## (प्रथम वर्ष कला उद्दिष्ट्ये आणि परिणाम)

वर्ग (सत्र)	विषय	उद्दिष्टे	परिणाम
प्रथम वर्ष	MAR-G- የየ (A)	कथा या वाडमय प्रकाराचे स्वरुप आणि वैशिष्ट्ये यांचे आकलन करुन घेणे.	विद्यार्थ्यांनी कथा या वाडमय प्रकाराचे स्वरुप आणि
कला	विशिष्ट वाङमय प्रकाराचा		वैशिष्ट्ये यांचे आकलन करुन घेतले.
सत्र-I	अभ्यास - कथा जीवनक हवा कथा नगीत	कथारचनेचे प्रमुख घटक, महत्त्वपूर्ण प्रकार, मराठी कथेची वाटचाल जाणून	विद्यार्थ्यांनी कथारचनेचे प्रमुख घटक, महत्त्वपूर्ण प्रकार,
	(निवडफ दहा कथा-हमाद दलवाई)	घेणे.	मराठी कथेची वाटचाल समजून घेतली.
		हमीद दलवाई यांच्या `निवडक दहा कथा` कथानकाचे आकलन करुन घेणे.	विद्यार्थ्यांनी हमीद दलवाई यांच्या निवडक दहा कथांच्या
			कथानकाचे आकलन करुन घेतले.
		हमीद दलवाई यांच्या `निवडक दहा कथा` मधील व्यक्तिचित्रणे, प्रसंगवर्णने,	विद्यार्थ्यांनी हमीद दलवाई यांच्या `निवडक दहा कथा`
		वातावरण निर्मिती यांची वैशिष्ट्ये जाणून घेणे.	मधील व्यक्तिचित्रणे, प्रसंगवर्णने, वातावरण निर्मिती यांची
			वैशिष्ट्ये समजून घेतली.
		हमीद दलवाई यांच्या `निवडक दहा कथा` मधील संघर्ष, निवेदनशैली,	विद्यार्थ्यांनी हमीद दलवाई यांच्या `निवडक दहा कथा`
		भाषाविशेष या घटकांचे आकलन करुन घेणे.	मधील संघर्ष, निवेदनशैली, भाषाविशेष या घटकांचे
			आकलन करुन घेतले.
प्रथम वर्ष	MAR-G- የ የ (A)	कविता या वाडमय प्रकाराचे स्वरुप आणि वैशिष्ट्ये यांचे आकलन करुन	विद्यार्थ्यांनी कविता या वाडमय प्रकाराचे स्वरुप आणि
कला	विशिष्ट वाडमय प्रकाराचा	घेणे.	वैशिष्ट्ये यांचे आकलन करुन घेतले.
सत्र-II	अभ्यास - कविता पांगादिन कविनागंगर	काव्यरचनेचे प्रमुख घटक, काव्याचे दोन महत्त्वपूर्ण प्रकार आणि आधुनिक	विद्यार्थ्यांनी काव्यरचनेचे प्रमुख घटक, काव्याचे दोन
	(सपादित फायतासम्रह)	मराठी कवितेची वाटचाल समजून घेणे.	महत्त्वपूर्ण प्रकार, मराठी कवितेची वाटचाल समजून
			घेतली.
		संपादित कविता संग्रहातील विविध प्रकारातील कवितांचे आशयविशेष	विद्यार्थ्यांनी संपादित कवितासंग्रहातील विविध प्रकारांतील
		जाणून घेणे.	कवितांचे आशयविशेष समजून घेतले.
		संपादित कविता संग्रहातील विविध प्रकारांतील कवितांची अभिव्यक्ति विशेष	विद्यार्थ्यांनी संपादित कविता संग्रहातील विविध प्रकारांतील
		जाणून घेणे.	कवितांचे अभिव्यक्ति विशेष जाणून घेतले.

## ज.जि.म.वि.प्र.सह.समाजाचे कला, वाणिज्य व विज्ञान महाविद्यालय, जळगांव मराठी विभाग सन २०१९-२० (द्वितीय वर्ष कला उद्दिष्ट्ये आणि परिणाम)

वर्ग (सत्र)	विषय	उद्दिष्टे	परिणाम
द्वितीय वर्ष	MAR-२३१ (A)	मराठीतील वैचारिक गद्यलेखनाच्या परंपरेचा परिचय करुन घेणे.	विद्यार्थ्यांनी मराठीतील वैचारिक गद्यलेखनाच्या परंपरेचा परिचय
कला	वैचारिक गद्यलेखनाचा		करुन घेतला.
सत्र-III	अभ्यास- (`शेतकऱ्याचा असूड`- महात्मा जोतीराव	माहात्मा जोतीराव फुले यांचे जीवन, कार्य, त्यांची वैचारिक जडणघडण आणि त्यांच्या लेखनसंप्रदेवाबत माहिती घोणे	विद्यार्थ्यांनी महात्मा जोतीराव फुले यांचे जीवन, कार्य, त्यांची वैचारिक जन्मणघटण, आणि त्यांच्या लेखन संप्रदेवाबत माहिती
	फुले)		घेतली.
		`शेतकऱ्याचा असूड` या वैचारिक आशयाची स्वरुपवैशिष्ट्ये समजावून घेणे.	विद्यार्थ्यांनी `शेतकऱ्याचा असूड` मधील वैचारिक आशयाची स्वरुपवैशिष्ट्ये समजावून घेतली.
		`शेतकऱ्याचा असूड` या वैचारिक गद्यलेखनाच्या वाडमयीन गुणवैशिष्ट्यांचा	विद्याथ्यांनी `शेतकऱ्याचा असूड` या वैचारिक गद्यलेखनातून
		शोध घेणे.	वाडमयीन गुणवैशिष्ट्यांचा शोध घेतला.
		`शेतकऱ्याचा असूड` मधून आलेल्या वैचारिक मांडणीची समकालीन	विद्यार्थ्यांनी `शेतकऱ्याचा असूड` मधुन आलेल्या वैचारिक
		अर्थपूर्णता प्रात्याक्षिकांच्या माध्यमातून जाणून घेणे.	मांडणीची समकालीन अर्थपूर्णता प्रात्याक्षिकांच्या माध्यमातून
			जाणून घेतली.
द्वितीय वर्ष	MAR-२४१ (A)	चरित्र व आत्मचरित्रपर लेखनाचे सामाजिक व वाड्मयीनदृष्ट्या महत्त्व	विद्यार्थ्यांनी चरित्र व आत्मचरित्रपर लेखनाचे व वाडमयीन
कला	चरित्र - आत्मचरित्रपर	जाणून घेणे.	दृष्ट्या महत्त्व समजून घेतले.
सत्र-IV	लेखनाचा अभ्यास -	मराठीतील चरित्र व आत्मचरित्र लेखनाच्या परंपरेचा परिचय करुन घेणे.	विद्यार्थ्यांनी मराठीतील चरित्र व आत्मचरित्र लेखनाच्या परंपरेचा
	(जावनरग-संपादन)		परिचय करुन घेतला.
		`जीवनरंग` या पुस्तकातील निवडक चरित्रपर आणि आत्मचरित्रपर लेखांचे	विद्यार्थ्यांनी `जीवनरंग` या पुस्तकातील निवडक चरित्रपर आणि
		स्वरुप जाणून घेणे.	आत्मचरित्रपर लेखांचे स्वरुप जाणून घेतले.
		'जीवनरंग' या पुस्तकातील चरित्रपर आणि आत्मचरित्रपर लेखांची वाड्मयीन	विद्यार्थ्यांनी `जीवनरंग` या पुस्तकातील चरित्रपर आणि
		गुणवैशिष्ट्ये लक्षात घेणे.	आत्मचरित्रपर लेखांची वाड्मयीन गुणवैशिष्ट्ये समजून घेतली.

द्वितीय वर्ष	MAR-२३१ (B)	विविध स्पर्धा परिक्षांसाठी आवश्यक मराठी भाषेच्या अभ्यासाची तयारी करुन	विद्यार्थ्यांनी स्पर्धा परिक्षांसाठी आवश्यक मराठी भाषेच्या
कला	स्पर्धा परिक्षांसाठी मराठी	घेणे.	अभ्यासाची तयारी करुन घेतली.
सत्र-III	(व्याकरण विभाग)	मराठी भाषेच्या व्याकरणातील महत्त्वपूर्ण संकल्पना समजून घेणे आणि त्या	विद्यार्थ्यांनी मराठी भाषेच्या व्याकरणातील महत्त्वपूर्ण संकल्पना
		संकल्पनांच्या उपाययोजनांचे कौशल्य आत्मसात करणे.	समजून घेतल्या आणि त्या संकल्पनांच्या उपाययोजनांचे
			कौशल्य आत्मसात केले.
द्वितीय वर्ष	MAR-२४१ (B)	विविध स्पर्धा परिक्षांसाठी आवश्यक मराठी भाषेच्या अभ्यासाची तयारी करुन	विद्यार्थ्यांनी स्पर्धा परिक्षांसाठी आवश्यक मराठी भाषेच्या
कला	स्पर्धा परिक्षांसाठी मराठी	घेणे.	अभ्यासाची तयारी करुन घेतली.
सत्र-IV	(लेखन विभाग)	मराठी भाषेतील लेखनासाठी उपयुक्त ठरतील अशी कौशल्य आत्मसात	विद्यार्थ्यांनी मराठी भाषेतील लेखनासाठी उपयुक्त ठरतील अशी
		करुन आणि मराठी भाषेतील लेखनाचा सराव करणे.	कौशल्य आत्मसात केली आणि मराठी भाषेतील लेखनाचा
			सराव केला.
द्वितीय वर्ष	MAR-२३२	कादंबरी या वाडमय प्रकाराचे स्वरुप व वैशिष्ट्ये जाणून घेणे. आणि	विद्यार्थ्यांनी कादंबरी या वाडमय प्रकाराचे स्वरुप व वैशिष्ट्ये
कला	आधुनिक वाडमय प्रकार :	आधुनिक मराठी कादंबरीच्या वाटचालीचा परामर्श घेणे.	जाणून घेतले आणि आधुनिक मराठी कादंबरीच्या वाटचालीचा
सत्र-III	कादंबरी (अवकाळी		परामर्श घेतला.
	पावसाच्या दरम्यानची	`अवकाळी पावसाच्या दरम्यानची गोष्ट` या कादंबरीतील ग्रामीण जीवन	विद्यार्थ्यांनी `अवकाळी पावसाच्या दरम्यानची गोष्ट` या
	गोष्ट-आनंद विंगकर)	वास्तवाचे स्वरुप लक्षात घेणे.	कादंबरीतील ग्रामीण जीवन वास्तवाचे स्वरुप समजून घेतले.
			विद्यार्थ्यांनी `अवकाळी पावसाच्या दरम्यानची गोष्ट` या
		े अवकाळी पावसाच्या दरम्यानची गोष्टे या कादंबरीचे वाडमयीन मूल्यमापन	कादंबरीचे वाडमयीन मूल्यमापन केले.
		करणे.	विद्यार्थ्यांमध्ये कादंबरीचे वाडमयीन आकलन व मूल्यमापन
		कादंबरीचे वाडमयीन आकलन व मूल्यमापन करुन घेण्याची दृष्टी विकसित	करुन घेण्याची दृष्टी विकसित झाली.
		करणे.	
द्वितीय वर्ष	MAR-२४२	कविता या वाडमय प्रकाराचे स्वरुप व त्याची वैशिष्ट्ये जाणून घेणे.	विद्यार्थ्यांनी कविता या वाडमय प्रकाराचे स्वरुप व वैशिष्ट्ये
कला	आधुनिक वाडमयप्रकार		समजून घेतले.
सत्र-IV	कविता (माझे विद्यापीठ-	आधुनिक मराठी कवितेच्या वाटचालीचा परामर्श घेणे.	विद्यार्थ्यांनी आधुनिक मराठी कवितेच्या वाटचालीचा परामर्श
	नारायण सुर्वे)		घेतला.
		`माझे विद्यापीठ` या कवितासंग्रहातील विविध जीवन जाणिवांचा शोध घेणे.	विद्यार्थ्यांनी `माझे विद्यापीठ` या कवितासंग्रहातील विविध
			जीवन जाणिवांचा शोध घेतला.
		`माझे विद्यापीठ` या कविता संग्रहाचे वाडमयीन मूल्यमापन करणे.	विद्यार्थ्यांनी `माझे विद्यापीठ` या कवितासंग्रहाचे वाडमयीन
			मूल्यमापन केले.
		कवितेचे वाडमयीन आकलन व मूल्यमापन करण्याची दृष्टी विकसित करणे.	विद्यार्थ्यांमध्ये कवितेचे वाडमयीन आकलन व मूल्यमापन
			करण्याची दृष्टी विकसित झाली.

द्वितीय वर्ष	MAR-२३३	भारतीय आणि पाश्चात्य साहित्य विचाराचा परिचय करुन घेणे आणि	विद्यार्थ्यांनी भारतीय आणि पाश्चात्य साहित्य विचाराचा
कला	साहित्य विचार	साहित्याचे स्वरुप समजून घेणे.	परिचय करुन घेतला आणि साहित्याचे स्वरुप समजून
सत्र-III	(भारतीय आणि		घेतले.
	पाश्चात्य)	प्रमुख संस्कृत व पाश्चात्य साहित्य मीमांसकांनी साहित्याच्या स्वरुपाविषयी	विद्यार्थ्यांनी प्रमुख संस्कृत व पाश्चात्य साहित्य मीमांसकांनी
		मांडलेल्या विचारांचा परिचय करुन घेणे आणि साहित्याच्या निर्मितीची	साहित्याच्या स्वरुपाविषयी मांडलेल्या विचारांचा परिचय
		विविध प्रयोजने जाणून घेणे.	करुन घेतला आणि साहित्याच्या निर्मितीची विविध प्रयोजने
			जाणून घेतली.
		साहित्य निर्मितीच्या प्रधान व गौण कारणांची ओळख करुन घेणे.	विद्यार्थ्यांनी साहित्य निर्मितीच्या प्रधान व गौण कारणांची
			ओळख करुन घेतली.
द्वितीय वर्ष	MAR-२४३	साहित्याच्या भाषेचे स्वरुप जाणून घेणे आणि शब्द शक्तीचे स्वरुप व प्रकार	विद्यार्थ्यांनी साहित्याच्या भाषेचे स्वरुप आणि शब्द शक्तीचे
कला	साहित्य विचार	समजून घेणे.	स्वरुप व प्रकार समजून घेतले.
सत्र-IV	(भारतीय आणि	पाश्चात्य साहित्य मीमांसकांनी त्याबाबत मांडलेल्या विविध संकल्पनांचा	विद्यार्थ्यांनी पाश्चात्य साहित्य मीमांसकांनी मांडलेल्या
	पाश्चात्य)	परिचय करुन घेणे.	विविध संकल्पनांचा परिचय करुन घेतला.
		साहित्यातील रसप्रक्रिया संस्कृत साहित्य मीमांसकांनी मांडलेल्या	विद्यार्थ्यांनी साहित्यातील रसप्रक्रिया संस्कृत साहित्य
		रसविचाराच्या आधारे जाणून घेणे.	मीमांसकांनी मांडलेल्या रसविचाराच्या आधारे जाणून
			घेतली.
		साहित्यातून प्राप्त होणात्या आनंदाचे स्वरुप आणि साहित्याची आस्वाद	विद्यार्थ्यांनी साहित्यातून प्राप्त होणात्या आनंदाचे स्वरुप
		प्रक्रिया समजून घेणे.	आणि साहित्याची आस्वाद प्रक्रिया समजून घेतली.
द्वितीय वर्ष	MAR-२३४	मुद्रितशोधनाचे स्वरुप आणि आवश्यकता जाणून घेणे आणि मुद्रितशोधनाचे	विद्यार्थ्यांनी मुद्रितशोधनाचे स्वरुप आणि आवश्यकता
कला	SEC लेखन कौशल्य-	कौशल्य आत्मसात करणे.	समजून घेतली आणि मुद्रितशोधनाचे कौशल्य आत्मसात
सत्र-III	मुद्रित शोधन		केले.
		मुद्रित शोधनाच्या खुणा, अर्थ आणि उपयोजन यांबाबत जाणून घेणे.	विद्यार्थ्यांनी मुद्रितशोधनाच्या खुणा, व अर्थ समजून घेतले
			आणि त्याचे उपयोजन केले.
		विरामचिन्हे आणि लेखनविषयक नियम यांचे स्वरुप जाणून घेणे.	विद्यार्थ्यांनी विरामचिन्हे आणि लेखनविषयक नियम यांचे
			स्वरुप समजून घेतले.
द्वितीय वर्ष	MAR-२४४	सर्जनशील लेखनाचे स्वरुप आणि वैशिष्ट्ये जाणून घेणे.	विद्यार्थ्यांनी सर्जनशील लेखनाचे स्वरुप आणि वैशिष्ट्ये
कला	SEC लेखन कौशल्य-		समजून घेतली.
सत्र-IV	सर्जनशील लेखन	कथालेखन आणि नाट्यात्मक लेखनाची निर्मिती प्रक्रिया समजून घेणे.	विद्यार्थ्यांनी कथालेखन आणि नाट्यात्मक लेखनाची
			निर्मिती प्रक्रिया समजून घेतली.
		कथालेखन आणि नाट्यलेखनाचा सराव करणे.	विद्यार्थ्यांनी कथालेखन आणि नाट्यात्म लेखनाचा सराव
			केला.

द्वितीय वर्ष	MAR-२३६	वृत्तपत्र या मुद्रित माध्यमाची वैशिष्ट्ये, कार्य आणि उपयुक्तता जाणून घेणे.	विद्यार्थ्यांनी वृत्तपत्र या मुद्रित माध्यमाची वैशिष्ट्ये, कार्य
कला	मुद्रित माध्यमांसाठी लेखन		आणि उपयुक्तता समजून घेतली.
सत्र-III		वृत्तपत्र माध्यमासाठी करावयाच्या बातमी लेखन, जाहिरातलेखन, वृत्तलेख,	विद्यार्थ्यांनी वृत्तपत्र माध्यमासाठी करावयाच्या बातमीलेखन,
		स्तंभ किंवा सदर लेखनाचे स्वरुप आणि तंत्र आत्मसात करणे.	जाहिरातलेखन, वृत्तलेख, स्तंभ किंवा सदर लेखनाचे स्वरुप
			आणि तंत्र आत्मसात केले.
		नभोवाणी माध्यमासाठी करावयाच्या भाषण लेखन, श्रीतिकालेखन,	विद्यार्थ्यांनी नभोवाणी माध्यमासाठी करावयाच्या
		युवकांसाठी कार्यक्रमलेखन आणि सरकार व खाजगी नभोवाणी माध्यमासाठी	भाषणलेखन, श्रीतिकालेखन, युवकांसाठी कार्यक्रमलेखन
		करावयाच्या विद्यर्थ्यांनी निवेदनाचे स्वरुप व तंत्र आत्मसात केले.	आणि सरकार व खाजगी नभोवाणी माध्यमासाठी
			करावयाच्या निवेदनाचे स्वरुप व तंत्र आत्मसात केले.
		विद्यर्थ्यांनी नाटक या वाडमय प्रकाराचे स्वरुप जाणून घेतले.	विद्यार्थ्यांनी नाटक या वाडमय प्रकाराचे स्वरुप जाणून
			घेतले.
द्वितीय वर्ष	MAR-२४६	नभोवाणी या श्राव्य माध्यमाची वैशिष्ट्ये, कार्य आणि उपयुक्तता जाणून घेणे.	विद्यार्थ्यांनी नभोवाणी या श्राव्यमाध्यमाची वैशिष्ट्ये, कार्य
कला	MIL श्राव्य माध्यमासाठी		आणि उपयुक्तता समजून घेतली.
सत्र-IV	लेखन व संवाद	नभोवाणी माध्यमासाठी करावयाच्या भाषण, लेखन आणि सरकारी व खाजगी	विद्यार्थ्यांनी नभोवाणी माध्यमासाठी करावयाच्या भाषण,
		नभोवाणी माध्यमासाठी करावयाच्या निवेदनाचे स्वरुप व तंत्र आत्मसात	लेखन, श्रृतीकालेखन आणि सरकारी व खाजगी नभोवाणी
		करणे.	माध्यमासाठी करावयाच्या निवेदनाचे स्वरुप व तंत्र
			आत्मसात केले.

(तृतीय वर्ष कला उद्दिष्ट्ये आणि परिणाम)

वर्ग (सत्र)	विषय	उद्दिष्टे	परिणाम
तृतीय वर्ष	MAR-રૂ५१	नाटक या वाडमय प्रकारांचे स्वरुप जाणून घेणे.	विद्यार्थ्यांनी नाटक या वाडमय प्रकारांचे स्वरुप जाणून घेतले.
कला	वाङमय प्रकार : नाटक		विद्यार्थ्यांनी कथानक, व्यक्तिचित्रण, संघर्ष, संवाद आणि
सत्र-V	अधांतर (नाटक) - जयंत	कथानक, व्यक्तिचित्रण, संघर्ष, संवाद आणि भाषाशैली इ. नाटकाचे घटक	भाषाशैली इ. नाटकाचे घटक समजून घेतले.
	पवार	समजून घेणे.	विद्यार्थ्यांनी मराठी नाट्येइतिहासात रुढ असलेल्या पौराणिक,
		मराठी नाट्येइतिहासात रुढ असलेल्या पौराणिक, ऐतिहासिक, सामाजिक,	ऐतिहासिक, सामाजिक, ग्रामीण, दलित आणि स्त्रीवादी नाट्य
		ग्रामीण, दलित आणि स्त्रीवादी नाट्य प्रकारांचा परिचय करुन घेणे.	प्रकारांचा परिचय करुन घेतला.
			विद्यार्थ्यांनी सुखात्मिका, शोकात्मिका इ. नाट्य विशेषांचा परिचय
		सुखात्मिका, शोकात्मिका इ. नाट्य विशेषांचा परिचय करुन घेणे.	करुन घेतला.
तृतीय वर्ष	MAR-३६१	ललित गद्य या वाडमय प्रकारांचे स्वरुप आणि परंपरा समजून घेणे.	विद्यार्थ्यांनी ललित गद्य या वाडमय प्रकारांचे स्वरुप आणि
कला	वाङमय प्रकार : ललित		परंपरा समजून घेतले.
सत्र-VI	गद्य (साहित्य अकादमी	ललित गद्य या वाडमय प्रकारातील अनुभवांची मांडणी आणि अविष्कार	विद्यार्थ्यांनी ललित गद्य या वाङ्मय प्रकारातील अनुभवांची
	पुरस्कृत साहित्यिकाचे	पद्धती समजून घेणे.	मांडणी आणि अविष्कार पद्धती समजून घेतली.
	ानवडक लालत गद्य- <del>जंगपिक</del>	ललित गद्य लेखनातील अनुभवांची तरलता, संवेदना, घटना प्रसंगातील	विद्यार्थ्यांनी ललित गद्य लेखनातील अनुभवांची तरलता,
	सपादित)	भावात्म नाट्य आणि जीवनसंघर्षाचे स्वरुप समजून घेणे.	संवेदना, घटना प्रसंगातील भावात्म नाट्य आणि जीवनसंघर्षाचे
			स्वरुप समजून घेतले.
		साहित्य अकादमी पुरस्काराचे स्वरुप समजून घेणे आणि पुरस्कार प्राप्त	विद्यार्थ्यांनी साहित्य अकादमी पुरस्काराचे स्वरुप समजून घेतले
		साहित्यिकांचा स्थूल परिचय करुन देणे.	आणि पुरस्कार प्राप्त साहित्यिकांचा स्थूल परिचय करुन घेतला.
तृतीय वर्ष	MAR-३५२ (G३)	संपादन कौशल्यांचा परिचय आणि उपयोजन करुन घेणे.	विद्यार्थ्यांनी संपादन कोशल्यांचा परिचय करुन घेवून प्रत्यक्षात
कला	उपयोजित मराठी - पर्यायी		उपयोजन केले.
सत्र-V	संपादन कौशल्यांचा	ग्रंथवाचन आणि लेखनात संपादन कौशल्यांचा उपयोग करणे.	विद्यार्थ्यांनी ग्रंथवाचन आणि लेखनात संपादन कौशल्यांचा
	परिचय		उपयोग करुन घेतला.
		सूचीलेखन, प्रकल्पलेखन, स्मरणिका संपादन कौशल्याचे उपयोजन करणे.	विद्यार्थ्यांनी सूचीलेखन, प्रकल्पलेखन, स्मरणिका संपादन इ. चे
			लेखन केले.

तृतीय वर्ष	MAR-३६२	आधुनिक इलेक्ट्रॉनिक माध्यमांचा परिचय करुन घेणे आणि उपयोजनात्मक	विद्यार्थ्यांनी आधुनिक इलेक्ट्रॉनिक माध्यमांचा परिचय करुन
कला	स्वयंरोजगारासाठी लेखन	मराठी लेखनातून नोकरी, व्यवसायासाठी संधी शोधणे.	घेतला आणि उपयोजनात्मक मराठी लेखनातून नोकरी,
सत्र-VI	कौशल्य		व्यवसायासाठी संधी शोधण्याचा प्रयत्न केला.
तृतीय वर्ष	MAR-३५३ (S३)	१९२० ते १९६० या कालखंडातील वाडमयीन व सांस्कृतिक घटनांचा परिचय	विद्यार्थ्यांनी १९२० ते १९६० या कालखंडातील वाडमयीन व
कला	आधुनिक मराठी	करुन देणे.	सांस्कृतिक घटनांचा परिचय करुन घेतला.
सत्र-V	वाङमयाचा इतिहास	१९२० ते १९६० या कालखंडातील विविध वाडमय प्रकारांच्या वाटचालीचा व	विद्यार्थ्यांनी १९२० ते १९६० या कालखंडातील विविध वाडमय
	१९२० ते १९६० (कथा व	वाडमयीन साहित्यकृतींचा परिचय करुन देणे.	प्रकारांच्या वाटचालीचा व वाडमयीन साहित्यकृतींचा परिचय
	कादंबरी)		करुन घेतला.
		१९२० ते १९६० या कालखंडातील वाडमयीन विविध प्रवाहांचा परिचय करुन	विद्यार्थ्यांनी १९२० ते १९६० या कालखंडातील वाडमयीन विविध
		देणे.	प्रवाहांचा परिचय करुन घेतला.
		१९२० ते १९६० या कालखंडातील कथा, कादंबरी या वाडमयीन प्रकारातील	विद्यार्थ्यांनी १९२० ते १९६० या कालखंडातील कथा, कादंबरी या
		प्रमुख लेखक व त्यांचे वाडमयीन कार्य यांचा परिचय करुन देणे.	वाडमयीन प्रकारातील प्रमुख लेखक व त्यांचे वाडमयीन कार्य
			यांचा परिचय करुन घेतला.
तृतीय वर्ष	MAR-३६३	१९२० ते १९६० या कालखंडातील काव्या व नाटक या वाडमय प्रकारातील	विद्यार्थ्यांनी १९२० ते १९६० या कालखंडातील काव्या व नाटक
कला	आधुनिक मराठी	प्रमुख लेखक व त्यांचे वाडमयीन कार्य यांचा परिचय करुन देणे.	या वाडमय प्रकारातील प्रमुख लेखक व त्यांचे वाडमयीन कार्य
सत्र-VI	वाङमयाचा इतिहास		यांचा परिचय करुन घेतला.
	१९२० ते १९६० (कविता		
	व नाट्य वाडमय)		
तृतीय वर्ष	MAR-३५४ (S४)	भाषा स्वरुप व तिचे मानवी जीवनातील कार्य समजावून घेणे.	विद्यार्थ्यांनी भाषा स्वरुप व तिचे मानवी जीवनातील कार्य
कला	भाषा विज्ञान		समजावून घेतले.
सत्र-V		स्वप्न निर्मिती प्रक्रिया, वागेंद्रियाची रचना व कार्य, सवनिम संकल्पना, रुपिम	विद्यार्थ्यांनी स्वप्न निर्मिती प्रक्रिया, वागेंद्रियाची रचना व कार्य,
		संकल्पना, वाक्यविन्यास आणि अर्थविन्यास यांचे स्वरुप समजावून घेणे.	सवनिम संकल्पना, रुपिम संकल्पना, वाक्यविन्यास आणि
			अर्थविन्यास यांचे स्वरुप समजावून घेतले.
तृतीय वर्ष	MAR-३६४	मराठी पारंपारिक व्याकरणातील काही महत्त्वाच्या घटकांचा परिचय करुन	विद्यार्थ्यांनी मराठी पारंपारिक व्याकरणातील काही महत्त्वाच्या
कला	मराठी व्याकरण	घेणे.	घटकांचा परिचय करुन घेतला.
सत्र-VI		शब्दांच्या जाती, अर्थ व काळ, वाक्याचे प्रकार, अलंकार, अलंकाराचे प्रकार,	विद्यार्थ्यांनी शब्दांच्या जाती, अर्थ व काळ, वाक्याचे प्रकार,
		समास व त्याचे प्रकार, म्हणी व वाक्प्रचार यांचे स्वरुप समजून घेणे व	अलंकार, अलंकाराचे प्रकार, समास व त्याचे प्रकार, म्हणी व
		उपयोजन करणे.	वाक्प्रचार यांचे स्वरुप समजून घेतले व उपयोजन केले.

## (एम.ए. मराठी भाग-१ उद्दिष्ट्ये आणि परिणाम)

वर्ग (सत्र)	विषय	उद्दिष्टे	परिणाम
एम.ए. मराठी	MAR-१११	मध्ययुगीन मराठी वाड्मयाची ओळख करुन घेणे.	विद्यार्थ्यांनी मध्ययुगीन मराठी वाडमयाची ओळख करुन घेतली.
भाग-१	मराठी वाडमयाचा	भाषा आणि संस्कृतीच्या संदर्भात मध्ययुगीन वाडमयाचा अभ्यास करणे.	विद्यार्थ्यांनी भाषा आणि संस्कृतीच्या संदर्भात मध्ययुगीन वाडमयाचा
सत्र-I	इतिहास कालखंड प्रारंभ		अभ्यास केला.
	त इ.स.१६५०	मध्ययुगीन गद्य-पद्य वाडमय निर्मितीच्या प्रेरणा जाणून घेणे.	विद्यार्थ्यांनी मध्ययुगीन गद्य-पद्य वाडमय निर्मितीच्या प्रेरणा जाणून
			घेतल्या.
		मध्ययुगीन काळातील विविध राजवटींचा मराठी वाडमयावरील प्रभाव	विद्यार्थ्यांनी मध्ययुगीन काळातील विविध राजवटींचा मराठी
		आणि परिणामांचा अभ्यास करणे.	वाड्मयावरील प्रभाव आणि परिणामांचा अभ्यास केला.
एम.ए. मराठी	MAR-१२१	मध्ययुगातील विविध वाडमय प्रवाहांचा अभ्यास करणे.	विद्यार्थ्यांनी मध्ययुगातील विविध वाडमय प्रवाहांचा अभ्यास केला.
भाग-१	मराठी वाडमयाचा	सामाजिक, सांस्कृतिक आणि राजकीय घटकांचा वाडमय निर्मीतीच्या	विद्यार्थ्यांनी सामाजिक, सांस्कृतिक आणि राजकीय घटकांचा वाडमय
सत्र-II	इतिहास कालखंड इ.स.१६५० ते १८१८	संदर्भातील प्रेरणांचा अभ्यास करणे.	निर्मीतीच्या संदर्भातील प्रेरणांचा अभ्यास केला.
एम.ए. मराठी	MAR-११२	साहित्य आणि समीक्षा यांचे महत्त्व जाणून घेणे आणि वाडमयीन	विद्यार्थ्यांनी साहित्य आणि समीक्षा यांचे महत्त्व जाणून घेतले आणि
भाग-१	समीक्षा	मूल्यमापनाची दृष्टी विकसित करणे.	वाडमयीन मूल्यमापनाची दृष्टी विकसित झाली.
सत्र-I		समीक्षेविषयी योग्य ते समज निर्माण करणे आणि समीक्षेविषयी क्षमता	विद्यार्थ्यांमध्ये समीक्षेविषयी योग्य ते समज निर्माण करणे आणि
		वाढविणे.	समीक्षेविषयी क्षमता वाढीस लागली.
		साहित्य निर्मिती, साहित्याचे मूल्यमापन, संकल्पना समजून देणे. तसेच	विद्यार्थ्यांनी साहित्य निर्मिती, साहित्याचे मूल्यमापन, संकल्पना समजून
		साहित्य समीक्षेविषयक जाण, दृष्टीकोन निर्माण करणे.	घेतली तसेच साहित्य समीक्षेविषयक जाण, दृष्टीकोन निर्माण झाला.
एम.ए. मराठी	MAR-१२२ संशोधन	संशोधन विषयक जाण वाढविणे आणि संशोधन प्रक्रिया समजून देणे.	विद्यार्थ्यांना संशोधन विषयक जाण निर्माण झाली आणि संशोधन
भाग-१			प्रक्रिया समजून घेतली.
सत्र-II		संशोधन लेखन/मांडणी लक्षात आणून देणे.	विद्यार्थ्यांनी संशोधन लेखन/मांडणी समजून घेतली आणि
		साहित्यात संशोधनाचे महत्त्व जाणून घेणे.	साहित्यात संशोधनाचे महत्त्व जाणून घेतले.

एम.ए. मराठी	MAR-११३ :	स्वातंत्र्यपूर्व काळातील वाडमयीन जाणिवांचा अभ्यास करणे आणि कवी,	विद्यार्थ्यांनी स्वातंत्र्यपूर्व काळातील वाङमयीन जाणिवा आणि
भाग-१	साहित्यकृतीचा अभ्यास	नाटककार यांच्या कलाकृतीवर पडलेला परिस्थितीजन्य प्रभाव तपासणे.	कवी, नाटककार यांच्या कलाकृतीवर पडलेला परिस्थितीजन्य
सत्र-।	केशवसुतांची कविता		प्रभाव अभ्यासला.
	(काव्य) - केशवसुत	साहित्यिकांच्या साहित्यकृतीतून सामाजिक वाडमयीन प्रेरणांचा शोध घेणे.	विद्यार्थ्यांनी साहित्यिकांच्या साहित्यकृतीतून सामाजिक,
			वाडमयीन प्रेरणांचा शोध घेतला.
		साहित्यिकाचे वाडमयीन योगदान आणि साहित्यकृतीतून होणारा	विद्यार्थ्यांनी साहित्यिकाचे वाडमयीन योगदान आणि
		जीवनमूल्यांचा परिचय अभ्यासणे.	साहित्यकृतीतून जीवनमूल्यांचा परिचय करुन घेतला.
एम.ए. मराठी	MAR-१२३	कादंबरीकार / कथाकार यांच्या कलाकृतीवर पडलेला परिस्थितीजन्य प्रभाव	विद्यार्थ्यांनी कादंबरीकार / कथाकार यांच्या कलाकृतीवर
भाग-१	साहित्यकृतीचा अभ्यास	तपासणे.	पडलेला परिस्थितीजन्य प्रभाव अभ्यासला.
सत्र-II	ब-बळीचा (कादंबरी) -	साहित्यिकाच्या साहित्यकृतीतून सामाजिक, वाडमयीन प्रेरणांचा शोध घेणे.	विद्यार्थ्यांनी साहित्यिकाच्या साहित्यकृतीतून सामाजिक,
	राजन गवस		वाडमयीन प्रेरणांचा शोध घेतला.
	इडा पीडा टळो (कथा) -	साहित्यिकाचे वाडमयीन योगदान आणि साहित्यकृतीतून होणारा	विद्यार्थ्यांनी साहित्यिकाचे वाङमयीन योगदान आणि
	आसाराम लोमटे	जीवनमूल्यांचा परिचय अभ्यासणे.	साहित्यकृतीतून होणारा जीवनमूल्यांचा परिचय करुन घेतला.
एम.ए. मराठी	MAR- የየ४ (A) :	मराठी साहित्यातील नव प्रवाहांचा परिचय करुन देणे आणि स्त्रीवाद या	विद्यार्थ्यांनी मराठी साहित्यातील नव प्रवाहांचा परिचय करुन
भाग-१	स्त्रीवादी साहित्य	वाङ्मयीन प्रवाहाच्या प्रेरणा व प्रवृत्ती यांचा अभ्यास करणे.	घेतला आणि स्त्रीवाद या वाडमयीन प्रवाहाच्या प्रेरणा व प्रवृत्ती
सत्र-।			अभ्यासल्या.
		स्त्रीवादी वाडमयीन प्रवाहाचे वेगळेपणे लक्षात आणून देणे.	विद्यार्थ्यांनी स्त्रीवादी वाङमयीन प्रवाहाचे वेगळेपणे समजून
			घेतले.
		मराठीतील स्त्रीवादी साहित्य कलाकृतींचा अभ्यास करणे व स्त्रीवादी	विद्यार्थ्यांनी मराठीतील स्त्रीवादी साहित्य कलाकृतींचा
		जाणीवांचे स्वरुप परिचित करुन देणे.	अभ्यासला आणि स्त्रीवादी जाणीवांचे स्वरुप समजून घेतले.
एम.ए. मराठी	MAR-१२४ (A) :	मराठी साहित्यातील नव प्रवाहांचा परिचय करुन देणे आणि स्त्रीवाद या	विद्यार्थ्यांनी मराठी साहित्यातील नव प्रवाहांचा परिचय करुन
भाग-१	स्त्रीवादी साहित्य	वाङ्मयीन प्रवाहाच्या प्रेरणा व प्रवृत्ती यांचा अभ्यास करणे.	घेतला आणि स्त्रीवाद या वाडमयीन प्रवाहाच्या प्रेरणा व प्रवृत्ती
सत्र-II			अभ्यासल्या.
		स्त्रीवादी वाडमयीन प्रवाहाचे वेगळेपणे लक्षात आणून देणे.	विद्यार्थ्यांनी स्त्रीवादी वाङमयीन प्रवाहाचे वेगळेपणे समजून
			घेतले.
		मराठीतील स्त्रीवादी साहित्य कलाकृतींचा अभ्यास करणे व स्त्रीवादी	विद्यार्थ्यांनी स्त्रीवादी साहित्य कलाकृतींचा अभ्यासला आणि
		जाणीवांचे स्वरुप परिचित करुन देणे.	स्त्रीवादी जाणीवांचे स्वरुप समजून घेतले.

## (एम.ए. मराठी भाग-२ उद्दिष्ट्ये आणि परिणाम)

वर्ग (सत्र)	विषय	उद्दिष्टे	परिणाम
एम.ए. मराठी	MAR-२४१ : स्वातंत्रोत्तर	स्वातंत्रोत्तर कालखंडातील दलित, आदिवासी, भटके विमुक्त व मुस्लिम या	विद्यार्थ्यांनी स्वातंत्रोत्तर कालखंडातील दलित, आदिवासी, भटके
भाग-२	कालखंडातील	साहित्यप्रवाहांचे स्वरुप जाणून घेवून त्यांच्या वैशिष्ट्यांचा शोध घेणे.	विमुक्त व मुस्लिम या साहित्यप्रवाहांचे स्वरुप जाणून घेतले आणि
सत्र-IV	साहित्यप्रवाह		वैशिष्ट्यांचा अभ्यास केला.
		स्वातंत्रोत्तर कालखंडातील दलित, आदिवासी, भटके विमुक्त व मुस्लिम या	विद्यार्थ्यांनी स्वातंत्रोत्तर कालखंडातील दलित, आदिवासी, भटके
		साहित्यप्रवाहांची विविध वाडमयीन प्रकारातील वाटचाल जाणून घेणे.	विमुक्त व मुस्लिम या साहित्यप्रवाहांची विविध वाङमयीन
			प्रकारातील वाटचाल समजून घेतली.
		स्वातंत्रोत्तर कालखंडातील दलित, आदिवासी, भटके विमुक्त व मुस्लिम या	विद्यार्थ्यांनी स्वातंत्रोत्तर कालखंडातील दलित, आदिवासी, भटके
		साहित्यप्रवाहांच्या प्रातिनिधिक साहित्यकृतींचा अभ्यास करणे.	विमुक्त व मुस्लिम या साहित्यप्रवाहांच्या प्रातिनिधिक साहित्यकृती
			अभ्यासल्या.
एम.ए. मराठी	MAR-२३१ : स्वातंत्रोत्तर	साहित्य प्रवाहाची संकल्पना, साहित्यप्रवाहांच्या उद्यामागील सामाजिक,	विद्यार्थ्यांनी साहित्यप्रवाहाची संकल्पना, साहित्यप्रवाहांच्या
भाग-२	कालखंडातील	सांस्कृतिक व वाडमयीन पार्श्वभूमी समजून घेणे.	उद्यामागील सामाजिक, सांस्कृतिक व वाडमयीन पार्श्वभूमी
सत्र-III	साहित्यप्रवाह		समजून घेतली.
		स्वातंत्रोत्तर कालखंडातील नवसाहित्य, ग्रामीण व महानगरीय या साहित्य	विद्यार्थ्यांनी स्वातंत्रोत्तर कालखंडातील नवसाहित्य, ग्रामीण व
		प्रवाहाचे स्वरुप व वैशिष्ट्ये जाणून घेणे.	महानगरीय या साहित्य प्रवाहाचे स्वरुप व वैशिष्ट्ये समजून
			घेतले.
		स्वातंत्रोत्तर कालखंडातील नवसाहित्य, ग्रामीण व महानगरीय या	विद्यार्थ्यांनी स्वातंत्रोत्तर कालखंडातील नवसाहित्य, ग्रामीण व
		साहित्यप्रवाहांची विविध वाडमय प्रकारातील वाटचाल जाणून घेणे.	महानगरीय या साहित्यप्रवाहांची विविध वाडमय प्रकारातील
			वाटचाल समजून घेतली.
		स्वातंत्रोत्तर कालखंडातील नवसाहित्य, ग्रामीण व महानगरीय या	विद्यार्थ्यांनी स्वातंत्रोत्तर कालखंडातील नवसाहित्य, ग्रामीण व
		साहित्यप्रवाहांच्या प्रातिनिधीक साहित्यकृतींचा अभ्यास करणे.	महानगरीय या साहित्यप्रवाहांच्या प्रातिनिधीक साहित्यकृती
			अभ्यासल्या.

