. D. (2015). *Exploratory Data Analysis with R*. lulu press, North Carolina.
2. Tukey, J. (1977). *Exploratory Data Analysis*. Addison-Wesley, Boston.
3. Chang, W. (2013). *R Graphics Cookbook*. O'Reilly Media, California.
4. Wickham, H. (2016). *ggplot2: Elegant Graphics for Data Analysis*. 2nd edition, Springer.

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ADP in Statistics
Foundation Course-V
(Specialization) 4th Semester

Statistics-V

Examinations Department IUB

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ADP in Statistics
Foundation Course-VI
(Specialization) 4th Semester

Statistics-VI

Examinations Department IUB

W. F. H.

ADP in Urdu

Foundation Course-II (Specialization) 4th Semester

اُردو زبان: قواعد و املا

- قواعد:
حروفِ بجا کی صحیح آوازیں، صحیح اعراب، حروفِ شمسی و قمری کا لحاظ، صحیح بچے
- لفظ کی ساخت اور استعمال:
الفاظ کی ترکیبی ساخت، مرکباتِ ناقصہ (سابقی، لاحقی، اضافی، توصیفی، عددی، عطفی، امتزاجی، ظرفی، اشاری، جاری، حالی، تاکیدی، تمیزی، تابع موضوع، تابع مہمل)، مرکباتِ تام بلحاظِ ساخت (سادہ جملہ، مرکب جملہ)، بلحاظِ معنی (خبریہ، انشائیہ)، بلحاظِ نوعیت (جملہ اسمیہ، جملہ فعلیہ)، فعل و فاعل، فعل و مفعول اور فعل و مبتدا کی مطابقت، امالہ: مفرد و مرکب الفاظ میں۔
- حروف کا استعمال:
حروفِ ربط، حروفِ عطف، حروفِ اختصاص، حروفِ فجائیہ، حروفِ استفہامیہ
- املا:
اُردو رسم الخط کا تعارف اور اعراب یا علامتوں کا نظام، حروفِ علت کی علامتیں، مد کی علامت، تشدید کی علامت، ہمزہ کا استعمال، ”ھ“ کا استعمال، ”ہ“ اور ”و“ میں فرق، غنہ کا استعمال، الف بالکسرہ کا استعمال۔ اُردو کا موزوں ترین رسم الخط
- دخیل الفاظ:
عربی، فارسی اور انگریزی زبانوں کے دخیل الفاظ اور ان کی تصریف، تلفظ اور املا کے مسائل
- مجوزہ کتب:
۱۔ اُردو قواعد شوکت سبزواری
۲۔ قواعد اُردو / مولوی عبدالحق
۳۔ اُردو کی لسانی تشکیل مرزا خلیل بیگ
۴۔ اُردو املا / رشید حسن خان
۵۔ صحتِ الفاظ بدر الحسن
۶۔ اُردو میں عربی الفاظ کا تلفظ قیوم ملک
۷۔ فرہنگِ تلفظ شان الحق حقی
۸۔ اُردو تاریخ و مسائل روح الامین

ADP in Urdu

Foundation Course-III (Specialization) 4th Semester

ادبی اصطلاحات

اصطلاح، ادبی اصطلاح اور اصطلاح سازی

- ۱۔ فصاحت ۲۔ بلاغت ۳۔ عینیت
- ۴۔ مثالیت ۵۔ داخلیت ۶۔ خارجیت
- ۷۔ آفاقیت ۸۔ عالمگیریت ۹۔ کلاسیکیت
- ۱۰۔ رومانویت ۱۱۔ جدیدیت ۱۲۔ علامتیت
- ۱۳۔ وجودیت ۱۴۔ نرگسیت ۱۵۔ حقیقت نگاری
- ۱۶۔ تانیثیت ۱۷۔ مارکسیت ۱۸۔ آمدو آورد
- ۱۹۔ سرقہ و توارد ۲۰۔ المیہ ۲۱۔ طربیہ
- ۲۲۔ جمالیات ۲۳۔ تلازمہ ۲۴۔ محاکات
- ۲۵۔ تمثالیات ۲۶۔ اساطیر ۲۷۔ اظہاریت
- ۲۸۔ عصری حسیت ۲۹۔ اسلوبیات ۳۰۔ غنائیہ

مجوزہ کتب:

- ۱۔ درس بلاغت شمس الرحمن فاروقی
- ۲۔ اصطلاح سازی ڈاکٹر سلیم اختر
- ۳۔ منتخب ادبی اصطلاحات ڈاکٹر سہیل احمد
- ۴۔ ادبی اصطلاحات انور جمال
- ۵۔ چند منتخب ادبی اصطلاحات ڈاکٹر فخر الحق نوری
- ۶۔ کشف تنقیدی اصطلاحات ابوالاعجاز حفیظ صدیقی
- ۷۔ ادبی اصطلاحات کی توضیحی فرہنگ عتیق اللہ

ADP in Urdu

Foundation Course-IV (Specialization) 4th Semester

اردو لسانیات

- لسانیات کیا ہے؟
- لسانیات کی اہم شاخیں اور شعبے
- ۱۔ صوتیات ۲۔ صرفیات
- ۳۔ نحویات ۴۔ معنیات
- علم لسان کی تاریخ اور جدید لسانیات کا آغاز
- زبانوں کے مختلف خاندان: تعارفی مطالعہ
- ہند آریائی خاندان کی زبانوں کا تاریخ وار تسلسل اور اردو زبان کے آغاز کے نظریات:
- سنس کرت، پراکرت، اپ بھرنش، ہندی، اردو
- مجوزہ کتب:

- | | |
|---------------------------------------|---|
| ڈیوڈ کرسٹل (ترجمہ: نصیر احمد خان) | ۱۔ لسانیات کیا ہے؟ |
| ایچ اے گلیسن (ترجمہ: عتیق احمد صدیقی) | ۲۔ توضیحی لسانیات |
| ڈاکٹر شوکت سبزواری | ۳۔ اردو لسانیات |
| ڈاکٹر امیر اللہ خان شاہین | ۴۔ جدید اردو لسانیات |
| ڈاکٹر میمن عبدالمجید سندھی | ۵۔ لسانیات پاکستان |
| ڈاکٹر محی الدین قادری زور | ۶۔ ہندوستانی لسانیات |
| سید روح الامین (مرتب) | ۷۔ اردو لسانیات کے زاویے |
| شمس الرحمن فاروقی | ۸۔ اردو کا ابتدائی زمانہ |
| ڈاکٹر مسعود حسین خان | ۹۔ مقدمہ تاریخ زبان اردو |
| عین الحق فرید کوٹی | ۱۰۔ اردو زبان کی قدیم تاریخ |
| | مرزا خلیل احمد بیگ ۱۱۔ اردو زبان کی تاریخ |

ADP in Urdu

Foundation Course-V (Specialization) 4th Semester

شعری اصنافِ ادب

- شعری اصناف کی شعریات
- ہیئت اور صنف میں امتیاز
- شعری اصناف کے مزاج اور اسالیب کا مختصر تعارف
- شعری اصناف کا تعارف
- شعری اصناف بہ لحاظ موضوع:
- حمد، نعت، قصیدہ، مرثیہ، بگو، شہر آشوب، واسوخت، ریختی، غزل
- شعری اصناف بہ لحاظ ہیئت:
- مثنوی، رباعی، قطعہ، مسمط، ترکیب بند، ترجیع بند، مستزاد، نظم معری، آزاد نظم، نثری نظم

مجوزہ کتب:

۱. اصنافِ ادب اردو ڈاکٹر خلیق انجم
۲. اصنافِ نظم و نثر ڈاکٹر علی محمد خان، ڈاکٹر اشفاق ورک
۳. اصنافِ ادب ڈاکٹر رفیع الدین ہاشمی
۴. ادبی اصناف اور شعری ہیئیں شمیم احمد
۵. اصنافِ شاعری افتخار شفیع
۶. اردو شاعری کا مزاج ڈاکٹر وزیر آغا
۷. اردو شاعری کا فنی ارتقائی ڈاکٹر فرمان فتح پوری
۸. اردو کی بہترین مثنوی ڈاکٹر فرمان فتح پوری
۹. اردو رباعی ڈاکٹر فرمان فتح پوری

ADP in Urdu

Foundation Course-VI (Specialization) 4th Semester

نثری اصنافِ ادب

- نثری اصناف کی شعریات
 - نثری اصناف کے مزاج اور اسالیب کا مختصر تعارف
 - نثری اصناف کا تعارف
 - افسانوی نثر:
 - داستان، ناول، افسانہ، ڈراما
 - غیر افسانوی نثر:
 - سوانح عمری، آپ بیتی، خاکہ نگاری، سفرنامہ، رپورٹاژ، انشائیہ، مضمون، کالم، مکتوب
- مجوزہ کتب:**