एम.ए. मराठी	MAR-२३२ : वर्णनात्मक	पाश्चात्य भाषा वैज्ञानिकांनी मांडलेल्या प्रमुख सिद्धांताचा परिचय करुन घेणे.	विद्यार्थ्यांनी पाश्चात्य भाषा वैज्ञानिकांनी मांडलेल्या प्रमुख
भाग-२	भाषाविज्ञान		सिद्धांताचा परिचय करुन घेतला.
सत्र-III		स्वनिमविचाराचे स्वरुप जाणून घेवून मराठीच्या स्वनिमव्यवस्थेची मांडणी	विद्यार्थ्यांनी स्वनिमविचाराचे स्वरुप समजून घेवून मराठीच्या
		करणे.	स्वनिमव्यवस्थेची मांडणी केली.
		रुपिमविचार, वाक्यविचार व अर्थविचाराचे स्वरुप जाणून घेणे.	विद्यार्थ्यांनी रुपिमविचार, वाक्यविचार व अर्थविचाराचे स्वरुप
			समजून घेतले.
एम.ए. मराठी	MAR-२४२ :	समाजभाषा विज्ञानाचे स्वरुप, अभ्यासक्षेत्राची व्याप्ती आणि समाजभाषा	विद्यार्थ्यांनी समाजभाषा विज्ञानाचे स्वरुप, अभ्यासक्षेत्राची व्याप्ती
भाग-२	समाजभाषा विज्ञान	विज्ञानातील पायाभूत संकल्पना समजून घेणे.	आणि समाजभाषा विज्ञानातील पायाभूत संकल्पना समजून
सत्र-IV			घेतल्या.
		भाषा, समाज व संस्कृती यांतील परस्परसंबंध जाणून घेऊन त्यानुसार	विद्यार्थ्यांनी भाषा, समाज व संस्कृती यांतील परस्परसंबंध जाणून
		भाषेतील स्तरभेदांचे स्वरुप लक्षात घेणे.	घेऊन त्यानुसार भाषेतील स्तरभेदांचे स्वरुप लक्षात घेतले.
		बोलींच्या अभ्यासाने भाषाज्ञानिक महत्त्व आणि खानदेशातील निवडक	विद्यार्थ्यांनी बोलींच्या अभ्यासाचे भाषाज्ञानिक महत्त्व आणि
		बोलींची समाजभाषा विज्ञानाच्या अंगाने जाणवणारी वैशिष्ट्ये लक्षात घेणे.	खानदेशातील निवडक बोलींची समाजभाषा विज्ञानाच्या अंगाने
			जाणवणारी वैशिष्ट्ये समजून घेतली.
एम.ए. मराठी	MAR-२३३ : मध्ययुगीन	मध्ययुगीन कालखंडातील पद्य वाडमयातील वैविध्यपूर्ण रचनाप्रकारांचा	विद्यार्थ्यांनी मध्ययुगीन कालखंडातील पद्य वाड्मयातील
भाग-२	पद्यरचना-प्रकारांचा	अभ्यास करणे आणि प्रमुख पद्य रचनाप्रकारांचे स्वरुप जाणून घेवून त्यांचा	वैविध्यपूर्ण रचनाप्रकार अभ्यासले आणि प्रमुख पद्य रचनाप्रकारांचे
सत्र-III	अभ्यास (अभग आणि	परिचय करुन घेणे.	स्वरुप जाणून घेवून त्यांचा परिचय करुन घेतला.
	મારુડ)	मध्ययुगीन कालखंडातील अभंग या रचनाप्रकाराचे स्वरुपविशेष जाणून घेवून	विद्यार्थ्यांनी मध्ययुगीन कालखंडातील अभंग या रचनाप्रकाराचे
		प्रातिनिधिक अभंगरचनांच्या अनुषंगाने अभंग या रचनाप्रकाराचा अभ्यास	स्वरुपविशेष जाणून घेवून प्रातिनिधिक अभंगरचनांच्या अनुषंगाने
		करणे.	अभंग या रचनाप्रकाराचा अभ्यास केला.
		मध्ययुगीन कालखंडातील भारुड या पद्य रचनाप्रकाराचे स्वरुपविशेष जाणून	विद्यार्थ्यांनी मध्ययुगीन कालखंडातील भारुड या पद्य रचना
		घेणे आणि प्रातिनिधिक भारुड रचनांच्या अनुषंगाने भारुड या रचनाप्रकारांचा	प्रकाराचे स्वरुपविशेष जाणून घेतले आणि प्रातिनिधिक भारुड
		अभ्यास करणे.	रचनांच्या अनुषंगाने भारुड या रचनाप्रकाराचा अभ्यास केला.

एम.ए. मराठी	MAR-२४३ : मध्ययुगीन	मध्ययुगीन कालखंडातील पद्य वाडमयातील वैविध्यपूर्ण रचनाप्रकारांचा	विद्यार्थ्यांनी मध्ययुगीन कालखंडातील पद्य वाडमयातील
भाग-२	पद्य रचनाप्रकारांचा	अभ्यास करणे व प्रमुख पद्य रचनाप्रकारांचे स्वरुप जाणून घेवून त्यांचा	वैविध्यपूर्ण रचनाप्रकारांचा अभ्यास करुन प्रमुख पद्य रचना
सत्र-IV	अभ्यास (आख्यानकाव्य	परिचय करुन घेणे.	प्रकारांचे स्वरुप समजून घेतले आणि परिचय करुन घेतला.
	आणि लावणा)	मध्ययुगीन कालखंडातील आख्यानकाव्य या पद्य रचनाप्रकाराचे स्वरुपविशेष	विद्यार्थ्यांनी मध्ययुगीन कालखंडातील आख्यानकाव्य या पद्य
		जाणून घेणे आणि प्रातिनिधिक आख्यानकाव्यांच्या अनुषंगाने आख्यानकाव्य	रचनाप्रकाराचे स्वरुपविशेष जाणून घेतले आणि प्रातिनिधिक
		या रचनाप्रकाराचा अभ्यास करणे.	आख्यानकाव्यांच्या अनुषंगाने आख्यानकाव्य या रचनाप्रकाराचा
			अभ्यास केला.
		मध्ययुगीन कालखंडातील लावणी या पद्य रचनाप्रकाराचे स्वरुपविशेष जाणून	विद्यार्थ्यांनी मध्ययुगीन कालखंडातील लावणी या पद्य रचना
		घेणे आणि प्रातिनिधिक लावणी रचनांच्या अनुषंगाने लावणी या	प्रकाराचे स्वरुपविशेष जाणून घेतले आणि प्रातिनिधिक लावणी
		रचनाप्रकाराचा अभ्यास करणे.	रचनांच्या अनुषंगाने लावणी या रचनाप्रकाराचा अभ्यास केला.
एम.ए. मराठी	MAR-२३४ (A) :	लोकसाहित्य - संकल्पना व स्वरुप समजून घेणे आणि लोकसाहित्य आणि	विद्यार्थ्यांनी लोकसाहित्याची संकल्पना व स्वरुप समजून घेतले व
भाग-२	लोकसाहित्य	अन्य ज्ञानशाखा यातील अनुबंध जाणून घेणे.	लोकसाहित्य आणि अन्य ज्ञानशाखा यातील अनुबंध समजून
सत्र-III			घेतला.
		लोकसाहित्याच्या विविध अभ्यासपद्धतींचे स्वरुप आणि लोकसाहित्याच्या	विद्यार्थ्यांनी लोकसाहित्याच्या विविध अभ्यासपद्धतींचे स्वरुप
		अभ्यासाची भारतीय परंपरा लक्षात घेणे.	आणि लोकसाहित्याच्या अभ्यासाची भारतीय परंपरा समजून
			घेतली.
		लोकसाहित्याच्या अभ्यासातील अडचणी जाणून घेणे आणि मराठी	विद्यार्थ्यांनी लोकसाहित्याच्या अभ्यासातील अडचणी जाणून
		लोकसाहित्याचा परिचय करुन घेणे.	घेतल्या आणि मराठी लोकसाहित्याचा परिचय करुन घेतला.
एम.ए. मराठी	MAR-२४४ (A) :	खानदेशातील लोकजीवन आणि लोकसाहित्य यांचे परस्परांशी असलेले	विद्यार्थ्यांनी खानदेशातील लोकजीवन आणि लोकसाहित्य यांचे
भाग-२	खानदेशातील	अनुबंध जाणून घेणे.	परस्परांशी असलेले अनुबंध जाणून घेतले.
सत्र-IV	लोकसाहित्य	खानदेशातील अहिराणी, लेवागण, गुजर या बोलीतील लोकगीते, लोककथा,	विद्यार्थ्यांनी खानदेशातील अहिराणी, लेवागण, गुजर या बोलीतील
		म्हणी, वाक्प्रचार, उखाणे यांचा परिचय करुन घेणे.	लोकगीते, लोककथा, म्हणी, वाक्प्रचार, उखाणे यांचा परिचय
			करुन घेतला.
		खानदेशातील लोकनाट्याचे (तमाशा, गोंधळ, वहीगायन) स्वरुप जाणून घेणे.	विद्यार्थ्यांनी खानदेशातील लोकनाट्याचे तमाशा, गोंधळ,
			वहीगायनाचे स्वरुप समजून घेतले.
		खानदेशातील आदिवासींच्या लोकगीते, लोककथा, लोकनाट्य इ.	विद्यार्थ्यांनी खानदेशातील आदिवासींच्या लोकगीते, लोककथा,
		लोकसाहित्याचे स्वरुप जाणून घेणे.	लोकनाट्य इ. लोकसाहित्याचे स्वरुप जाणून घेतले.

## (द्वितीय वर्ष विज्ञान उद्दिष्ट्ये आणि परिणाम)

वर्ग (सत्र)	विषय	उद्दिष्टे	परिणाम
द्वितीय वर्ष	AECC-१ :	विज्ञान कथा या कथाप्रकाराचा परिचय करुन देणे.	विद्यार्थ्यांनी विज्ञान कथा या कथाप्रकाराचा परिचय करुन घेतला.
विज्ञान	विज्ञान कथा आणि नोंद	विज्ञानाच्या क्षेत्रातील विविध विषयांबाबत मराठीतून लेखन करण्यास	विद्यार्थ्यांनी विज्ञानाच्या क्षेत्रातील विविध विषयांबाबत मराठीतून
सत्र-III	लेखन	प्रोत्साहित करणे.	लेखन कसे करावे हे समजून घेतले.
		वैज्ञानिक संज्ञा-संकल्पनांबाबत विज्ञान कोशासाठी नोंद लेखन करण्याचे	विद्यार्थ्यांनी वैज्ञानिक संज्ञा-संकल्पनांबाबत विज्ञान कोशासाठी नोंद
		तंत्र आत्मसात करणे.	लेखन करण्याचे तंत्र आत्मसात केले.
द्वितीय वर्ष	AECC-R :	विनोदी कथा या कथा प्रकाराचा परिचय करुन देणे.	विद्यार्थ्यांनी विनोदी कथा या कथा प्रकाराचा परिचय करुन घेतला.
विज्ञान	विनोदी कथा आणि	विज्ञानाच्या क्षेत्रातील विविध विषयांवर लोकोपयोगी लेखन करण्याचे	विद्यार्थ्यांनी विज्ञानाच्या क्षेत्रातील विविध विषयांवर लोकोपयोगी
सत्र-IV	विज्ञानपर लेखन	कौशल्य जाणून घेणे.	लेखन करण्याचे कौशल्य समजून घेतले.
		वैज्ञानिक दृष्टीकोन विकसित करण्यास सहाय्यभूत ठरणे.	विद्यार्थ्यांमध्ये वैज्ञानिक दृष्टीकोन विकसित झाला.

## (प्रथम वर्ष विज्ञान उद्दिष्ट्ये आणि परिणाम)

वर्ग (सत्र)	विषय	उद्दिष्टे	परिणाम
प्रथम वर्ष	AEC-(B) :	`माणदेशी माणसं` या कथासंग्रहातील कथांची कथानक, व्यक्तिचित्रण व	विद्यार्थ्यांनी `माणदेशी माणसं` या कथासंग्रहातील कथांची
विज्ञान	मराठी कथा आणि संवाद	प्रसंगवर्णन या अंगांनी जाणवणारी वैशिष्ट्ये लक्षात घेणे.	कथानक, व्यक्तिचित्रण व प्रसंगवर्णन या अंगांनी जाणवणारी
सत्र-I	कौशल्ये यांचा अभ्यास		वैशिष्ट्ये समजून घेतली.
		`माणदेशी माणसं` या कथासंग्रहातील कथांची संघर्ष, निवेदन व भाषा या	विद्यार्थ्यांनी `माणदेशी माणसं` या कथासंग्रहातील कथांची संघर्ष,
		अंगांनी जाणवणारी वैशिष्ट्ये लक्षात घेणे.	निवेदन व भाषा या अंगांनी जाणवणारी वैशिष्ट्ये समजून घेतली.
		संवादाच्या औपचारीक व अनौपचारिक प्रकारांचा परिचय करुन देणे.	विद्यार्थ्यांनी संवादाच्या औपचारीक व अनौपचारिक प्रकारांचा
			परिचय करुन घेतला.
		भाषण, सादरीकरण, वादविवाद, सूत्रसंचालन, गटचर्चा या संवाद	विद्यार्थ्यांनी भाषण, सादरीकरण, वादविवाद, सूत्रसंचालन, गटचर्चा
		कौशल्यांचे स्वरुप स्पष्ट करुन त्यांचे उपयोजन करण्यास शिकविणे.	या संवाद कौशल्यांचे स्वरुप समजून घेतले आणि त्यांचे उपयोजन
			केले.

Department of English. Course objectives and Outcomes

#### F.Y.B.A.

Paper	Objectives	Outcome
CBCS-Core Course: DSC-I A&B (Discipline Specific Course) -Optional English Reading Literature: Short Stories and Poems	To introduce the students with the idea of English literature To acquaint the students with the broader genres of literature in general To acquaint the students with the particular genres of literature- short story and poem To develop understanding of	The course will introduce the basic forms of literature to the students. The course will develop the liking of reading in the students. The course will inspire students to develop their creative ability. Consequently, the course
	literature and reading skill of the students through literature	will develop reading skill and creative and expressive ability of the students.
English	To introduce the students with the idea of English literature To acquaint the students with the broader genres of literature in general To acquaint the students with the particular genres of literature- short story and poem To develop understanding of literature and reading skill of the students through literature	The course will introduce the basic forms of literature to the students. The course will develop the liking of reading in the students. The course will inspire students to develop their creative ability. Consequently, the course will develop reading skill and creative and expressive ability of the students.

#### **S.Y. B.A.**

CBCS Compulsory	To introduce the students with	The papers framed for this
English	the idea of English literature	course are in accordance
	To acquaint the students with	with the norms of CBCS

the broader genres of literature	pattern
in general	Discipline specific papers
To acquaint the students with	will acquaint the students
the particular genres of	with the rich legacy of
literature- short story and	English Literature and the
noem	contribution of legendary
To develop understanding of	writers to the development
literature and reading skill of	of English Literature
the students through literations	The new end of shell and
the students through interature	The papers of skill and
	ability enhancement are
	framed not only to orient
	the students the use of
	language but how to use
	the language creatively
	and professionally.
	The paper of Project
	writing will inculcate the
	skills of explanation,
	interpretation and
	visualization in the
	students.
	The Paper of Compulsory
	English is specifically
	framed from the viewpoint
	of value advection which
	is the basis of quality life
	Is the basis of quanty file.
	Selection of contents in all
	the courses will help the
	students to comprehend
	the worldly wisdom and
	commercial perception
	which will ultimately lead
	them to be successful and
	enjoy quality life.
	The special papers will
	open up traditional job
	opportunities for the
	students but the papers of
	skill and ability
	enhancement will open up
	corporate govt and
	private sectors for the
	students of English
	Students of Elightish

		literature
DSE 1 A and B (Equivalent to S-I) 16th and 17th Century English Literature	To acquaint the students with the major literary trends and tendencies and prominent writers of the 16th and 17th Century English Literature. To make the students aware about the literary history, salient features and sociocultural background of the period. To help the students to grasp the content and critically appreciate the prescribed texts. To inculcate amongst students a liking for the Elizabethan and Post Shakespearean literature.	The papers framed for this course are in accordance with the norms of CBCS pattern Discipline specific papers will acquaint the students with the rich legacy of English Literature and the contribution of legendary writers to the development of English Literature. The papers of skill and ability enhancement are framed not only to orient the students the use of language but how to use the language creatively and professionally. The paper of Project writing will inculcate the skills of explanation, interpretation and visualization in the students. The Paper of Compulsory English is specifically framed from the viewpoint of value education which is the basis of quality life. Selection of contents in all the courses will help the students to comprehend the worldly wisdom and commercial perception which will ultimately lead them to be successful and enjoy quality life. The special papers will open up traditional job opportunities for the students but the papers of
		stadento out the papero of

		skill and ability
		enhancement will open up
		corporate, govt. and
		private sectors for the
		students of English
		literature
DSE 2A and B	To impart basic ideas about the	The papers framed for this
(equivalent to Special	18th and 10th Century English	course are in accordance
Depar II) 18th and 10th	Literature with special	with the norms of CBCS
Contury English	reference to Postry and Novel	nottorn
Literatura	To make the students sware	Dissipling specific popers
Literature	To make the students aware	Discipline specific papers
	about the interary history,	will acquaint the students
	salient features, sociopolitical	with the rich legacy of
	and cultural background of the	English Literature and the
	Romantic and Victorian age.	contribution of legendary
	To help the students to grasp	writers to the development
	the content and critically	of English Literature.
	appreciate the prescribed	The papers of skill and
	Texts.	ability enhancement are
	To inculcate amongst students	framed not only to orient
	a liking for the Romantic and	the students the use of
	Victorian literature.	language but how to use
		the language creatively
		and professionally.
		The paper of Project
		writing will inculcate the
		skills of explanation,
		interpretation and
		visualization in the
		students
		The Paper of Compulsory
		English is specifically
		framed from the viewpoint
		of value education which
		is the basis of quality life
		Selection of contents in all
		the courses will help the
		atudente te comprehend
		students to comprehend
		the worldly wisdom and
		commercial perception
		which will ultimately lead
		them to be successful and
		enjoy quality life.

		The special papers will
		open up traditional job
		opportunities for the
		students but the papers of
		skill and ability
		enhancement will open up
		corrected govt and
		responde, govi. and
		private sectors for the
		students of English
		literature
DSC I C (equivalent to	To develop the interest of	The papers framed for this
Sp. English -General	students in	course are in accordance
Paper II) The Study of	reading/understanding novel	with the norms of CBCS
Novel and Drama	and drama.	pattern
	To acquaint students with	Discipline specific papers
	Novel and Drama as genres of	will acquaint the students
	literature.	with the rich legacy of
	To develop students'	English Literature and the
	competence to study,	contribution of legendary
	understand, analyse and	writers to the development
	interpret novel and drama	of English Literature
	To introduce students with the	The papers of skill and
	key terms useful in the study	ability enhancement are
	of novel and drama	framed not only to orient
	To oright students with major	the students the use of
	tures of neural and drame	language but how to use
	types of nover and drama.	the language but now to use
		the language creatively
		and professionally.
		The paper of Project
		writing will inculcate the
		skills of explanation,
		interpretation and
		visualization in the
		students.
		The Paper of Compulsory
		English is specifically
		framed from the viewpoint
		of value education which
		is the basis of quality life
		Selection of contents in all
		the courses will belo the
		students to comprehend
		the worldly wisdom and
		me worldly wisdom and

		commercial perception which will ultimately lead them to be successful and enjoy quality life. The special papers will open up traditional job opportunities for the students but the papers of skill and ability enhancement will open up corporate, govt. and private sectors for the students of English literature
Skill Enhancement Course (SEC) SEC- I&II English for Competitive Examinations	To enable students to prepare for the competitive exams of various kinds especially meant for testing ability in English language. To introduce students with the common question types asked in competitive examinations concerning English- grammar, vocabulary, comprehension, and other significant topics. To encourage students to appear and prepare for the competitive exams. To help the students to overcome the fear about English as a compulsory subject in various competitive exams.	The papers framed for this course are in accordance with the norms of CBCS pattern Discipline specific papers will acquaint the students with the rich legacy of English Literature and the contribution of legendary writers to the development of English Literature. The papers of skill and ability enhancement are framed not only to orient the students the use of language but how to use the language creatively and professionally. The paper of Project writing will inculcate the skills of explanation, interpretation and visualization in the students. The Paper of Compulsory English is specifically framed from the viewpoint of value education which is the basis of quality life.

	Selection of contents in all
	the courses will help the
	students to comprehend
	the worldly wisdom and
	commercial perception
	which will ultimately lead
	them to be successful and
	enjoy quality life.
	The special papers will
	open up traditional job
	opportunities for the
	students but the papers of
	skill and ability
	enhancement will open up
	corporate, govt. and
	private sectors for the
	students of English
	literature

#### **T.Y.B.A.**

Ability Enhancement	To enable students to prepare	The papers framed for this
Course- AEC	for the competitive exams of	course are in accordance
(Equivalent to previous	various kinds especially meant	with the norms of CBCS
Compulsory English)	for testing ability in English	pattern
	language.	Discipline specific papers
	To introduce students with the	will acquaint the students
	common question types asked	with the rich legacy of
	in competitive examinations	English Literature and the
	concerning English- grammar,	contribution of legendary
	vocabulary, comprehension,	writers to the development
	and other significant topics.	of English Literature.
	To encourage students to	The papers of skill and
	appear and prepare for the	ability enhancement are
	competitive exams.	framed not only to orient
	To help the students to	the students the use of
	overcome the fear about	language but how to use
	English as a compulsory	the language creatively
	subject in various competitive	and professionally.
	exams.	The paper of Project
		writing will inculcate the
		skills of explanation,

		interpretation and
		visualization in the
		students
		The Depen of Compulsory
		The Paper of Compulsory
		English is specifically
		framed from the viewpoint
		of value education which
		is the basis of quality life.
		Selection of contents in all
		the courses will help the
		students to comprehend
		the worldly wisdom and
		commercial perception
		which will ultimately lead
		them to be successful and
		enjoy quality life.
		The special papers will
		open up traditional job
		opportunities for the
		students but the papers of
		skill and ability
		enhancement will open up
		corporate, govt. and
		private sectors for the
		students of English
		literature
$DSE_3_A \& B$	To enable students to prepare	The papers framed for this
(Equivalent to previous	for the competitive example	course are in accordance
(Equivalent to previous S 3) 20 <sup>th</sup> Century	various kinds especially meant	with the norms of CBCS
English Literature	for testing ability in English	nottorn
		Dissipling specific papers
	Ta introduce students suid, the	Discipline specific papers
	To introduce students with the	will acquaint the students
	common question types asked	with the rich legacy of
	in competitive examinations	English Literature and the
	concerning English- grammar,	contribution of legendary
	vocabulary, comprehension,	writers to the development
	and other significant topics.	of English Literature.
	To encourage students to	The papers of skill and
	appear and prepare for the	ability enhancement are
	competitive exams.	framed not only to orient
	To help the students to	the students the use of
	overcome the fear about	language but how to use
	English as a compulsory	the language creatively

	subject in various competitive	and professionally.
	exams.	The paper of Project
		writing will inculcate the
		skills of explanation,
		interpretation and
		visualization in the
		students.
		The Paper of Compulsory
		English is specifically
		framed from the viewpoint
		of value education which
		is the basis of quality life
		Selection of contents in all
		the courses will help the
		students to comprehend
		the worldly wisdom and
		commercial perception
		which will ultimately lead
		them to be successful and
		enjoy quality life
		The special papers will
		open up traditional job
		opportunities for the
		students but the papers of
		students but the papers of
		skill and ability
		ennancement will open up
		corporate, govt. and
		private sectors for the
		students of English
		literature
DSE-4- A&B	To enable students to prepare	The papers framed for this
(Equivalent to previous	for the competitive exams of	course are in accordance
S-40	various kinds especially meant	with the norms of CBCS
Phonetics/Language	for testing ability in English	pattern
	language.	Discipline specific papers
	To introduce students with the	will acquaint the students
	common question types asked	with the rich legacy of
	in competitive examinations	English Literature and the
	concerning English- grammar,	contribution of legendary
	vocabulary, comprehension,	writers to the development
	and other significant topics.	of English Literature.
	To encourage students to	The papers of skill and
	appear and prepare for the	ability enhancement are

	competitive exams.	framed not only to orient
	To help the students to	the students the use of
	overcome the fear about	language but how to use
	English as a compulsory	the language creatively
	subject in various competitive	and professionally.
	exams.	The paper of Project
		writing will inculcate the
		skills of explanation,
		interpretation and
		visualization in the
		students.
		The Paper of Compulsory
		English is specifically
		framed from the viewpoint
		of value education which
		is the basis of quality life.
		Selection of contents in all
		the courses will help the
		students to comprehend
		the worldly wisdom and
		commercial perception
		which will ultimately lead
		them to be successful and
		enjoy quality life.
		The special papers will
		open up traditional job
		opportunities for the
		students but the papers of
		skill and ability
		enhancement will open up
		corporate, govt. and
		private sectors for the
		students of English
		literature
DSC-1- E&F	To enable students to prepare	The papers framed for this
(Equivalent to	for the competitive exams of	course are in accordance
previous- G-3) Indian	various kinds especially meant	with the norms of CBCS
Writing in English &	for testing ability in English	pattern
American Literature	language.	Discipline specific papers
	To introduce students with the	will acquaint the students
	common question types asked	with the rich legacy of
	in competitive examinations	English Literature and the
	concerning English- grammar,	contribution of legendary

	vocabulary, comprehension,	writers to the development
	and other significant topics.	of English Literature.
	To encourage students to	The papers of skill and
	appear and prepare for the	ability enhancement are
	competitive exams.	framed not only to orient
	To help the students to	the students the use of
	overcome the fear about	language but how to use
	English as a compulsory	the language creatively
	subject in various competitive	and professionally
	exams	The paper of Project
	cxams.	writing will inculcate the
		skills of exploration
		skins of explanation,
		interpretation and
		visualization in the
		students.
		The Paper of Compulsory
		English is specifically
		framed from the viewpoint
		of value education which
		is the basis of quality life.
		Selection of contents in all
		the courses will help the
		students to comprehend
		the worldly wisdom and
		commercial perception
		which will ultimately lead
		them to be successful and
		enjoy quality life.
		The special papers will
		open up traditional job
		opportunities for the
		students but the papers of
		skill and ability
		enhancement will open up
		corporate, govt. and
		private sectors for the
		students of English
		literature
SEC-3 Skill Based	To enable students to prepare	The papers framed for this
Paper English for	for the competitive exams of	course are in accordance
Practical Purpose	various kinds especially meant	with the norms of CBCS
	for testing ability in English	pattern
	language.	Discipline specific papers
	141124420.	Enserptine speetite pupers

To introduce students with the	will acquaint the students
common question types asked	with the rich legacy of
in competitive examinations	English Literature and the
concerning English- grammar,	contribution of legendary
vocabulary, comprehension.	writers to the development
and other significant topics.	of English Literature.
To encourage students to	The papers of skill and
appear and prepare for the	ability enhancement are
competitive exams	framed not only to orient
To help the students to	the students the use of
overcome the fear about	language but how to use
English as a compulsory	the language creatively
subject in various competitive	and professionally
exams	The paper of Project
cxams.	writing will inculeate the
	skills of explanation
	interpretation and
	visualization in the
	visualization in the
	The Depen of Compulsory
	English is specifically
	English is specifically
	framed from the viewpoint
	of value education which
	is the basis of quality life.
	Selection of contents in all
	the courses will help the
	students to comprehend
	the worldly wisdom and
	commercial perception
	which will ultimately lead
	them to be successful and
	enjoy quality life.
	The special papers will
	open up traditional job
	opportunities for the
	students but the papers of
	skill and ability
	enhancement will open up
	corporate, govt. and
	private sectors for the
	students of English
	1.4

GE- Interdisciplinary	To enable students to prepare	The papers framed for this
Paper	for the competitive exams of	course are in accordance
1-A&B- Translation	various kinds especially meant	with the norms of CBCS
2-A&B- Film &	for testing ability in English	pattern
Literature	language.	Discipline specific papers
	To introduce students with the	will acquaint the students
	common question types asked	with the rich legacy of
	in competitive examinations	English Literature and the
	concerning English- grammar,	contribution of legendary
	vocabulary, comprehension,	writers to the development
	and other significant topics.	of English Literature.
	To encourage students to	The papers of skill and
	appear and prepare for the	ability enhancement are
	competitive exams.	framed not only to orient
	To help the students to	the students the use of
	overcome the fear about	language but how to use
	English as a compulsory	the language creatively
	subject in various competitive	and professionally.
	exams.	The paper of Project
		writing will inculcate the
		skills of explanation,
		interpretation and
		visualization in the
		students.
		The Paper of Compulsory
		English is specifically
		framed from the viewpoint
		of value education which
		is the basis of quality life.
		Selection of contents in all
		the courses will help the
		students to comprehend
		the worldly wisdom and
		commercial perception
		which will ultimately lead
		them to be successful and
		enjoy quality life.
		The special papers will
		open up traditional job
		opportunities for the
		students but the papers of
		skill and ability
		enhancement will open up

corporate, govt. and private sectors for the students of English
literature

#### F.Y.B.Com

Core Elective – 101& 201 English for Business	To enable students to prepare for the competitive exams of various kinds especially meant for testing ability in English language. To introduce students with the common question types asked in competitive examinations concerning English- grammar, vocabulary, comprehension, and other significant topics. To encourage students to appear and prepare for the competitive exams. To help the students to overcome the fear about English as a compulsory subject in various competitive exams.	The papers framed for this course are in accordance with the norms of CBCS pattern Discipline specific papers will acquaint the students with the rich legacy of English Literature and the contribution of legendary writers to the development of English Literature. The papers of skill and ability enhancement are framed not only to orient the students the use of language but how to use the language creatively and professionally. The paper of Project writing will inculcate the skills of explanation, interpretation and visualization in the students. The Paper of Compulsory English is specifically framed from the viewpoint
		writing will inculcate the skills of explanation, interpretation and visualization in the students. The Paper of Compulsory English is specifically framed from the viewpoint of value education which is the basis of quality life. Selection of contents in all the courses will help the students to comprehend the worldly wisdom and commercial perception
		which will ultimately lead

ti	hem to be successful and
e	enjoy quality life.
Т	The special papers will
0	open up traditional job
0	opportunities for the
S	students but the papers of
S	kill and ability
e	enhancement will open up
с	corporate, govt. and
p	private sectors for the
S	students of English
1i	iterature

#### F.Y.B.Sc.

AFC-1&2 Additional	To enable students to prepare	The papers framed for this
Fnglish	for the competitive exams of	course are in accordance
Liigiisii	various kinds especially meant	with the norms of CBCS
	for testing ability in English	nottern
	language	Discipling specific papers
	To introduce students with the	Discipline specific papers
	To introduce students with the	will acquaint the students
	common question types asked	with the rich legacy of
	in competitive examinations	English Literature and the
	concerning English- grammar,	contribution of legendary
	vocabulary, comprehension,	writers to the development
	and other significant topics.	of English Literature.
	To encourage students to	The papers of skill and
	appear and prepare for the	ability enhancement are
	competitive exams.	framed not only to orient
	To help the students to	the students the use of
	overcome the fear about	language but how to use
	English as a compulsory	the language creatively
	subject in various competitive	and professionally.
	exams.	The paper of Project
		writing will inculcate the
		skills of explanation,
		interpretation and
		visualization in the
		students.
		The Paper of Compulsory
		English is specifically
		framed from the viewpoint

	of value education which
	is the basis of quality life.
	Selection of contents in all
	the courses will help the
	students to comprehend
	the worldly wisdom and
	commercial perception
	which will ultimately lead
	them to be successful and
	enjoy quality life.
	The special papers will
	open up traditional job
	opportunities for the
	students but the papers of
	skill and ability
	enhancement will open up
	corporate, govt. and
	private sectors for the
	students of English
	literature

#### S.Y.B.Sc.

Optional English	To enable students to prepare	The papers framed for this
Communicative	for the competitive exams of	course are in accordance
English	various kinds especially meant	with the norms of CBCS
	for testing ability in English	pattern
	language.	Discipline specific papers
	To introduce students with the	will acquaint the students
	common question types asked	with the rich legacy of
	in competitive examinations	English Literature and the
	concerning English- grammar,	contribution of legendary
	vocabulary, comprehension,	writers to the development
	and other significant topics.	of English Literature.
	To encourage students to	The papers of skill and
	appear and prepare for the	ability enhancement are
	competitive exams.	framed not only to orient
	To help the students to	the students the use of
	overcome the fear about	language but how to use
	English as a compulsory	the language creatively
	subject in various competitive	and professionally.
	exams.	The paper of Project

	writing will inculcate the
	skills of explanation,
	interpretation and
	visualization in the
	students.
	The Paper of Compulsory
	English is specifically
	framed from the viewpoint
	of value education which
	is the basis of quality life.
	Selection of contents in all
	the courses will help the
	students to comprehend
	the worldly wisdom and
	commercial perception
	which will ultimately lead
	them to be successful and
	enjoy quality life.
	The special papers will
	open up traditional job
	opportunities for the
	students but the papers of
	skill and ability
	enhancement will open up
	corporate, govt. and
	private sectors for the
	students of English
	literature

#### **M.A.-I**

CORE PAPER ENG	To acquaint the students with	After completing the
111 and ENG 121 AN	the nature of human language.	course the students have
INTRODUCTION TO	To introduce the students to	the following
LINGUISTICS	the developments in the field	opportunities
	of linguistics.	To get the jobs as High
	To familiarize the students	school, Jr. Colleges
	with the recent trends in	Teachers, Assistant
	linguistics.	Professors in Sr. college
	To make the students aware of	To prepare for competitive
	the relation of language to	examinations
	brain, society, machine and	To start their own

	law.	coaching classes	
	To develop amongst the	To get the jobs at various	
	students the stylistic	call centres	
	competence for analyzing	To get the jobs as the	
	literary texts.	translators.	
CORE PAPER ENG:	To acquaint the students with	After completing the	
112 & ENG: 122	the most significant English	course the students have	
ENGLISH POETRY	Poets through the study of the	the following	
	representative poems	opportunities	
	To enable the students to	To get the jobs as High	
	understand the different trends	school, Jr. Colleges	
	in English poetry	Teachers, Assistant	
	To acquaint the students with	Professors in Sr. college	
	different movements in	To prepare for competitive	
	English poetry	examinations	
	To train the students in the	To start their own	
	close reading of the poems	coaching classes	
	prescribed	To get the jobs at various	
	To enable the students to	call centres	
	compare and contrast the	To get the jobs as the	
	poems prescribed	translators.	
	To enable the students to		
	understand different thematic		
	patterns, poetic structures,		
	poetic devices and stylistic		
	peculiarities.		
	To develop among the students		
	the ability to interpret, analyze		
	and evaluate English poems in		
	the context of literary history		
	and theory of different		
	movements of poetry in		
	English		
ENG: 113 & ENG: 123	To introduce the students to a	After completing the	
ENGLISH DRAMA	wide range of theatrical	course the students have	
	practices around the world.	the following	
	To introduce the students to	opportunities	
	various genres of drama.	To get the jobs as High	
	To enable the learners to	school, Jr. Colleges	
	understand the elements of	Teachers, Assistant	
	drama and theatre.	Professors in Sr. college	
	To enable the students to get a	To prepare for competitive	
	historical perspective of	examinations	

	English Drama.	To start their own	
	To enable the students to	coaching classes	
	compare and contrast dramatic	To get the jobs at various	
	works illustrative of different	call centres	
	periods of literary history.	To get the jobs as the	
	To enable the students to learn	translators.	
	and develop English language		
	proficiency, both written and		
	spoken.		
OPTIONAL PAPER	To study various literary forms	After completing the	
ENG: 114(B) &	from different areas and	course the students have	
ENG:124(B)	cultures.	the following	
COMPARATIVE	To inculcate among students	opportunities	
LITERATURE	an appreciation of a plurality	To get the jobs as High	
	of literary thoughts and	school, Jr. Colleges	
	expressions to discover fresh	Teachers, Assistant	
	perspectives.	Professors in Sr. college	
	To help students update their	To prepare for competitive	
	knowledge and critical debates	examinations	
	within different forms of	To start their own	
	literature.	coaching classes	
		To get the jobs at various	
		call centres	
		To get the jobs as the	
		translators.	

#### M.A.-II

ENG 231 and 241	To introduce the students to a	After completing the	
Literary Theory and	wide range of critical methods,	course the students have	
Concepts	literary theories and concepts.	the following	
	To enable them to use the	opportunities	
	various critical approaches and	To get the jobs as High	
	advanced literary theories.	school, Jr. Colleges	
	To familiarize the learners	Teachers, Assistant	
	with the trends and cross-	Professors in Sr. college	
	disciplinary nature of literary	To prepare for competitive	
	theories.	examinations	
	To enable them to use various	To start their own	
	critical tools in the analysis of	coaching classes	
	literary and cultural texts.	To get the jobs at various	
		call centres	

		To get the jobs as the	
		translators.	
ENG 232 and 242 To acquaint the students with		After completing the	
English Novel the growth and development of		course the students have	
English novel.		the following	
To acquaint the students with		opportunities	
	the contribution of the	To get the jobs as High	
	novelists to the Genre.	school, Jr. Colleges	
	To enable the students to	Teachers, Assistant	
	understand the different	Professors in Sr. college	
	aspects of novel in different	To prepare for competitive	
	social and cultural contexts.	examinations	
	To make the students to	To start their own	
	understand the human values,	coaching classes	
	psyche and issues raised in the	To get the jobs at various	
	representative novels.	call centres	
	To familiarize the students	To get the jobs as the	
	with verities of English	translators.	
	through the reading of the		
	prescribed novels.		
ENG 233 and 243	To acquaint the students with	After completing the	
Basics of Research in	the term 'research'	course the students have	
English Language and	To introduce the students with	the following	
Literature	the basic elements of research	opportunities	
	in English language and	To get the jobs as High	
	English literature.	school, Jr. Colleges	
	To make the students familiar	Teachers, Assistant	
	with difference in the research	Professors in Sr. college	
	of English language and	To prepare for competitive	
	literature.	examinations	
	To acquaint the students with	To start their own	
	nature, aspects, types and areas	coaching classes	
	of research in English	To get the jobs at various	
	language and literature.	call centres	
	To acquaint the students with	To get the jobs as the	
	research questions, methods	translators.	
	and framing of outlines.		
Optional Paper ENG	To introduce the students to a	After completing the	
234 and 244 (A)	wide range of postcolonial	course the students have	
Postcolonial Literature	studies by acquainting with the	the following	
	complexities and diversity in	opportunities	
	the studies of location and	To get the jobs as High	
	culture.	school, Jr. Colleges	

To encourage the learners to	Teachers, Assistant
interrogate typical framework	Professors in Sr. college
of the literary canon,	To prepare for competitive
marginalization of literature of	examinations
nation state with a history of	To start their own
colonial rule.	coaching classes
To familiarize the learners	To get the jobs at various
with socio-cultural and	call centres
political expressions in literary	To get the jobs as the
narratives from postcolonial	translators.
perspective.	
To enable the learners to use	
various postcolonial	
approaches in the analysis of	
literary and cultural texts.	

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#### Shri G.R.Pandit Sci. (Nutan Maratha) College, Jalgaon

#### **DEPARTMENT OF HINDI**

Sr.	CLASS	PAPER NO.	PAPER TITLE	OBJECTIVES	LEARNING OUTCOME
No.					
1.	FYBA	CBCS-Core	सामान्य हिंदी- कथा	१ हिंदी भाषा एवम साहित्य की	१ छात्रोके चिंतन क्षितीज का विस्तार
		Course:-DSC	संचयन आधुनिक हिंदी	सम्यक जानकारी प्राप्त करना.	होगा.
		HIN A-1 A-2	काव्य प्रवाह	२ हिंदी भाषा एवंम साहित्य के	२ रचनात्मक शक्ती एवंम तेखन कता
				अतीत वर्तमान एवंम भविष्य	का विकास होगा
				कि पार्क करना.	३ भाषा की वेवहारीक उपयोगीताका
				३ भाषिक समृद्धी एवंम	ज्ञान प्राप्त होगा.
				अभिवेक्ती कौंशत्य के माध्यम	
				से वेक्तीत्व का संपूर्ण विकास	
				करना.	
				४ भाषिक संप्रेक्षण योग्यता	
				संवर्धन तथा कौंशल्य विकास	
				आत्मसाद करना.	
2.	SYBA	CBCS CORE-	लेखन कौंशत्य मिडिया	१ छात्रो को रचनात्मक लेखन	१ मिडिया लेख का अध्यन करते हुये
		MIL HIN I &	और साहित्य लघूकथा	के सेधान्तिकी से अवगत	छात्रो को पत्रकारीता का स्वरूप एवंम
		II	और गीत नवगीत.	कराना.	पत्रकारिता के प्रकरो से अवगत होंगे.
				२ अभिवेक्ती के विविध क्षेत्रोसे	
				छत्रो का परिचय कराना.	२ लाघुकाथावो का अध्यन करते हुए
				३ हिंदी लघुकथा के माध्यम से	छात्रो मे सूजन प्रक्रिया का विकास
				रचनात्मक लेखन कि सर्जन	होंगा.
				प्रक्रिया को दर्शाना.	
				४ गीत तथा नवगीत का	३ गीत तथा नवगीत का रचना प्रक्रिया
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				स्वरूप विवेचन करना.	র্ষ ভাস अবगत होगे.
2	SVDA	CPCS DSC (C)	क्रथेना जुडा विशासे थो।	·	
5.	SIDA	HIN-I & II	थोज हिंदी एक्तांकी	१ कथतार गद्य विधाआ का	१ कथतर गद्य विधाआं में निर्वध
				विकास मुक्त परिवर्ध प्रस्तुत	रारमरण रखावित्र, जावना, आतमफया, जिमोतार्ज यात्रातानिक व्यंक्य डायरी
				२ कथेत्तर गद्य विधाओं की	संबोधन, आदी विधावों से छात्रों का
				कालजयी राचनावो से छात्रो	परिचय होंगा.
				को परिचित करना.	
				३ एकांकी विधा का	२ एकंकियोका का अध्यन करते समय
				विकास्तमक परिचय कराना.	रंगमंच वेवस्था मंचन प्रक्रिया को
				४ एकाकीवों के माध्यम से	समजने में छत्रों को महत होगी.
				रगमचाय प्रभाव का विषद	
				ଦ୍ୟୁସା.	
4.	SYBA	DSE-IA& B.HIN	কান্য গাহিস	१ काव्य शास्त्र कासामन्य	१ काव्य की संस्कृत अंग्रेजी तथा हिंदी
				परिचय करना.	परीभाषाओं के अध्यन से छात्रो को
				२ काव्य की विविध विधावों का	स्वरूप समज आर्येगा.
				परांचय करना.	
				३ अलकारा का पारचय	२ विभिन्न अतकारा के अनंकारों का
				ଦ୍ୟୁସା.	स छात्रा का काव्य म अलकाश का स्थान निषित करने में माहरता
					मिलेगी.
6.	ТҮВА	MIL-III & IV	संपादन लेख और	१ छात्रो को सम्पादकीय कता	१ प्रस्तुत पाठ्यक्रम का अध्यन कर
		HINDI	साहित्य तथा हिंदी	से अवगत करना.	कुशल संपादक निर्माण में सहिता
			सिनेमा साहित्य	२ सम्पादक की योग्यता दैत्व	मिलेगी.
				और महत्त्व से परिचित करना.	२ साहित्य और सिनेमा के सबंध को
				३ छतां को हिंदीं सिनेमा के	समजन में सहायत्ता मिलेगी.

					इतिहास से अवगत कराना.	३ सिनिमा के तकनिकी पक्ष को
					४ सिनेमा और भारतीय	समजकर उस शेत्र में रोजगार के
					समाजा के संबंध का परिचय	अवसर प्राप्त करने की शमता विकसित
					देना.	होगी.
					७ साहित्य कृति पर आधरित	
					सिनेमसे परिचत कराना.	
7.	TYBA	DSC-E	& F(A)	विशेष विधा यात्रा	१ यात्रा साहित्य विधा के	१ प्रस्तुत पाठ्यक्रम का अध्यन कर
		HINDI	( )	साहित्य और भारतीय	सैधांतिक विवेचन से छात्रो को	छात्र इस विधा की और आकर्षित होंगे
				संत साहित्य.	अवगत करना.	और यात्रा विधा संपन्न होगी.
					२ यात्रा साहित्य का	
					विकासात्मक परिचय	२ भारतीय संतसाहित्य का अध्यन कर
					देना.	आदर्श समाज निर्माण में सहयता होगी.
					३ भारतीय संत काव्य का	
					परिचय करना.	
					४ भारतीय संतो के काव्य का	
					अध्यन करना.	
8.	TYBA	SEC III	& IV A	हिंदी व्याकरण तथा	१ हिंदी भाषा के मानक रूप से	१ प्रस्तुत कता का अध्ययन कर छात्रो
		HINDI		अभिव्यक्ति कौंशत्य	परिचय कराना.	में शुद्ध लेखन की कला विकसीतहोगी.
				तथा हिंदी भाषा का	२ शासकीय पत्र प्रारूप लेखन	२ सम्प्रेषण कला का विकास होगा.
				मानकी करन और	की क्षमता विकसित करना.	३ वकृत्व और वादविवाद कला का
				अशुद्धि शोधन.	३ छत्रो को हिंदी भाषा की	विकास होगा.
				-	व्याकरणिक संरचना से	
					अवगत करना.	
					४ सम्प्रेषण प्रक्रिया से अवगत	
					करना.	

9.	TYBA	DSE-III	Α	&	В	हिंदी	साहित्य	का	१ हिंदी साहित्य का परिचय	१ आदिकाल कवियों के काव्य का
		HINDI				इतिहार	Ħ		करना.	अध्यन करने से तत्कालीन सामजिक
									२ आदिकाल भक्तिकाल और	राजनैतिक एवं सांस्कृतिक परीस्थिति
									रीतिकालीन कवी और उनकी	की जानकारी प्राप्त होंगी.
									कान्यकृतियोकी जानकारी	२ आधुनिक काल की विभिन्न विधावो
									देना.	से परिचय होगा.
									३ आदिकाल भक्तिकाल और	
									रीतिकालीन विभिन्न प्रवृत्ति	
									पर प्रकाश डालना.	
									४ आधुनिकाल की विभिन्न	
									काव्यधरवो की जानकारी	
									देना.	
10.	TYBA	DSE- I	V A	& E	}	हिंदी भ	ाषा का वि	वेकास	१ भाषा कि परिभाषाए और के	१ भाषा विज्ञान का अध्यन करने से
						तथा भ	षा विज्ञानं	S-4	स्वरूप को स्पष्ट करना.	छात्रो को भाषा उच्चारण प्रक्रिया समज
									२ बोली तथा परिनिष्ठित भाषा	आयेगी.
									में अंतर को स्पष्ट करना.	२ राज भाषा तथा राष्ट्रभाषा का परिचय
									३ भाषा की उच्चारण प्रक्रिया	होंगा.
									को समजाना.	३ राष्ट्रभाषा आन्दोलन का अध्यन
									४ राष्ट्र भाषा आन्दोलन की	करने से विविध संस्थाए एवं वेक्तिवो की
									इतिहास की जानकारी देना.	योगदान की जानकारी मिलेगी.
11.	TYBA	GEI .	A	&	В	हिंदी र्व	ञे राष्टीय	काव्य	१ हिंदी के राष्टीय काव्य धारा	१ राष्टीय काव्य धारा का अध्यन कर
		HINDI				धारा त	ाथा खान्दे	श का	से परिचित करना.	छात्रो में राष्ट्र के प्रति आस्था
						लोक २	गहित्य.		२ भारतीय स्वतंत्रता आंदोलन	रुवाभिमान तथा गौरव के भाव जागृत
									में हिंदी की राष्ट्रिय काव्य धारा	होंगे.
									के योगदान को उजागर	२ छात्र तोक साहित्य के सैंधांतिक पक्ष
									करना.	से अवगत होंगे.
									३ खान्देश के लोक साहित्य	३ लोकसाहित्य के अध्ययन और

				और लोक संस्कृति से छात्रो	विश्लेषण करने से छात्रों में प्रादेशिक
				को अवगत कराना.	साहित्य के प्रती आस्था और अस्मिता
				४ छात्रो को खान्देश की प्रमुख	का भाव जागृत होगा.
				बोलिया अहिराणी, लेवा,तथा	
				आदिवासी बोलियो से परिचित	
				कराना.	
12.	FY.B.COM	Core Elective –	सामान्य हिंदी	देश के प्रसिद्ध उद्योगपतियो	प्रसिद्ध उद्योगपतियों का चरित्र पढ़कर
		101 & 201		का परिचय कराना.	छात्र उद्योग शेत्र और आकर्षित होंगे.
13	FYBSC	AEC-C Hindi	भाषिक संप्रेषण	हिंदी भाषा एवं साहित्य कि	१ रचनात्मक शक्ति एवं एखन कता
			और साहित्य.	सम्येक जानकारी प्राप्त करना.	का विकास होगा.
14	MA-I	CORE PAPER	आदिकालीन	१ हिंदी के प्रतिनिधि कविवो	१ तुलसीदास, सूरदास, कबीर, जायसी,
		HINDI 112 &	भक्तिकालीन	की कृतियों के अध्यन द्वोरा	भूषण, आदि. कविओके काव्य का
		HINDI 122	एवं	आदिकालीन भक्तिकलिम एवं	अध्यन करने से तत्कालीन सामजिक,
			रीतिकालीन	रिकालिन काव्य से परिचय	सांस्कृतिक, राजनैक्तिक, परिस्थियो से
			काव्य	प्राप्त करना.	छत्रो का परिचय होगा.
				२ आदिकालीन भक्तिकलिम	
				एवं रितीकालिन प्रमुख	
				काव्यप्रवृत्ति की जानकारी	
				प्राप्त करना.	
				३ वर्तमान परिप्रेक्ष में इन	
				कवीवो के महत्व से अवगत	
				होना.	
15.	MA-I	CORE PAPER	भारतीय एवं पाश्यात्य	१ भारतीय एवं पाश्यात्य	१ भारतीय काव्यशास्त्र के रस, ध्वनि,
		HINDI 0113 &	काव्य सिधान्त.	कान्य सिधान्तों का सामान्य	अलंकर, रीती, वक्रोक्ति तथा अवचित्य
		HINDI 0123		परिचय देना.	सिधान्तो से छात्रो का परिचय होगा.
				२ भारतीय एवं पाश्यात्य	२ पाश्यात्य काव्य के सिधान्तों में

				काव्य सिधान्तों का ज्ञान	अनुकरण विरेचन अभिवेंजनावाद
				देना.	मनोवेज्ञानिक मुल्यावाद, संप्रेक्षण आदि
					सिधान्तों का अध्यन करने से
					काव्यशास्त्र को विस्तार से समजा
					जायेगा.
16	MA-I	CORE PAPER	विशेष साहित्यकार	१ आदिवासी रचनाकारो का	१ कबीरदास के व्यक्तित्व और कृतित्व
		HINDI 0114 &	कबीरदास तथा	परिचय करना.	के अध्यन से तत्कालीन विविध
		HINDI 0124	आदिवासी विमर्श.	२ आदिवासी संस्कृति और	परिस्थिवो ज्ञान मिलेगा.
				समाज को समजना.	२ आदिवसी साहित्य कारो की रचनओ
				३ विशेष साहित्यकार के रूप	का आद्यां करने से आदिवासी संस्कृति
				में कबीरदास का अध्यन	को समजने में सहित मिलेगी.
				करना.	
				४ युगीन परिप्रेक्ष में कबीर	
				काव्य की प्रेरनाओं तथा	
				विशेषताओं का अध्यन करना.	
17.	MA-II	HIN- 0231 and	महाकाव्य-और	१ छातो को आधुनिक हिंदी	१ जयशंकर प्रसाद की रचना कामायनी
		0241	खंडकाव्य, कव्यनाटक	कान्य की प्रवृतियों से परिचित	और भवानी प्रसाद मिश्र की रचना
			और नई कवीता.	करना.	कालजयी का अध्यन करने से छात्रो में
				२ भारतीय संस्कृति के प्रति	भारतीय संकृति के प्रति आस्था बढेगी.
				आस्था तथा समीक्षात्मक हष्टी	२ महाकाव्य और खंड काव्य के भेद
				विकसित करना.	समजने में मदत होगी.
				३ आधुनिक काल के काव्य,	
				नाटक एवं नई कविता की	
				प्रवृतिया एवं उनके तात्विक	
				ज्ञान करना.	
18	MA-II	HIN-0232 & 0242	भाषा विज्ञानं	१ भाषा विज्ञानं की नविन	१ भाषा विज्ञानं की उपसखाये कोष
				सरवाओं का अध्यन करना.	विज्ञानं, समाज भाषा विज्ञानं, मनोभाषा
				२ भाषा स्वंन उच्चारण प्रक्रिया	विज्ञानं, भाषा भूगोल का अध्यन करने

							को समज कर शुद्ध उच्चारण करना.	से भाषा विज्ञानं की परमपरा और स्वरूप को समजने में मदत मिलेगी. २ भाषा से अर्थ प्रतीति समजने में मदत मिलेगी.
19	MA-II	HIN- 0244	0234	and	लोकसाहित्य अनुवाद विज्ञानं.	एवं	१ लोकसाहित्य के महत्व समजते हुए उसके अध्यन का महत्त्व स्पष्ट करना. २ लोकसाहित्य का सामजिक राष्ट्रिय एवं सांस्कृतिक महत्त्व बताकर उसके विशेष अध्यन के लिए प्रेरणा देना. ३ छात्रों में अनुवाद की प्रेरणा विकसित करना. ४ अनुवाद के सांकृतिक महत्व को रेखांकित करना. ९ अनुदित साहित्य का महत्व समझाना.	१ लोकसाहित्य का विशेष अध्यन करने की छात्रों को प्रेरणा मिलेगी जो समाज और राष्ट्र के सांस्कृतिक महत्व बढायेगी. २ अनुवाद शमता का विकास होनेपर कुशल अनुवादक के रूप में छात्र रोजगार प्राप्त कर सकेंगे. ३ साहित्य के अनुवाद से सांस्कृतिक एकता स्थापन करने में सहायता मिलेगी.

## JDMVP CO-OP. SAMAJ'S Shri S.S.Patil Arts, Shri Bhauaheb Salunkhe Commerce & Shri G.R.Pandit Science (Nutan Maratha) College, Jalgaon

Sr. No.	CLASS	PAPER NO.	PAPER TITLE	OBJECTIVES	LEARNING OUTCOME
1	FYBA	CBCS	Urdu General	ارد و تدریس کا بنیادی مقصد طلبه میں زبان وادب پر قدرت پیدا کرنا طلباء کو صنف غزل اور علاقائی شعراء کی شاعری سے متعارف کرانا ارد و کی تمام اصناف سخن کا مطالعہ کرکے طلبہ میں تخلیقی صلاحیت پیدا کر ناتا کہ وہ ایتھے ادیب شاعر افسانہ نگارین سکیں ارد و کے صحیح تلفظ کی ادائیگی اور صحیح املانو لیمی کی صلاحیت پیدا کرنا طلباء کو اردو نثر و نظم سے متعارف کر انا	اردوز بان کی تعلیم کے ذریع طالب علم میں ترجمہ نگاری کی صلاحت پیدا کر ناتا کہ حکومت کے بعض محکموں میں ملاز مت کا حصول ہو اردوز بان کے ذریعے کسی بیچی بیچی میدان میں ترجمہ کر کے ملاز مت حاصل کر نا شاعر انہ صلاحیتوں کو پر وان چڑھانا معیاری قد کار اور باذوق قاری تیار کر نا شاعر ی کہانی نو لیی اور مکالمہ نگاری کے ذریعے روزی روٹی کے مواقع فراہم کر نا
2	FYBA	CBCS	Persian General	فارسی زبان کی سیاسی وسماجی اور تہذیبی وادبی تاریخ علم حاصل کرنا ایک غیر ملکی زبان سے طلباء کو متعارف کرانا طلباء میں ترجمہ کی صلاحیت کو پر وان چڑھانا طلباء میں فارسی زبان کے تنہیں دلچی پیدا کرنا فارسی زبان کے تعلق سے طلباء کو معلومات فراہم کرنا	فارسی زبان کی تہذیبی داد بی اور سماجی و سیاسی تاریخ سے طلباء کو داقفیت ہو کی ایک غیر ملکی زبان سے طلباء متعارف ہوئے طلباء میں ایک غیر ملکی زبان کو سمجھنے اور اس کا ترجمہ حرنے کی صلاحیت پیدا ہو کی فارسی زبان کی بنیاد کی معلومات سے طلباء کو آگاہی ہو گی فارسی زبان کی بنیاد کی معلومات سے طلباء کو آگاہی ہو گی
3	FYBA	CBCS	Islamic Studies/ Culture General	محسن انسانیت رحمت للعالمین حضرت محمه صلی الله علیه و سلم کی سیرت و شخصیت کا مطالعه کرنا حضرت محمه صلی الله علیه و سلم کی جیواور جینے دواور	تفزت څمه صلى الله عليه و سلم كى سيرت و څخصيت كى تعليم كے ذريعے طالب علم كوايك سچااورا چھاانسان بنانا

#### DEPARTMENT OF URDU, PERSIAN & ISLAMIC STUDIES

			فرقہ وارانہ ہم آ ہنگی جیسی تعلیمات کا مطالعہ کرنا طلباءییں اخلاقیات حسن سلوک اور کر دار سازی کوپر وان چڑھانا تاریخ اسلام سے طلبا کور وشاس کرانا قر آن و حدیث اور فقہ کی تعلیمات کا مختصر مطالعہ کرنا	تیواور جینے دو جیسے اصول دضوابط کواپنی عملی زندگی میں ڈھالنا خلاقی تعلیمات حاصل کر کے ایک صالح اور باکر دار نوجوان کی تفکیل لامی تاریخ کا مطالعہ کر کے ایک محب وطن اور ذمہ دار شہری بنانا ن وحدیث اور فقہ کاعلم حاصل کر کے اس پر عمل پیرا
4 SYBA	DSC 1 A	Urdu	ار دوندریس کابنیادی مقصد طلبه میں زبان دادب	ہونا اردوز بان کی تعلیم کے ذریعے طالب علم میں ترجمہ
	& B	General	پر قدرت پیدا کرنا اردو کی تمام اصناف سخن کا مطالعہ کر کے طلبہ میں تخلیقی صلاحیت پید اکر ناتا کہ وہ اچھے ادیب شاعر افسانہ نگارین سکیں ایتھے اور اصلاحی ادب کا منتخب مواد فراہم کر کے طلبہ کی اخلاقی تربیت کرنا طلبہ کو داستان افسانہ انشائیہ جیسی نثر کی اصناف سے متعارف کر انا سے متعارف کر انا	نگاری کی صلاحیت پیدا کر ناتا کہ حکومت کے بعض تحکموں میں ملازمت کا حصول ہو اردوزبان کے ذریعے کسی بھی فیلڈ میں ترجمہ کر کے جاب حاصل کرنا ہندوستانی اور بین الا قوامی ادب کا مطالعہ ترجمہ اور کرنا داستان انثائیہ اورافسانہ کے ذریعے انسانی زندگی کے حقیقی زندگی میں انسانی کر دارکی نشو نما طویل نظم کے ذریعے دنیا میں جنگ اورا من وامان کے مسائل کو جاننا
5 SYBA	DSE 1 A & B (Equivale nt to S-I)	Urdu Drama Aur Ghazal	ڈرامہ کے بنیادی تصور سے طلباء کو آگاہ کرنا ڈرامہ کے ذریعے طلبہ میں سماجی بیداری پید اکرنا ڈرامہ کی مختلف اقسام سے طلبہ کو واقف کرانا غزل کے معنی و مفہو م اور اقسام کے تعلق سے سے معلومات فراہم کرنا ارد و کی تمام اصناف سخن کا مطالعہ کرکے طلباء میں تخلیقی صلاحیت پید اکرناتا کہ وہ ایچھادیب شاعر افسانہ نگارین سکیں	ڈرامہ کے ذریعے طلبہ میں ایکننگ کی صلاحیت کو فروغ دینا ڈرامہ نگاری میں مہارت حاصل کرے ڈراموں سے منسلک ہو کراسٹی ڈرامے پیش کر سکے بحیثیت مکالمہ نگارریڈیوٹی وی فلم انٹر نیٹ سے استفادہ کرتے ہو کے ان شعبوں میں ملاز مت مل سکے طویل نظم اور غزن کے ذریعے دنیا میں جنگ اورا من وامان کے مسائل کو جاننا

					ارد وزبان کے ذریعے سمی بھی فیلڈ میں ترجمہ کرکے ملازمت حاصل کرنا																																														
6	SYBA	DSE 2 A & B (Equivale	Urdu Novel, Marsiya &	نادل کے معنی ومفہوم اور مختلف اقسام کے تعلق سے معلومات فراہم کرنا	ناول کے مطالعے کے ذریعے انسانی زندگی کے حقیقی زندگی میں انسانی کردار کی نشو نما																																														
		nt to S-II)	Rubai	ناول کے مطالعے کے ذریعے طلبہ میں ساجی بیدار کی پیداکر نا	طویل نظم اور ناول کے ذریعے دنیامیں جنگ اورامن و امان کے مسائل کو جاننا																																														
				ار د وندریس کابنیادی مقصد طلباء میں زبان وادب پر قدرت پیداکرنا	ارد و کے مرکب الفاظ کے ذریعے ارد وزبان کو فروغ دینا																																														
				ارد و کی تمام اصناف شخن کا مطالعہ کرکے طلباء میں تتخلیقی صلاحیت پید اکر ناتا کہ وہا پتھےادیب شاعر افسانہ نگار بن سکیں	ہندوستانی کلاییکی ادب کا مطالعہ کرنا عملی زندگی میں ترتیب و تنظیم پید اکرنا																																														
				ایتھےاوراصلاحیادب کامنتخب مواد فراہم کرکے طلباء کی اخلاقی تربیت کرنا																																															
				مر شیہ اورر باعی کے تعلق سے بنیادی معلومات فراہم کرنا																																															
				مر شیہ کی اقسام سے طلباء کو آگاہ کرانا																																															
7	SYBA	Skill Enhance	Study of Basic Urdu	اردوزبان کے تعلق سے بنیادی معلومات فراہم	ايك كامياب ترجمه نگارتيار كرنا																																														
		ment Course	Basic Urdu	Basic Urdu	Basic Ordu	Basic Urdu	Dasie Oldu	Dusie Grau	Dusie ordu	Dusie Ordu	Dasie Oldu	Basic Oldu	Basic Oldu		Dusic Ordu	Dasie Oldu	Basic Oldu	Dasie Ordu		Dusic Ordu	Basic Oldu	Basic Ordu	busic ordu	Dasie orda	Basic Ordu	Dasie Oldu	کرنا	مثالىاور كامياب ترجمه نكارون كاعلم حاصل كرنا																							
		(SEC) SEC-I & II																																																	
																														ار دو کی تمام اصناف شخن کا مطالعہ کرکے طلباء میں چن پیر	میں ملاز مت کا حصول ہو میں ملاز مت کا حصول ہو																				
			تحلیقی صلاحیت پیدا کر ناتا که وها پیچھادیب شاعر و افسانه نگار بن سکین	بحیثیت مکالمہ نگارریڈیوٹی وی فلم وانٹر نیٹ سے استفادہ کرتے ہوئےان شعبوں میں ملاز مت کا																																															
				ا پیچھاوراصلاحیادب کامنتخب مواد فراہم کرکے	حصول																																														
				طلباء کی اخلاقی تربیت کرنا	ارد وکے مرکب الفاظ کے ذریعے ارد وزبان کو فروغ																																														
				ارد وزبان کے صحیح تلفظ کی ادائیگی اور صحیح املانولی کی ایس	دينا																																														
				كي صلاحيت پيدالرنا																																															

8	SYBA	MIL (DSE 1A & 2A)	Study of Modern Urdu Prose & Poetry/ Study of Modern Fiction: Novel, Short Story	ارد وکی تمام اصناف سخن کا مطالعہ کر کے طلبہ میں تخلیقی صلاحیت پید اکر ناتا کہ وہ ایتھے ادیب شاعر افسانہ نگار بن سکیس طلباء کو اردو نثر و نظم ہے متعارف کر انا طلباء کو کو ناول اور افسانہ جیسی اصناف کی بنیاد ی معلومات فراہم کر نا ناول افسانہ اور نظم کے ذریعے سماجی بید ارکی پید ا کر نا	طویل نظم کے ذریعے د نیا میں جنگ اور امن وامان کے مسائل کو جاننا ہند وستانی اور بین الا قوامی ادب کا مطالعہ اور ترجمہ کر نا ناول اور افسانے کے ذریعے انسانی زندگی کے حقیقی زندگی میں انسانی کر دارکی نشو نما ارد و کے مرکب الفاظ کے ذریعے اے ار دوزبان کو فروغ دینا
9	SYBA	DSC	Persian General	ایک غیر ملکی زبان سے طلباء کو متعارف کرانا فارسی زبان کی سیاسی سماجی اور تہذیبی وادیلی تاریخ کاعلم حاصل کر نا فارسی زبان کے تعلق سے طلباء کو معلومات فراہم کرنا طلباء میں ترجمہ کی صلاحیت کو پر وان چڑھانا طلباء میں فارسی زبان کے تیکی دلچے پی پیدا کرنا	طلباءایک غیر ملکی زبان سے متعارف ہوئے فارسی زبان کی تہذیبی واد بی اور سابتی اور سیاسی تاریخ سے طلباء کو واقفیت ہو کی فارسی زبان کی بنیادی معلومات سے سے طلباء کو آگاہی ہو کی طلباء میں ایک غیر ملکی زبان کو سیجھنے اور اس کا ترجمہ کرنے کی صلاحیت پید اہو کی فارسی زبان سیکھنے اور سیجھنے کے تنیس طلباء میں دلچیپی پید اہو کی
10	SYBA	DSC	Islamic Studies/ Culture General	اسلام عالم انسانیت کے لئے ہے اس باغ سے طلباء کوواقف کرانا تاریخ اسلام سے طلبا کوروشاس کرانا خلفاتے راشدین کی سیرت اور شخصیت کا مطالعہ کرنا اسلامی احکامات و مسائل کا مطالعہ کرنا اسلام کی اصلاحی تعلیمات کا مطالعہ کرنا	اسلام کے پیغام انسانیت پر عمل بیر اہو کرایک اچھا انسان بنا اسلامی تاریخ کا مطالعہ کر کے ایک محب وطن اورذ مہ دار شہر می بنانا خلفائے راشدین کی سیرت و شخصیت کواپنی عملی زندگی میں ڈھالنا اسلامی احکامات و مسائل سے واقفیت حاصل کرنا اصلاحی تعلیمات کے ذریعے ایک صالح اور باکر دار

					نوجوان تغکیل دینا
11	ТҮВА	Urdu URD- 351(A) &	Urdu General	طلباء کوصنف سواخ نگار میاورخود نوشت سے متعارف کرانا	سواخ نگاری خود نوشت نظم نگاری وغیر ہاصناف کا مطالعہ کرنا
		0RD- 361(A)		ڈاکٹر اپ پی جے عبدالکلام کی خود نوشت اوران کے اوصاف سے طلباء کو آگاہ کرانا	ڈاکٹرانے پی جے عبدالکلام کی سواخ کے ذریعے دیگر عظیم شخصیات کی زندگی کا مطالعہ کرنا
				ارد و نظم اور غزل کا تعارف اور اقسام سے واقف کرانا	سواخ کے مطالعے کے ذریعے انسانی زندگی کے حقیقی کردار کو سمجھنے کی صلاحیت پیداکر نا
				ار د وصحافت کی تاریخ سے طلباء کو آگاہ کر انا اد باءاور شعر اء کی حیات واد بی خدمات سے طلباء کو	صحافت اور میڈیا کے ذریعے د نیامیں جنگ اور امن و امان کے مساکل کو جاننا
				آگاه کرانا	مضمون نگاری کی تعریف اور نظم کی مختلف اقسام کا مطالعہ کرنا
12	ΤΥΒΑ	Urdu S3 URD-352 & URD- 362	Tanqueed Aur Iqbaliyat	تقید کے معنی و مفہوم اور بنیادی اصول اور ضوابط سے طلباء کو آگاہ کر انا طلباء میں صحت مند نا قائد انہ صلاحیتوں کو پر وان چڑھانا ار د و نظم کی تعریف و تاریخ سے طلباء کو واقف کر انا ار د ایم کی نظریات کے بارے میں معلومات فراہم کر انا اقال کی نظیم ذکار کی اور نظریات ہے سرطلماء کو	طلبامیں تنقید ی رجمان پیدا کرنا مطالع سے ذریع طلباء کی ناقد انہ صلاحیتوں کو پر وان چڑھانا اظلم نگاری کی تعریف اور نظم کی مختلف اقسام سے واقفیت حاصل کرنا طویل نظم کے ذریعے دینامیں جنگ اورا من وامان کے مسائل کو جاننا اخبار ٹی وی دیڈیوانٹر نہیئے کے ذریعے ار دوزبان کو فروغ ینااہ، ذرائع معاش کر معاتی مواتی محرکہ نا
				اقبال کی سم رکار کی اور تظریات سے عمباء تو متعارف کرانا	مروں دیٹااور دران معان کے سوال مراہم کرنا 
13	13 TYBA Urdu S URD-3 & URD	Urdu S4 URD-353 & URD-	Tahreekat Afsana Aur Qasida	اردوادب کی مختلف تحریکات سے طلباء کو متعارف کرانا	ار دوادب کی کی مختلف تحریکات سے واقفیت حاصل کرنا
		203		ارد و کی مختلف تحریکات کے نصب العین سے طلباء کوواقف کرانا	ارد وکے معروف افسانوں کے مطالعے کے ذریعے انسانی زندگی کے حقیقی زندگی میں انسانی کر دار کی زند زہر ہی
				صنف قصیدہ کی تعریف وتاریخ سے طلباء کو آگاہ کرانا	صو تما کرنا ارد وکے معروف قصائد کا مطالعہ کرنا

				صنف افسانہ کا مطالعہ کر کے طلباء میں تنخلیقی صلاحیت کو پر وان چڑھانا ارد وکے معروف افسانوں کی خصوصیات سے طلباء کو واقف کرانا	اردوزبان کے ذریعے کسی بھی میدان میں ترجمہ کر کے ملاز مت حاصل کرنا اردو کی مختلف اصناف کا مطالعہ کر کے روز می روٹی کے مواقع فراہم کرنا
14	ТҮВА	PER 351, PER 361	Persian General	فارسی زبان کے تنیئ طلباء میں دیچی پیدا کرنا فارسی زبان کے تعلق سے طلباء کو معلومات فراہم کرنا فارسی زبان کی تاریخ سے طلباء کوروشاس کرانا ایک غیر ملکی زبان سے طلباء کو متعارف کرانا طلباء میں ترجے کی صلاحیت کو پروان چڑھانا	فارسی زبان سیکھنے اور سیجھنے کے تئیس طلباء میں ولیچیں پیدا کرنا فارسی زبان کی بنیادی معلومات سے طلباء کو آگا ہی ہوئی فارسی زبان کی تاریخ سے طلباء کو واقفیت ہوئی ایک غیر ملکی زبان سے طلباء متعارف ہوئے طلباء میں ایک غیر ملکی زبان کا ترجمہ کرنے کی صلاحیت پید اہوئی
15	ТҮВА	ISC 351, ISC 361	Islamic Studies/ Culture General	اسلامی تہذیب کے بنیادی پہلوؤں کا مطالعہ کرنا طلباء میں صحت مند عادات واطوار کو پر دان چڑھانے کی غرض سے اسلام کی اخلاقی تعلیمات نہم پہنچانا قومی سیج پیچی اور فرقہ وارانہ ہم آ ہتگی کے فروغ کے لیے اسلامی تعلیمات کا مطالعہ کرنا علم فقہ اور احکام مسائل کا مطالعہ کرنا تاریخ اسلام سے طلبا کوروشا س کرانا	اسلامی تہذیب کے بنیادی پہلوؤں کا مطالعہ کر کے ان پر عمل پیراہونا اخلاق تعلیمات کے ذریعے طلباء میں صحت مند عادات واطوار کو پر وان چڑھانا اسلامی تعلیمات کا مطالعہ کر کے طلباءلا میں قومی لیج بتی اور فرقہ وارانہ ہم آ ہنگی پیدا کرنا ادکام مسائل اور فقہ کاعلم حاصل کر کے اسے این عملی زندگی میں ڈھالنا اور ذمہ دار شہر ی بنانا
16	M.A.I	Urdu: UR-01	Zuban Urdu Adab & Adbi Tehrikat-o- Rujhanat	ارد و تدریس کا نمیادی مقصد طلباء میں زبان دادب پر قدرت پیدا کرناہے ارد و نثر کی تاریخ کا مطالعہ کر کے طلبہ میں تخلیقی صلاحیت پیدا کرنا معیار کی اور اصلاحی ادب کا منتخب مواد فراہم کر کے	ارد وزبان وادب کی تعلیم کے ذریعے طالب علم میں کہانی نولی کی صلاحیت پیدا کر ناتا کہ حکومت کے بعد تحکموں میں ملاز مت کا حصول ہو ارد وزبان کے مطالعے کے ذریعے طلباء میں ترجمہ نگاری کی صلاحیت پیدا کر ناتا کہ وہ ایک قابل متر جم بن سکے

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				طلباء کی اخلاقی تربیت کرنا ارد وادب کی مختلف تحریکات سے طلباء کو متعارف کرانا ارد و کی مختلف تحریکات کے نصب العین سے طلباء کوواقف کرانا	ہندوستانی اور بین الا قوامی ادب کا مطالعہ اور ترجمہ کرنا اردوادب کی مختلف تحریکات کے مطالعے کے ذریعے حقیقی زندگی میں انسانی کے کردار کی نشو نما کرنا عملی زندگی میں ترتیب و تنظیم پیدا کرنا
17	M.A.I	Urdu: UR-02	Urdu Ghazal & Nazam	غزل کے معنی و منہوم و تاریخ سے طلباء کو آگاہ کرانا ارد و غزل کے آغاز وار تقاسے طلباء کو واقف کر انا ارد و غزل کے مختلف اد وار کا مطالعہ کر نا کرانا ارد و نظم کی تغریف و تاریخ سے طلباء کو واقف کرانا	اردوغزل کی بیئت اور خصوصیات کاعلم حاصل کرنا ارد وغزل نولیی اور نغمہ نگاری کی صلاحیت پید اکرنا ارد و نظم کی مختلف اقسام سے واقفیت حاصل کرنا ایک کا میاب شاعریا نغمہ نگار تیار کرنا نظم سے مطالعے سے دنیا میں امن وامان اور جنگ کے مسائل کو جاننا
18	M.A.I	Urdu: UR-03	Dastan & Novel	داستان کی تعریف ونار تخ سے طلباء کو آگاہ کر انا ارد وداستان کے عناصر تر کمیبی کی معلومات فراہم کرنا ارد و کی معروف داستانوں کا تفصیلی مطالعہ کرنا ناول کی تعریف ونار تخ سے طلباء کو واقف کر انا ناول کی مختلف اقسام کا مطالعہ کرنا	معروف داستانوں کا مطالعہ کر کے زندگی میں نظم و ضبط پید اکر نا ارد وزبان وادب کی تعلیم کے ذریعے طالب علم میں تحریر کی صلاحیت پید اکر ناتا کہ حکومت کے بعض محکموں میں ملاز مت کا حصول ہو ترجمہ نگار کی کی صلاحیت پید اکر ناتا کہ وہ ایک قابل مترجم بن سکے ہند وستانی اور بین الا قوامی ادب کا مطالعہ اور ترجمہ کر نا ارد وناول کے مطالعے کے ذریعے حقیقی زندگی میں انسانی کر دار کی نشو و نما کر نا
19	M.A.I	Urdu: UR-04	Tanqeed Nigari & Dr. Allama Iqbal	تنقید کے معنیٰ و مفہوم اور تعریف وتار تخ طلباء کو داقف کرانا تنقید کے بنیادی نظریات اور اصول وضوابط سے	طلباء میں شخفیقی و تنقید ی صلاحیتوں کو پر وان چڑھانا ارد وزبان کے مطالعے کے ذریعے طلباء میں ترجمہ نگاری کی صلاحیت پیداکر ناتا کہ وہ ایک قابل متر جم

				طلباءكوآكاه كرانا	بن سکے
				طلباء ميں صحت مند ناقدانہ صلاحيتوں کو پر وان	طلباء ميں صحت مند تنقيدي نقطه نظر پيدا كرنا
				چڑھا نا	ہندوستانیاور بین الاقوامی تنقیدیادب کا مطالعہ کرنا
				علامہ اقبال کی نظم نگار میاور نظریات سے طلباء کو متعارف کرانا	علامہاقبال کے نظریات کا مطالعہ کرکے عملی زندگی میں نظریت بی تائم بنا
				اقبال کی شاعری کے مختلف اد وار کا مطالعہ کر نا	ين او سبط قام ترما
20	M.A.II	Paper-5	Urdu Afsana Aur Sawanhe	صنف افسانہ کی تعریف وتاریخ سے طلباء کو متعارف کرانا	ارد وزبان وادب کی تعلیم کے ذریعے طلبہ میں افسانہ اور کہانی نولی کی صلاحیت پیداکر ناتا کہ حکومت کے
				ارد وکے معروف افسانوں کا مطالعہ کرنا	مختلف تحكمون مين ملازمت كاحصول ہو
				سواخ نگاری کے معنی و مفہوم اور تاریخ سے طلبا کو روشناس کرانا	ارد وزبان کا مطالعہ کرکے طالب علم میں ترجمہ نگاری کی صلاحیت پیداکر ناتا کہ کہ وہا یک اچھامتر جم بن ب
				ارد و میں سوانح نگاری کیا ہمیت وافادیت سے طلباء کو واقف کرانا	سیلے ہندوستانیاور بین الاقوامی ادب کا مطالعہ اور ترجمہ کرنا
				معروف افسانه نگار دن ادر سوانح نگار دن کی ادبی	طلباء میں سوانح نگاری کی صلاحیت پیدا کر نا
				خدمات کاجائزہ لینا	معروف شخصیات کی سوانح کے مطالعے کے ذریعے طلباء کی شخصیت کاارتقاء
21	M.A.II	Paper-6	Marsiya	ار د ومریثہ کی قعریف اور تاریخ سے طلباء کو	ار د وزیان دادب کی تعلیم کے ذریعے طلباء میں
		_	Aur Qasida	متعارف کرانا	تحریری صلاحیت پیدا کرناتا کہ حکومت کے مختلف
				ار دومیں مرشیہ کیا ہمیت وافادیت سے طلباء کو	تحكمون ميں ملازمت كاحصول ہو
				واقف كرانا	ار دومر شیہ اور قصید ہ کے اجزائے تر کمیبی کاعلم حاصل -
				ارد وقصیدہ کے معنی و مفہوم اور اجزائے تر کیبی	لرنا
				سے طلباء کو آگاہ کرانا	اردوز بان کا مطالعہ کرکے طلباء میں ترجمہ نگاری کی صلاحیہ یہ بید اکر ناتاکہ ووالے قامل متر حمرین سکیں
				قصیدہ کی مختلف اقسام کا مطالعہ کرنا	منا یک پیرو رومان که رومایی کار (۱٫۰٫۰۰۰ مر
				ارد وکے معروف مر ثیوں اور قصائد کا مطالعہ کرنا	چندوستان اور <b>:ین</b> الا یوان ادب6 مطابعه اور بر جمه تر ما •
					ار د د مرشیه نگاری اور حصیده تو یکی صلاحیت پیدا تر نا
22	M.A.II	Paper-7	Fane Tahqiq Aur	فن تحقیق کی تعریف د تاریخ سے طلباء کو آگاہ کر نا	طلباء میں تحقیقی و تنقید ی صلاحیتوں کو پر وان چڑھانا