- ۱۔ اصنافِ ادب اردو ڈاکٹر خلیق انجم
- ۲۔ اصنافِ نظم و نثر ڈاکٹر علی محمد خان، ڈاکٹر اشفاق ورک
- ۳۔ اصنافِ ادب ڈاکٹر رفیع الدین ہاشمی
- ۴۔ ادبی اصناف اور شعری ہئیتیں شمیم احمد
- ۵۔ اصنافِ نثر افتخار شفیق
- ۶۔ فن اور فیصلے یحییٰ امجد
- ۷۔ اردو میں خاکہ نگاری بشیر الدین سیفی
- ۸۔ اردو میں سفر نامہ انور سدید
- ۹۔ اردو ادب میں سوانح نگاری الطاف فاطمہ
- ۱۰۔ اردو کی نثری داستانیں ڈاکٹر گیان چند جین
- ۱۱۔ اردو ناول کی تنقیدی تاریخ ڈاکٹر احسن فاروقی

ADP in Zoology
Foundation Course-II
(Specialization) 4th Semester

Zool-ADP-402

Invertebrates

3(2+1)

Introduction: Classification of organisms; evolutionary relationships and tree diagrams; patterns of organization. Animal-Like Protists: The Protozoa: Evolutionary perspective. Multicellular and Tissue Levels of Organization: Evolutionary perspective: origins of multicellularity; animal origins. Phylum Porifera: cell types, body wall, water currents and body forms; reproduction. Phylum Cnidaria (coelenterata) the body wall and nematocysts; alternation of generations; reproduction and classification up to class. Phylum Platyhelminthes: classification up to class; the free-living flatworms and their organ systems. Aschelminths: Evolutionary perspective; general characteristics; classification up to phyla with external features. Molluscan Success: Evolutionary perspective: relationships to other animals; origin of the coelom; molluscan characteristics; classification up to class. Molluscan Success: Annelida: The Metameric Body Form: Evolutionary perspective: relationship to other animals, metamerism and tagmatization; classification up to class. Annelida: Arthropods: Blueprint for Success: Evolutionary perspective: classification and relationships to other animals; metamerism and tagmatization; metamorphosis. Hexapods and Myriadpods: Insect behaviour; insects and human. Echinoderms: Evolutionary perspective: relationships to other animals; echinoderm characteristics; classification up to class.

Practical

Study of *Euglena*, *Amoeba*, *Entamoeba*, *Plasmodium*, *Trypanosoma*, *Paramecium* as representative of animal like protists. (Prepared slides). Study of sponges and their various body forms. Study of principal representative classes of phylum Coelenterata. Study of principal representative classes of phylum Platyhelminthes. Study of representative of phylum Rotifera, phylum Nematoda. Study of principal representative classes of phylum Mollusca. Study of principal representative classes of phylum Annelida. Study of principal representative classes of groups of phylum Arthropoda. Brief notes on medical/economic importance of the following: *Plasmodium*, *Entamoeba histolitica*, *Leishmania*, Liverfluke, Tapeworm, Earthworm, Silkworm, Citrus butterfly. Preparation of permanent stained slides of the following: *Obelia*, *Daphnia*, Cestode, Parapodia of *Nereis*.

Recommended Books:

1. Hickman, C.P., Roberts, L.S. and Larson, A. Integrated Principles of Zoology, 11th Edition (International), 2004. Singapore: McGraw Hill.
2. Miller, S.A. and Harley, J.B. Zoology, 5th Edition (International), 2002. Singapore: McGraw Hill.
3. Pechenik, J.A. Biology of Invertebrates, 4th Edition (International), 2000. Singapore: McGraw Hill.
4. Kent, G.C. and Miller, S. Comparative Anatomy of Vertebrates. 2001. New York: McGraw Hill.
5. Campbell, N.A. Biology, 6th Edition. 2002. Menlo Park, California: Benjamin/Cummings Publishing Company, Inc.
6. Miller, S.A. 2002. General Zoology Laboratory Manual. 5th Ed. (International). Singapore: McGraw Hill

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ADP in Zoology
Foundation Course-III
(Specialization) 4th Semester

Chordate

The First Amniotes: Temperature regulation, nervous and sensory functions, excretion and osmoregulation and reproduction. Evolutionary perspective: phylogenetic relationships; ancient birds and the evolution of flight; evolutionary pressures: adaptation in external structure and locomotion. Nutrition and the digestive system, circulation, gas exchange, temperature regulation, nervous and sensory systems. Birds, Feathers, Flight, and Endothermy: Excretion and osmoregulation, reproduction and development; migration and navigation. Mammals: Endothermy, Hair, and Viviparity: Evolutionary perspective: diversity of mammals; evolutionary pressures: adaptations in external structure. Nutrition and the digestive system, circulation, gas exchange, and temperature regulation. Nervous and sensory functions, excretion and osmoregulation, behavior, reproduction.