			Shibli Noamani	ارد وادب میں ریسر بچ کی اہمیت دافادیت سے واقف کرانا	اردوز بان کا مطالعہ کرکے طالب علم میں تنقید نگار ی کی صلاحت پیداکر ناتا کہ وہ ایک اچھانقاد بن سکے
				طلباء میں تحقیقی صلاحیتوں کو پر وان چڑھانا تحقیق وند وین کے اصول و ضوابط سے طلباء کو روشاس کرانا شبلی نعمانی کی حیات اور ادبی خدمات کا مطالعہ کرنا	ہندوستانی اور بین الا قوامی تنقید می ادب کا مطالعہ اور ترجمہ کرنا تحقیق وتد وین کے اصول اور ضوابط کا علم حاصل کر کے معیاری محقق تیار کرنا ار دو کے معروف محققین کی ادبی خدمات سے مستفیض ہونا
23	M.A.II	Paper-8	Tarjuma Nigari Aur Iblaghiyat	فن ترجمہ نگاری کی تعریف وتار تخ سے طلباء کو آگاہ کرانا	ترجمہ نگار کی کا فن اور اس کے اصول وضوابط سے واقفیت حاصل کرنا
				فن ترجمہ نگاری کے اصول و نظریات سے طلباء کو واقف کرانا	اردوزبان کا مطالعہ کر کے طالب علم میں ترجمہ نگاری کی صلاحیت پیداتا کہ وہا یک اچھامتر جم بن سکے
				ابلاغ اور صحافت کے معنی و مفہوم سے طلبا کو روشاس کرانا	ہند وستانی اور مین الاقوامی ادب کا مطالعہ اور ترجمہ کرنا معیاری بے باک اور غیر جانبد ار صحافی تیار کرنا
				ذرائع ابلاغ کیا ہمیت وافادیت سے طلباء کو واقف کرانا	صحافت واہلاغ کی تعلیم کے ذریعے الیکٹر انک اور پرنٹ میڈیامیں ملاز مت کے مواقع فراہم کر نا
				عصر حاضر میں ماس میڈیااور صحافت کے کر دار کا مطالعہ کرنا	

Department of Economics. Course objectives and Outcomes

#### F.Y.B.A.

SemI &II				
Paper	Objectives	Outcome		
ECO-G-101-	Introduced the students to the	Understand the		
a):Principle of Micro	basic principles of	fundamentals of		
Economics I & II	microeconomic theory	microeconomics		
	To introduced the students	Get an introduction to		
	behavior of consumer,	supply and demand and		
	producer in Economy, Price	the basic forces that		
	determination in market and	determine equilibrium in a		
	also factor pricing.	market economy		
	How to microeconomic	Get introduced to the		
	concepts can be applied to	framework for learning		
	analyze real life situations	about consumer behavior		
		and analyzing consumer		
		decisions		
		To solve basic		
		microeconomic problems		

#### **S.Y.B.A.**

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Sem-III & IV		
DSC Eco 231 C &	To enable students to have	On completion of the
DSC Eco 241 D	understanding the various	course, students are able
Paper title: Indian	issues of Indian Economy	to
Economy Since 1980-	To develop the analyzing	To able to understand
I&II	capability in the context of	nature of Indian economy
	current Indian Economic	To able to understand
	Problems	population & economic

	To able the students for	development
	appearing the MPSC, UPSC	To able to understand
	and other competitive	infrastructure and
	Examinations	economic development
		To able to understand role
		of agriculture in Indian
		economy
DSE Eco 232 A &	Introduction to Agricultural	On completion of the
DSE Eco 242 B	Economics	course students would be
2. Paper title:	Risk and uncertainty in	able to:
Agricultural Economics	agriculture	To able to understand
–I&II	Agricultural marketing system	economics of agriculture
	and mechanization	To able to understand
		Indian agriculture sector
		To able to understand
		agricultural prices,
		marketing & subsidies in
		India
DSE Eco 233 A &	To acquaint the student	On completion of the
DSE Eco 243 B	knowledge of	course, students are able
2. Paper title:	Macroeconomics concept and	to:
Advanced Macro	theories	To able to understand
Economics-I&II	To acquaint the student	consumer behavior
	knowledge of	To able to understand
	Macroeconomics problem and	various theories of factors.
	policies	To able to understand
	To develop the analyzing	concept of profit &
	capacity in applying theories to	Interest
	real life situation	To able to understand
		market equilibrium of firm
		in monopolistic market
Eco 234 & SEC Eco	To acquaint the student	On completion of the
244	knowledge of Research &	course, students are able
2. Paper title: Research	Research Design	to:
Methodology For	To acquaint the student	To able to understand
Economics-I&II	knowledge of Data Collection	methods of data collection
	& Data Analysis	& analysis
	10 develop the analyzing	10 able to understand
	capacity in applying theories to	contents of report writing
	real life situation	To able to understand

	concepts of research
	designing

#### **T.Y. B.A.**

Sem-V&VI		
Eco-351&361 : General Paper 2. Paper title : Indian Economy Since 1980 – III & IV	To enable students to have understanding the various issues of the Indian Economy To develop the analyzing capability in the context of current Indian Economic Problems To able the students for appearing the MPSC, UPSC and other competitive Examinations	On completion of the course, students are able to: To able to understand India's foreign trade To able to understand concept of globalization To able to understand public expenditure in India To able to understand public debt& deficit finance
Eco-352(A)&362(A) : Special Paper 2. Paper title : Public Finance and Policies- I&II	To enable students to have understanding the various issues of Public Finance and Policies To develop the analyzing capability in the context of Public Finance and Policies To able the students for appearing the MPSC, UPSC and other competitive Examinations	On completion of the course, students are able to: To able to understand concept of public fiance To able to understand concept of public revenue To able to understand concept of fiscal policy To able to understand concept of budget & deficit finance
Eco-353(A) &363(A) : Special Paper 2. Paper title : International Trade and Practices -I&II	To enable students to have understanding the various issues of International Trade and Practices To develop the analyzing	On completion of the course, students are able to: To able to understand international trade theories

capability in the context of	To able to understand
International Trade and	gains from international
Practices	trade & trade policy
To able the students for	To able to understand
appearing the MPSC, UPSC	concept of devaluation &
and other competitive	convertibility of rupees
Examinations	

#### M.A.-I

Sem-I		
111 Paper Title:	To provide students with the	On completion of the
Advanced Micro	knowledge of core concepts	course, students are able
Economics: I & II	and models in the field of	to:
	microeconomics	To able to understand
2. Nature: Core Paper	To provide students with the	ordinal utility analysis of
(Compulsory Paper)	knowledge of basic	consumer demand
	microeconomic models'	To able to understand
	assumptions, internal logic and	modern utility analysis
	predictions, grounding the	To able to understand
	explanations on intuitive,	theory of distribution
	graphical and analytical	To able to understand
	approaches	general equilibrium &
	To develop students' ability to	economic efficiency &
	apply the knowledge acquired	welfare
	to the analysis of specific	To able to understand the
	economic cases, recognizing	Firm & its technology
	proper framework of analysis	
	and constructing and analyzing	
	adequate economic model	
	within this framework	
Eco: 112 Paper Title:	To understand the economics	On completion of the
Modern Public	of government expenditure and	course, students are able
Economics: I & II	taxation	to:
2.Nature: Core Paper	To use economic analysis to	To have conceptual clarity
(Compulsory Paper)	predict and verify the effects of	of public expenditure and
	government intervention on	revenue theories

	behavior of individuals, households, and firms To discuss the implications of policy for efficiency and equity To analyze public goods, externalities, and information asymmetries; market failures resulting	To apply the principle of optimal taxation in analyzing various governments tax policies To know the application of public economics in analyzing various energy policies To comprehend various types of public goods and
Eco: 113(A) Paper Title: Statistics for Economics 2. Nature: Optional Paper (Choice Based )	To develop the students ability to deal with numerical and quantitative issues in economics To enable the use of statistical, graphical and algebraic techniques wherever relevant To have a proper understanding of Statistical applications in Economics	Its real world applicationOn completion of the course, students are able to:Able to understand meaning, scope & importance of statisticsAble to understand measuring central tendencyAble to understand dispersion and co-efficient Able to understand measures and types of price index
Sem-II		
Eco: 123(A) Paper Title: Research Methodology For Economics 2.Nature: Optional Paper (Choice Based )	To acquaint the student knowledge of Research & Research Design To acquaint the student knowledge of Data Collection & Data Analysis	On completion of the course, students are able to: To able to understand methods of data collection & analysis To able to understand contents of report writing To able to understand concepts of research designing To able to understand

		concepts of hypothesis
		testing methods
Eco: 114 (A) Paper	Acquaint the students with the	On completion of the
Title: Economics of	growth performance of Indian	course, students are able
Agriculture & Rural	agriculture since Independence	to:
Development: I & II	Understanding the impact of	To able to understand
	macro policy level changes on	economics of agriculture
2. Nature: Optional	different sections of the rural	To able to understand
Paper (Choice Based)	population in India	Indian agriculture sector
	Understanding the impact of	To able to understand
	climate change on agriculture	agricultural prices,
	and its related impact on food	marketing & subsidies in
	security	India
		To able to understand
		agriculture finance,
		insurance& capital
		formation
		To able to understand
		WTO & agriculture
		To able to understand
		technology in agriculture

# M.A.-II

Sem-III		
ECO: 231 Paper Title :	To present the main current	On completion of the
Advanced Monetary	macroeconomic problems	course, students are able
Economics-I & II	To describe the role of central	to:
	banks in the economy	To able to understand
2.Nature : Core Paper	To introduce the students to	nature, scope &
(Compulsory Paper)	the standard analytical	importance of monetary
	methodology that figures out	policy
	the optimal monetary policy	To able to understand
	measures	nature classical &
		Keynesian theories of
		employment
		To able to understand

		measures of money
		supply.
		To able to understand
		various theories of
		demand for money.
		To able to understand
		various of trade cycle
		To able to understand
		supply side economics
ECO: 232 Paper Title :	To understand the Theories of	On completion of the
Theories of Economic	Development	course, students are able
Development	To analyze and describe the	to
2.Nature : Core Paper	features of less developed	To able to understand
(Compulsory Paper)	economies and the	conceptualizing
	macroeconomic and	development
	microeconomic development	To able to understand
	challenges they face	theories of economic
	To analyze and describe	development
	significant policy options	To able to understand
	available to government and	concept of poverty &
	international organization to	development
	address economic development	To able to understand
	challenges	population & human
		development
ECO: 234(B) Paper	To Introduce the basics of	On completion of the
Title : Modern Banking	Indian Financial System	course, students are able
System in	To understand the function of	to:
India	money market and capital	To able to understand
	market	commercial banking
2.Nature : Optional	To provide the basic objectives	system in India
Paper (Choice Based)	of regulating agencies	To able to understand
		cooperative and rural
		banking in India
		To able to understand Non
		banking financial
		institutions & financial
		services in India
		To able to understand
		working & operation of
		RBI

Sem-IV		
ECO: 242 Paper Title :	To understand the Concepts of	On completion of the
Theories of Economic	Economics Growth	course, students are able
Growth	To understand the Some	to:
	Growth Models	To able to understand the
2.Nature : Core Paper	To analyze and describe	economic growth &
(Compulsory Paper)	significant policy options	technological changes
	available to government	To able to understand
		some growth models
		To able to understand the
		Neo- Classical &
		Cambridge models of
		growths
ECO: 233(A) Paper	Understand the processes of	On completion of the
Title : International	international economic	course, students are able
Economics – I & II	relations as the part of global	to:
Nature : Optional Paper	market economy development	To able to understand
(Choice Based)	Acquire skills that would help	theories international
	them to take rational decisions	trade.
	in issues related with the	To able to understand
	international economy	gains from international
		trade & their
		measurements
		To able to understand
		trade policies in India
		To able to understand
		international financial
		institutions
		To able to understand
		foreign direct investments
ECO:244(B) Paper	The objective of this paper is	On completion of the
Title : Financial Market	to introduce students to the	course, students are able
in India	different aspects and	to:
	components of financial	To able to understand the
2.Nature : Optional	Institutions and financial	Indian money market
Paper (Choice Based)	markets	To able to understand the
	This will enable them to take	Indian capital market
	the rational decision in	To able to understand new

financial environment	development in Indian
	financial system periods
	To able to understand
	international aspects of the
	Indian financial system

Department of Geography. Course objectives and Outcomes

## F.Y.B.A.

SemI		
Paper	Objectives	Outcome
GG-101 Phy.Geo (Lithosphere) SemII	Knowing about the physical Geog. of the earth. Understand the natural process of earth. Affects the distribution of Resources.	Develop the knowledge about physical Geography.
GG-102 Phy.Geog Atmosphere and Hydrosphere	Knowing about the climate of the earth, diff climate zone and elements of Atmosphere and all water bodies of earth diff. water zone	To develop the knowledge of local micro climate, knowledge about ocean seas, lake, Rivers. etc.

## **S.Y.B.A.**

Sem-III		
GG-231General	To understand about maps and	To develop the interest in
cartography	elements of map their study &	students about map and
	skill.	reading.
GG-232 Geo of	To develop the knowledge of	To develop the skill and
Tourism	tourism, study about tourist	interest about tourism
	centers.	study of local tourist
		spots.
GG-233Practical Geog.	To understand about scale and	To develop the skill of
	map reading Latitude and	students to reading map
	Longi, Projection of map.	use scale and prepare of
		projection.

GG-234 Regional planning development.	To focus on Regional Resources and their proper use and planning	To understand the knowledge about Resources and planning.
SemIV		
GG- 241 Geo.of India.	To understand the diff. Races	Understand the effect of
	of world population, their	surrounding on local.
	migration, Religion etc.	people, occupation etc.
GG242 Human	Knowing about India.	Develop the knowledge
Geography	Indian physiography, Climate	about India understanding
	soil, vegetation, Resources,	India as well as culture.
	Industries, population etc.	
GG-243 practical	To understand about scale and	Develop the skill of
Geog.	map reading, Lat and Longi,	students to reading maps
	Projection of map	use scale and prepare
		projection.
GG -244	GG -244 To know about satellite and	
	land use pattern and develop	students to develop maps.
	the skill of much use maps	

## T.Y.B.A.

Sem.V		
GG-351Population	To know world distribution of	To understand the student
Geography	population. The study of popu.	about district population,
	with diffn views. The density	taluka wise popu. our
	of popu, Age sex ratio.	village popu, their
		distnmale/ female ratio.
GG-352 Environmental	Knowing about Environments	To understand our
Geography	of earth. Earth environment	surrounding Environment
	sustainable uses of. Resource	encourage the peoples no
	of earth. To solve the problem	save environment
	like pollution population,	
	deforsteing.	
GG-353 Practical	Knowing about the diff.	Knowledge about
Geography	element of maps. Knowledge	interpretationof map
	about diff. Relief feature and	understand Area of all
	Drainage.	sense

SemVI		
GG-361 Political	To Knowing world politics the	To understand, Maha and
Geography	diff. political parties of the	out talukapolitical
	world, political information of	situation our local area
	the world.	political situation
		pancaked level political.
GG-362 Remote	To Focus on Regional	To understand the
sensing	Resources and their paper use	knowledge about
	and planning	resources and planning.
GG- 363 Practical	To know the different	To encourages the
Geog. Geo Statistical.	statistical method in Geog. for	students for the statistical
	the study and conclusion of the	calculation in the
	data.	geography of the practical.

#### JDMVPS CO-OP SAMAJS, SHRI S. S. Patil Arts, Shri. Bhausaheb T. T. Salunkhe Commerce & Shri G. R. Pandit Science (Nutan Maratha) College, Jalgaon. 425001 DEPARTMENT OF HISTORY

Sr.	CLASS	PAPER NO.	PAPER TITLE	OBJECTIVES	LEARNING OUTCOME
1.	FYBA Sem I & II	CBCS-Core Course:HIS DSC A1 & A2 (G1)	History of India (A.D.1857- A.D.1950)	<ul> <li>1.To introduce various perspectives of the Indian freedom movement.</li> <li>2.To develop the spirit of nationalism among students.</li> <li>3.To bring an awareness among the students as responsible citizen of the country.</li> </ul>	<ol> <li>It will create a patriotism and nationalism among the students.</li> <li>The students will be made aware with the historical perspectives of the long freedom movement and sacrifices behind it through which the spirit of national integrity will be a part of study.</li> </ol>
02.	SYBA Sem III & IV	CBCS CORE- DSC-HIS 231 & 241 (G2)	History of the Marathas. (A.D.1605- A.D.1750).	<ol> <li>To Create and enhance interest about regional History among the students.</li> <li>To acknowledge students how Shivaji Maharaj created the empire in adverse Circumstances.</li> <li>Useful for the preparation of the competitive examinations.</li> </ol>	<ul><li>1.Cover an important topic of history of the maratha. (A.D.1605-A.D.1750).</li><li>2.The course broudle cover the basic information in this period.</li></ul>
3		DSE-HIS-232 & 242 (S 1)	History of united states of America (A. D. 1776 -A.D. 1945)	<ol> <li>To understand the importance of America (USA) in the world history.</li> <li>Focus on the Role of America (USA) in world politics.</li> <li>To study and the Role of America between two world wars.</li> </ol>	<ol> <li>Cover an important topic of the History of united states of America (A.D.1776 - A.D.1945).</li> <li>To include liberty, equality and fraternity among the students.</li> </ol>
4		DSE-HIS- 233 & 243 (S 2)	History of Ancient India (B.C 3000 to B.C. 600) & (B.C. 600 – A.D.1206)	<ol> <li>To acquaint the students with different sources of Ancient Indian History.To enable the students to understand the Political, Socio-Economic and Cultural Developments in the Periods under study and appreciate the rich Cultural Heritage in India.</li> <li>To Survey the Sources of History of Ancient India. The Course intends to Provide and Understanding of the Social, Economic, Religious and Institutional Bases of Ancient India</li> </ol>	<ol> <li>The syllabus provide cronological sequence of the "units" of the subject matter with proper placement of topics with there linkege for better understanding.</li> <li>Develop an interest in student to study the history as discipline.</li> </ol>
5		SEC-HIS-234 (Sem-III)	Rsearch methodology in history	1.The paper is designed to provide adequate conceptual base, bring better understanding of history and its forces, help interrogate existing paradigms and challenge the	<ul> <li>1.To develop the spirit of research among the student.</li> <li>2.To introdece verious perspective of the research methodology</li> </ul>

				outdated, help in developing critique, help research in terms of formulating hypotheses and develop broad frames of interaction with other social	
				sciences and attain certain level	
6		SEC-HIS-244 (Sem-IV)	An introduction of Archives in India.	<ol> <li>1.To introduce the importance of Archives in study of History.</li> <li>2. To create awareness to conserve the historical records in their local areas.</li> <li>3. To create interest of students to pursue career in the field of Archives.</li> </ol>	<ol> <li>Grasp the concept of archives.</li> <li>Acquire adequate knowledge about historical importance of archivese as sources of history.</li> </ol>
7	T.Y.B.A. SEM- V & VI	DSC 1 E HIS- 351 & DSC 1 F HIS-361 (G-3)	History of modern Eurpoe (A.D. 1781- A.D.1913) & (A.D. 1914 – A.D.1945)	<ol> <li>Develop an interest in students to study the History as discipline.</li> <li>To Introduce the students to the concept and Nature of modern European History.</li> <li>It will Create a patriotism and European nationalism among the students.</li> </ol>	<ol> <li>1. Understand the concept and meaning of the "History of - Modern Europe"</li> <li>(A.D.1781- A.D.1945)</li> <li>2. To introduce various perspective of the history of modern Europe.</li> </ol>
8		DSE 1 C HIS 352 & DSE 1 D HIS 362 (S-3)	History of india (A.D.1750 – A.D.1857)	<ol> <li>1.To introduce various perspectives of the Modern India</li> <li>2.To develop the spirit of nationalism among students.</li> <li>3.To bring an awareness among the students as responsible citizen of the country.</li> </ol>	<ol> <li>1.It will creat a patriotism and nationalism among the student.</li> <li>2. The various approches and contexts will be unraveled through the study of the subject.</li> </ol>
9		DES2 C HIS – 353 & DES 2 D HIS 363 (S-4)	History of India (A.D.1206 – A.D.1526) & (A.D.126 – A.D.1707)	<ol> <li>Syllabus covers competitive examinations (UPSC, MPSC, NET, SET, Railway Board and Staff Selection etc.)</li> <li>To developed the skill and opportunities among the students.</li> <li>To make awareness and interest about Social, Economic and Cultural Heritage and History of India.</li> </ol>	<ul> <li>1.Student learn about the various polity and sultanate periods (A.D.1206 – A.D. 1526) In India.</li> <li>2.Students undersatnd and review about the social economic and cultural information during the sultanate and mughal period in medival India.</li> </ul>
10		GE 1 A HIS- 355 & GE 1 B HIS 365	Making of contemporary India -1 & 2	<ul> <li>1.This course presents some important vignettes of a complex, highly diverse India that is also witnessing unprecedented changes since its formal independence in 1947 from Great Britain.</li> <li>2.The course revolve around social dimensions of change, political democracy, economic transition from the state to the market, gender relations, India's economic globalization and changing world view.</li> </ul>	<ol> <li>1.It would be helpful if students are aware of the socio, political, dynamics at play in contemporary India and keep them self abrest with current affairs and debits in the country to full appreciate the various dimenssion and contours if the subjects' matter in the course.</li> <li>2.Cover an important topic of the contemporary India.</li> </ol>

11	M.AI st Sem – I & II	HIS- 111 & HIS- 121	Trends in Historiography & Historiography- Tools,Method and theories.	<ol> <li>1.To introduce the student for the Historiography-Tools, Methods and theories.</li> <li>2.syllabus related tours and excursion, visit and report writing.</li> </ol>	<ol> <li>1.To able to understand historiography. tools, methods and theories.</li> <li>2. expalin important information of the historiography.</li> </ol>
12		HIS- 112 & HIS- 122	HISTORY OF INDIA (From Stone Age to Mauryan Age) & (Post Mauryan Period to A.D. 12 <sup>th</sup> Cent.)	<ol> <li>To motivate student for the research work of the Anciant India.</li> <li>Useful for the preparation of the competative examinations.</li> </ol>	<ol> <li>Students understand and review detail about the agricultural trade and commerce position of women and religious contions in Anciant India period.</li> <li>Understand the concept and meaning of the History of anciant India.</li> </ol>
13		HIS-113 & HIS-123	HISTORY OF INDIA (AD 1206 TO AD 1526) & (A.D. 1526 T0 A.D.1707)	<ul> <li>1.To make awarness and interest about socio –economical-and cultural heritage and history of India.</li> <li>2.Syllabus related to tours &amp; excursion visit at report writing.</li> </ul>	<ol> <li>Student learn about the variouss polity and medieval periods (A.D.1206-A.D.1707)</li> <li>In India.</li> <li>Students understand and review detail about the agricultural trade and commerce position of women and religious conations in medieval India period.</li> </ol>
14		HIS- 114 B & HIS – 124 A	An introduction to tribal history & History of khandesh	<ul><li>1.To create and enhance interest about regional history among the students.</li><li>2.To inculcate the rational thinking among the students.</li></ul>	<ol> <li>1.Grasp the concept of tribal and khandesh history.</li> <li>2.To develop the spirit of research among the students.</li> </ol>
15	M.AII Sem- III & IV	HIS- 231 & HIS- 241	Contemporary world (1945-1970) & (1970- 2000)	<ol> <li>Syllabus covers competitive examinations (UPSC, MPSC, NET, SET, Railway Board and Staff Selection etc.)</li> <li>carrer and job oriented syllabus.</li> </ol>	<ol> <li>To introduce various perspective of the history of contemporary world.</li> <li>To inculcate liberty, equality and fraternity among the students.</li> </ol>
16		HIS – 232 & HIS - 242	India after independence (part –I) & (part –II)	<ul> <li>1.To developed the skill and opportunities among the students.</li> <li>2.Job oriented syllabus newly introduce.</li> <li>i.e. Archives in India and Tourism business.</li> </ul>	<ol> <li>For making learning of history more relevant meaning full and interesting.</li> <li>It will create a petrotism and nationalism among the students.</li> </ol>
17		HIS – 233 & HIS - 243	History of medieval maharashtra (part –I) & (part – II)	<ol> <li>To make and awarness and interest about socio –eomical and cultural heritage and history of maharastra.</li> <li>To make awarness about research.</li> </ol>	<ol> <li>The various approches and contaxts will be unraveled through the study of subject.</li> <li>Develop and interest in student to study the history as discipline.</li> </ol>
18		HIS – 234 A & HIS – 244 A	History of modern maharashtra. (Part- I) & (Part –II)	<ol> <li>Syllabus related towards and excursion visit and report writing.</li> <li>To make awareness about modern Maharashtra history.</li> </ol>	<ul><li>1.Acqui re adequate knowledge about historical importance of modern maharashtra history.</li><li>2.The various approches and contexts will be unraveled through the study of the subject.</li></ul>

Department of Psychology. Course objectives and Outcomes

## F.Y.B.A.

SemI			
Paper	Objectives	Outcome	
PSY - 101	To impart knowledge of the	Identify the primary	
Foundations of	basic concepts and modern	objectives of Psychology	
Psychology	trends in Psychology		
SemII			
PSY - 201	To understand the basics of	Demonstrate an awareness	
Introduction to social	Social Psychology and to	of our own and others	
Psychology	understand the individual in	culture and explain basic	
	the social world	Psychological processes	

## S.Y.B.A.

SemIII		
PSY -231 Human	To impart an understanding of	Understand the process of
developmental	the various domains of human	human development
Psychology -	development	
Early Life		
PSY - 232	To develop an understanding	Analyze and explain the
Psychoneurotic	of the various psychological	major disorders and
Disorders	disorders and their treatment	treatment
PSY -233	Applying the psychological	Identify the neurotic
Psychopathology	tests and learn advance	behavior and understand
Practical (Testing)	techniques and tools	Testing
PSY – 234 Research	To acquaint the students with	Provide an overview of
process in psychology	the general and special abilities	scientific research,
	with respect to psychological	sampling technique,
	testing	methods and research
		design to the students

SemIV		
PSY – 241	Introduce students to the	Develop the students
Human developmental	concepts, theories and research	capability for connecting
Psychology – Later	which define this discipline of	discipline content to
Life	psychology	personal values and
		behavior
PSY – 242 Psychotic	To develop an understanding	Identify the objectives of
Disorders	of the various psychological	psychological disorders
	disorders	
PSY - 243	To understand the	Learn advance techniques
<b>Psychological Practical</b>	psychological test	of psychological tests and
(Testing)		its interpretation
PSY – 244Statistical	To develop an understanding	Analyze and explain the
Application and Report	of statistical Techniques in	statistical concepts and
writing in Psychology	psychology.	principles

#### **T.Y.B.A.**

SemV		
PSY – 351 B Positive	To Foster interest in positive	Understanding of the basic
Psychology	psychology as a field of study	concepts, principles in
	and research	positive psychology
PSY -352 (A) Research	To provide an overview of	Formulate and identify
methods in behavioral	scientific research, methods	hypothesis in research
sciences	and designs to students	
SemVI		
PSY – 361 (B) Positive	To make the students aware of	To relate the fundamental
Psychology	the application of the various	principles of positive
	concepts of positive psychology in daily life	psychology in everyday life
PSY -362 (A)	To acquaint the Students with	Define and give examples
Experimental	the general and special abilities	of variables and scales of
Psychology and Test	with respect to psychological	measurement
measurements	testing	
PSY – 363 Psychology	To acquaint the students with	Understanding the basic

Practical : Experiments	the basic procedure and design	procedures of Research
and Tests (Annual)	of psychology experiments	Projects and familiarize
	or psychology experiments	with the use of elementary statistical techniques

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## M.A.-I

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SemI		
PSY – 111 Approaches	To introduce students the basic	Analyse and explain the
and aspects of	aspects of personality. To help	development of
personality	students to understand the	personality.
	development of personality.	
PSY – 112 Cognitive	To introduce the nature and	Identify the primary
psychology	basic processes of cognitive	objectives of cognitive
	psychology to students.	process in day to day life.
PSY – 113	To acquaint student with the	Developing occupational
Advanced	characteristics of standardized	skill in students related
psychological testing	test. To make students	with psychological testing.
	understand the basic	
	psychological testing	
PSY-114 Psychology	To create interest in	The evaluation and
practical (Tests)	psychological phenomenon .To	prediction of specific
	develop awareness of	aspects of human
	psychological tools, test and	behaviour.
	techniques.	
SemII		
PSY – 121 Motivation	To provide a comprehensive	To create awareness about
and emotion	overview of the major theories	the role of biological
	of motivation and emotion.	factors in motivation and
		emotion and emphasize
		the importance of emotion
		in human life.
PSY - 122	To develop understanding of	Understanding the
Cognitive phenomenon	the various cognitive	development and
	phenomenon.	application of cognitive
		phenomenon in human life
PSY - 123 Statistics in	To introduce fundamental	Demonstrate statistical

psychology	concepts about statistics	application for
		psychology.
PSY – 124 Psychology	To acquaint the students with	Application of
practical (Experiments	skills of scientific techniques	experimental findings in
)	of conducting experiments in	day to day life.
	psychology.	

## M.A.-II

SemIII		
PSY –231 Health	To acquaint the students with	Identify the primary
issues and wellbeing	the psychological aspect of	objectives of health
	health.	psychology.
PSY – 232	To provide an overview of	Analyse and explain the
Research methodology	scientific research to students	fundamental principles of
in psychology		Research in Psychology.
PSY – 233 A	To introduce students to the	Family rising students
Psychological disorders	different perspective and	with various assessment
	models regarding the causation	approaches and tools used
	of mental illness and	in clinical psychology
	dysfunctional behaviour.	domains.
PSY - 234 (A) Psycho	To acquaint Students with	Analyse personality
diagnostics	various psychodiagnostic and	theories essential for
	psychotherapeutic procedures	understanding Psycho
		pathology and
		psychotherapies
SemIV		
PSY – 241	To provide an overview of	Identify the primary
Health issues and	basic concepts in health	objectives of our health.
modern life	psychology	Explain the major health
		problems and use
		treatment to cure them.
PSY - 242	To acquaint the students with	Analyse and apply the
Dissertation	the basic procedure of	fundamental principles of
	Research in Psychology and its	Research in Psychology in
	application.	everyday life.
PSY – 243 (A)	To impart knowledge and	Understanding the

Abnormal psychology	skills required for diagnosis of	selection, administration,
	psychopathological conditions.	scoring and interpretation
		of various types of
		psychological tools and
		understanding its
		advances.
PSY – 244 (A)	To train students for planning	Analysing skills through
Psycho diagnostic	and conducting interventions	workshops, case
theory and therapies	for variety of mental health	discussions, role plays,
	problems and therapies.	observations.
Department of Sociology. Course objectives and Outcomes

# F.Y.B.A.

SemI &II					
Paper	Objectives	Outcome			
Introduction to Sociology SOC: 101	To Introduce the Students to the Discipline of Sociology To familiarize students with the basic concepts in Sociology. To Provide basic understanding of the social structure of Society	Students understood discipline and basic concept in sociology and social structure.			

### **S.Y.B.A.**

Sem.III& IV		
Indian Society : Issues	To Sensitive the student to the	Students are able to
and Problems DSC-	Emerging social issues in	understand social issues
SOC 1 C (231)	India.	and are empowered to face
	To Enable them to acquire	social problems.
	sociological understanding of	
	these issues and problems over	
	and above their common sense	
	understanding.	
	To empower them to deal with	
	these issues and problems.	
Foundation of	To familiarize the students	Students are familiarized
Sociological Thought	with the Social, Political,	with social, political,
DSE-SOC 1 A (232)	Economic and Intellectual	economical and
	Context's in which sociology	intellectual context's and

	emerged as a distinctive	understand social
	discipline.	thoughts.
	To Understand the	
	development of Sociological	
	Thought.	
	Understand their Continuing	
	relevance to Contemporary	
	Concerns	
Tribal Society in India	To provide a comprehensive	Students are able to
DSE-SOC 2 A (233)	profile of Tribal people in	provide a comprehensive
	India.	profile of Tribal people in
	To understand the	India.
	Demographic Features, Social	
	Structure and cultural patterns	
	To understand the problems of	
	Tribal people	
	To familiarize students with	
	the welfare policies,	
	development issues and Trial	
	communities.	

### **T.Y.B.A.**

Sem,V&VI		
Indian Society :	To Provide an Introduction of	Students are able to
Structure and Change	Social Structure & Social	provide an Introduction of
SOC. G : 3 – 351	Change.	Social Structure & Social
	To Provide the Student the	Change.
	basic knowledge of Social	
	Structure & Change of Society.	
	To Familiarize the Students	
	about the Major Segment in	
	Social life	
Techniques of	To Introduce Students to the	Students understood
Sociological Research.	Nature of Scientific Method in	Nature of Scientific
SOC. S : 3 - 352	Social Science Research.	Method in Social Science
	To give Students the	Research.

	Understanding about the	
	quantitative and qualitative	
	approach to Research.	
	To enhance the Research	
	interests and inculcate the	
	Spirit of inquiry among	
	students, who may be	
	motivated to continue higher	
	studies in Research.	
Industrial Sociology.	To Provide the Students	Students are able to
(Group-B)	Sociological understanding of	understand work and
SOC. S : 4 - 353	work and industry.	industry. And able to
	To expose the PG Students	understand the Problems
	with the knowledge of	faced by Labour in
	industrialization process and	Organized and
	work.	Unorganized Sector.
	To acquaint the student with	
	dynamics of industrial relation	
	and consequences.	
	To Understand the Problems	
	faced by Labour in Organized	
	and Unorganized Sector	

# M.A.-I

Course Title - Social	To Provide an Introduction of	Students understood basic
Structure and Social	to Social Structure & Social	knowledge of Social
Change	Change.	Structure & Change of
SOC-111	To Provide the Student the	Society and major
	basic knowledge of Social	Segment in Social life.
	Structure & Change of Society.	
	To Familiarize the Students	
	about the Major Segment in	
	Social life.	
Methodology of Social	To Introduce Students to the	Students are able to
Research-I	Nature of Scientific Method in	understand Nature of
SOC - 112	Social Science Research.	Scientific Method in
	To give Students the	Social Science Research.
	Understanding about the	quantitative and

	quantitative and qualitative	qualitative approach to
	approach to Research	Research And Promotes
	To enhance the Research	towards research
	interests and inculcate the	
	Spirit of inquiry among	
	studente, who may be	
	students, who may be	
	motivated to continue nigher	
	studies in Research.	
Industry & Society in	To Provide the Students	Students are able to
India	Sociological understanding of	understand
SOC: 113	work and industry.	industrialization process
	To expose the PG Students	and work and Problems
	with the knowledge of	faced by Labour in
	industrialization process and	Organized and
	work.	Unorganized Sector.
	To acquaint the student with	
	dynamics of industrial relation	
	and consequences.	
	To Understand the Problems	
	faced by Labour in Organized	
	and Unorganized Sector	
Social Demography	To acquaint student with the	Students understood
Social Demography $SOC: 114 (A)$	demographic features and	population Theory and
5000.114 (11)	trends of Indian society	policy Challenges of
	To Orient the Student towards	Population Growth
	issues problems and	r opulation Growin
	Challenges of Depulation	
	Chanenges of Population	
	Growth	
	To provide Sociological	
	understanding of population	
	Theory and policy	
Classical Sociological	This course provides an	Students understood
Theories	introduction to the history of	history of social theory,
SOC 121	social theory.	social and political
	The ideas of these classical	understanding of the
	theories are discussed in the	society, thoughts of Karl
	context of philosophical	Marx, Emile Durkheim,
	traditions, so as to develop a	Max Weber, August
	social and political	Comte, Herbert Spencer.
	understanding of the society.	-

	To make the student			
	understand the sociological			
	thoughts of Karl Marx, Emile			
	Durkheim, Max Weber,			
	August Comte, Herbert			
	Spencer.			
Methodology of Social	To Introduce Students to the	Students understood		
Research	Nature of Scientific Method in	Scientific Method in		
SOC : 122	Social Science Research.	Social Science Research.		
	To give Students the	quantitative and		
	Understanding about the	qualitative approach to		
	quantitative and qualitative	Research. motivated to		
	approach to Research.	continue higher studies in		
	To enhance the Research	Research.		
	interests and inculcate the			
	Spirit of inquiry among			
	students, who may be			
	motivated to continue higher			
	studies in Research.			
Social Problems in	To introduce the students to	Students are able to		
Contemporary India.	the concepts and theories	understand concepts and		
SOC 123	underlying social problems in	theories underlying social		
	India.	problems in India and		
	This paper intends to deal with	social problems.		
	various aspects of social			
	problems.			
Media and Society	To make students know the	Students understand role		
SOC – 124 (A)	role of media in society.	of media, new		
	To orient students to different	methodologies to analyze		
	forms of media in society.	media in the context of		
	To introduce new	globalization, Impact of		
	methodologies to analyze	media on society.		
	media in the context of			
	globalization.			
	To realizes the impact of			
	media on different segment of			
	society			
Sociology of	To Introduction the Students to	Students understood		
Development	the Concepts, Theories and	Socio-economic		
SOC-231	Factor of Social Change	Framework of		

	To Understand the	Development in	
	Contemporary Socio-economic	India, Field of	
	Framework of Development in	Development Planning	
	India	Including Governmental,	
	To Address in Particular the	Non-governmental	
	India Experience of Social	Agencies	
	Development	_	
	To Prepare the Students for		
	Professional Careers in the		
	Field of Development Planning		
	Including Governmental, Non-		
	governmental Agencies.		
Theoretical	To Develop the Understanding	Students understood	
Perspectives in	of Major Sociological	Major Sociological	
Sociology	Perspectives.	Perspectives.	
SOC-232	To Develop the Analytical		
	Abilities of the Students.		
	To Develop Research		
	Orientation of the Students		
	With the Understanding of		
	Major the Oriental		
	Perspectives.		
Gender & Society	To Understand Women in	Students are able to	
SOC-233	India Society With Special	understand Overall	
	Reference to Their Changing	Situation of Women	
	Status and Role.	Under the System of	
	To Understand Overall	Patriarchy in India,	
	Situation of Women Under the	Theories of Gender	
	System of Patriarchy in India.	Relations, Position of	
	To Orient the Students	Women in India Society.	
	Regarding Theories of Gender		
	Relations, Position of Women		
	in India Society.		
	To Introduce the Students to		
	the Debate Regarding Role of		
	Biology& Culture in the		
	Determination of Gender		
	Roles.		
Education and Society	To Contextualize the Study of	Students understood Inter-	
SOC-234 (A)	Education Within the	Relationship Between	

	Discipline of Sociology	Educational System and
	To Orient the Students to the	other Aspects of Society.
	Sociological Perspectives in	
	Education	
	To Introduce Students to Inter-	
	Relationship Between	
	Educational System and other	
	Aspects of Society	
Theoretical	To Sensitize the Students as	Students understood
Perspectives on Indian	Theoretical Perspectives on	Contributions of Select
Society	Indian Society.	Indian Sociologist and
SOC-242	To Develop the Analytical	Social Thinkers.
	Abilities of the Students.	
	To Introduce the Contributions	
	of Select Indian Sociologist	
	and Social Thinkers to the	
	Students.	
Gender & Society	To Understand Women in	Students understood
SOC-243	India Society With Special	women in India Society
	Reference to Their Changing	With Special Reference to
	Status and Role.	Their Changing Status and
	To Understand Overall	Role, Overall Situation of
	Situation of Women Under the	Women, Theories of
	System of Patriarchy in India.	Gender Relations,
	To Orient the Students	
	Regarding Theories of Gender	
	Relations, Position of Women	
	in India Society.	
	To Introduce the Students to	
	the Debate Regarding Role of	
	Biology& Culture in the	
	Determination of Gender	
	Roles.	