Practical

Study of a representative of Hemichordate and Invertebrate Chordate. Study of representative groups of class Fishes. Study of representative groups of class Amphibia. Study of representative groups of class Reptilia. Study of representative groups of class Aves. Study of representative groups of class Mammalia. Field trips to study animal diversity in an eco-system.

Recommended Books:

1. Alberts, B., Bray, D., Lewis, J., Raff, M., Roberts K. and Watson, J.D. Molecular Biology of the Cell, 1989. Garland Publishing Inc., New York.
2. Damell Jr., J., Lodisch, H. and Baltimore, D. Molecular Cell Biology, 1990. Scientific American Inc. N.Y
3. De Robertis, E.D.P and De Robertis Jr. E.N.F. Cell and Molecular Biology, 1987. Lea and Febiger, New York
4. Karp, J. Cell and Molecular Biology, Concepts and Experiments, 2005, Jhon Wiley and Sons, Inc.
5. Geoffrey M.C Robert E.H The Cell: A Molecular Approach, 2007. Sinauer Associates, INC.
6. Miller, S.A. 2002. General Zoology Laboratory Manual. 5th Ed. (International). Singapore: McGraw Hill.

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ADP in Zoology
Foundation Course-IV
(Specialization) 4th Semester

Cell Biology

Course Objectives:

The objectives of the course are:-

1. To explain the basic concepts of cell biology.
2. To understand cellular structure, composition of the organelles, cell growth and cellular division.
3. To explain how macromolecules and organelles govern the dynamic organization, function of living cells

Course Learning Outcomes:

Upon successful completion of the course, the student will be able to:

1. **ACQUIRE** the basic concepts of cell biology.
2. **UNDERSTAND** the metabolic processes of cells in terms of cellular organelles, membranes, and biological molecules.
3. **ABILITY** to understand the role of macromolecules regulating cellular processes.
4. **FORMULATE** the critical thinking skills and knowledge on cell.

Course Outline:

1. **Introduction cell structure and function**
 - Cell theory
 - Comparison of plant and animal cells
 - Comparison of prokaryotic and eukaryotic cells
 2. **Cell membranes**
 - a. Structural models
 - b. Chemical composition and function
 1. **Cell Organelles (structure and function)**
 - Endoplasmic reticulum
 - Golgi Bodies
 - Mitochondria
 - Lysosomes
 - Peroxisomes
 - Ribosome
 2. **Nucleus**
 - Structure and function
 - Nuclear membrane
 - Chromatin
 3. **Cytoskeleton**
 - Structure and types
 - Function of cytoskeleton
 4. **Cellular transport**
 - Diffusion and osmosis
 - Facilitated and active transport
 - Endocytosis and exocytosis
 5. **Cellular reproduction**
 - Cell cycle
 - Mitosis
 - Meiosis
- Practical:**
1. Microscopy
 2. staining techniques (Gram staining)
 3. Identification of cell organelles (prepared slides)
 4. Preparation of temporary whole mount.
 5. Preparation of permanent whole mount.

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6. Squash preparation of onion root tip for mitotic stages.
7. Study of mitotic and meiotic stages (prepared slides)

Books Recommended:

1. Alberts, B., Bray, D., Lewis, J., Raff, M., Roberts, K., Watson, J. D. 2017.
Molecular Biology of the Cell, 6th Edition. Garland Publishing Inc., New York.
2. Harvey Lodish, Arnold Berk, Chris A. Kaiser, Monty Krieger, Anthony Bretscher, Hidde Ploegh, Angelika Amon, Kelsey C. Martin. 2016.
Molecular Cell Biology. W. H. Freeman Publishers, Scientific American Inc.
3. Geoffrey M. C., Robert E. H. 2007. The cell: A Molecular Approach, Sinauer Associates, INC.
4. Karp, J. 2005. Cell and Molecular Biology, Concepts and Experiments, John Wiley and Sons, INC.
5. DeRobertis, E. D. P. 2017. Cell and Molecular Biology, 8th edition, Lea & Febiger, New York.
6. Campbell, N. A. Biology, 6th Edition. 2002. Menlo Park, California: Benjamin/Cummings Publishing Company, Inc.

Examinations Department IUB

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ADP in Zoology
Foundation Course-V
(Specialization) 4th Semester

Desert Zoology

Objectives:

The course aims to impart the knowledge majoring in biology and environmental sciences related to the desert organisms and the ecological processes of desert biomes.

Course Contents:

Origin of desert life: Exhibited features including soil, water, temperature, atmospheric pressure and oceanic role.

Desert Ecology: Introduction to local habitats, identification of local animals. Morphological and physiological adaptations of desert organisms. Principles of classifying and naming species.

Desert biomes: (Hot and Dry, semiarid, Coastal and Cold). Desertification its Causes and impacts on animals. Deserts of Pakistan.

Conservation of Animals: Advantages and disadvantages of Deserts, Major threats/risk factors and management strategies to conserve the animals in deserts.

Practical:

- Field trips of deserts
- Visits of National Parks
- Identification of indigenous fauna

Recommended Books:

- Murphy, J. (2011). Desert animal adaptations. Capstone.
- Jaeger, E. C. (1922). Denizens of the Desert: A Book of Southwestern Mammals, Birds, and Reptiles, by Edmund C. Jaeger... Houghton Mifflin.
- Hibbitts, T. D., & Hibbitts, T. J. (2015). Texas Lizards: A Field Guide. University of Texas Press.
- Irwin, R. (2010). Camel. Reaktion Books.
- Ward, D. (2016). The biology of deserts. Oxford University Press.
- Nelson, R. J., Denlinger, D. L., & Somers, D. E. (Eds.). (2010). Photoperiodism: the biological calendar. Oxford University Press.
- Kloc, M., & Kubiak, J. Z. (2014). Xenopus Development. John Wiley & Sons.

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ADP in Zoology
Foundation Course-VI
(Specialization) 4th Semester

Zool-02604

Introduction to Entomology

3(2+1)

General characteristics of insects. Relationship with other Arthropods, splitting up into different evolutionary lines, Reasons for success of the insects in diverse environments.

Hard Parts: General segmentation, tagmatosis and organization.

Cuticle: Detailed structure along with its biochemistry. Epidermal layer; its structure and function. Basement membrane. Colors of insects. cuticular outgrowths and appendages sclerotization.

Head: cephalization, sclerites, modifications.

Antennae: Different modes of ingestion and types of mouth parts.

Neck: Sclerites.

Thorax: Sclerites: legs, their different modifications and functions.

Wings: Origin; Different regions. Development and basal attachments, main veins and their branches (generalized insects), wing coupling.

Abdomen: Secondary appendages and external genitalia, Flight; types of flight. Aerodynamics, fuels, endoskeleton; head, thorax and abdomen.

Soft Parts: Muscular system; basic structure, types of muscles; muscle contraction and its energetics, comparative structure of all the systems, e.g., digestive, excretory, respiratory, incubatory, and nervous system and their physiology.

Sense organs: sound and light producing organs.

Nutritive requirements: Fat body, exocrine and endocrine glands including pheromones and their functions.

Reproduction: Reproductive organs and different types of reproduction in insects, egg fertilization and maturation

Development: Embryology up to dorsal closure, different types of metamorphosis, apolysis and ecdysis and the role of endocrine secretions.

Practical

Preparation of permanent slides. All the hard parts (antennae, mouth parts, wings, legs, terminal segments and genitalia). Different systems, especially digestive, reproductive of the following insects. American cockroach, Gryllus, grasshopper, housefly, butterfly, mosquito, any common beetle. Red cotton bug. Wasp and honey bee. Sympathetic nervous system of cockroach and gryllus. Salivary glands of cockroach, red cotton bug and honey bee

Recommended Books:

1. RICHARDS, O. W. and DAVIES, R. G. Imm's General Textbook of Entomology. Vol. 1, 10th Edition. 1977. Chapman & Hall, London,
2. Chapman, R.F. The Insects: Structure and Function, 2000. Blackwell Science Inc., London.
3. Wigglesworth, V. B. Insect Physiology 8th Edition. 1984. Springer Publisher.
4. Robert L. Patton. W. B. Insect Physiology. 1963. Saunders Co., Philadelphia.
5. Price, W. INSECT ECOLOGY. 1997. John Wiley & Sons.
6. Krebs, C. J. Ecology: The Experimental Analysis Abundance. 5th Edition. 2000. Benjamin-Cummings Publishing Company.
7. Tembhare, Db. Modern Entomology. 2002. Himalaya Publishing House. India.
8. Southood, T.R.E. Ecological Methods. 1978. Chapman and Hall, London.
9. Yazdani, S.S., and Agarwal, M.L. Elements of Insect Ecology. 1997. Narosa Publishing House. India.