#### JDMVPS CO OP SAMAJS SHRI S.S.PATIL ARTS, SHRI BHAUSAHEB T.T.SALUNKHE COMMERCE & SHRI.G.R.PANDIT SCIENCE,

#### (NUTAN MARATHA)COLLEGE,JALGAON.

#### DEPARTMENT OF DEFENCE AND STRATEGIC STUDIES

Sr.	CLASS	PAPER	PAPER	OBJECTIVES	LEARNING OUTCOME
No.		NO.	TITLE		
1.	FYBA Sem I & II	CBCS- Core Course:- DEF-101- A & DEF-201- A	Indian Art of war-I & II	<ul> <li>1.The student attempts to familiarize the student with Defence Studies.</li> <li>2.Become familiar in evolution of art of warfare in India.</li> <li>3.Learn and understand the strategy,tactics,appliction of principle of war and causes of defeat &amp; victory of various Indians,Mughals,Marathas,.</li> </ul>	<ol> <li>The students will immediately connect to the understanding of the course connect because they have introduced with the content at primary level up to their XII th class.</li> <li>The strengthening will help in surrendering the psychological barriers on the part of the students.</li> <li>This newly emerged confidence will also nurture their ability of suing Defence and Strategic Studies .</li> </ol>
02.	SYBA Sem III & IV	CBCS CORE- DSC- DEF-C 231 & 241 (G2)	Indias National Security – I & II	<ol> <li>To develop special subject knowledge on the vital concept of National Security</li> <li>The approaches to achieve National Security (Special reference to India.).</li> </ol>	<ol> <li>Equip the student with specific knowledge of India'ss threat perceptions.</li> <li>An assessment at both internal and external level beside fair idea of problem the country face as nation state.</li> </ol>

3	SYBA Sem III & IV	DSE- DEF-A- 232 &DSE- DEF-B- 242 (\$1)	Contemporary Warfare I & II	1.After completing the paper the students will understand the types of war prevalent in the world.	<ol> <li>Student will have a detailed understading of all types of war and their tactics, nature,scope,and types.</li> <li>Grasp the concept and theories of nuclear war in detail.</li> <li>Clearly understand basic concept of war.</li> </ol>
4	SYBA Sem III & IV	DSE-DEF- A- 233 &DSE- DEF-B- 243	Defence Mechanism and Organization of IndiaI & II	<ol> <li>The Defence of a country is structured on certain organizational pattern and mechanism.</li> <li>It is therefore essential to have a basic knowledge of them in the context of India.</li> </ol>	<ol> <li>Know the higher defence organization of India.</li> <li>Learn about the Defence mechanism of India and evaluate its strength and weekness.</li> </ol>
5	SYBA Sem III & IV	SEC-DEF- 234 (Sem-III) & SEC- DEF-244	Rsearch methodology Defence and strategic studies	<ul> <li>1.This course introduces and discusses approaches, strategic, and data collection method relating to research in Defence and strategic studies.</li> <li>2.Students will consider how to select the appropriate methodology for use in study to be performed</li> </ul>	<ol> <li>Learn the basic step and principle of reserch methodology in Defence and Strategic studies.</li> <li>Learn the research related categeroy and sources how to acess them.</li> </ol>
6	T.Y.B.A. SEM- V & VI	DSC-DEF- E-351 & F-361 (G-3)	International securtiy Issues -I & II	<ol> <li>To create understanding the challenges to International Security and World</li> <li>Peace among the students.</li> <li>To study the International strategic &amp; Security issues.</li> <li>To analyze and evaluate the International security issues.</li> </ol>	<ol> <li>Student will learn about international security issues and world peace.</li> <li>student will learn about the enviromental condition and problem of the entire world.</li> <li>student learn about the anylasis and evolutions of international security issues.</li> </ol>

7	T.Y.B.A. SEM- V & VI	DSE-DEF- C-352 & D-362 (S-3)	Contemporary study of war & peace- I & II	<ol> <li>Students would get to understand the Contemporary war, it's Nature,scope and effects.</li> <li>They shall be in a position of comprehend the concept and Nature of Détente.</li> <li>They would learn the Concept, Nature, Characteristics and Deterrence Strategy.</li> <li>Students would learn different types, techniques, characteristics and contemporary balance of</li> </ol>	<ul> <li>1.Student will be understand the contemporary war and its fuction.</li> <li>2.student will know the importance of Detant and its nature.</li> <li>3.Student will also acquire knowledge of Deterrence and balance of power inworld peace.</li> </ul>
8	T.Y.B.A. SEM- V & VI	DSE-DEF- C-353 & D- 363 (S-4)	Geostrategy and Military Geography	power. 1] To learn the concepts and relevant attributes of Geo - politics and military geography for national security. 2] To study the Concept and difference between Frontiers and Boundaries, its various types; and they shall be in a position to comprehend strategic policies for a nation state and most especially for India.	<ul> <li>1.after compliting this syllabus student will learn to the concepts and relevant attributes of Geo - politics and military geography for national security.</li> <li>2.Student will be understand the difference between Frontiers and boundries.</li> </ul>
9	T.Y.B.A. SEM- V & VI	SEC-DEF- 354 & 364	Defence Research & Defence production	<ol> <li>To enhance the knowledge and skill of the students regarding India's defence</li> <li>research and production.</li> <li>To provide an overview of the progress of India in defence research and defence production.</li> <li>To make the students aware with the advancement and its development in the field of defence research and defence production.</li> </ol>	<ul> <li>1.Student will learn about Indias Defence research &amp; production Industries.</li> <li>2.student learn about how to F.D.I invest in indias defence production industries and policy of India government for make in India.</li> <li>3.Student understand about the structure of Indias defence production department as well as private sector defence research and production industries.</li> </ul>

10	T.Y.B.A. SEM- V & VI	GE –DEF- A-355 & B- 365	Disaster Management & security- I & II	<ol> <li>To understand the concepts of disaster and disaster management.</li> <li>To study the Structure, role and problems of disaster management in India.</li> <li>To assess the India's disaster management mechanism.</li> </ol>	<ul> <li>1.StudentsUnderstanding the concept of Disaster manegment in detail</li> <li>2.They will also come to know about both natural &amp; manmade and its impact on society and ecological system</li> <li>3.student will also acquire knowledge on policies and actions regarding prepardness, mitigation, relief and rehabitation of Indias govt.&amp; NGOs.</li> </ul>
11	M.A Ist SEM – I & II	DEF-111 & DEF- 121	Indian Military History & International relation	<ul> <li>1. The paper deals with military organization of various armies since ancient time with special reference to their strategies and tactics adopted in the decisive battles fought in India</li> <li>2. the paper offers various theories and concepts approaches to international relations including issue of current relevance.</li> </ul>	<ol> <li>Become familier in evolution of art of warfare in India.</li> <li>Beside, in a position to appreciate &amp; understand evolutionary changes in the art and since of war in india through ages.</li> <li>student learn basic concept of theories of international relation and approches to disarmament and arms control.</li> </ol>
12	M.A Ist SEM – I & II	DEF-112 & 122	National Security & Research Methodology	<ul> <li>1.To acquaint the student with National Security of india with Special Reference to External &amp; Internal security and threst to india.</li> <li>2. This introduces the students to various tools and approaches used in social sciences and the formulation of a Research Framework.</li> </ul>	<ul> <li>1.Develop core competencies in national security affairs by building her capacity on essential of national security through theory and practice.</li> <li>2.Undesrstanding the national security challenges both internal &amp; external of country face.</li> <li>3.learn the basic step of research and learn differentt categeories f sources &amp; hw to aaccess them &amp; utilize them in their academic endavours.</li> </ul>

13	M.A Ist SEM – I & II	DEF- 114 & 124	Geopolitics & military geography & Major crisis in post cold war era.	<ul> <li>1.The paper deals with military Geography of various Geopolitics since</li> <li>19<sup>th</sup> century with special reference to their strategies and tactics adopted in the decisive Changes in World history.</li> <li>2. This paper offers broad reference to strategy tactic on major International conflicts taken place in various regions of the world after Cold war-II.</li> </ul>	<ul> <li>1.Learn the concept &amp;relevant attributes of geo- politics &amp; military geography for national security.</li> <li>2.They shall be in position comperhead strategic policies for a nation state &amp; most especially India im our case.</li> <li>3.Student learn about how tense in the world incresed after WW-II as well as the great struggle that took place all over the world.</li> </ul>
14	M.A Ist SEM – I & II	DEF-115 & DEF-126	Defence Economics & Theories of war & peace	<ol> <li>The paper focus on the defence economic theories and India's defence production and present defence policy.</li> <li>This paper is offers various theories of war &amp; peace and issues related to world politics.</li> </ol>	<ol> <li>student learn the art of mobilizing resources foe war ,be it physical,fiscal or moral.</li> <li>The importance of logistic in war &amp; the role of defence planning,programming and budgeting in india.</li> <li>student will have a detailed understanding of concept of war &amp; peace.</li> </ol>
15	M.AII Sem- III & IV	DEF- 231 & DEF- 241	Indias foreign policy & International organization	1.The paper covers India's Foreign policy structure in dealing with our national interest and core values. 2.The paper introduced Evolution of International organizations and Structure of all regional and International organization with peace building and India's role of this organization including issue of current relevance	<ul> <li>1.Student will get detailed information about Indisa foreign policy objectives and Indias relation with other countrys.</li> <li>2.Student understand about the origion and imporatance of international organization.</li> </ul>

16	M.AII Sem- III & IV	DEF – 232 & DEF- 242	Regional security in south asia & Indias maritime security	1.The paper introduced Evolution of International organizations and Structure of all regional and International organization with peace building and India's role of this organization including issue of current relevance 2.The paper focusing India's maritime security challenges & World major power interest in Indian ocean.	<ol> <li>Understand the theoratical dimension of regional security in south asia.</li> <li>Conceptual dimenssion of regional security, regional co- operation and military alliances.</li> <li>Realize the importance of oceans for a state in terms of its survival &amp; sustance especially India being penisular country.</li> </ol>
17	M.AII Sem- III & IV	DEF – 234 & HIS - 243	Nuclear biological & chemical warfare & Science technology & national security	<ol> <li>This paper is focusing on various types of WMD related information and there proliferation Impact to Global Security.</li> <li>Science and Technology is deep impact of National Security in 21ST century every Sovereign Stop the build the cover to protect our self via Science and Technology &amp; Preparedness.</li> </ol>	<ol> <li>Learn &amp; anticipate prolifering use of WMDS and preventions.</li> <li>Acquire knowledge on how significant the role of science and technology is to society and to national security.</li> <li>Understanding the concept &amp; appliction of electronics system in military activity &amp; non military use of modern technologies &amp; national security.</li> </ol>

18	M.AII	DEF –	Guerilla	1. This syllabus studies	1.Student know about
	Sem-	235	warfare &	established new peaceful	guerilla warfare and low
		233	tactics	society with trust and	intensity conflict.
	III & IV	Å.	&	communication. Society	2.how counter insurgency
		DEF –	Disaster	knows effects of conflicts	operation are carried out
		345	management	and need find out the	world wide & India in
				ground solutions on low	perticuler.
				intensity conflict.	3.Understand the concept of
					Disaster manegment in detail
				2. The paper focus on	4. They will also come to
				Disaster types and	know about both natural &
				management in India. Also	manmade and its impact on
				paper cover role of Indian	society and ecological
				government and NGOs.in	system
				Disaster Management	5.student will also acquire
				planning and Process.	knowledge on policies and
					actions regarding
					prepardness, mitigation, relief
					and rehabitation of Indias
					govt.& NGOs.

Department of Botany. Course objectives and Outcomes

# F.Y.B.Sc.

SemI						
Paper	Objectives	Outcome				
BOT -101 : Microbial Diversity,Algae and fungi	To acquaint students with basic concepts of microbial diversity of bacteria, virus and microbes. To study systematic Position, stracture, and function of Algae and fungi.	After successful completion of this course students are expected to: Understand the basic microbial structure and study the comparative characteristics of prokaryotes and eukaryotes and also Understand the structural similarities and differences among various physiological groups of bacteria/archaea Know general bacteriology and microbial aspects pertinent to bacteria, fungi and algae To understand the life cycle patterns of Algae and fungi To study the useful and harmful bacteria and virus.				
BOT -102 : Plant	To complement the students	After successful				
Taxonomy	with the basic knowledge	completion of this course				
	piant and taxonomy.	students are expected to:				
	Angiosperms	comparative account				
	Aligiosperilis	among the families of				

		Angiosperms. To study the economic important of the angiospermic plant Also to understand the distinguishing features of the angiosperms families. Student will be able to understand the basic knowledge of botanical gardens
BOT -103 Practicals based on BOT 101 &102	To understand the life cycle patterns of Algae and fungi To study the useful and harmful bacteria and virus. Student will be able to understand the basic knowledge of botanical gardens	After successful completion of this course students are expected to: To understand the life cycle patterns of Algae and fungi To study the useful and harmful bacteria and virus. Student will be able to understand the basic knowledge of botanical gardens.
SemII		
BOT -201 : Diversity of	To study salient features of	After successful
Archegoniates	Archegoniates	completion of this course
	To study the life cycle of	students are expected to:
	selected genera	To make it students
	To study economic and	aware of the status of
	ecological important of	higher Cryptogams and
	Archegoniates.	gymnosperms as a
		group in plant kingdom To understand their life
		cycle patterns, structure,
		Reproductive str
BOT-202 - Plant and	To know if scope and	After successful
Ecology	important of the discipline.	completion of this
	<u> </u>	-

	To study plant communites and ecological adaptation in plants. Also identity the ecological instrument.	course students are expected to: Student will be able to understand the how to conservation of biodervsety. To know the basic concept of ecology such as biotic and abiotic factors.
BOT 203 Practicals based	To handle ecological	Learn proper handling
on BOT 201 &202	instruments.	of PH meter, soil
		thermometer, Hair
		hygrometer etc

# S.Y.B.Sc.

SemIII		
BOT - 301: Plant and Anatomy.	To acquaint students with basic concepts of plant anatomy	After successful completion of this course, students are
	To know scope and importance of plant anatomy. To study various tissue system . To study protective tissue system.	<ul> <li>course, students are</li> <li>expected to:</li> <li>understand the basic</li> <li>knowledge of anatomy.</li> <li>Student can easy</li> <li>understand the types of</li> <li>tissues.</li> <li>Various knowledge for</li> <li>meristematic tissues and</li> <li>permanent tissues.</li> <li>To well know the how</li> <li>to describe primary</li> <li>stracture of dicot and</li> <li>monocot plant.</li> <li>To study normal</li> <li>secondary growth in</li> <li>plant and their cause.</li> <li>To study protective</li> </ul>
		Stomata, epidermal

		appendages, epidermal
DOT 202 DI	The second second states	
BOI - 302: Plant	To complement the	After successful
Physiology	students with the basic	completion of this
	knowledge about plant	course, students are
	physiology.	expected to:
	To know importance and	demonstrate theory in
	scope of plant	plant physiology.
	physiology.	Student will be able to
	To study plant and plant	understand the different
	cell in relation to water	processin relation with
	To understand growth at	stracture of organisms
	various level.	and it's environment.
		Study the plant cell and
		water relation and also
		understand the
		mechanism of
		absorption of water,
		gases and solute.
		Well knowledge
		develop for process of
		transpiration, theories of
		stomatal opening and
		closing, factors
		affecting rate of
		transportation.
		Identify the plant
		growth hormone eg.
		Auxin, gibberellins,
		cytokinins etc.
BOT - 303: Practical	To introduce the students	After successful
Paper-III	to various structural of	completion of this
1	tissue.	course, the students are
	Practical knowledge	expected to:
	develope by taking	learn proper handling of
	different sections of plant	microscope. And how to
	materials.	cutting the section of
		plant materials
		perform specific
		staining techniques and
		acquired skill of
		handling microscope
		while observing stained

		preparations. able to demonstrate physiological experiments To study the effect of two environmental factors (light and wind) on transpiration by the excited twing
BOT-304 SEC- I: Mushrooms Culture Technology	To learn the History, scope and importance of mushroom technology. To understand the economic of mushroom cultivation	Excited twing .After successful completion of this course, students are expected to: competently explain various aspects of mushroom cultivation.Well understand the nutrition and medicinal value of edible mushrooms. To know their scope and importance. To understand the cultivation technology To know about the storage, marketing and various food preparation of mushroom. To develop the their pseravtive quality.
SemIV		
BOT- 401:- Plant Embryology.	To understand the scope and importance of embryology To study stracture of microsporangium and magasporangium. To give exposure of techniques in embryoloy.	After successful completion of this course, the students are expected to: Understand the importance of plant embryology To well knowledge develop for stracture Micro. And mega

		sporangium. To study pollination, fertilization, endosperm and embryology. Also understand the seed stracture and dispersal by wind
		dispersal by water, by
BOT – 402 Plant metabolism	To understand the scope and importance of plant metabolism. To study the	After successful completion of this course, the students are expected to:
	properties, mechanismand classification of enzymes To study respiration in higher plant.	understand the process of photosynthesis in higher plant C3,C4 and CAM pathways. To study mode of enzymes are action, role of photosynthesis pigment : chlorophyll, I carotenoida and phycobillins. Also identity the mechanism of Aerobic respiration and Anaerobic respiration. well knowledge develop for nitrogen metabolism
BOT -403 Practical	To enhance practical skills of observing the permanent slide of T.S of microsporangium. T. S of ovules and different kind of embryo Sac.	After successful completion of this course students are expected to: Structure and functions of Micro. And magasporangium. Able to mounting of embryo from suitable seed. Study the Activity of catalase and study the effect of PH and enzyme concentration. Know chromatography

e able to n and f l CO2
5
ul this course apected to: the ve an o create out home creat skill gardening vill ar with lifferent cing a rsary. lge otanical a, also their actice, lue and enance

# T.Y.B.Sc.

SemV		
BOT 501- Lower	To develop and	Students will be able
Cryptograms	understanding of the	to understand the
(Theory and Practical)	Economic and ecological	cryptograms as a
	important of	group in plant
	cryptogramic plant	kingdom

BOT 502 – Morphology	To understand structure and	Students will be able to
and systematic s of	function and	understand structure,
Angiosperm.	morphology of Angiosperm	function and
(Theory and Practical)	plant	morphology of
	Also understand the how to	different Angiospermic
	describe their	plant.
	floral parts and formulas	And vegetative
		character's of
		Angiospermic plant.
BOT. 503 – Cell	To determine how cells or	Students will be able
Biology and Genetics.	organelles performance	to identify the physical
(Theory and Practical)	different function in plant	and chemical
	body.	properties of plant cell.
	And also introduced cell	To introduce the
	cycle, history of genetic and	students with ,"science
	heredity.	of Heridity."
BOT 504 – Plant	To develop and understand	Students will be able
Physiology and	of growth pattern of plant	to develop
Biochemistry .	and their physiological	fundamental
(Theory and Practical)	method you introduce the	knowledge in how to
	secondary metabolites of	factor affecting to
	plant	growth in plant .And
		secondary metabolites
		role in plant.
BOT. 505 – Biofertilizers.	To understand and introduce	Students will be able to
(Skill Enhancement	application of biofetilizers	identify the familiarize
Course)	technology in agriculture.	with microbes and used
		as biofertilizers and
		well knowledge for
		Application in
		biofertilizers
BOT 506 (B) –	To understnd different	Students will be able
Horticulture.	Horticulture method and	to understand method
(Elective Course)	their practice	of preservation and
		preparation of
		preserved products
		prevailing especially
		in this part of the state
Sem. VI		
BOT 601 – Higher	To understand the life cvcle	Students will be able
Cryptograms.	of higher cryptograms for	to understand

(Theory and Practical)	selected genera	economic importante
		of higher cryptograms
		plant.
BOT.602 Gymnosperms	To understand the study of	Students will be able to
and Paleobotany	Gymnosperms with	identify developmental
(Theory and Practical)	distinguishing characteristics	study of life cycle of
	with their classification.	"Pinus and
	Introduce the scope of	Gnetum".
	paleobotany, types of	And also introduce the
	fossils and geological time	various fossil genera
	scale.	representing different
		fossil group
BOT 603 – Molecular	To understand structure and	Students will be able
Biology.	function of cell and	to understand structure
(Theory and Practical)	molecular organization of	and function of
	nucleic acid .	different cell
	To understand the tools and	organelles and the
	techniques in molecular	molecular organization
	biology	and role of nucleic
		acids.
BOT .604 – Economic	To understand the useful bio	Students will be able
Botany	prime important to mankind	to the acknowledge
(Theory and Practical)		about various groups
		of plant of the world
		as well of India.
BOT 605 – Floriculture	To understand floriculture	Students will be able to
(Skill Enhancement	and it's important and	learn different
Course)	different features of garden.	techniques of the
		commercials
		floriculture.
		To create efficiency for
		pant propagation
BOT 606 (B) – Plant	To understand the techniques	To introduce the
Breeding.	of productions of new	students with branch
(Elective Course)	Superior Crop verities.	of
		plant breeding for the
		survival of human
		being from starvation.

#### **M.Sc.-First Year**

SemI		
BOT 101- Angiosperms Taxonomy (Theory and Practical)	To understand general range of variation in the group angiosperms. To study character of biological important families of angiosperms. Identify genus and species with the help of flora of the plant material.	Students will be able to understand the various rules, principles and recommendations of plant nomenclature. To know modern trend in taxonomy.
BOT 102 – Environmental Botany and Biostatistics (Theory and Practical)	To understand the the environment botany. To study the nature and it's co-relation with human society. Also improve environmental Ethics. Identify the sampling method, mean mode and median.	Students will be able to understand the how to impact of human activities on environment. To understand global issues concernd with environment. To understand sustainable development and care of environment To understand the relationship between economic growth and environment degradation.
BOT.103Cytogenetics, and Molecular Biology (Theory and Practical)	To study structural organizations and variation in chromosomes as well as karyotype analysis. To study method gene regulations, in prokaryotes and eukaryotes. Well know as DNA replication, repair and recombination.	Students will be able to study extra - chromosomal inheritance in plant system. To understand the molecular biology in relation to genetic material it's inheritance, modification replication and repair.

BOT 201 – Diversity of	To understand the salient	Students will be able to
lower Cryptogams	freature of Algae and	understand the
(Theory and Practical)	Fungi.	diversity of lower
	To study algae and fungi for	Cryptogams in plant.
	human welfare	To study the life cycle
		patterns in lower
		Cryptogams.
		To develop well
		knowledge for section
		cutting it and staing for
		lower Cryptogams pant
		materials.
BOT. 202– Diversity of	To understand study of	To make students aware
Higher Cryptogams	higher Cryptogams eg.	of the status of higher
(Theory and Practical)	Bryophyta and pteridophyta.	Cryptogams as group in
	To study method economics	plant kingdom.
	important of higher	To study distinguishing
	Cryptogamic plant.	features, interrelationship
	To understand the which one	,phylogeny and
	contribution of indian	evolutionary.
	pteridologist	Also make well
	For eg. S. S. Bir	knownlegs for section
	B.k.Nayar. etc.	cutting.
	Was contribution of Indian	
	pteridologist.	
BOT 203 - Plant	To understand plant structure	Students will be able to
Physiology and	in the context of	understand physiological
Biochemistry.	physiological functions of	details of photosynthesis
(Theory and Practical)	plant.	and respiration.
	To understand the stress of	How to make plant
	plant and it's adaptation.	metabolites synthesized
		and their redox system
		of plant.

# M.Sc.II

Sem. –III		
BOT 301- Gymnosperms	To develop and	Students will be able to
and Paleobotany.	understanding of the	understand the
(Theory and Practical)	diversity of Gymnosperms in	evolutionary trend and

	india.	affinities of living
	And study applied aspects of	gymnosperms with
	paleobotany.	respect to external and
		internal freature.
		And important of
		fossils type in different
		group of plant .
BOT 302 – Plant	To understand the	Students will be able to
Biotechnology and	fundamental of totipotent,	understand plant tissue
Bioinformatics	plant tissue culture	culture have been
(Theory and Practical)	techniques .And also	suitable amended
	understand the application of	wherever needs but the
	the plants tissue culture and	basic aspects remain
	transgenic plant in the field	the same expect for
	of botany.	new addition.
BOT. 334 – Angiosperm	To understand the	Students will be able
Taxonomy .( Special	classification in	to identify the
paper -I )	Angiosperm and study of	different family plant
(Theory and Practical)	primitive and advanced	and their taxonomic
	groups of Angiosperm .	structure of
	To understand different	angiosperm .And also
	orders of taxonomy.	study orderl if 'Engler
	To introduce the local flora	and Prantal' system of
	angiosperms.	classification.
		Student make expertise
		for identification of the
		local angiospermic
		plant.

# Sem. –IV

BOT 401 –	To understand the vascular	Students will be able to
Developmental Botany.	,structure of wood and	understand the
(Theory and Practical)	anomalous secondary	sturtcture and
	growth, adulteration and	development of,
	forensic files botany.	magasporangium,
	To study method of	microsporangium,
	pollination and fertilization.	embryo and
		endosperm. And
		development of
		structure of pollen
		grain

BOT. 424 –	To understand study	Students will be able to
Angiosperms Taxonomy	biosystematic and numerical	identify ultrastructural
special day paper -II	taxonomy.	systematic.
(Theory and Practical)	Also introduced	To study angiospermic
	chemotaxonomic	phylogeny Grup system
	investigation, techniques	Application of data in
		the classification of
		higher taxa.
BOT 434-	To understand wood anatomy	
Angiosperms taxonomy	To study ecological anatomy	
special paper III	of angiosperms.	
(Theory and Practical)	Also identity different from	
	school of embryology and	
	their contribution.	

Department of Chemistry. Course objectives and Outcomes

# F.Y.B.Sc.

SemI		
Paper	Objectives	Outcome
CH-101 Physical and Inorganic Chemistry	Develop the knowledge of basic principles of physical chemistry and to introduce mathematical preparations. Introduction to periodic properties with reference to S-Block elements	Students are able to understand the basic principles of physical chemistry and the skills of mathematical preparations. Students understood periodic properties of S-Block elements and were able to co-relate the same.
CH-102 Organic and Inorganic Chemistry	Give introduction of organic chemistry with reference to hydrocarbon, halogen derivatives, alcohol phenol ether. Knowledge of ionic Equiliberia, Knowledge of shapes of covalent molecules with reference to VSEPR.	Students understood organic chemistry with reference to hydrocarbon, halogen derivatives, alcohol phenol ether. Students came to know various terms, equations and ability to solve numerical of ionic Equiliberia, They learnt to draw shapes of electronic structures of covalent molecules.
CH-103 Chemistry Practical	Develop the skill to handle instruments, preparation of solutions and analytical experiments. Introduction to basic inorganic qualitative analysis.	Students were able to develop the skill to handle instruments, preparation of solutions and analytical experiments. Students understood basic inorganic qualitative analysis.
SemII		
CH-201 Physical and	Develop knowledge of	Students were able to understand

Inorganic Chemistry	physical properties of	physical states of matter.
	matter.	They are able to understand
	Develop knowledge of	metallurgical processes and properties
	metals and metallurgy as	of P-Block
	well as P-Block elements	
CH-202 Organic and	Introduction to various	Students gained the knowledge of
Inorganic Chemistry	organic compounds like	various organic compounds like
	aldehydes, ketones,	aldehydes, ketones, carboxylic acids
	carboxylic acids and	and their derivatives with reference to
	their derivatives.	their preparation and properties.
	Basic knowledge of	Students understood volumetric
	volumetric analysis and	analysis and bond and structure of
	bond and structure of	molecules.
	molecules.	
CH-203	Develop skill to perform	Students were able to develop skill to
Chemistry Practical	simple physical	perform simple physical chemistry
	chemistry experiments	experiments and analytical chemistry
	and analytical chemistry	experiments.
	experiments.	Students were introduced to basic
	Introduction to basic	organic qualitative analysis.
	organic qualitative	
	analysis.	

### S.Y.B.Sc.

SemIII		
CH-301	To know Physical	Students came to know the physical
Physical and Inorganic	properties of solutions,	properties of solutions, and understand
chemistry	colligative properties of	colligative properties and able to solve
	solution.	the numerical.
	Introduction to D-Block	They understood various terms of the
	elements.	D-Block Elements.
CH-302 Organic and	Introduction to	Students gained the knowledge of
Inorganic Chemistry	stereochemistry with	stereochemistry with reference to
	reference to projection	projection formula, optical and
	formula, optical and	geometrical isomers, conformational
	geometrical isomers,	isomers, stereochemistry of cyclohexan.
	conformational isomers,	They developed knowledge of
	stereochemistry of	heterocyclic and polycyclic compounds,
	cyclohexan.	solvents, solutions, acids and bases.

	To develop knowledge	
	of heterocyclic and	
	polycyclic compounds	
	solvents solutions acids	
	and bases	
CII 202	Develop skill to perform	Students are able to perform prostical
CH-303 Chamistry Prosting1	Develop skill to perform	students are able to perform practical
Chemistry Practical		based on physical and organic
	experiment, volumetric	chemistry, chromatography and
	and chromatographic	volumetric analysis.
	analysis.	
	Prepare organic	
	compounds.	
CH-304	Introduction to analytical	Students were able to understand
Advanced Analytical	chemistry and	principle and of acid base titration and
Chemistry(Skill	volumetric analysis with	precipitation titration and
enhancement course)	reference to acid base	chromatographic methods.
	titration and precipitation	Students were able to understand
	titration and	sampling, accuracy, errors and good
	chromatographic	laboratory practices.
	methods.	
SemIV		
CH-401	To give knowledge of	Students gained the knowledge of
Physical and Inorganic	electro chemistry and	electrochemistry and chemical
chemistry	chemical	thermodynamics and gained the ability
	thermodynamics.	to solve the numerical.
	Introduction to	Students understood coordination
	coordination chemistry.	chemistry, complexes, their
		nomenclature, Ligands and chelates
CH-402	Introduction to organic	Students knew synthetic reagents and
Organic and Inorganic	synthesis with reference	organo metallic compounds, their
Chemistry	to AAE, ME and organo	preparation and uses.
	metallic compounds.	Students developed the ability to
	Introduction to	understand combination of orbitals,
	molecular orbital theory	molecular orbital treatment LCAO
CH-403	To develop skill to	Students developed skill to handle
Chemistry Practical	handle instruments and	instruments and perform physical
	perform physical	chemistry experiments.
	chemistry experiments.	Students learnt to identify organic
	To identify organic	compounds, to prepare inorganic
	compounds, to prepare	compounds and gravimetric analysis
	inorganic compounds	

	and gravimetric analysis	
CH-404	To know the volumetric	Students gained the knowledge of the
Advanced Analytical	analysis with reference	volumetric analysis with reference to
Chemistry(Skill	to redox and	redox and complexometric titration,
enhansment course)	complexometric titration,	methods and gravimetric analysis.
	methods and gravimetric	
	analysis.	

#### T.Y.B.Sc.

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SemV		
CH-501 - Principles of	To acquire knowledge	After successful completion of this
Physical Chemistry-I	about rates of chemical	course, students are expected to:
	reactions and	Understand the significance of wave
	distinguishing the	function and postulates of quantum
	reaction of different	mechanics.
	order and their	Deduce rate equations and half-life
	characteristics.	equations for first and second order
	To understand the basic	reactions
	principles of phase rules	Draw and explain the one and two
	and phase diagrams.	component system phase diagrams.
	To learn the underlying	Explain the principles of electrode
	principles of electrode	processes and apply them during
	reactions, electrochemical	Practicals.
	cells and applications of	
	EMF	
CH-502 Subject-	To describe the VSEPR	Learn about the VSEPR theory and
Inorganic Chemistry	theory to predict shape	how it can be used to explain molecular
	of molecules from	shapes.
	electron pairs.	Learn about the VBT to describe the
	To describe the bonding	formation of covalent bonds in terms of
	in simple compounds	atomic orbital overlap.
	using VBT.	Learn about stability of complexes
	To describe the	using CFSE.
	principles of VBT to	Learn about MOT to draw energy
	predict hybridization of	diagrams and to predict bond order
	orbitals.	
	To understand how CFT	
	explains electronic	

	structure, colour and	
	magnetic properties of	
	co-ordination	
	compounds	
	To introduce the basic	
	To infload the basic	
	principles of WOT and	
	electronic geometry of	
	molecules	
CH-503- Organic	To study different types	Students will learn organic reactions
Reaction Mechanism	of organic reactions.	like nucleophilic substitution,
	To understand the	electrophilic substitution, nucleophilic
	mechanisms of different	addition, electrophilic addition and
	types of reactions.	elimination.
	To distinguish between	Students will be able to write/ explain
	types of substrates and	mechanisms of those types of reactions.
	types of reagents.	Students will understand how a reaction
	To understand ways of	takes place in one or more steps.
	attack of reagent,	Students will understand the types of
	breaking and formation	intermediates formed in different
	of bonds in different	reactions.
	reaction mechanisms.	Students will learn how reagent attacks
	To study kinetics,	the substrate molecule and accordingly
	evidences and factors	how bonds break and formed.
	affecting different types	Students will learn how change in
	of reactions.	structure of substrate, reagent and
	To study stereochemistry	solvent changes the product formed and
	of different reactions.	its stereochemistry.
	To understand role of	Students will be able to predict the
	different reagents in	products and to suggest the mechanisms
	different reactions	
CH-504 - Industrial	To produce graduates	Student will be able to understand.
Chemistry	with enhanced skills	Basic requirements of Chemical
Chemistry	applied knowledge	Industry different terms operations and
	aptitude to carry out	processes involved in chemical
	higher studies or	Industry
	research and	Describe Conv Right Act Patent Act
	development in the	and Trade Marks Bureau of Indian
	various industrial areas	Standards (BIS) and International
	To make the student	Organization for Standardization (ISO)
	cognizant about	Basic requirements, raw materials.
	important aspects of	different processes and operations
	Chemical Industries	involved in Sugar Industry and also
	Industrial work culture	different grades of sugar and uses of
CH-503- Organic Reaction Mechanism CH-504 - Industrial Chemistry	To study different types of organic reactions. To understand the mechanisms of different types of reactions. To distinguish between types of substrates and types of reagents. To understand ways of attack of reagent, breaking and formation of bonds in different reaction mechanisms. To study kinetics, evidences and factors affecting different types of reactions. To study stereochemistry of different reactions. To understand role of different reagents in different reactions To produce graduates with enhanced skills, applied knowledge, aptitude to carry out higher studies or research and development in the various industrial areas. To make the student cognizant about important aspects of Chemical Industries, Industrial work culture	Students will learn organic reactions like nucleophilic substitution, electrophilic substitution, nucleophilic addition, electrophilic addition and elimination. Students will be able to write/ explain mechanisms of those types of reactions. Students will understand how a reaction takes place in one or more steps. Students will understand the types of intermediates formed in different reactions. Students will learn how reagent attacks the substrate molecule and accordingly how bonds break and formed. Students will learn how change in structure of substrate, reagent and solvent changes the product formed and its stereochemistry. Students will be able to predict the products and to suggest the mechanisms Student will be able to understand: Basic requirements of Chemical Industry, different terms, operations and processes involved in chemical Industry. Describe Copy Right Act, Patent Act and Trade Marks, Bureau of Indian Standards (BIS) and International Organization for Standardization (ISO). Basic requirements, raw materials, different processes and operations involved in Sugar Industry and also different grades of sugar and uses of

	and environment.	by-products of sugar industry.
	To prepare the students	Importance of fermented products,
	for immediate entry to	basic requirements, theory and process
	the workplace with	of alcohol making, fractional
	sound theoretical	distillation and various terms involved
	knowledge and some	in Fermentation Industry.
	basic experimental	Understand Occurrence of Petroleum,
	concepts in the area of	theories of formation of Petroleum and
	various industries viz.	different terms Viz. Knocking, Anti-
	Sugar Industry,	Knock Compounds, Octane number,
	Fermentation Industry,	Cetane number, Gasohol and Power
	Petroleum and	alcohol etc.
	Petrochemicals.	Manufacturing processes involved in
	To offers the synergism	Industrial Organic Synthesis such as
	between basic concepts	Methanol, Isopropanol, Glycerol,
	of Chemistry with	Acetylene and Aromatic hydrocarbon
	Industrial applications.	i.e. Toluene from petroleum with their
	To equip the students	uses.
	with knowledge of some	
	industrial organic	
	synthesis as requirement	
	of diverse chemical	
	industries.	
	Empower the students to	
	understand the concepts	
	in chemical	
CH-505 Subject-	To develop an	Explain the fundamentals of analytical
Analytical	understanding of the	methods and instruments for qualitative
Instrumentation	range and uses of	and quantitative Analysis.
	analytical methods in	Express the role of analytical chemistry
	chemistry.	in science.
	To understand and	Students will be able to function as a
	establish the role of	member of aninterdisciplinary problem
	chemistry in quantitative	solving team.
	analysis.	
	To enhance the	
	Analytical instrumental	
	skill of the students.	
CH-506(A) -	To study different types	Students will study biomolecules like
Biochemistry	of biomolecules.	carbohydrates, amino acids, proteins,
	To study structure of	enzymes, lipids and nucleic acids.
	biomolecules.	Students will understand definitions,
	To study classification of	classifications and examples of these

	each type of	biomolecules.
	biomolecules.	Students will learn the detailed
	To study reactions of the	structure of these biomolecules along
	biomolecules.	with types of bonds or linkages present
	Study of metabolism and	in their molecules.
	thus, study of metabolic	Students will learn the chemical
	processes and reactions	properties of these biomolecules and
	involved.	the action of some reagents on them in
	To study energetics of	the form of reactions or graphical
	the metabolic processes.	presentation.
	Students should	Students will understand biochemical
	understand: Structure	energetics of common energy rich
	and role of	compounds along with hydrolytic
	Carbohydrates, Amino	reactions. Students will learn
	acids, Proteins,	metabolisms like Glycolysis, TCA
	Enzymes, lipids, Nucleic	cycle, Transamination, deamination and
	Acids and energy rich	$\beta$ - oxidation through reactions, enzymes
	compounds in	involved, outlines and energetics
	biochemical reactions	
CH-507 Physical	To develop skills	Students will get basic analytical and
Chemistry Practical	required in chemistry	technical skills to work effectively in
	such as the appropriate	the various fields of chemistry.
	handling of apparatus,	Students will able to calibrate and
	instruments and	handle instruments like conductometer,
	chemicals.	potentiometer, pH meter, colorimeter,
	The student will learn	spectrophotometer, polarimeter.
	the laboratory skills	They have ability to perform accurate
	needed to design, safely	quantitative measurements with an
	conduct and interpret	understanding of the theory and use of
	chemical research.	contemporary chemical
	To expose the students to	instrumentation, interpret experimental
	an extent of	results, perform calculations on these
	experimental techniques	results and draw reasonable, accurate
	using modern	conclusions.
	instrumentation.	They get skills required in chemistry
	The student will develop	such as the proper handling of
	the ability to effectively	apparatus and chemicals.
	communicate scientific	They will have ability to present
	information and research	scientific and technical information
	results in written and	resulting from laboratory
	oral formats	experimentation in both written and
		oral formats. Students will apply
		conductometer, potentiometer, pH

		meter colorimeter spectrophotometer
		neter, colorimeter, spectrophotometer,
		and massurement
CIL 500 L		
CH-508 -Inorganic	To analyze the inorganic	Student will able to determine cation &
Chemistry Practical	mixtures.	anion from inorganic mixtures by using
	To determine metal from	qualitative analysis.
	ore and alloy analysis.	Student will able to determine metal
	Using colorimetric	from ore & alloys.
	analysis to determine	Students will be able to design & carry
	amount of metal.	out scientific experiments as well as
		accurately record & analyze the results
		of experiments.
		Students will be able to handle
		colorimeter for estimation of metal ions
CH-509 - Organic	To develop skills	Separate and analyze binary water
Chemistry Practical	required in chemistry	insoluble mixture.
5	such as the appropriate	Separate and analyze binary water
	handling of apparatus	soluble mixture.
	and chemicals.	Estimate - Acetamide, Glucose and
	The student will learn	Glycine by volumetric method
	the laboratory skills	Estimate basicity of various acids
	needed to design safely	Synthesis of various organic
	conduct and interpret	compounds through greener
	chemical research	alternatives
	To avpose the students to	Understand Thin Layer
	in expose the students to	Chromotographic techniques and
	an extent of	physical constant
	experimental techniques	physical constant.
		Understand the purfication technique
	Instrumentation.	use in organic chemistry.
	The student will develop	
	the ability to effectively	
	communicate scientific	
	information and research	
	results in written and	
	oral formats	
SemVI		
CH-601 - Principles of	To learn the basics of	After successful completion of this
Physical Chemistry-II	molecular spectroscopy	course students are expected to:
	and rotational spectra	Analyze the rotational spectra of
	To understand the basic	diatomic molecules and determine the
	nrinciples and	bond length
	principles and	oond lengui.

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spectroscopy.
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Interpretation of UV, IR,
NMR spectra.
Use of spectral data for
determination of
structure of unknown
organic compounds.
To study different
applications of each type
of spectroscopy

CH-604 - Chemistry of	To make student	Student will be able to understand:
Industrially Important	perceptive about various	Describe the industrial production of a
Products	commodity industries	number of important organic and
	viz. Cosmetics and	inorganic compounds / chemicals and
	Perfumes, Dyes and	products of end use.
	Pharmaceuticals,	Gain comprehensive knowledge of
	Pesticides, Soaps and	cutting-edge developments in a field of
	Detergents, related	different chemical industries.
	diversified and	Importance of Cosmetics Industry and a
	multidisciplinary fields	general study including preparation and
	of chemical industry.	uses of the Hair dye, hair spray,
	To produce graduates	shampoo, suntan lotions, lipsticks,
	with enhanced skills,	talcum powder, nail enamel, creams
	knowledge and research	(cold, and shaving creams).
	aptitude to carry out	Perfumes and identify the
	higher studies or	distinguishing features of its
	research and	components and also an essential oils
	development in the	and their importance in cosmetic
	various industrial areas.	industries with reference to Eugenol,
	To equip students with	Geraniol, sandalwood oil, eucalyptus,
	advance knowledge	rose oil, 2- phenyl ethyl alcohol,
	about various	Jasmone, Civetone, Muscone etc.
	industrially important	Know about pesticides both natural and
	products.	synthetic, benefits and adverse effects
	To makes students ready	of it, also synthesis, manufacture and
	for immediate entry to	uses of pesticides viz. Organochlorines
	the workplace with	(DDT, Gammexene,);
	sound theoretical and	Organophosphates (Malathion,
	basic experimental	Parathion); Anilides (Alachlor and
	knowledge in the areas	Butachlor).
	of various industries.	Definition, classification, raw material
	To engender the	used in soaps and detergents, reaction
	substantial interest in the	involved in it, Manufacture of Soaps
	students to understand	and cleansing action of soaps and
	the concepts in chemical	detergents. Definition, properties of
	processing, engineering	good dyes, relation between colour and
	and industrial	constitution, classification of dyes
	development of present	according to their mode of application
	era viz. Cosmetics and	and chemical constitution.
	Perfumes Industry, Dyes	Importance's, definition and meaning
	and Pharmaceuticals,	of the different terms involved in Drugs
	Pesticides, Soaps and	and Pharmaceuticals Industry and also
	Detergents, related	synthesis, uses, properties and

	multidisciplingry and	industrial manufacture of Darasstamal
	diversified fields of	Agnizin and Chloromphanical
	abamical industry	
	Te describe the	
	To describe the	
	industrial production of a	
	number of important	
	organic and inorganic	
	compounds / chemicals	
	and products of end use.	
	To gain comprehensive	
	knowledge of cutting-	
	edge developments in a	
	field of different	
	chemical industries by	
	discussions and	
	exchange of experiences	
	and knowledge.	
CH-605 Analytical	To provide knowledge of	Students are able to gain the knowledge
Chemistry	instruments which are	of instruments which are used in
	used in Chemical,	Chemical, Pharma, Petroleum, and
	Pharma, Petroleum, and	insecticide and pesticide industry
	insecticide and pesticide	Technical skills of students were raised
	industry	as per industry need.
	To increase student	Develop an understanding of the range
	technical skill as per	and uses of analytical methods in
	industry need.	chemistry.
	To develop an	
	understanding of the	
	range and uses of	
	analytical methods in	
	chemistry	
CH-606(A) - Polymer	The course offers the	Define terms like monomer, polymer.
Chemistry	basic concepts of	polymerization, polydispersity index.
	polymer, polymerization.	etc., classify polymers based on their
	classes of polymers.	origin, native backbone chain, and
	important properties, and	thermal response.
	poly(lactic acid) as a	Know glass transition temperature and
	biodegradable polymer.	its determination, various ways to
	The course also offers to	express molecular weights of polymers
	study preparation	and polydispersity index
	properties, and	Identify different mechanisms of
	properties, and applications of	Identify different mechanisms of polymerizations viz free radical ionic
CH-606(A) - Polymer Chemistry	range and uses of analytical methods in chemistry The course offers the basic concepts of polymer, polymerization, classes of polymers, important properties, and poly(lactic acid) as a biodegradable polymer. The course also offers to study preparation	Define terms like monomer, polymer, polymerization, polydispersity index, etc., classify polymers based on their origin, native backbone chain, and thermal response. Know glass transition temperature and its determination, various ways to express molecular weights of polymers and polydispersity index

	selected polymers.	Distinguish techniques of
	The course will give	polymerization based on physical
	chance to study various	conditions required for the preparation
	mechanisms of	of polymers in laboratory or industry.
	polymerization and learn	Familiar with preparation, properties,
	different techniques of	and applications of industrially
	polymerization.	important selected polymers.
	The student will be able	
	to understand glass	
	transition temperature	
	and factors affecting on	
	it and various ways to	
	express molecular	
	weight of polymers.	
CH-607 - Physical	To develop skills	Students will get basic analytical and
Chemistry Practical	required in chemistry	technical skills to work effectively in
	such as the appropriate	the various fields of chemistry.
	handling of apparatus,	Students will able to calibrate and
	instruments and	handle instruments like conductometer,
	chemicals.	potentiometer, pH meter, colorimeter,
	The student will learn	spectrophotometer, polarimeter.
	the laboratory skills	They have ability to perform accurate
	needed to design, safely	quantitative measurements with an
	conduct and interpret	understanding of the theory and use of
	chemical research.	contemporary chemical
	To expose the students to	instrumentation, interpret experimental
	an extent of	results, perform calculations on these
	experimental techniques	results and draw reasonable, accurate
	using modern	conclusions.
	instrumentation.	They get skills required in chemistry
	The student will develop	such as the proper handling of
	the ability to effectively	apparatus and chemicals. They will
	communicate scientific	have ability to present scientific and
	information and research	technical information resulting from
	results in written and	laboratory experimentation in both
	oral formats.	written and oral formats
CH-608 - Inorganic	To determine metal from	Students will be able to prepare co-
Chemistry Practical	gravimetric estimations.	ordination compounds.
	To determine amount of	Students will be able to determine
	metal by volumetric	amount of metal by using quantitative
	analysis.	analysis.
	To determine preparation	Students will be able to calculate Rf
	/synthesis of co-	value of metal.

	ordination compound.	Students will be able to design & carry
	To study separation	out scientific experiments as well as
	techniques of metals.	accurately record & analyze the results
	To use colorimetric	of experiments.
	analysis of metal	Students will be able to explain why
		chemistry is an integral activity for
		addressing social, economic &
		environmental problems.
CH-609 - Organic	To develop skills	Separate and analyze binary water
Chemistry Practical	required in chemistry	insoluble mixture.
	such as the appropriate	Separate and analyze binary water
	handling of apparatus	soluble mixture.
	and chemicals.	Estimate - Acetamide, Glucose and
	The student will learn	Glycine by volumetric method,
	the laboratory skills	Estimate basicity of various acids.
	needed to design, safely	Synthesis of various organic
	conduct and interpret	compounds through greener
	chemical research.	alternatives.
		Understand Thin Layer
		Chromatographic techniques and
		physical constant.
		Understand the purification technique
		use in organic chemistry

# M.Sc.-I

SemI		
CH-110 Physical	Introduction to	Students understood quantum
Chemistry	quantum chemistry,	chemistry, Nuclear and radiation
	nuclear chemistry and	chemistry, Electrochemistry,
	adsorption	Adsorption-principles, rules, theories
		and numerical problems based on this
CH-130 Inorganic	Introduction to MOT,	Introduce to MOT, Organometallic
Chemistry	Organo metallic	compounds, Molecular symmetry-
	compounds, symmetry	elements of symmetry, point groups,
	and group theory and	introduction to transition metals,
	transition metals.	
CH-150 Basic Organic	Stereochemistry,	Introduction and revision of
Chemistry	reaction mechanisms	Stereochemistry, Basic Mechanisms of
		organic reactions like Nucleophilic

		substitution reaction. Electrophilic
		substitution reaction. Addition and
		elimination reactions.
SemII		
CH-210 Physical	Introduction to	Thermodynamics, Statistical
Chemistry	thermodynamics,	Thermodynamics, chemical, kinetics
	spectroscopy	Molecular spectroscopy- students
		understood principles, theories, rules
		derivations and numerical problems
		based on this.
CH-230 Inorganic	Introduction to transition	Students understood Reaction
Chemistry,	metal complex, ionic	mechanism in transition metal
	bonds, catalysis	complexes, ionic bonds, Catalysis,
		spectra, preparation and applications of
		complexes.
CH-250 Name reaction,	Introduction to some	Students understood Name reactions,
Synthetic Organic	name reactions	Synthetic reagents, Rearrangement
Chemistry&		reactions which are useful for organic
Spectroscopy		synthesis, introduce to spectroscopy.
General Chemistry	Introduction to basic	Introduced to basic analytical chemistry
	analytical chemistry and	and maths related to chemistry
	maths related to	
	chemistry	
CH_P_I-Physical	Handling of Instruments,	Develop a skill to handle instruments,
chemistry Practical-	perform of experiment,	preparation of solution and calculations.
yearly	calculation	
CH-I-I- Inorganic	Introduction to ore	Able to analyses ores like pyrolusite,
chemistry practical-	analysis, binary mixture	Haematite, Chromite, Dolomite.
Yearly	analysis, drug analysis	Develop a skill to perform binary
		mixtures, analysis of drugs,
<u>CILO LO</u>		chromatography
CH-U-I Urganic	TLC use of software to	Develop a skill to prepare organic
Voorly	draw structures of	by TLC
	organic compounds	Uy ILC. Use of software like ISI draw, show
	organic compounds.	Draw Chem Skatch to design reaction
		mechanism IIIPAC names etc
		mechanism, IUPAC names etc.

#### M.Sc.-II

SemIII		
CH-350 Organic Reaction Mechanism	Physical approach to organic chemistry, reaction intermediates, neighbouring group effect, carbon nucleophile reactions, ester hydrolysis.	Students understood Strength of acids and bases, Determining mechanism of a reaction, Intermediated and concerted Reaction, linear free energy relationship, Aromaticity and neighboring group effect. Hydrolysis of ester and reactions of carbon nucleophile
CH-351Spectroscopic methods in structure determination	Introduction to H1 NMR, C1NMR Mass spectroscopy. Problems related to this	Students introduce to H NMR, C NMR, Mass spectroscopy, and problems based on spectroscopy
CH-352 Organic Spectroscopy	Introduction to stereochemistry, Asymmetric synthesis, stereochemistry of six member and other then six member ring	Principle of spectroscopy, Asymmetric synthesis and applications, Stereochemistry of six member ring, other than six member ring, fused rings.
CH-353Free radical, photochemistry, pericyclic reactions and their applications	Introduction to free radical and photochemistry, aromatic compound alkenes. Pericycle reactions, electrocyclic reactions	Students understood quantum yield and electronic state. Norrish –I and Norrish –Iicharges. Paterno-Buchi reaction Photochemistry of olifines and arenes Free radical reactions Selection rule for thermal and photochemical reactions. Frontier molecular orbital approach.
SemIV		
CH-450 Chemistry of natural products	Introduction to secondary metabolism natural products, synthesis and application vitamins, enzymes,	Students understood importance of vitamins B1,B2,B6,B-12,Folic acid, C,D-1,E,K1 and K2, sources, structure, stereochemistry and biogenesis of vitamins, Role of enzymes in reaction
CH-451 Synthetic methods in organic chemistry	Introduction to application of some elements in organic synthesis, Designing of organic synthesis, one and two stage	Students understood Transition metals in organic synthesis, Design the organic compounds, Role of Umpolung in organic synthesis, Polypeptide and poly nucleotides, principles of green chemistry, solvents, catalyst and

	disjunction, protection of	reaction conditions.
	group, advanced	
	synthetic reactions.	
CH 452Heterocyclic	Introduction to	Students understood Synthetic routes,
chemistry. Chiron	heterocycle chemistry	reaction and reactivity of heterocyclic
approach. Chiral drugs	and chiral approach.	compounds, important terms used in
and medicinal chemistry	Drug discovry, synthesis	medicinal chemistry, structure of triose,
		pentose, hexose, stereochemistry and
		reactions. Synthesis and
		pharmacological activity of S-
		Lbuprofin, S- Metaprolol
CH-O2 Organic	Introduction to various	Students are able to separate organic
chemistry	types of organic	compound in different phases,
practical(Ternary	mixtures, their	Qualitative analysis of organic
mixture)	separation, identification	compounds, distillation techniques,
	and purification and	Detection of elements N, S, X,
	chromatographic study	Purification techniques.
CH-O-3 Organic	Introduction to organic	Students are able to perform three stage
chemistry Practical(Three	three stage preparation.	preparation, draw the reaction
stage preparation)	Purification and	mechanism, purify the organic
	chromatographic study	compounds by crystallization, perform
	of organic compounds	chromatographic technique to check
		completion of reaction, apply the
		knowledge about different reaction
		conditions.
CH-O4 – Short Research	Introduction to research,	Students understood literature survey
Project	survey literature review,	for the topic of the project, Standardize
	synthesis of raw	reaction conditions for synthesis, new
	products, purification	methods of synthesis, isolation of
	and analysis of products	product and give mechanism, handle
		instruments for analysis and discuss
		their experimental results, Used ICT
		tools to prepare project reports and
		present it using power point
		presentation, worm within a small team
		to achieve a common research goal.

Department of Computer Course objectives and Outcomes

### F.Y.B.Sc.

SemI		
Paper	Objectives	Outcome
CS-101: Essentials of Computer	Develop the knowledge of fundamentals of computers. Introduction to hardware, software. Introduction to input output devices, programming languages. Introduction to concept of network, computer viruses and security, computer ethics, operating systems.	Students came to know the physical parts of the computers and input output devices. Understand computer network, Computer viruses and computer ethics. Know the types of operating systems and use of simple dos commands
CS-102: C Programming Language-I	Give introduction to C programming language. Program writing concept, knowledge of operators and library functions. Use of conditional statements and looping statement. Understand concept of array and use of arrays.	Students understand basic concepts of C language program writing. Students came to know various types of operators and library functions and its use. Students understand the use of conditional, looping statements and array in program development.
CS-103: LAB Course on Essential of Computer and C programming	Develop the skill to handle computer and devices. Introduction to basic knowledge of system and dos commands, web browser and network. Introduction to develop simple computer programs.	Students are able to develop the skill to handle devices, handle internet, handle operating system using dos commands, and familiar with operating system like windows. Students understood basic knowledge of program development using C

		programming language and use of web browser.
SemII		
CS-201: Internet Computing	Develop knowledge of web site. Develop knowledge of web site and web page design and use of HTML programming in web page design.	Students are able to design web pages. Understand HTML Programming, web pages design techniques.
CS-202: C Programming Language	Introduction to use of functions with various ways and use of standard as well as user defined functions. Introduction to use of pointers, structure and union, graphics , file handling in C language program development.	Students gained the knowledge of various methods to develop programming skill and able to develop not only simple programs but also complex programs using functions, pointers, structure. Students are also able to use graphics and handle files in program development
CS-203: LAB Course on Internet Computing and C Programming	Develop skill to design web pages with images, audio video handling. Introduction to use functions, structures, pointers, graphics and files in program development to improve skills.	Students are able to develop web page using HTML codes with images, audio, video handling. Students are able to use additional features in program development like standard and user defined functions, structures , graphics and file

#### S.Y.B.Sc.

SemIII		
CS-DSC 2 C: COMP	To know algorithm analysis	Students understood
211 : Data Structure –I	for time and space requirement	various data structures like

	and understand the concept of various data structures like	stack, queue, linked list and use the data structures
	stack, queue, linked list.	to manage data
COMP-212:	Introduction to object oriented	Students gained the
Programming in C++ -I	programming.	knowledge of object
	To develop programs with	oriented programs using
	objects and class using C++	C++ programming
	programs. Use of functions and	language.
	operators in C++ programs	Students are also able to
		handle programs using
		function overloading and
		operator overloading
COMP 213:	Develop skill to write	Students are able to write
PRACTICAL	programs using various	programs using various
COURSE	concepts of data structures and	data structures and
	also develop object oriented	improve programming
	programs using C++ programs.	skills and also able to
		write object oriented
		programs using C++.
CS SEC-I (Skill	To know various operating	Students are familiar with
Enhancement Course-D	systems and their installation	various types of operating
Software & Hardware	and installation of other	systems and develop the
Installation Skills	software and devices and	skills to install various
Instantation Skins.	maintenance of PC	software and devices
		Students are also able to
		use diagnostic tools
		knowledge of network and
		PC maintenance
Sem -IV		
CS-DSC 2 D · Comp-	Introduction to more data	Students are able to handle
221: Data Structure-II	structures like tree graph and	data with data structures
	use them to handle the data	like tree graph and
	To understand the concepts of	improve their
	various techniques of	programming skills
	searching and sorting of data	Students understood
	sourching and sorting of data.	concepts of various data
		searching and sorting
		techniques
$CS_DSC 2 D \cdot COMP$	Introduction to uses concept	Students understand
$222 \cdot D \cdot CONF$	of constructors and destructors	concept of constructor and
	inhoritonoo avaantian	destructors inheritories
C++-II	inneritance, exception	destructors, inneritance,

	handling, templates and file	exception handling,
	handling in the C++	templates and able to
	programming.	handle files in
		C++programs and
		improve programming
		skills
CS-DSC 2 D LAB: Lab	To develop skill to handle data	Students developed to
Course on COMP 223:	structures like tree and graph	handle data structures like
PRACTICAL	to improve programming	tree, graph and also
COURSE	skills.	developed to use various
	To develop more skills in C++	data searching and sorting
	programming using	techniques.
	constructors, destructors,	Students are also able to
	exception handling , file	write C++ programs using
	handling etc	constructor, destructor,
		inheritance, exception
		handling , file handling to
		improve programming
		skills
CS SEC-II (Skill	To understand concept of	Students are familiar with
Enhancement Course-	security.	various types of operating
II) Network Security	Various techniques of security.	systems and its security
	Problems in computer security	and also understand
	and handle it and also know	network security, various
	about system security.	malicious Software.

#### T.Y.B.Sc

SemV		
DSC (UG-CS-501)	To understand use and	Understand details about
System Programming	development of software tools.	system software
	To understand the design	To develop basic system
	structure of Assembler and	program like development
	macro preprocessor.	of editor, lexical analyzer
	To understand the design	etc
	structure of compiler and	Students are familiar with
	understand the functions of	language processing
	linkers and loaders	activities-functions of
		translators, loader and
		linkers

DSC (UG-CS-502):	To understand the fundamental	On completion of the
Database Management	concepts of database.	course, student will be
System	To understand user	able to-
5	requirements and frame it in	Solve real world problems
	data model.	using appropriate set.
	To understand creations.	function, and relational
	manipulation and querying of	models
	data in databases	Design E-R Model for
		given requirements and
		convert the same into
		database tables
		Use SOL
DSC (UG-CS-	This paper helps to understand	After completion of the
503)Software	what software is and the	course.
Engineering	process in development of	Students are able to
Lingineering	software	perform the $E_{-}R$ Diagram
	It gives detailed knowledge	DED Data dictionary
	about various models and	Decision tree about
	requirements needed in	software
	developing software	They can also design the
	It also alaborates the concents	a of two rain loomad
	of designing testing & quality	language using the course
	of designing, testing & quanty	language using the course
	about software	content. Get the
		knowledge of types of
		testing & how testing is
		performed in industry.
DSC (UG-CS-504):	Understanding Graphics	Differentiate between
Computer Aided	Concept.	interactive and non-
Graphics	Study the various graphics	interactive graphics.
	techniques	Study line Drawing and
	Study the various graphics	Circle Drawing techniques
	algorithms	and algorithms.
		Perform 2D and 3D
		transformation on
		different images.
		Know about detail
		working of 2D and 3D
		clipping and windowing.
		Understand raster graphics
		and hidden surface
		elimination.
DSC SEC(UG-CS-	The course is designed to	Explain basic principles of
505)Python	provide Basic knowledge of	Python programming

Programming –I	Python.	language.
	Python programming is	Construct and apply
	intended for software	various filters for a
	engineers, system analysts,	specific task.
	program managers and user	Apply the best features of
	support personnel who wish to	mathematics, engineering
	learn the Python programming	and natural sciences to
	language.	program real life problems
	To learn how to design and	
	program Python applications	
	and develop problem solving	
	skills and their implementation	
	through Python.	
DSC (UG-CS-506B):	To learn Object Oriented	Get knowledge of JDK
JAVA Programming-I	Design with JAVA	environment
	Ability to write computer	Explore polymorphism
	program to solve specific	using method overloading
	program and nandle abnormal	and method overriding
	expansion handling	onderstand the different
	exception nandning.	classes and their
		extensibility
		Understands the concept
		of streams and files
		Write programs for
		handling run time errors
		using exceptions
DSC UG-CS-507 LAB	Students should understand:	Explain basic principles of
on Python	The course is designed to	Python programming
Programming –I	provide Basic knowledge of	language
	Python.	Construct and apply
	Python programming is	various filters for a
	intended for software	specific task.
	engineers, system analysts,	Apply the best features of
	program managers and user	mathematics, engineering
	support personnel who wish to	and natural sciences to
	learn the Python programming	program real life
	language.	problems.
	To learn how to design and	
	program Python applications.	
DSC UG-CS-508: LAB	To know how to implement	Understand Graphics
on Computer Aided	Graphics Programs.	Concept Practically
Graphics	To implement various graphics	Hands on of using

	techniques	standard graphics library
	To implement various graphics	Hands on of
	algorithms	implementation of DDA.
		Bresenham's Line, Circle
		Drawing Algorithm
		Hands on of
		implementation of 2D
		Transformation:
		Transformation.
		Detetion implementation
		of Cohon Systherland line
		of Conen-Sumeriand line
		clipping algorithm
DSC (UG-CS-509 B):	To learn Object Oriented	Get knowledge of JDK
Lab on JAVA	Design with JAVA	environment
Programming II	Ability to write computer	Explore polymorphism
	program to solve specific	using method overloading
	program	and method overriding
	To handle abnormal	Understand the different
	termination of a program using	aspects of hierarchy of
	exception handling	classes and their
		extensibility
		Understands the concept
		of streams and files
		Write programs for
		handling run time errors
		using exceptions
Sem- Vl		
	To see do not on d. On one time	Students should found it on
DSC (UU-US-001):	aveter concents and corrige	with Operating System
Operating System	System concepts and services.	Samiaa
	To understand the concept of a	Services.
	CPU scheduling, memory	Understand CPU
	management, Disk Drum	scheduling algorithms,
	Scheduling and deadlock	memory Management
		Techniques, Disk Drum
		Scheduling algorithms,
		Deadlock preventions and
		avoidance.
		Introduction to android
		operating systems its
		architecture, applications
		and uses.

DSC (UG-CS-	Basic Knowledge of DBMS	To teach fundamental
602):Relational	Knowledge of SQL Queries	concepts of RDBMS
Database	Basics of relational design	(PL/PgSQL)
	Basics of ER model	To teach database
		management operations
		Be familiar with the basic
		issues of transaction
		processing and
		concurrency control To
		teach data security and its
		importance
DSC (UG-CS-	How network works? & types	After completion of the
603):Computer	of networks & its applications.	course:
Network	It helps to understand the	Students understand the
	various models.	information exchange
	It helps to understand various	done across the network
	layers & their functionality.	with the help of OSI &
	It gets the idea of how	TCP/IP models.
	cryptography works.	Student understands how
		errors are captured &
		handled in network.
		Student understands
		various attack & its
		prevention techniques
(UG-CS-	Understanding the use of Sets,	Students know about use
604)Theoretical	Relations and Graphs.	of Sets, Relations and
Computer Science	Understand Languages in TCS.	Graphs.
	Introduction of Regular	Understand Languages in
	Languages, Pumping Lemma	TCS, Pumping Lemma
	and its applications.	and its applications.
	Explore the knowledge of	Explore the knowledge of
	Pushdown Automata.	Pushdown Automata.
	Understanding Normal Forms,	Understand Normal Forms
	Turing Machine	and Turing Machine,
		methods like TGA, DTA
		and DSC.
DSC (UG-CS-605)	The course is designed to	Students can implement
Python Programming –	provide advance knowledge of	object oriented concepts,
11	Python.	database applications.
	Python programming is	Construct regular
	intended for software	expressions for pattern
	engineers, system analysts,	matching and apply them
	program managers and user	to various filters for a

	support personnel who wish to	specific task.
	learn the Python programming	Design and implement
	language.	Database Application and
	To learn how to design and	Content providers.
	program Python applications.	Apply the best features of
	To develop problem solving	mathematics, engineering
	skills and their implementation	and natural sciences to pro
	through Python	
DSC (UG-CS-606B):	To design User Interface using	Students are able to
JAVA Programming II	Swing and AWT Learn the	develop Program using
	advanced concept of java	graphical user interface
	To aware about the applet	with Swing classes.
	programming	Handle different kinds of
		events generated while
		handling GUI
		components.
		Create programs using
		menus and dialog boxes
		Program to create applets
		Understand advanced java
		concepts like JDBC, Java
		Beans
DSC UG-CS-LAB-607	The course is designed to	Explain basic principles of
LAB on Python	provide advance knowledge of	Python programming
Programming –II	Python.	language
	Python programming is	Implement object oriented
	intended for software	concepts, database
	engineers, system analysts,	applications.
	program managers and user	Construct regular
	support personnel who wish to	expressions for pattern
	learn the Python programming	matching and apply them
	language.	to various filters for a
	To learn how to design and	specific task.
	program Python applications.	Design and implement
	To develop problem solving	Database Application and
	skills and their implementation	Content providers.
	through Python.	Apply the best features of
	Master the fundamentals of	mathematics, engineering
	writing Python scripts	and natural sciences.
DSC (UG-CS-Lab	writing Python scripts To perform operations on	and natural sciences. To use SQL & PL/SQL.
DSC (UG-CS-Lab 608): Lab on RDBMS	writing Python scripts To perform operations on relational database	and natural sciences. To use SQL & PL/SQL. To perform advanced
DSC (UG-CS-Lab 608): Lab on RDBMS	writing Python scripts To perform operations on relational database management systems.	and natural sciences. To use SQL & PL/SQL. To perform advanced database operations.

	management operations. Design E-R Model for given requirements and convert the	SQL. Write and execute simple, nested queries
DSC (UG-CS-609 B): Lab on JAVA Programming II	To design User Interface using Swing and AWT Learn the advanced concept of java To aware about the applet programming	Program using graphical user interface with Swing classes Handle different kinds of events generated while handling GUI components Create programs using menus and dialog boxes Program to create applets Understand advanced java concepts like JDBC, Java Beans

Department of Electronics. Course objectives and Outcomes

### F.Y.B.Sc.

SemI		
Paper	Objectives	Outcome
ELE-101 Network Analysis and Semiconductor Diodes	To impart knowledge of basic concepts in Electronics. To provide the knowledge and methodology necessary for building electronics circuits. To provide exposure of linear and digital electronics circuits.	Student is aware of basic concepts in Electronics. Student is able to use the testing instruments like multi-meter, CRO, function generator. Student is able to design and build and test basic circuits.
ELE -102 Digital Integrated Circuits	To introduce the basic hardware of digital computer systems and understand their working. To introduce to various codes combinational logic design and analysis used in computers	Student is aware of basic electronic components used in computer hardware. Aware of various codes used in data processing. Aware of designing of basic data processing and arithmetic circuits.
ELE-103 Electronics lab -I SemII	To have practical exposure of electronic circuits.	To provide exposure of linear and digital electronics circuits. To have practical exposure of electronic circuits.
ELE-201 Analog Electronics	To impart knowledge of electronics devices and integrated circuits.	Apply the concept and knowledge of integrated circuit chips to develop new systems. Apply practical

		knowledge to solve real
		life problems of the
		society.
ELE-202	To provide the knowledge and	Understand of the course
Linear Integrated	methodology necessary for	and create scientific
Circuits	using integrated circuit chips.	temperament and give
	To have practical exposure of	exposure to the students
	handling Electronics devices	for independent use of
	and IC chips.	integrated circuit chips for
		innovative applications.
ELE-203	To predict the behavior and	Student is aware of basics
Electronics lab -II	characteristics of electronics	of P-spice and its
	devices and circuits using	application for designing
	simulation tools	basic circuits and test their
		characteristics.
		Model complex circuits
		and simulate them.
		Handle simulation
		software to analyze the
		performance of electronics
	1	

### S.Y.B.Sc.

SemIII		
ELE-301	To learn the basics of	Student is capable of
Analog	electronic communication.	design of basic
Communication	To impart knowledge of	modulations circuits like
	analog communication.	PAM, PWM etc
	To provide the knowledge and	Apply knowledge to
	methodology necessary for	develop circuits of analog
	building modulation circuits.	modulation and
		demodulation.
ELE -302	To provide exposure of 8085	Apply the concept and
Microprocessors and	microprocessor.	knowledge of
Applications	To have practical exposure of	microprocessors to real
	microprocessor and their	life problems.
	applications.	Understand and analyze
		8085 microprocessor and

		its programming.
ELE-303 ELECTRONICS LAB - III	To learn design of analog modulation circuit like PAM, PPM, PWM, etc To built these circuits in labs and test it. To analyze various modulation techniques and explore their potential in consumer electronics.	Analyze modulation circuits and understand the behavior of the systems. Review, prepare and present technological developments.
ELE-304 Electrical Circuits and Network Skills	The main goal of designing this course is to expose students to practical aspects of electronics. Therefore, it is not expected anywhere to teach physics behind topics covered in	The student gets basic understanding of construction and operations of circuits being used in domestic appliances and in electronic laboratories. He becomes capable of basic trouble shooting in simple circuits.
SemIV		
ELE-401 Digital Communication	To learn the basics of digital data communication systems. To learn the basic principles of pulse code modulations and learn digital modulation techniques To learn the basics of satellite communication and mobile telephony system	Student is aware of working of advanced digital communication systems. Student will become capable of designing various modulation circuits used commonly Student is aware of working basic cellular telephony and various networks. Student is aware of how TV and mobile channels work with satellites for global coverage.
Applications	modulation, mobile and satellite.	Apply the concept and knowledge of digital communication to develop

	To provide the knowledge and	new systems.
	methodology necessary for	Apply practical
	using microcontroller chips	knowledge of
	To have practical exposure of	microcontrollers to solve
	handling microcontroller and	real life problems of the
	interfacing applications	society
		Understanding of the
		course and create
		scientific temperament
		and give exposure to the
		students for independent
		students for independent
		Chine the terms.
		Gain knowledge of
		microcontroller
		programming.
		Handle hardware and
		software to shoot
		problems of the society
ELE-403	To learn digital modulation	Student is able to design
ELECTRONICS LAB -	design techniques and	PAM PCM circuits and
IV	implement in labs.	test it.
	To learn Matlab programming.	Student is capable of
	To implement PAM, PCM,	handling Matlab
	PWM and other techniques in	independently.
	Matlab through simulation.	Student can write Matlab
		code and run it
		Student is capable of
		simulation of PCM PWM
		and PPM modulation
		techniques.
ELE-404	The aim of this course is not	Student is capable of
Computational	just to teach computer	writing C program and run
Techniques in	programming and numerical	it on computer.
Electronics	analysis but to emphasize its	Student is capable of
	role and gain skills to students	applying numerical
	in solving problems in	technique for solving
	Electronics	mathematical equations
		Student is capable of
		simulation of RC RI and
		PIC Electropic circuits
		KLC Electronic circuits

## T.Y.B.Sc.

SemV		
ELE-501	To enrich the understanding of	Estimate the number of
Semiconductor	fundamentals of	carriers at a given
Electronics	semiconductor devices.	temperature for a
	To have an awareness of IC	semiconductor.
	fabrication techniques.	Understand the
		importance of doping to
		change carrier density.
ELE -502 Advanced	To familiarize students with	Students will able to
Digital System Design	designing techniques of	design digital circuits
using VHDL	combinational and sequential	according to requirements.
	circuits.	Student will able to write
	Introduction of VHDL to	VHDL code for digital
	students for different	circuit with the help of
	combinational and sequential	different modeling style.
	circuits.	
ELE -503 Advanced	To learn the architecture of	Student will be able to
Microprocessors	8086.	Aware about the
	To learn the assembly	microprocessor and its
	language programming of 16	architecture considerations
	bit microprocessor.	& Capable to analyze the
	To understand the architecture	operating modes.
	of advanced microprocessor	Understand the assembly
		language programming.
	To understand the feature of	Student will be able to
	Pentium	understand the advanced
		microprocessor 80386 and
		operation of paging
		To gain the Knowledge
		about the Dentium
		about the Fentium
FIE-504 Electronic	To provide adequate	Understand the concent of
Instrumentation	knowledge in electrical	measurement systems and
	instruments and measurements	its various characteristics
	techniques	Learn about different
	To make the student have a	types of transducers and
	clear knowledge of the basic	their working principle
	laws governing the operation	Know the different

	of the instruments, relevant circuits and their working. Introduction to general instrument system, error, calibration etc. Emphasis is laid on analog and digital techniques used to measure voltage, current, energy and power etc. Exposure to various	electronics measuring instruments and develop the skill to handle them. Acquainted with the knowledge of testing of Electronic instruments.
	transducers and data	
ELE-505 Medical Electronics	To aware students with the role of electronics in medical industry Aware the students with concepts of electrical signals, can be measured To orient with electronic circuits required in medical equipment To introduce the application of advanced biomedical electronics	Familiarize with human assist devices Learn biological signals present in human body Learn the various blocks of biomedical sensors The electrodes which are normally used to measure the biological signals Understand the working principles of various therapeutic and monitoring systems Understand recording and analysis of prominent bio signals of human Understand the measurement and analysis techniques for physiological parameters Understand the patient imaging and monitoring systems
ELE-506(A) Embedded C	To know about programming used for embedded system and robotics. To provide experience to integrate hardware and software for embedded applications systems. To acquaint students with	Learn structure oriented programming concepts required in all other languages. After completion of this course students are able to built real world applications based on embedded

	methods of executive device control and to give them opportunity to apply and test those methods in practice	system and automation.
$EI = 506(\mathbf{P})$	To provide the accential	<b>D</b> apagniza and alagsify the
ELE-300(B)	To provide the essential	structures of Optical fiber
Basics Fiber Optic		subclutes of Optical fiber
Communication	communication.	and types.
	To study different types of	Classify the Optical
	fibers, losses, signal distortion.	sources, detectors and to
	To learn the various optical	discuss their principle.
	sources, materials and fiber	Understanding losses and
	splicing.	dispersion.
	To acquire knowledge of the	Awareness of analog and
	fiber optical receivers.	digital links.
SemVl		
ELE 601:	Familiarize the students to the	Have fundamental
Power Electronics	construction details, operation	knowledge of
	and characteristics of different	semiconductor power
	semiconductor power	electronic device.
	electronics devices along with	can apply this knowledge
	their few applications.	for designing power
	Introduction of different power	electronic circuits
	conversion circuits.	
	To make strong base of	
	students for further study of	
	power electronics circuits and	
	systems	
ELE 602: Consumer	To give students an in depth	Understand the various
Electronics	knowledge of various	types of microphones and
	electronic audio and video	loud speakers.
	devices and systems.	To identify the various
	Introduce the students with	digital and analog signal.
	working principles block	Understand the various
	diagram main features of	types of consumer goods
	consumer electronics	and acquaint the skill of
	gadgets/goods/devices	fault findings
	To develop the capabilities of	Develop the skill of
	assembling fault diagnosis and	electronics appliances like
	rectification in a systematic	Set Top Box CATV and
	way	Dish TV water purifier
	muj.	

To create skill of installation of

Air conditioner etc.

	various electronics appliances	Acquaint the knowledge
	like Set Top box (D2H),	of different types of
	CATV and Dish TV, water	Television Technology.
	purifier, Air conditioner etc.	
ELE 603:	To learn the interfacing of I/O	Student will be able to
Microprocessor	devices with microprocessor.	aware about the concept of
Interfacing Techniques	To learn interfacing	microprocessor and its
	techniques.	interfacing & Capable to
	To learn about the basic	analyze the operation and
	peripherals interfacing.	priorities of Interrupt
	To learn about the	Understand the concept of
	programmable interval timer	memory mapping &
	and their Interfacing.	DMA.
		Student will be able to
		understand the ADC &
		DAC interfacing.
		To gain the Knowledge
		about the interval timer
		and communication
		interface 8251 & analyze
		the operating modes.
ELE 604: Computer	To develop an understanding	Recognize the
Network	of computer networking	technological trends of
	basics.	Computer Networking.
	To develop an understanding	Discuss the key
	of different components of	technological components
	computer networks, various	of the Network.
	protocols, modern technologies	Evaluate the challenges in
	and their applications.	building networks and
		solutions to those.
ELE 605: Embedded	To know about 8051	To gain the knowledge
Systems	microcontroller programming.	about the 8051-
	To learn the 8-bit	microcontroller
	microcontroller interfacing.	programming such as
	To learn about the SPI & two	timer & counter and serial
	wire interface	port programming.
		Understand the basic
		concept of interfacing
		with microcontroller.
		Understand the interfacing
		principle with Stepper
		motor and temperature
		sensor.

		To gain the Knowledge
		about the serial peripheral
		interface and two wire
		interface.
ELE-606 (A)	To enrich the understanding of	Apply Gauss Law,
Electrodynamics	fundamentals concepts of	Amperes Force Law,
	electro-dynamics and	Lorentz's force, Biot-
	electromagnetics. To have	Savarts Law, Faraday's
	basic knowledge of	Law for solving the
	electromagnetic waves and	problems in Electrostatic
	their propagation.	and Electromagnetic
	1 1 0	Fields. Apply the
		principle of electrostatic to
		the solutions of problems
		related to electric field and
		electric potential.
		boundary value problem
		in electrostatic field.
		Understand the concept of
		Faradays law, Lenz's Law
		and Maxwell Equation.
		Apply the Maxwell's
		equation in free space,
		linear isotropic media and
		varying fields, energy and
		electrostatic fields.
ELE-606 (B) Antenna	To provide fundamental	The student will be able to
& wave propagation	knowledge of electromagnetic	Understand how the
	wave radiation and reception	electromagnetic wave
	through antenna.	propagate from an
	To understand physical	antenna.
	properties of antenna.	Learn the concept of RF
	To study different antenna	feeding to an antenna.
	structures	To calculate the various
	To understand transmission of	parameters of antenna to
	radio waves around the surface	know its efficiency.
	of earth.	Study the various types of
		antennas used in recent
		communication systems.
		Understand the wave
		propagation through
		space.

Department of Geography. Course objectives and Outcomes

### F.Y.B.Sc.

SemI		
Paper	Objectives	Outcome
GG.101 Physical Geog. (Lithosphere)	Knowing about the physical Geography of the earth understand the natural process of earth. Affect the distribution of Resources	Develop the knowledge about physical Geography
GG.102 Physical Geog. (Atmosphere)	Knowing about the climate of earth. Earth different climatic zones and elements of atmosphere	To develop the knowledge of local micro climate.
GG.103 Practical Geog. (Cartography)	Knowing about diff. Maps and cartographic techniques, and scale direction.	To understand the different Maps and map reading.
SemII		
GG 201Geog. (lithosphere)	Knowing about the physical geo of the earth understand the natural process of earth. Affect the distribution of Resource	Develop the knowledge about physical Geography
GG.202 Physical Geog (Hydrosphere)	To understand all water bodies of earth diff. water zones, Availability of water on earth.	Knowing about ocean, seas, lakes, River of the world knowledge about local drainage.
GG.203 (Practical) Physical Geog. Map (projection)	Knowing about diff. Maps knowledge about weather, physical, political, ocean currents and temps maps diff. all types of maps.	To drawing Latitudes and Longitudes on Paper drawing the maps.

#### S.Y.B.Sc.

SemIII		
GG.301 Environmental Geog.	Knowing about Environment of earth. Earth environment sustainable uses of. Resources of earth. To solve the problem like pollution, population, deforesting.	To understand our surrounding environment, encourage the people to save environment.
GG.302 Phy. Geo. of Maharashtra	To understand the phy. Geo. of Maharashtra -River, soil, climate, vegetation etc.	Understanding about our districts, Taluka, our village physical features.
GG.303 Practical Geog	Knowing about the diff. elements of maps, Knowledge about diff. Relief feature and Drainage.	Knowledge about. Interpretation of Map, understand Area of All sense.
GG.304Regional Planning development	To focus on Regional Resources and their proper use and planning	To understand the knowledge about Resources and planning.
SemIV		
GG.401 Human Geography	To understand the diff. Race of world population, their Migration, developments.	Understand the effects of surrounding on local people, there occupation/ cloths.
GG.402 Socio, Eco of Maharashtra	To knowing the distribution a population of M. S. their activities, Industries, and Transportation developed.	Social and economical culture of M.S. as well as our local area.
GG.403 Practical Geog. Surveying	Knowing and use of different techniques in fields and proper and accurate survey.	To develop the techniques of survey and develop the skill.
GG-404 Field tech and survey	Knowing and use of different techniques in fields and proper and accurate survey	To develop the techniques of survey and develop the skill

Department of Mathematics. Course objectives and Outcomes

### F.Y.B.Sc.

SemI		
Paper	Objectives	Outcome
MTH 101: Matrix Algebra	To acquaint the student an elementary level knowledge of Rank and adjoint of matrix, Applications of matrices to system of linear equations, Eigen values and Eigen vectors of matrices and the transformation of matrices. To teach mathematical approaches and models to grow mathematical skill, to improve mathematical thinking and to improve choice making power of the students. To introduce the student	After successful completion of this course, students are expected to: Understand concepts on matrix operations and rank of the matrix. Understand use of matrix for solving the system of linear equations. Understand basic knowledge of the eigen values and eigen vectors. Apply Cayley-Hamilton theorem to find the inverse of the matrix. Know the matrix transformation and its applications in rotation, reflection, translation.
	applications of matrices.	
MTH 102: Calculus	To acquaint the students knowledge of limits and continuity, Differentiations, Mean value theorem, Rolle's theorem, Cauchy's Mean value theorem and Geometrical interpretations. To introduce the concept of successive differentiation. To develop different mathematical models in	After successful completion of this course, the students are expected to: Understand basic concepts on limits and continuity. Understand use of differentiations in various theorems. Know the Mean value theorems and its

	calculus and improve problem solving and logical thinking.	applications. Make the applications of Taylor's, Maclaurin's theorem. Know the applications of calculus.
MTH 103(B): Graph Theory	To introduce the students various types of graphs. To know the applications of graphs in various field.	After successful completion of this course, students are expected to: Draw the graphs with the help of given information. Draw various types of graphs and verify Hand shaking lemma. Know the connected graph and spanning subgraphs. Learn the Hamiltonian graphs and Eulerian graphs. Know the applications of graph.
SemII		
MTH 201: Ordinary Differential Equations	To increase the knowledge of basics of ordinary differential equation and its applications. To imbibe the student different methods of solving differential equations and their applications.	After successful completion of this course, the students are expected to: Understand basic concepts in differential equations. Understand method of solving differential equations

Understand use of

various fields.

differential equations in

Understand how to solve the various types of differential equations.

MTH 202: Theory of	To acquaint students with	After successful
Equations	divisibility of numbers and	completion of this course,
	Roots of polynomial.	the students are expected
	To get the knowledge of	to:
	relations between roots and	Find out roots of any
	coefficients of polynomials of	equation of degree less
	degree less than or equal to 4.	than or equal to five.
	To learn Cardon's method for	Know how the Theory of
	finding roots of cubic	equations is highly useful
	equations, biquadratic	in various subjects like
	equations by Descarte's	algebra, linear algebra,
	method and roots of	calculus, ordinary and
	polynomial equation s by	partial differential
	Newton's method.	equations etc.
MTH 203(B):	To introduce the students	After successful
Numerical Analysis	knowledge of different	completion of this course,
	Methods of solution of	the students are expected
	equations which are algebraic.	to:
	To acquaint the student basics	Understand basic
	of interpolation and curve	concepts of methods of
	fitting for set of data.	solutions of equations
	To learn methods for solving	viz. bisection, iteration,
	differential equations.	Newton-Raphson
	To understand that when exact	methods and method of
	solutions are difficult to obtain,	false position.
	then approximate solutions can	Understand methods of
	be obtained by using numerical	curve fitting viz. fitting a
	methods.	Staight line, fitting a
		polynomial of degree 2 or
		3, fitting an exponential
		curve for the set of given
		data.
		Learn Gauss's forward
		and backward difference
		formulae and Lagrange's
		interpolation formula.
		Use Taylor's series,
		Euler's method. Modified
		Euler's method, Runge
		Kutta methods for
		solving ordinary
		differential equations.

#### S.Y. B.Sc.

SemIII		
MTH 231: Calculus of Several variables:	Introduce to calculus of several variables It is used in almost all branches of engineering. It deals with calculus of several variables. To learn homogeneous function, chain rule and Euler's theorem for homogeneous function. To understand the importance of Taylors series for two variables. To learn application of partial differentiation to find extreme value and langrage's method. To understand Mean value theorem. To find area by double integration. To find volume by triple integration	After successful completion of this course, the students are expected to: It is used in almost all branches of engineering. It deals with calculus of several variables. To learn homogeneous function, chain rule and Euler's theorem for homogeneous function. To understand the importance of Taylors series for two variables. To learn application of partial differentiation to find extreme value and langrage's method. To understand Mean value theorem. To find area by double integration. To find volume by triple
MTH-232(A): Algebra:	Algebra is science of	integration After successful
	operations It is widely used in Computer science and T. It is also useful for logic and fuzzy set theory To understand the concept of groups. To understand the concept of subgroups. To learn langrage's theorem	completion of this course, the students are expected to: It is widely used in Computer science and T. It is also useful for logic and fuzzy set theory To understand the concept of groups. To understand the concept

	and its corollaries.	of subgroups.
	To learn Fermat's theorem and	To learn langrage's
	Euler's theorem.	theorem and its
	To learn homomorphism and	corollaries.
	isomorphism.	To learn Fermat's theorem
	To understand concept of	and Euler's theorem.
	automorphism of groups	To learn homomorphism
	To under the structure of ring.	and isomorphism.
	integral domain field and	To understand concept of
	Boolean ring	automorphism of groups
	To understand basic properties	To under the structure of
	of rings and their types such as	ring integral domain field
	integral domain and field	and Boolean ring
	integral domain and field.	To understand basic
		properties of rings and
		their types such as integral
		domain and field
MTH 304 Set Theory	To learn concept of set theory	After successful
and Logic	To learn some standard set	completion of this course
	such as natural integer	the students are expected
	rational and real numbers	to:
	To loorn about universal set	To learn concept of set
	ampty set subset	theory
	Ligas of the language of set	To learn some standard set
	theory designing issues in	To learn some standard set
	different subjects of	such as hatural, integer,
	methamatics	Tational and real numbers.
	Induction d the issues	To learn about universal
	Understand the issues	Ligge of the lar manage of
	associated with different types	Uses of the language of
	of finite and infinite sets via	set theory, designining
	countable uncountable sets	issues in different subjects
	To learn about operations on	of mathematics
	sets and its applications.	Understand the issues
	To learn logical mathematical	associated with different
	reasoning, formulate theorems	types of finite and infinite
	and definitions	sets via countable
	To learn statements and truth	uncountable sets
	values; concept of tautology,	To learn about operations
	contradiction and quantifiers	on sets and its
		applications.
		To learn logical
		mathematical reasoning,
		formulate theorems and

		definitions
		To learn statements and
		truth values; concept of
		tautology, contradiction
		and quantifiers.
	1	1
Sem.IV		
MTH 241: Complex	It is widely used in Fluid	After successful
Variables	Mechanics and Electrical	completion of this course,
	engineering.	the students are expected
	To learn properties of complex	to:
	numbers.	It is widely used in Fluid
	To understand the use of	Mechanics and Electrical
	complex numbers in the field	engineering.
	of Calculus.	To learn properties of
	To learn De Moivre's theorem	complex numbers.
	and its applications	To understand the use of
	To learn the importance of	complex numbers in the
	analytic functions and C. R.	field of Calculus.
	equations.	To learn De Moivre's
	To understand harmonic	theorem and its
	functions, Laplace differential	applications
	equation and construction of	To learn the importance of
	analytic function.	analytic functions and C.
	To learn Cauchy's theorem	R. equations.
	and Cauchy's integral	To understand harmonic
	formulae for solving integral.	functions, Laplace
	To gain knowledge of	differential equation and
	singularities and residues.	construction of analytic
	To apply the knowledge of	function.
	residues in complex	To learn Cauchy's
	integration.	theorem and Cauchy's
	To learn the importance of	integral formulae for
	residue theorem for solving	solving integral.
	integrals	To gain knowledge of
		singularities and residues.
		To apply the knowledge of
		residues in complex
		integration.
		To learn the importance of
		residue theorem for
		solving integrals

MTH 242(A):	It is used in all branches of	After successful
Differential Equations:	engineering.	completion of this course,
	It is useful for methods of	the students are expected
	momentum and energy	to:
	transfer.	It is used in all branches of
	To study existence and	engineering.
	uniqueness about solutions.	It is useful for methods of
	To learn about the	momentum and energy
	simultaneous differential	transfer.
	equations.	To study existence and
	To learn about the method of	uniqueness about
	solving simultaneous	solutions.
	differential equations	To learn about the
	To learn about the method of	simultaneous differential
	variation of parameter for	equations.
	solving differential equations.	To learn about the method
	To understand the methods of	of solving simultaneous
	solution for total differential	differential equations
	equations.	To learn about the method
	To learn difference equation,	of variation of parameter
		for solving differential
		equations.
		To understand the
		total differential
		To learn difference
		acuation
MTH404 · Vector	To understand scalar and	After successful
Colculus	vector	completion of this course
Calculus	To learn concept of collinear	the students are expected
	conlanar vectors	to:
	To understand scalar and	To understand scalar and
	vector products	vector
	To understand vector valued	To learn concept of
	functions and their limits and	collinear conlanar
	continuity and use them to	vectors.
	estimate velocity and	To understand scalar and
	acceleration of partials.	vector products.
	To understand concept of	To understand vector
	gradient, divergence and Curl.	valued functions and their
	To Calculate the curl and	limits and continuity and
	divergence of a vector field.	use them to estimate
To learn line integral,	velocity and acceleration	
-------------------------------	---------------------------	
conservative vector field	of partials.	
Set up and evaluate line	To understand concept of	
integrals of functions along	gradient, divergence and	
curves.	Curl.	
To learn surface integral and	To Calculate the curl and	
greens theorem.	divergence of a vector	
	field.	
	To learn line integral,	
	conservative vector field	
	Set up and evaluate line	
	integrals of functions	
	along curves.	
	To learn surface integral	
	and greens theorem.	

#### T.Y.B.Sc.

Sem. –V		
MTH - 501: Metric	To introduce the	After successful
Spaces.	students basic	completion of this course,
	knowledge of the metric	students are expected to:
	as a generalization of	Understand the distance
	distance function and	function and term metric
	basic concepts in metric	space
	spaces.	Learn about limit and
	To discuss the concepts	continuity of metric space.
	of limit, continuity,	Learn about the open and
	sequences, convergence,	closed ball, sequence and
	etc.	convergence of metric
	To acquaint the students	spaces.
	about completeness,	Understand the concept of
	connectedness,	connected, complete,
	compactness, etc.	compact metric spaces.
MTH - 502: Real	To acquaint the students	After successful
Analysis –I	Riemann integration,	completion of this course,
	Riemann integrable function	the students are expected
	and properties of Riemann	to:
	integrable function.	Understand the concept of
	To know the mean value	Riemann integration and

	theorems of integral calculus. To introduce the students improper integrals of finite and infinite limit. To imbibe the students beta, gamma functions.	properties of that. Learn the mean value theorem and properties. Know the term improper integrals of finite and infinite limit and their properties. Get the knowledge of beta and gamma functions nad properties.
MTH - 503: Algebra	To introduce the students subgroup, normal subgroup and results. To gain the knowledge of permutation To acquaint the students concepts of rings like ideals, isomorphism of rings and polynomial rings.	After successful completion of this course, students are expected to: Know the applications of permutation group. Understand normal subgroup and group isomorphisms Know Ideals in rings, Quotient Rings and Isomorphism of Rings. Know polynomial Rings and irreducibility of polynomials.
MTH - 504: Lattice Theory	To increase the knowledge of structure of poset and lattice. To observe diagrammatic representation of lattice. To introduce terms maximal & minimal element, greatest & least elements. To acquire the knowledge of the concept of ideals and its properties. To study homomorphism of lattices. To study modular and distributive lattice and their inter-relation. To study complemented and relatively complemented lattice.	After successful completion of this course, the students are expected to: Know the structure of poset and lattice. Represent lattice in diagrammatic form. Get the knowledge of the terms maximal element, minimal element, greatest element, Least elements. Learn the concepts of ideals and their properties. Learn the concepts of homomorphism.

		Understand modular and
		distributive lattice and
		their interrelation.
		Understand
		complemented and
		relatively complemented
		lattice
MTH - 505: Integral	To acquaint students integral	After successful
Transforms	transforms	completion of this course.
	To introduce the students	the students are expected
	Fourier transform. Inverse	to:
	Fourier transform.	Know the applications of
	To introduce Z-transform and	Fourier transform
	inverse Z- transform	Know the uses of Fourier
		transform Inverse
		Fourier transform for
		solving of partial
		differential equations
		Understand the uses of
		7 transform
MTH 506(B).	To introduce the terms prime	Z-transform.
MIH = 300(B).	numbers and conjugate	After successful
Number Theory	numbers and conjugate	the students are expected
	numbers, Diophantine	the students are expected
	equations, I	
	To imbibe the students theory	Diderstand now to solve
	of congruence's, Perfect	Diophantine equations
	numbers, Fibonacci sequence	Use Fermat's theorem,
	and finite continued fractions.	Euler's theorem and
		Wilson's theorem for
		finding remainders
		Understand perfect,
		Mersenne and Fermat's
		numbers.
		Understand Fibonacci
		sequence
		Solve Diophantine
		equations by using finite
		continued fractions.
MTH – 507: Practical	To enhance practical skills of	After successful
Course based on	students in concern with	completion of this course
(MTH-501& MTH-	problems.	students are expected to:
502)		Understand how to solve
		the problems.

		Increase the ability of
		problem solving.
MTH – 508 :Practical	To enhance practical skills of	After successful
Course based on	students in concern with	completion of this course
(MTH-503 & MTH-	problems.	students are expected to:
504)	1	Understand how to solve
,		the problems.
		Increase the ability of
		problem solving.
MTH – 509: Practical	To enhance practical skills of	After successful
Course based on	students in concern with	completion of this course
(MTH-505 & MTH-	problems.	students are expected to:
506(B))		Understand how to solve
		the problems.
		Increase the ability of
		problem solving.
Sem. VI		
MTH - 601: Measure	To introduce the	After successful
Theory	students the basic	completion of this course,
	elementary concepts of	students are expected to:
	Measure Theory.	Learn measurable sets and
	To acquaint the students	properties
	theorems and uses of	Understand the sets of
	measure theory.	measure zero and results
		of it.
		Know why theory of
		integration and measure is
		needed
		Understand Lebesque
		integral and properties of
		the Lebesgue integrals
MTH - 602: Real	To acquaint the student	After successful
Analysis – II	sequence of real numbers, series	completion of this course.
	function and results.	the students are expected
	To introduce the student theory	to:
	of Uniform convergence of	Determine the
	sequence of functions and	convergence and
	Cauchy's criteria for uniform	divergence of the
	con. Of sequence of function.	sequence and series.
	To imbibe the students Fourier	Use the various tests of
	series.	convergence and

		absolute convergence.
		Get knowledge about
		Fourier series for even
		and odd functions.
		Understand Sine and
		cosine series in half
		range
MTH - 603: Linear	To introduce the students	After successful
Algebra	vector spaces, basis and	completion of this course,
	dimensions.	students are expected to:
	To study Linear	Know about vector
	transformation also Eigen	spaces, subspaces, etc.
	value and eigen values.	Find basis and
	To know diagonalization of	dimensions of given
	matrices, congruences,	vector space and matrices
	Perfect numbers,	and verify Rank and
		nullity theorem.
		Use Cayley Hamilton
		theorem, Euler's theorem
		and finding Eigen values
		and Eigen vectors of
		linear transformation.
		Understand Kernel and
		image of linear
		transformations.
		Understand Singular and
		non-singular linear
		transformations and
		check diagonaizable
		matrices.
MTH - 604: Ordinary	To acquaint the student with	After successful
and Partial Differential	types and understanding of	completion of this course,
Equations	the solutions and applications	the students are expected
_	of ordinary differential	to:
	equations.	Know the exact
	To study the Non-Linear	differential equation and
	partial Differential Equation	its solution, also solution
	of order one and various	by using integrating
	methods of solving.	factor.
		Solve the linear
		differential equation of
		second order by using
		various methods.

MTH - 605: Graph Theory	To provide students with understanding of graph, Trees. Matrix representation of graphs. To improve the knowledge of various graphs, types of graphs, properties of graphs and operation on graphs.	Get knowledge of solving Non-Linear partial Differential Equation of order one After successful completion of this course, the students are expected to: Understand the preliminary concepts on graphs. Know the uses of graphs and connected graphs. Understand the concepts of Cut set and cut vertices. Know the matrix representation of graphs.
MTH – 606(B): Operations Research	To introduce linear programming problem (LPP). To acquire the knowledge of the simplex method to solve linear programming problem and for unbounded, alternative and infeasible solutions of LPP. To study the initial basic feasible solution of transportation problem (TP) and assignment problem(AP). To study the saddle point, maximin-minimax principal, two person zero sum game. To study 2 s 2 games without saddle point. To study graphical method to solve mx2 and 2xn games and dominance property.	After successful completion of this course, the students are expected to: Understand how to solve the linear programming problem by graphical method and simplex method. Learn the unbounded, alternative and infeasible solutions of LPP by graphical and simplex method. Find the optimal solution of TP by North-West corner method, Matrix minima method (Least cost method), Vogel's approximation method and MODI method. Solve the assignment problems by Hungerian method. Understand the

		unbalanced, balanced,
		maximization, restricted
		AP and alternative
		solution of AP.
		Understand the saddle
		point, maximin-minimax
		principal, two person
		zero sum game.
		Use of dominance
		property to find the
		solution of game.
MTH – 607: Practical	To enhance practical skills of	After successful
Course based on	students in concern with	completion of this course
(MTH-601, MTH-602)	problems.	students are expected to:
		Understand how to solve
		the problems.
		Increase the ability of
		problem solving.
MTH – 608: Practical	To enhance practical skills of	After successful
Course based on	students in concern with	completion of this course
(MTH-603 & MTH-	problems.	students are expected to:
604)		Understand how to solve
		the problems.
		Increase the ability of
		problem solving.
MTH – 609: Practical	To enhance practical skills of	After successful
Course based on	students in concern with	completion of this course
(MTH-605, MTH-	problems.	students are expected to:
606(A) or MTH-		Understand how to solve
606(B))		the problems.
		Increase the ability of
		problem solving.

Department of Microbiology. Course objectives and Outcomes

## F.Y.B.Sc.

SemI		
Paper	Objectives	Outcome
MB -101 : Microbial Diversity	To acquaint students with basic concepts of microbial diversity and how the microbe concept emerged	After successful completion of this course students are expected to: Understand the basic microbial structure and study the comparative characteristics of prokaryotes and eukaryotes and also Understand the structural similarities and differences among various physiological groups of bacteria/archaea Know general bacteriology and microbial aspects pertinent to bacteria, fungi and algae How the subject emerge as new branch of biology Learn ancient view about life continuity and concept of experiment Aware about historical developments and their applications as technology Cognizant about contribution of various pioneers of microbiology Aware about diversity of microorganism Impact of microbes on earth atmosphere, health and

		technology development
		Recognise the scope of
		microbiology in all spheres
		of life and industrial sector
		We are the starting the line of the line of the line of the starting of the st
		ways to classify the living
		system
		Understand the
		taxonomy(identification,
		binomial nomenclature, and
		Classifications
		schemes/keys) and
		comprehend the various
		approaches of microbial
		taxonomy
MB -102 ·	To complement the students	After successful completion
Microscopy and Basic	with the basic knowledge	of this course students are
Bacteriology	about microbial growth and	expected to:
Daeteriology	microscony	Demonstrate theory in
	meroscopy	microscopy and their
		handling techniques and
		nanding techniques and
		staining procedures
		Know various Culture media
		and their applications and
		also understand various
		physical and chemical
		means of sterilization
		Know general bacteriology
		and microbial techniques for
		isolation of pure cultures of
		bacteria fungi and algae
		Learn asentic techniques and
		be able to perform routine
		oulture handling tools safely
		culture nanoning tasks safety
		and effectively
		Comprehend the various
		methods for identification of
		unknown microorganisms
		Understand the modes of
		nutrition in microbial
		metabolism and able to
		classify the bacteria based
		on nutrition
		Know the various Physical

		and Chemical growth
		requirements of bacteria and
		get equipped with various
		methods of bacterial growth
		measurement.
MB 103: Microbiology	To introduce various	After successful completion
Practical Paper - I	microorganisms present in the	of this course students are
(Practical)	ecosystem and acquaint with	expected to:
	Common equipment used in	Inculcate the ability to apply
	routine	the process of science
	microbiology laboratory	Demonstrate ability to
		formulate hypotheses and
		design experiments based on
		the scientific method.
		Analyse and interpret results
		from a variety of
		microbiological methods
		and apply these methods to
		analogous situations.
		Develop ability to use
		quantitative reasoning to
		solve problems in
		microbiology
		Communicate and
		collaborate with other
		disciplines
		Effectively communicate
		fundamental concepts of
		microbiology in written and
		oral format.
		Identify credible scientific
		sources and interpret and
		evaluate the information
		therein.
		Understand the relationship
		between science and society
		Demonstrate theory and
		practical skills in
		microscopy and their
		handling techniques and
		staining procedures
		Understand the basic
		microbial practices and

characteristics of prokaryotes and eukaryote Comprehend the various methods for identification microorganisms adopted in	s
prokaryotes and eukaryote Comprehend the various methods for identification microorganisms adopted in	S
Comprehend the various methods for identification microorganisms adopted in	
methods for identification microorganisms adopted in	
microorganisms adopted in	of
	n
Bergey's manual and able	to
classify the bacteria	
Know the various Physica	.1
growth requirements of	
bacteria	
Prepare and view specime	ns
using microscopy (bright	
field microscope).	
Aware and train in aseptic	, ,
handling of microbial	
specimens. Practice safe	
microbiology, using	
appropriate protective and	
emergency procedures.	
Use appropriate	
microbiological and	
molecular lab equipment a	ind
methods.	
Document and report on	
experimental protocols,	
results and conclusions	

# Sem.-II

MB -201 : Basic	To acquaint students with basic	After successful completion
Biochemistry and	concepts in biochemistry and	of this course students are
Cytology	familiarize with cellular	expected to:
	architecture	Understand the basic
		microbial structure and
		function and study the
		comparative characteristics
		of prokaryotes and
		eukaryotes and also
		Understand the structural
		architecture and differences
		among bacteria/archaea
		Know basic knowledge

		pertinent to cell
		biomolecules as such
MB -202 : Microbial	To complement the students	After successful completion
Techniques	with cultivation and control of	of this course students are
	microbe with physical and	expected to:
	chemical approach	Know general bacteriology
		and introduce microbial
		techniques for isolation of
		pure cultures of bacteria,
		fungi, algae and virus
		Demonstrate theory and
		practical skills in handling
		microbial culture
		Know various bacteria based
		on nutritional needs and also
		understand various physical
		and chemical means of
		sterilization
		Discern knowledge about
		sterility assessment of
		sterilizing agents
MB 203: Microbiology	To instil practical skills about	After successful completion
Practical -II (Practical)	methods of isolation,	of this course students are
	characterization, control of	expected to:
	Microbes and familiarize with	Inculcate scientific thinking
	fundamental aspect of cellular	student can adapt the ability
	chemistry	to apply the process of
		Demonstrate en ability to
		formulate hypotheses and
		design experiments based on
		the scientific method
		Analyze and interpret results
		from a variety of
		microbiological methods
		and apply these methods to
		analogous situations
		Adapt quantitative reasoning
		and graphing skills to solve
		problems in microbiology
		Introduce microbiology
		Laboratory Skills
		Perform advanced staining

	methods
	Use pure culture and
	selective techniques to
	enrich and isolate
	microorganisms.
	Use appropriate methods to
	identify microorganisms
	(media-based)
	Estimate the number of
	microorganisms in a sample
	Become conversant in basic
	biochemistry methods and
	biochemical methods in
	microbiology
	Demonstrate practical skills
	in microscopy and their
	handling techniques and
	staining procedures
	Understand the bacterial
	growth and comprehend
	various physical and
	chemical means of
	sterilization
	Know General bacteriology
	and microbial techniques for
	isolation of pure cultures of
	bacteria, fungi and algae
	Practice aseptic techniques
	and able to perform routine
	culture handling tasks safely
	and effectively
	Understand preparation of
	standard solutions required
	in various assays.

#### S.Y.B.Sc.

SemIII		
MB - 301: Basic	To acquaint students with basic	After successful completion
Microbial Enzyme and	concepts of enzymology and	of this course, students are

Metabolism	microbial metabolism.	expected to:
		Understand the basic of
		microbial enzymology,
		nature of enzyme, their
		nomenclature, working
		mechanism, classification
		based on their action etc.
		Know how about different
		parameters affecting the
		activity of enzyme.
		Learn about nutrient uptake
		by microbes various
		mechanism used to transport
		ions and molecules in
		microbial cells
		Aware about concept of
		metabolism and its basic
		types
		Cognizant about various
		pathways used by microbes
		to break down molecule and
		generate ATP as a source of
		energy
		Aware about the regulations
		and energetics of various
		pathways.
		Understand aerobic.
		anaerobic respiration and
		fermentation.
MB - 302: Microscopy	To complement the students	After successful completion
and Microbial Ecology	with the basic knowledge about	of this course, the students
	microscopy and microbial	are expected to:
	ecology.	Demonstrate theory in
		microscopy and acquaint
		with advanced microscopy.
		Know the basic concepts of
		microbial ecology such as
		biotic and abiotic factors.
		microbial interactions etc.
		Learn the establishment of
		symbiosis, some positive
		and negative interactions.
		Comprehend the various

		symbiotic interactions of
		microbes with plants,
		animals and other microbes.
		Understand the microbial
		interactions in extreme
		habitats.
		Know the detail concept of
		hiotopes
MB - 303 · Practical	To introduce the students to	After successful completion
Paper-III	various structural biochemical	of this course students are
ruper m	environmental and microscopic	expected to:
	aspects of microorganisms	Learn proper handling of
	along with study of	microninette nH meter
	extremonhiles	graduated pipette and
	extremoprines	volumetric flask along with
		their calibrations
		Derform specific steining
		techniques and acquired skill
		of handling microscope
		of handling incroscope
		while observing stained
		preparations.
		Able to demonstrate basic
		biochemical characteristics
		of bacteria.
		Able to check potability of water.
		Know characteristics and
		significance of
		extremophiles.
		Different environmental
		aspects of microorganisms.
MB SEC- I:	To highlight the number and	After successful completion
Microbiological	range of pathogens that may be	of this course, the students
Analysis of Air Water	found in air water and soil	are expected to:
and Soil	To describe some of the key	Competently explain various
	preventative and monitoring	aspects of environmental
	actions which maintain and	microbiology
	improve microbiological	Aware about the pollution
	quality of water air and soil	Water and air-borne diseases
	To introduce the concent and	and their transmission
	use of indicator bacteria	methods of determination of
	specially in water quality	sanitary quality of water and
	monitoring	sewage treatment methods
	monnoring.	sowage ucalinent methous

	To describe the principal indicator bacteria used and their key characteristics which make them suitable for use as indicators. To emphasize the value of <i>E</i> . <i>coli</i> and thermotolerant fecal coliforms as routine indicators	employed in waste water treatment. Appreciate the diversity of microorganisms and learn the abundance, distribution and significance of microorganism in the environment such as bioremediation and Plant microbe interactions understand various biogeochemical cycles - microbes involved and biochemical mechanisms of Carbon, Nitrogen, Phosphorus cycles etc.
SemIV		
MB - 401: Genetics and	To acquaint students with basic	After successful completion
Immunology	concepts of microbial Genetics	of this course, the students
	and Immunology	are expected to:
		Understand the basic of
		microbial enzymology,
		nature of enzyme, their
		nomenclature, working
		mechanism classification
		based on their action etc
		Understand the concepts like
		gene chromosome
		Structural organization of
		chromosome extra
		chromosome: plasmid and
		its types
		Know general terms used in
		genetics
		Aware about genetic code
		Learn mutation, type, agent
		causing mutation and their
		mechanism, test to detect
		mutation etc.
		Learn about infection: mode
		and source.

		Understand antigen,
		antibody and their role in
		immunity and immune
		response.
		Know about antibody
		diversity.
		Understand blood grouping
		system.
		Cognizant about vaccine.
		anti-sera and toxoid
MB - 402: Basic	To acquaint students with basic	After successful completion
Industrial Microbiology	concepts of industrial	of this course, the students
	microbiology.	are expected to:
		Understand the basics of
		fermentation technology,
		screening techniques,
		microbial culture
		preservation techniques etc.
		Know the concepts of
		inoculum development and
		media sterilization for
		fermentation process.
		Learn about the typical
		structure of fermenter and its
		parts, types of fermentation
		processes and synchronous
		growth.
		Aware about the detail
		downstream process of
		fermentation of important
		microbial products.
MB - 403: Practical	To enhance practical skills of	After successful completion
Paper - IV	students in concern with	of this course students are
	Genetics, Industrial	expected to:
	microbiology and enzymology.	Structure and functions of
		nucleus and volutin
		granules.
		Able to carry out titrations
		skillfully.
		Understand structure,
		working principle and
		significance of each and
		every part of fermenter.

		Know chromatography techniques. Students can be able to detect blood groups and perform cross-matching. Understand concept of stock solutions and can prepare required stock concentration by proper dilutions. Get knowledge about enzymes; successfully detect various enzymes produced by microorganisms
SEC-II: Biofertilizers and Biopesticides	To aware the students to the adverse effects of plant production and protection of chemicals on the biotic and abiotic components of environment. To familiarize students with the microbes used as biofertilizers for various crop plants and their advantages over chemical fertilizers	After successful completion of this course students are expected to: Completion of the course will give an overview of relevant use of microbial biofertilizers and biopesticides. The students will become familiar with the vast reserves of available microbial biodiversity that provide abundant opportunities to harness the ability of micro - organisms and their chemical constituents To sustainably minimize damage from pests or increase agricultural productivity and production.

#### T.Y.B.Sc

SemV		
MB-501	To introduce the concepts in	After completion of this
Microbial Genetics	Microbial Genetics	course, students will be

	To acquaint with molecular	able to:
	techniques	Acquaint with the concepts
	To update applied knowledge	of Gene transfer and its
	in the field of microbial	Central Dogma
	genetics	Able to learn the principles
		and applications of various
		molecular techniques
		Have the basic knowledge of
		operon and rDNA
		technology
MB-502	To introduce with concepts	After completion of this
Bioprocess	related to bioreactors and	course, students will be
Technology	their types	able to:
85	To acquaint with concepts	Know a bioreactor, its parts
	strain improvement and scale	and types
		Get knowledge about the
	To make aware regarding	significant processes in a
	processes involved in	bioreactor like strain
	fermentation	improvement, inoculums
		development sterilization
		and scale-up
MB-503	To acquaint with the	After completion of this
Metabolism	principles of Bioenergetics	course, students will be
	To understand the concept of	able to:
	thermodynamics and Electron	Get well versed with the
	Transport Chain	catabolic and anabolic
	To define the types of	pathways
	anabolic and catabolic	Understand the concept of
	pathways and the mechanisms	ETC and principles of
	involved therein	thermodynamics
		Apply the principles of
		metabolism in various
		bacteria
MB-504	To study the concepts related	After completion of this
Basic Immunology	to antigen and antibody	course, students will be
	To study the various immune	able to:
	cells and organs functional in	Get acquainted with
	a body	Antigenicity and
	To get knowledge about	Immunogenicity
	MHC and Antigen	Know about the role of
	Presentation	immune cells and organs
		and the functional
		mechanisms of each

		Understand the structure
		and role of MHC and APC
MB-505	To introduce the conceptsin	After completion of this
Medical	Medical Microbiology	course, students will be
Microbiology-I	To enrich knowledge about	able to:
	various diseases with respect	Get a clear vision about
	to diagnosis, prevention,	various aspects of
	control and role	infectious diseases
	chemotherapy	Understand the principles
	To understand the human	of immunological
	anatomy with functions	phenomena associated with
		the infectious diseases.
		Carry out fundamental or
		applied research in the
		field of Medical
		Microbiology
MB-506(A)	To understand concepts in	After completion of this
Food Microbiology	milk microbiology	course, students will be
	To complement the students	able to:
	with the basic knowledge of	Know the concepts related
	food microbiology	to popular milk products,
	To acquaint the students with	milk examination and
	food preservation techniques	spoilage.
		Comprehend knowledge
		regarding fermented food
		products, food spoilage and
		infection
		Understand diverse
		strategies for food
		preservation
MB-506(B)	To develop practical skills	After completion of this
Pharmaceutical	involved in interpretation of	course, students will be
Quality Control	biological materials and data	able to:
and Quality Assurance	To promote development of	Understand microbial
	entrepreneurship and build up	spoilage and preservation
	Professionals in	of pharmaceutical
	Pharmaceutical Analysis,	formulations during
	teaching and R&D work	production and in products.
	Develop a scientific attitude	Get hands-on knowledge of
	to make students open	disinfection, sterilization,
	minded, critical and curious	microbial assays,
	about scope, functioning and	pharmacopoeia standards
	the future of pharmaceutical	and antimicrobial agents.

	Microbiology	Acquire knowledge of GMP practice, CGMP, FDA, GLP and
MB-507 Methods in Medical Microbiology-I	To acquaint with microbial isolation techniques from various clinical samples Gain knowledge about diagnostic tests for diseases To train to determine potency of antibiotics using various standard methods	After completion of this course, students will be able to: Achieve skill in pure culture techniques Learn principles underlying diagnostic tests and handle kits for diagnosis of diseases Know various stages involved in malarial and diarrhoeal infections
MB-508 Methods in Industrial Microbiology-I	To acquaint the learner with various fermentation processes To apply the concept of these processes for commercially valuable products To correlate this knowledge with the industrial fermentation process	After completion of this course, students will be able to: Understand the fermentation processes involved for various products and investigate the applications of sterilization techniques for fermentation products Inculcate the salient features of quality management and regulatory processes Use computer for data generation and maintenance
MB-509 Methods in Applied Microbiology-I	To learn the isolation of agriculturally important microorganisms causing food poisoning & microbes responsible for food fermentation To understand the principle and methods of microbiological examination of milk and sewage	After completion of this course, students will be able to: Isolate and identify agriculturally important microbes like <i>Azotobacter</i> and cellulolytic microbes Detect food poisoning causing microbes and perform the tests to

	To acquaint the students with the concept of BOD and Nano particles	determine quality control of dairy product (milk) Synthesize nano particles by biological method/s and characterize them using UV-Visible Spectrophotometry
SemVI		
MB-601 Molecular Biology	To get acquainted with the molecular regulatory mechanisms in bacteria To understand the principles underlying techniques used in molecular Biology To study the principle and applications of recombinant DNA technology	After successful completion of this course, students are expected to: Get well versed with the regulatory mechanisms of Lactose and Tryptophan operon Understand the principles and applications of advanced molecular techniques Know the methodology involved in engineering of genes and its practical applications
MB-602 Fermentations	To introduce fermentation processes and their types To provide knowledge about the chronological development in fermentation To acquire knowledge about large scale production of commercially valuable products	After successful completion of this course, students are expected to: Understand fermentation processes involved in the production of various products Get acquainted with the needs of a fermentation industry Know about the large-scale production of various valuable products
MB-603 Enzymology	To understand regulation of enzyme action To get acquainted with enzyme technology To get knowledge about	After successful completion of this course, students are expected to: Know the role of coenzymes in enzyme

	techniques involved in	action
	enzyme purification.	Understand the regulation
		of enzymatic reactions
		pertaining to allosteric
		proteins and covalent
		modification
		Acquire knowledge about
		purification of enzymes by
		various methods,
		immobilization of enzymes
		and enzyme engineering
		techniques
MB-604 Advanced	To understand various	After successful
Immunology	protective mechanisms	completion of this course,
	underlying the human	students are expected to:
	immune system,	Be well versed with
	immunological disorders and	protective immunity and
	tumours	tolerance in the body
	To study the principles	Gain knowledge about the
	underlying various	serological tests and their
	immunological techniques	applications
	To debate the immuno-	Know the path that may
	prophylactic measures against	help to overcome the
	various novel viral infections	challenges in the synthesis
		of novel vaccines
MB-605 Medical	To create awareness about the	After successful
Microbiology-II	infectious diseases.	completion of this course,
	To create theoretical base for	students are expected to:
	practical approaches	Become aware about the
	To study prognosis of	various types of diseases
	bacterial, viral and other	and their sources
	diseases	Justify the variation
		between viral, bacterial and
		other diseases
		Explain prognosis of
		diseases and become aware
		about the role of medical
		microbiology in public
		health
MB-606 (A)	To understand concepts in	After successful
Agricultural	plant pathology	completion of this course,
Microbiology	To acquaint the students with	students are expected to:
	basic knowledge of plant	Understand classification of

	disease control	plant pathology with
	To complement the students	regional plant diseases
	with the concepts in	Know the concepts related
	Agricultural Microbiology	to methods of plant disease
		control
		Comprehend knowledge
		regarding Agricultural
		Microbiology
MB-606 (B)	To promote development of	After successful
<b>Regulatory Practices</b>	entrepreneurship and know	completion of this course,
and IPR	the importance and scope of	students are expected to:
	the IPR in Microbiology	Understand role of
	To get acquainted with	regulatory practices in
	regulatory practices	Pharmaceutical Industry
	undertaken at commercial	and become aware of the
	level.	patents norms
	Develop a scientific attitude	Have knowledge pertaining
	to make students open	to Intellectual Property
	minded, critical and curious	Rights and their protection
	about scope, functioning and	Be endowed with the
	the future of Commercial	legislature to be followed
	Microbiology	during the generation of
		genetically modified plant
		and animals.
MB-607	To study pure culture	After successful
Methods in Medical	techniques involved in the	completion of this course,
Microbiology-II	isolation of pathogens from	students are expected to:
	clinical samples	Perform pure culture
	To investigate the normal	techniques and apply them
	flora of skin and mouth	for pathogenic bacteria
	To handle diagnostic tests	Inculcate the technique
	involved in detection of STDs	involved in collection of
		mouth and skin samples
		using swabs for diagnostic
		purpose
		Perform diagnostic tests for
/		Syphilis and AIDS
MB-608	To analyse the potency of an	After successful
Methods in Industrial	antibiotic by suitable bioassay	completion of this course,
Microbiology-II	To study the stoichiometric	students are expected to:
	evaluation of enzyme activity	Design bioprocesses for
	To handle the techniques	commercially valuable
	involved in enzyme	products

	immobilization	Learn techniques for
		validation of instruments
		used in fermentation
		industry
		Investigate the role of
		immobilization in enzyme
		activity and apply it for
		various purposes
MB-609	To isolate and screen	After successful
Methods in Applied	microbes involved in	completion of this course,
Microbiology-II	bioremediation processes and	students are expected to:
	significant for crops	Isolate and screen microbes
	To analyse the waste water /	involved in bioremediation
	liquid effluent and emphasize	processes like dyes and
	on safety handling of	lignin degradation
	hazardous materials	Isolate and identify
	To aware the students about	rhizospheric microbes
	bioenergy, bio fertilizers,	important for crops such as
	biocontrol agents etc.	phosphate solubilizes,
		nitrogen fixers etc.
		Analyse the quality of
		waste water / liquid
		effluent and make charts of
		safety handling of
		hazardous materials and
		MSDS

Department of Physics. Course objectives and Outcomes

## F.Y.B.Sc.

SemI		
Paper	Objectives	Outcome
PHY 101: Basic Mechanics	To impart knowledge of basic concepts in Electricity and Magnetism. To provide the knowledge and methodology necessary for solving problems in Physics. The course also involves the related experiments based on the theory	Learner will be able to : Apply the concept of use of knowledge of mechanics to real life problems. Understanding of the course will create scientific temperament
PHY 102: Dynamics and Elasticity	To impart knowledge of basic concepts in Electricity and Magnetism. To provide the knowledge and methodology necessary for solving problems in Physics. The course also involves the related experiments based on the theory	Learner will be able to : Apply the concept of use of knowledge of mechanics to real life problems. Understanding of the course will create scientific temperament
PHY 103: Lab-1	To develop observational skills, confidence in using scientific equipment and relate the knowledge of scientific concepts to quantitative and physical measurement Acquire knowledge, skills, working methods and ways of expression which will reflect on all round development of the students' attitudes towards scientific thinking and its applications	Learner will be able to : Able to handle scientific instruments, to conduct proper experiments and developed observational skills among themselves.

SemII		
DIIV 201, Flastminiter	To import knowledge of here's	Learner will be able to .
PHY 201: Electricity	10 impart knowledge of basic	Learner will be able to :
and Electrostatics	Concepts in Electricity and	Apply the concept of use of
	Magnetism.	knowledge of Electricity
	To provide the knowledge and	and Magnetism to real me
	nethodology necessary for	productions.
	The course class involves the	onderstanding of the
	related experiments based on	course will create scientific
	the theory	temperament
DUV 202. Eiglastriag	To import knowledge of basic	Learner will be able to t
PHY 202: Elelectrics,	10 impart knowledge of basic	Learner will be able to :
	Mean ations	Apply the concept of use of
electromagnetism	Magnetism.	knowledge of Electricity
	To provide the knowledge and	and Magnetism to real life
	methodology necessary for	problems.
	solving problems in Physics.	Understanding of the
	The course also involves the	course will create scientific
	related experiments based on	temperament
DUX 000 1 1 11	The theory	Y '11.1 1.1 4
PHY 203:1ab-11	lo develop observational	Learner will be able to :
	skills, confidence in using	Able to handle scientific
	scientific equipment and relate	instruments, to conduct
	the knowledge of scientific	proper experiments and
	concepts to quantitative and	developed observational
	physical measurement	skills among themselves.
	Acquire knowledge, skills,	
	working methods and ways of	
	expression which will reflect	
	on all round development of	
	the students attitudes towards	
	scientific thinking and its	
	applications	

#### S.Y.B.Sc.

SemIII		
PHY 301:	T o impart knowledge of basic	Learner will be able to:
Thermodynamics and	concepts in Thermodynamics	Apply the concept of use of
Kinetic theory of gases	and kinetic theory of gases.	knowledge of

	To provide the knowledge and methodology necessary for solving problems in Physics. The course also involves the related experiments based on the theory.	Thermodynamics and kinetic theory of gases to real life problems. Understanding of the course will create scientific temperament.
PHY 302 (A): Electronics –I	To impart knowledge of basic concepts in Electronics. To provide the knowledge and methodology necessary for solving problems in Physics. The course also involves the related experiments based on the theory.	Learner will be able to : Apply the concept of use of knowledge of Electronics to real life problems. Understanding of the course will create scientific temperament
PHY 302 (B): Instrumentation	To impart knowledge of basic concepts in Instrumentation. To provide the knowledge and methodology necessary for solving problems in Physics. The course also involves the related experiments based on the theory.	Learner will be able to : Apply the concept of use of knowledge of Instrumentation to real life problems. Understanding of the course will create scientific temperament
PHY 303: Lab III	To develop observational skills, confidence in using scientific equipment and relate the knowledge of scientific concepts to quantitative and physical measurement Acquire knowledge, skills, working methods and ways of expression which will reflect on all round development of the students' attitudes towards scientific thinking and its applications	Learner will be able to : Able to handle scientific instruments, to conduct proper experiments and developed observational skills among themselves.
PHY 304: Skill Enhancement Course I	Introduction to conventional and non conventional energy sources. Learn about solar energy, Hydro and Biomass energy, Geothermal energy and energy harvesting	Learner will be able to : Learn about conventional and non conventional energy sources as well as solar energy, Hydro and Biomass energy, Geothermal energy and

		energy harvesting
SemIV		
PHY 401: Waves, Oscillations and Acoustics	To impart knowledge of basic concepts in Waves and Sound. To provide the knowledge and methodology necessary for solving problems in Physics. The course also involves the related experiments based on the theory.	Learner will be able to: Apply the concept of use of knowledge of Waves and Sound to real life problems. Understanding of the course will create scientific temperament
PHY 402: Optics and LASERS	To impart knowledge of basic concepts in Optics and LASERS. To provide the knowledge and methodology necessary for solving problems in Physics. The course also involves the related experiments based on the theory.	Learner will be able to: Apply the concept of use of knowledge of Optics and LASERS to real life problems. Understanding of the course will create scientific temperament.
PHY 403: Lab IV	To develop observational skills, confidence in using scientific equipment and relate the knowledge of scientific concepts to quantitative and physical measurement Acquire knowledge, skills, working methods and ways of expression which will reflect on all round development of the students' attitudes towards scientific thinking and its applications	Learner will be able to : Able to handle scientific instruments, to conduct proper experiments and developed observational skills among themselves.
PHY 404: Electrical Circuits and Network Skills	Introduction to basic electrical principles, electric circuits, electrical drawings and symbols. To know about generators and transformers, Electric motors, electrical protection and electrical wiring	Learners are able to: Learn basic electrical principles, electric circuits, electrical drawings and symbols. Know about generators and transformers, Electric motors, electrical

## T.Y.B.Sc.

SemV		
PHY 501:	To impart knowledge of basic	Learner will be able to:
Mathematical physics	concepts in Mathematical	Apply the concept and
	physics.	knowledge of
	To provide the knowledge and	Mathematical physics to
	methodology necessary for	understand and solve real
	solving problems in Physics.	life problems.
	The course also involves the	Understanding of the
	related experiments based on	course will create scientific
	the theory.	temperament
PHY 502: Solid State	To impart knowledge of basic	Learner will be able to:
physics	concepts in Solid state	Apply the concept and use
	Physics. To provide the	of knowledge of Solid state
	knowledge and methodology	Physics understand and
	necessary for solving	solve the real life problems.
	problems in Physics.	Understanding of the
	The course also involves the	course will create scientific
	related experiments based on	temperament
	the theory.	
PHY 503: Atomic and	To impart knowledge of basic	Learner will be able to:
Molecular physics	concepts in Atomic and	Apply the concept and
	Molecular Physics.	knowledge of Atomic and
	To provide the knowledge and	Molecular Physics to
	methodology necessary for	understand and solve the
	solving problems in Physics.	real life problems.
	The course also involves the	Understanding of the
	related experiments based on	course will create scientific
	the theory.	temperament.
PHY 504(A):	To impart knowledge of basic	Learner will be able to:
Electronics-II	concepts in Electronics and	Apply the concept and use
	Digital Electronics.	of knowledge of
	10 provide the knowledge and	Electronics and Digital
	methodology necessary for	Electronics to real life
	solving problems in Physics.	problems. Understanding
	The course also involves the	of the course will create

	related experiments based on the theory.	scientific temperament.
PHY 504(B): Instrumentation-II	To impart knowledge of basic concepts in Instrumentation. To provide the knowledge and methodology necessary for solving problems in Physics. The course also involves the related experiments based on the theory	Learner will be able to: Apply the concept and use of knowledge of Instrumentation to understand and to solve real life problems. Understanding of the course will create scientific
PHY 505: Solar energy and applications	To impart knowledge of basic concepts of clean, safe and affordable energy. To provide the knowledge about variety of solar energy applications. To provide the knowledge and methodology of conversion of solar energy into heat& electricity.	temperament. Learner will be able to: Apply the concept of use of knowledge of energy resources, solar radiations and conversion to real life problem. Understanding of the course will create scientific temperament. To impart knowledge of basic concepts of solar cell fundamentals.
		To provide the knowledge and methodology of conversion of solar energy into electricity.
PHY 506(A): Technical Electronics-I	To impart knowledge of basic concepts in Technical Electronics. To provide the knowledge and methodology necessary for solving problems in Physics. The course also involves the related experiments based on the theory	Learner will be able to: Apply the concept of use of knowledge of Technical Electronics to real life problems. Understanding of the course will create scientific temperament.
PHY 507: Physics practical -I	To develop observational skills, confidence in using scientific equipment and relate the knowledge of scientific concepts to quantitative and physical measurement Acquire knowledge, skills,	Learner will be able to : Able to handle scientific instruments, to conduct proper experiments and developed observational skills among themselves.

	working methods and ways of	
	expression which will reflect	
	on all round development of	
	the students' attitudes towards	
	scientific thinking and its	
	applications	
PHY 508: Physics	To develop observational	Learner will be able to :
practical -I I	skills, confidence in using	Able to handle scientific
	scientific equipment and relate	instruments, to conduct
	the knowledge of scientific	proper experiments and
	concepts to quantitative and	developed observational
	physical measurement	skills among themselves.
	Acquire knowledge, skills,	C
	working methods and ways of	
	expression which will reflect	
	on all round development of	
	the students' attitudes towards	
	scientific thinking and its	
	applications	
PHY 509: Physics	To develop observational	Learner will be able to :
practical -III	skills, confidence in using	Able to handle scientific
1	scientific equipment and relate	instruments, to conduct
	the knowledge of scientific	proper experiments and
	concepts to quantitative and	developed observational
	physical measurement	skills among themselves.
	Acquire knowledge, skills.	6
	working methods and ways of	
	expression which will reflect	
	on all round development of	
	the students' attitudes towards	
	scientific thinking and its	
	applications	
	upproutons	
SemVI		
DUV 601. Ouenture	To import knowledge of hesi-	Loomon will be able to
machanica (Cradita:	concepts in Quantum	A poly the concent and use
110 meenames (Credits:	Machanics	of knowledge of Quentum
	To provide the knowledge and	Machanics to real life
	methodology pacessory for	problems
	nethodology necessary lor	provients.
	The course class in Physics.	onderstanding of the
	The course also involves the	course will create scientific
	related experiments based on	temperament.

	the theory.	
PHY 602: Material	To impart knowledge of basic	Learner will be able to :
Science	concepts in Material Science.	Apply the concept of use of
	To provide the knowledge and	knowledge of Material
	methodology necessary for	Science to real life
	solving problems in Physics.	problems.
	The course also involves the	Understanding of the
	related experiments based on	course will create scientific
	the theory.	temperament.
PHY 603: Nuclear	To impart knowledge of basic	Learner will be able to :
Physics	concepts in Nuclear Physics.	Apply the concept and use
	To provide the knowledge and	of knowledge of Nuclear
	methodology necessary for	Physics to understand and
	solving problems in Physics.	solve the real life problems.
	The course also involves the	Understanding of the
	related experiments based on	course will create scientific
	the theory.	temperament
PHY 604: Modern and	To impart knowledge of basic	Learner will be able to :
Applied Physics	concepts in Modern and	Apply the concept and use
	Applied Physics.	of knowledge of Modern
	To provide the knowledge and	and Applied Physics to
	methodology necessary for	understand and solve the
	solving problems in Physics.	real life problems.
	The course also involves the	Understanding of the
	related experiments based on	course will create scientific
	the theory.	temperament.
PHY 605: Basic	To impart knowledge of basic	Learner will be able to :
Instrumentation Skills	concepts in Basic	Handle and use various
	Instrumentation skills.	basic mechanical and
	To provide the knowledge and	electrical measuring
	methodology necessary for	instruments
	solving problems in Physics.	Understanding of the
	The course also involves the	course will create scientific
	related experiments based on	temperament.
	the theory.	× ••••
PHY 606(A):	To impart knowledge of basic	Learner will be able to :
Technical Electronics	concepts in Technical	Apply the concept of use of
	Electronics.	knowledge of Technical
	10 provide the knowledge and	Electronics to real life
	methodology necessary for	problems.
	solving problems in Physics.	Understanding of the
	I ne course also involves the	course will create scientific

	related experiments based on	temperament.
	the theory.	
PHY 607: Physics	To develop observational	Learner will be able to :
practical -I	skills, confidence in using	Able to handle scientific
	scientific equipment and relate	instruments, to conduct
	the knowledge of scientific	proper experiments and
	concepts to quantitative and	developed observational
	physical measurement	skills among themselves.
	Acquire knowledge, skills,	C
	working methods and ways of	
	expression which will reflect	
	on all round development of	
	the students' attitudes towards	
	scientific thinking and its	
	applications	
PHY 608: Physics	To develop observational	Learner will be able to :
practical -II	skills, confidence in using	Able to handle scientific
1	scientific equipment and relate	instruments, to conduct
	the knowledge of scientific	proper experiments and
	concepts to quantitative and	developed observational
	physical measurement	skills among themselves.
	Acquire knowledge, skills,	6
	working methods and ways of	
	expression which will reflect	
	on all round development of	
	the students' attitudes towards	
	scientific thinking and its	
	applications	
PHY 609: Physics	To develop observational	Learner will be able to :
practical -Ill	skills, confidence in using	Able to handle scientific
1	scientific equipment and relate	instruments, to conduct
	the knowledge of scientific	proper experiments and
	concepts to quantitative and	developed observational
	physical measurement	skills among themselves.
	Acquire knowledge, skills,	C
	working methods and ways of	
	expression which will reflect	
	on all round development of	
	the students' attitudes towards	
	scientific thinking and its	
	applications	

## M.Sc.-I

SemI		
PHY 101: Mathematical Methods for Physics	The main objective of this course is to familiarize students with a range of mathematical methods that are essential for solving advanced problems in theoretical physics. This Course Enables the Student to: Understand the linear equations, vector spaces, Matrix Algebra, Integral transformations, determinants, eigenvalue, eigenvectors, etc. Learn to use Laplace	After completion of the course a student will be able to: Demonstrate competence with the basic ideas of linear algebra including concepts of linear systems, independence, theory of matrices, linear transformations. Use the method of Laplace transforms to solve initial- value problems for linear differential equations with constant coefficients
	transform methods to solve differential equations. Introduce the Fourier series and its application to the solution of partial differential	Solve a Cauchy problem for the wave or diffusion equations using the Fourier Transform
PHY 102: Classical Mechanics	To understand the dynamics of system of particles. To understand the conservative of linear and angular momentum of system of particles. To understand Legendre's dual transformations. To understand Hamiltonian functions and Hamiltonian equations of motion of particles. To understand canonical transformations and Hamilton – Jacob theory . To understand the physics of small oscillations of parallel pendulum etc.	After completion of this course a student will be able to: Explain Lagrangian and Hamiltonian formulation of Classical Mechanics. State the conservation principles involving momentum, angular momentum and energy. Explain motion of a particle under central force field.

PHY 103: Quantum	To know different types of	Students know all types of
Mechanics	operators which are used to	representations of operators
	study the different equations	and ways to apply them in
	of motions.	different problems.
	To learn Matrix formulation of	How to write and solve the
	Quantum Mechanics,	wave function in Matrix
	Quantum dynamics, to derive	form.
	Schrodinger's equation.	How to solve the hydrogen
	To know about Eigen values,	atom problem by using
	Eigen functions and Angular	quantum mechanics.
	Momentum Matrices.	Students learned about
	To understand Approximation	time independent
	Methods and their application	degenerate and non
	to one dimensional harmonic	degenerate perturbations
	oscillator.	and to apply them in
		harmonic oscillator.
		Students got an idea of
		Pauli spin matrices which
		are very important in
		nuclear and particle physics
		as well as atomic and
		molecular physics.
PHY 104: Basic	To implement the theory in	Verify experimental results
Physics Laboratory - I	Practical.	with the theoretical values

## Sem.-II

PHY 201: Statistical	To know the principle of	On completion of this
Mechanics	conservation of density and	course a student will be
	extension in phase space	able to:
	To understand the Partition	Define and discuss the
	function of classical ideal gas.	concept and role of entropy
	To understand Fermi Dirac	To evaluate the partition
	statistics .	function for quantum
	To understand balck body	monatomic gas and
	radiation.	diatomic molecules.
	To understand Curie Weiss	To calculate Specific heat
	theory of magnetic transition	from lattice vibrations.
		To solve Boltzmann non
		Linear integro differential
		equation.
		Define the Fermi-Dirac and
		Bose-Einstein distributions;
		state where they are applicable; understand how they differ and show when they reduce to the Boltzmann distribution Apply the Fermi-Dirac
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		distribution to the
		properties of electrons in
		metals
		Apply the Bose-Einstein
		distribution to the
		calculation of properties of black body radiation
PHY 202: Classical	To introduce the concept of	They have understood the
Licettodynamics	of Electrostatic energy of	covariance and invariance
	dielectrics.	of various quantities and
	To study the propagation of	applied it.
	plane waves in non conducting	One of the major
	media and in conducting	advantages of this course is
	media.	that it is very much related
	Main aim is to feed student's	to the real life where the
	mind by fields and radiations	ionosphere is playing very
	from various types of dipoles	Important part.
	They will be taught to	basics of scattering and
	calculate power radiated in	absorption and relate them
	each case	to real life phenomena
	Students will be introduced by	They have learnt about
	the formation and	wave guides and
	characteristics of ionosphere	transmission lines and
	and how waves propagate	propagation of waves
	through it.	through them.
	The objective is to introduce	
	them about wave guides and	
	their applications.	
	They will be taught about the	
	transmission lines and	
	them.	
PHY 203: Material	To review physics in the	To explain the phase
Science	context of materials science.	diagram of Isomorphous

	To know the processing	system .
	methods of Metals & amp;	To Process different type of
	Alloys and their Applications.	Metals & amp; Alloys such
	To study Applications and	as Steel, Low & amp; High
	Processing of Ceramics	Carbon Steel Stainless
		Steel, Alloys of Aluminum,
		Copper, Ceramics.
PHY 204: Physics of	To understand the concept of	Describe the properties of
Semiconductor	Charge Carriers and Fermi	materials and Application
Devices	level in semiconductors at	of semiconductor
	thermal equilibrium.	electronics.
	To solve Continuity Equation.	Apply the knowledge of
	To study p-n junctions and its	semiconductors to illustrate
	advance devices.	the functioning of basic
	To study characteristic and	electronic devices.
	applications Zener diode,	Demonstrate the switching
	photo voltaic cell.	and amplification
	To study Metal-semiconductor	Application of the
	junctions.	semiconductor devices.
	To study BJT with the help of	Demonstrate the control
	Ebers- Moll model.	Applications using
		semiconductor devices.
		Identify the fabrication
		methods of integrated
		circuits.
		Classify and describe the
		semiconductor devices for
		special Applications.
PHY	To implement the theory in	Verify experimental results
205: Basic Physics	Practical	with the theoretical values
Laboratory – II		

## M.Sc.-II

SemIII		
PHY 301: Atomic	To understand Vector atom	After completion of this
& Molecular	models for two ,three and four	course student would be
Physics	Valence electrons	Able to calculate the
	To understand to determine	Zeeman effect and the
	Moment of inertia and bond	Lande g-factor.

	length and bond length from	Able to calculate the effects
	rotational spectra.	of an electric field on the
	To study rotation-vibrational	energy levels of the
	spectra.	hydrogen atom (the Stark
	To know RAMAN spectra.	effect).
	To understand nuclear spin	Able to discuss the
	magnetic moment.	rotational spectra of
		molecules.
		Able to apply the Simple
		Harmonic Oscillator to
		determine the vibrational
		spectrum of diatomic
		molecules
		Learn about fine structure
		of Hydrogen atoms.
		About rotational and
		vibrational energy levels of
		diatomic molecules and
		Raman spectroscopy.
PHY 302: Material	To understand Langmuir-	Students are able to
Synthesis	Frankel theory of	develop Thin films.
Methods	condensation	Students are able to
	To understand different steps	develop Thin films.
	involved in Thin Film	1 I
	Deposition Techniques.	
	To understand Sputtering	
	process.	
	To know Chemical Vapour,	
	Cemical bath ,Chemical Spray	
	deposition in Thin Film	
	Technology.	
	To understand Thick Film	
	Deposition technique and	
	study electrical properties of	
	Thick and Thin films.	
PHY 303:	To understand the	After the completion of the
Computational	programming language design	course, Student will be able
Methods & amp;	and implementation.	to:
Programming Using	Develop an in-depth	Be capable of specifying
'C' Language	understanding of functional,	the simplified syntax of
	logic, structure, union, array	programming languages C.
	and object-oriented	Student able to solve
	programming.	problem related to function,

	Implement several programs in languages and develop an in-depth understanding of inheritance and polymorphism in object-oriented programming paradigms. Understand design /implementation issues involved with variable allocation and binding, control flow, types, subroutines, parameter passing.	array, structure etc Massage passing techniques for communication between objects makes the interface description with external system much simpler
PHY 304: Special Laboratory – II	To implement the theory in Practical	Students are able to explain the different theories through experiments.
PHY 305: Project Work-I	To develop the thinking ability and creativity to select some work to be done on their own and get it completed.	Builds a confidence in the student to start some own business.
SemIV		
PHY 401: Nuclear Physics	To know the particles and their physics. To know nuclear energy levels and their interactions. To know particle accelerators and Radiation Detectors. To learn different types of particle interactions .	Students have the knowledge of particles. Students will have a detailed knowledge of particle physics, useful in further research work in nuclear physics.
PHY 402: Nano materials: Synthesis, Properties & amp; Applications	To know all about Nano materials and comparison of them with bulk material. To know the techniques of Synthesis of Nano materials. To study the photo conducting and photo luminescence properties of metal chalcogenides . To study Characterization of Nanomaterials.	Explain the fundamental principles of nanotechnology and their application to biomedical engineering. Apply engineering and physics concepts to the nano- scale and non- continuum domain. Identify and compare state- of-the-art nanofabrication methods and perform a critical analysis of the

		research literature.
		Design processing
		conditions to engineer
		functional nanomaterials.
		Apply and transfer
		interdisciplinary systems
		engineering approaches to
		the field of bioand
		nanotechnology projects.
PHY 403: Renewable	To know Solar Energy.	Describe the environmental
Energy Sources	To know Biomass energy and	aspects of non conventional
	conversion techniques.	energy resources.
	To know Wind, Ocean and	In Comparison with various
	Geothermal Energies.	conventional energy
	To understand the emerging	systems, their prospects
	trends in Renewable Energy	and limitations.
	sources.	Know the need of
		renewable energy resources
		Describe the use of solar
		energy and the various
		components used in the
		energy production with
		respect to applications like
		heating, cooling,
		desalination, power
		generation, drying, cooking
		etc
		Appreciate the need of
		Wind Energy and the
		various components used in
		energy generation and
		know the classifications.
		Understand the concept of
		Biomass energy resources
		and their classification,
		types of biogas Plants-
		applications
		Compare Solar, Wind and
		bio energy systems, their
		prospects, Advantages and
		limitations.
PHY 404: Special	To verify the theoretical	Students are able to explain
Laboratory – II	knowledge through	the different theories

	experimental work.	through experiments.
PHY 405: Project Work-II	To develop the thinking ability and creativity to select some work to be done on their own	Builds a confidence in the student to start some own business.
	and get it completed.	

Department of Statistics. Course objectives and Outcomes

## F.Y.B.Sc.

SemI		
Paper	Objectives	Outcome
ST - 101: Descriptive Statistics - I	Basic concepts of Statistics, Role of statistics in Science, Society, and for National Development, Descriptive statistics.	After successful completion of this course, students are expected to: Acquire knowledge of statistics and its scope and importance in various areas such as Medical, Engineering, Agricultural and Social Science, Finance etc.Information about various Statistical Organizations in India and their functions for societal developments. Knowledge of various types of data, their organization and evaluation of summary measures such as measures of central tendency and 
ST - 102: Probability and probability Distributions-I	To learn basic concepts of probability, conditional probability and independence, probability distribution of a discrete random variable.	After successful completion of this course, the students are expected to: Acquire ability to distinguish between random and non-random experiments.

ST - 103: Statistics Practicals-I	Introduction of MS-EXCEL software. Introduction to various statistical sampling schemes such as simple, stratified and	Knowledge toconceptualize theprobability of eventsincluding frequentist andaxiomatic approach.Knowledge related toconcept discrete randomvariable and itsprobability distributionincluding expectationand moment.This course is based onST-101 and ST-102 andwill provide practicalknowledge to the studentson various concepts
	systematic sampling. Graphical representation of statistical data: Histogram, Simple bar diagram, Multiple bar diagram. Computation of various measures of central tendency and dispersion for ungrouped and grouped data.	elaborated in these two courses. The learning outcomes will similar to ST-101 and ST-102. Standard software package namely MS-EXCEL is introduced and also used in the practical course.
SemII		
ST - 201: Descriptive	To acquaint students with	After successful
Statistics - II	basic concepts of correlation and regression, theory of attributes, skewness and kurtosis, measures of inequality.	completion of this course, the students are expected to: Knowledge of correlation and regression analysis Knowledge of other types of data reflecting qualitative characteristics including concepts of independence and association between two attributes.

ST - 202: Probability	To acquaint students with	After successful
and probability	basic concepts of	completion of this course,
Distributions-II	mathematical expectation for	the students are expected
	univariate and bivariate	to:
	random variable and various	Knowledge of important
	standard discrete probability	discrete probability
	distributions such as discrete	distributions such as
	uniform, Bernoulli, Binomial	discrete uniform,
	and hypergeometric.	Bernoulli, Binomial and
		hypergeometric.
		Acumen to apply standard
		discrete probability
		distributions to different
		situations.
ST - 203: Statistics	Computation of skewness and	This course is based on
Practicals-II	kurtosis.	ST-201 and ST-202 and
	Drawing of scatter diagram for	will provide practical
	bivariate data and computation	knowledge to the students
	of correlation coefficient.	on various concepts
	Fitting of lines of regression,	elaborated in these two
	second degree curve and	courses. The learning
	exponential curve.	outcomes will similar to
	Fitting of binomial	ST-201 and ST-202.
	distribution and computation	Standard software package
	of probabilities.	namely MS-EXCEL is
	Model sampling from discrete	introduced and also used
	uniform, Binomial and	in the practical course.
	hypergeometric probability	
	distributions.	

### S.Y.B.Sc.

SemIII		
ST - 301: Probability	To introduce some	After successful
Distributions-I	continuous probability	completion of this course,
	distributions which are	students are expected to:
	highly useful in	Acquire knowledge related
	modeling real life	to continuous random
	uncertain issues.	variables and their
		probability distributions

		including expectation and
		higher order moments.
		Knowledge of important
		continuous distributions
		such as normal exponential
		and Gamma
		A cumen to apply standard
		continuous probability
		distributions to different
		situations
		A hility to handle
		Additive to find deep
		variables and derived
		associated distributions.
		Ability to use and interpret
		Normal probability.
ST - 302: Statistical	To learn some common and	After successful
Methods-I	simple concepts of applied	completion of this course,
	statistics which will be	the students are expected
	useful to them while	to:
	analyzing data sets obtained	Demonstrate theory in
	from different scientific	multiple regression model,
	experiments.	time series and statistical
		process control.
		Know the basic concepts
		of statistical process
		control such as control
		chart for variables and
		attributes.
		Able to draw control
		chart for variables and
		attributes.
		Ability to check whether
		the given process is
		under statistical control
		using different criteria.
		Know about time series
		data, its application to
		various fields.
		Understand the different
		components and models of
		time series.
		Understand different

ST - 401: Probability	To acquaint students with	After successful
Distributions-II	basic concepts bivariate	completion of this course,
	continuous probability	the students are expeted to:
	distribution, Chi-square,	Knowledge of bivariate
	Student's t and Snedecor's F	continuous probability
	distributions and their	distribution, their
	interrelationships.	associated distributions,
		characteristics, marginal
		and conditional

		distribution.
		Knowledge of important
		continuous distributions
		such as Beta distribution
		of fist and second kind,
		Chi-square, Student's t and
		Snedecor's F distributions.
ST - 402: Statistical	To acquaint students with	After successful
Methods-II	basic concepts sampling	completion of this course.
	distributions, testing of	the students are expected
	hypotheses, large sample tests	to:
	and small sample tests.	Acquire concept of
	and small sumple tests.	random sample from a
		distribution sampling
		distribution of a statistic
		standard error of important
		estimates such as mean
		and proportions
		Knowledge about tests of
		hypotheses and associated
		concepts
		Acquaint with various basic
		concepts on sampling
		distributions and large
		sample tests based on
		normal distribution
		Acquaint with small sample
		tests based on Chi square
		Student's t and Snedecor's
		E distributions
ST 102. Statistics	To apply large and small	This course is based on
Dreatical IV	somple tests in real life	This course is based on ST 401 and ST 402 and
Flactical-IV	situations	s1-401 and s1-402 and
	Situations.	will provide practical
	different distributions	knowledge to the students
	different distributions.	on various concepts
		elaborated in these two
		courses. The learning
		ST 401 and ST 402 All
		51-401 and 51-402. All
		standard software
		packages namely EXCEL,
		K are introduced and also
		used in the practical

		course.
ST - 404: SEC-II: Applied Statistics	To acquaint students with basic concepts related to Index numbers (INs)such as meaning , utility, limitations, weighted and unweighted Ins, Fixed and chain based Ins, various types of Ins, testing for adequacy of Ins. To acquaint students with basic concepts of vital Statistics.	After successful completion of this course students are expected to: Expose to computation of different types of Index numbers, consumer price index number. Get ideas about commonly used measures of Demography pertaining to its three basic aspects viz.the fertility, mortality and migration. Real data implementation of various demographic
		concepts through numerical examples.

Department of Zoology. Course objectives and Outcomes

## F.Y.B.Sc.

SemI		
Paper	Objectives	Outcome
ZOO 101- Animal Diversity I & ZOO 102 – Animal Diversity II	Identify and classify the animals in Animal Kingdom according to Phylum and appropriate distinguishing characteristics of all phyla	Students will be able to evaluate animals according to the level of organization, body plan, symmetry, germ layers, coelom development etc.
ZOO 103 – Practical Animal Diversity I & II	To classify animals with taxonomic keys and appreciate the diversity of Non-chordates and chordates living in diverse habit and habitat.	Students will be able to identify animals and will be able to describe their identifying characters.
SemII		
ZOO 201 – Comparative anatomy of Vertebrates	To gain a knowledge base for understanding vertebrate anatomy levels of organization and related functions.	Students will be able to understand the basic structure, organization of anatomical systems and their modification in the major transitions in vertebrate evolution.
ZOO 202 – Developmental biology of vertebrates.	Outline and study the developmental stages in vertebrates.	Students will be able to understand developmental phenomenon.
ZOO 203 Practical – Comparative Anatomy and developmental biology	To learn and know about different systems and comparative account of the different	Students will be able study the general patterns and sequential developmental stages during

of Vertebrates	vertebrate systems	embryogenesis.
	5	5.6

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#### S.Y.B.Sc.

SemIII		
ZOO 301- Physiology	To provide a course of study in mammalian principally human systems physiology. To expand on some areas touch on physiology of organisms and to introduce new & more complex physiological functions.	Understand the functions of important physiological systems including digestion, cardio respiratory, renal, nerve and muscle, reproductive and endocrine glands.
ZOO 302 - Biochemistry	The objective is to understand the fundamental chemical principles that govern complex biological systems.	Understanding of fundamental biochemical principles such as the structure, functions of biomolucules, metabolic pathways and regulation of biological, biochemical processes.
ZOO 303 - Physiology & Biochemistry	Be able to perform, analyze & report an experiments and observations in physiology and biochemistry.	Students will be able to apply and effectively communicate scientific reasoning and data analysis.
Skill Enhancement Course SEC I Apiculture	Students would be able disseminate subject knowledge along with necessary skills to suffice their capabelities for academia, enterpreneurship and Industry.	Through effective skill enhancement indivisuals become more capable, Compitent, and confident in themselves and are better able to reach the goals.

SemIV		
ZOO 401 - Genetics	Students are able to learn, Mendels work on transmission trait, Genetic Variations, Mendelian genetics, Linkage, Crossing over and Chromosomal mapping, Mutations, Sex determination	An understanding of the clinical relevance of genetic concepts and the students will have the knowledge and skills.
ZOO 402 - Evolutionary Biology	Students will be able to learn history of life, Evolutionary theories, processes of evolutionary change, species concept, macroevolution, extinction.	Students will be able to describe history of life and development of evolutionary thought, mechanism by which evolution occurs, role of extinction in evolution.
ZOO 403 - Genetics & Evolutionary Biology	To provide conceptual background in the genetics and evolution.	Students will be able to apply concepts from genetics and evolution to their lives and community.
Skill Enhancement Course SEC II Medical Dignostics	Students will be able know about dignosis, monitoring, screeing and prognosis.	Students will be aware regarding the health and health problems.

## T.Y.B.Sc.

SemV		
ZOO 501- Reproductive	To develop and	Students will be able to
Endocrinology (Theory	understanding of	understand anatomy and
and Practical)	the anatomy and	physiology of
	physiology of the	reproductive system.
	reproductive	
	system.	
ZOO 502 – Cell and	To understand structure	Students will be able to
Molecular Biology	and function of cell and	understand structure and

(Theory and Practical)	molecular organization	function of different cell
	of nucleic acids.	organelles and the
	To understand the tools	molecular organization
	and techniques in	and role of nucleic acids.
	molecular biology.	
ZOO 503 – Mammalian	To determine how	Students will be able to
Histology (Theory and	tissues are organized at	identify a number of
Practical)	all structural levels,	basic tissues, types from
	from cells and inter-	their microscopic
	cellular substances to	appearance and are able
	organs.	to understand Histology
ZOO 504 – Animal	To introduce students to	Students will be able to
Biotechnology (Theory	the principles, practices	develop fundamental
and Practical)	and applications of	knowledge in Animal
	Animal Biotechnology.	biotechnology and its
		application in laboratory
		and industry settings.
ZOO 505 – Public Health	To understand and	Students will be able to
and Hygiene (Skill	improve the quality of	identify current public
Enhancement Course)	life through prevention	health problems nationally
,	and treatment of disease	and globally.
	including mental health.	
Zoo 506 (A) – Pest	To understand control	Students will be able to
Management (Elective	mechanism of pest with	identify different pests
Course)	respect to lifecycle	with the help of key.
	· · ·	
SemVI		
ZOO 601 – Leech and	To understand the	Students will be able to
Calotes (Theory and	morphology, anatomy	understand basic
Practical)	and physiology of	structures, organizations,
	different systems of	anatomical systems and
	Leech and Calotes.	different functions.
ZOO 602 – Chick	To understand knowledge	Students will be able to
Embryology (Theory	of development by chick	identify developmental
and Practical)	embryo as a model.	stages of chick
		embryology.
ZOO 603 – Applied	To train the students in	Self-employment,
Zoology (Theory and	a wide range with	research and innovation,
Practical)	Applied Zoology to	work safely and
	provide future careers.	effectively in the field
		and in laboratories.

ZOO 604 -	To understand the	Preparation of
Microtechnique (Theory	theoretical and	microscopical sections
and Practical)	practical knowledge of	and smears from
	processing tissue for	different body tissues
	histological	and fluids.
	examination.	Preparation of all
		solutions and stains
		used for processing.
ZOO 605 – Research	To understand systematic	Students will be able
methodology (Skill	approach to research and	to learn different
Enhancement Course)	also study of systematic	techniques which are
	approach to solving a	used during the
	research problem by	performance of the
	applying appropriate	experiment, surveys
	research methods.	and tests, etc.
		To create efficiency
		for research.
ZOO 606 (B) – Sericulture	To understand the	This course offers
(Elective Course)	knowledge about the	employment and job
	cultivation of Mulberry,	opportunities in the
	maintenance of the farm,	public, private and
	seed technology,	government sector.
	silkworm rearing and silk	
	reeling.	

## M.Sc.-I

SemI		
ZOO 101-Structure and	To be familiar with the	The Student will be
function of	different non chordates and	familiar with the animal
Invertebrates(THEORY +	chordates phyla,their	world that surround us.
PRACTICAL)	general and distinguishing	Students will be able to
	characters.	identify the invertebrates
	To compare and contrasts	and vertebrates and
	the life process in different	classify them up to the
	phyla.	class level.
ZOO 102- Cell and	To understand the basic	The course will provide a
Developmental Biology	concept of developmental	broad area from
(Theory+ practical)	biology.	embryology to
	To acquire an in depth	developmental biology.

	knowledge of the	The students will be able
	relationship between gene	to apply their
	and development as well as	understanding of
	environment and	embryonic development.
	development	reproductive function and
		fertilization hormonal
		regulation
ZOO 103- Quantitative	To learn about Key	The course will provide
Biology (Theory +	biostatistical concept and	Knowledge of biostatistics
practical)	efficient tools for	approach used to analyze
practical)	summarizing and plotting	and presentation of data in
	data make decision in the	biological research and
	presence of uncertainty	other field with strong
	presence of uncertainty.	emphasis on major steps in
		pair wise multiple
		sequence alignment by
		dynamic programming
		dynamic programming.
SemII		
ZOO 201- Structure and	To study how the different	Understood the
function of vertebrates	system evolved in their	classification and
(Theory + practical)	complexity.	phylogeny of animals.
		Enriched knowledge on
		ecology of some important
		fishes, amphibian.
ZOO 202- Biochemistry	To appreciate the chemical	The course will provide an
and enzymology	foundation of life	understanding of
	processes.	fundamental biochemical
	To understand the structure	principles such as
	and metabolism of	biomolecules, metabolic
	biologically significant	pathway and regulation of
	molecules.	biological process.
ZOO 203-Tools and	To equip the learner to use	Established methods of
Techniques for Biology	the tools and techniques for	research and enquiry are
(Theory + practical)	project work research in	employed to analyze the
	biology.	different aspects of these
		interaction

#### M.Sc.-II

Some III		
SemIII		
ZOO 301- Entomology (Theory + practical)	To familiarize the students with insects and arachnids and their external and internal features. To equip the students to identify insect and arachnids of economic importance.	Understand evolution and biodiversity generation through macro and micro evolutionary processes, including how these processes have formed and diversified insect. Gain appreciation of insect in society and human affair model system in insect biology.
ZOO 302 –Immunology and molecular biology (Theory + practical)	To identify the cellular and molecular basis of immune responsiveness This will emphasize the molecular mechanisms of DNA replication ,repair,protein synthesis.	Understand key component of the innate and adaptive immune response. Discuss the most significant discoveries and theories through the historical progress of biological scientific discoveries ,and their impact on the development of molecular biology.
ZOO 303- Genetics (theory + practical)	To provide a fundamental knowledge on genetics ,its law ,genes and chromosomes ,inheritance ,heredity, cause of genetics disorder and the method of gene transfer. How genetic information in the DNA is selectively expressed as functional protein.	The course will able to explain the fundamentals of genetics and mendelians law ,the concept of alleles,concept of linkage and crossing over of gene. To familiar with the veriety of types of genetics data i.e genotyping expression, sequence data, chromosomal mapping etc.
SemIV		
ZOO 401 – Entomology II (Theory + practical)	To acquire working skills for collecting ,mounting,and preserving	Develop and understanding of the distributions and

	insect.	abundances of organisms including insects and their interaction with each other and the environment.
		in insect science such as molecular biology ,bioinformatics and or imaging.
ZOO 402- Systematic And evolutionary biology (Theory+practical)	To understand the evidence that living species share descent from common ancestry and how this fact explain the traits of living species. To understand that evolution endetails changes in the genetic composition of populations.	The students will able to demonstrate an understanding of ecological relationships between organisms and their environment. Also be able to demonstrate an understanding of key concepts in evolutionary biology ,history of life on earth, and phylogenetic relationships between organisms and of structure function relationships in organisms.
ZOO 403- Skill in communication and Writing a research paper.(Theory+ practical)	Use scientific methods to develop hypotheses, design and execute experiments by selecting the appropriate research techniques.	Conceptualize research processes, data presentation, report writing and publication in journals. Demonstrate a broad range of research methodologies and their relevance to specific research problems.
ZOO 406- Project Work	Should include introduction, methodology, techniques, results, discussion, and bibliography.	Institutional cum industrial study tour report emphasizing theoretical aspects should be included. Evolution of the project report and viva voce will be open defense type through power point presentation.

# Department of Commerce:

Course objectives and Outcomes

F.Y.B.Sc.		
SemI & II		
Paper	objectives	Outcome
04 Financial Accounting and Costing	To lay a foundation for understanding the Accounting Standards issued by the ICAI. To gain the ability to solve problems relating to settlement of obligations on dissolution of partnership firm and also relating to their business combinations. To introduce the concepts used in Cost Accounting, elements of costs and the	Introductory knowledge with application skills.
105 Computing Skills	To familiarize the Students with basics of Internet. To understand the use of Office application. To know the role of word processor, Spread sheet, presentation in industry. To understand the how of accounting software works. To know the relevance of Tally accounting package in modern competitive world.	Introductory knowledge with MS Office and Tally accounting Software.
106 a -Elective - Modern office Management	To understand the concept of office management. To acquire operational skills of office management. To develop the interest in methods and procedures of	To acquire the basic knowledge of office appliances and machines. To understand office system. To acquire knowledge of office meetings and proceedings.

	office management.	
	To know the secretarial	
	procedure.	
	To understand office	
	layout and environment in	
	modern context.	
107 c -Elective -	To create awareness about	knowledge with Market.
Marketing &	marketing & advertising.	Marketing, Advertising systems.
Advertising	To understand basic	
	concepts of marketing &	
	advertising.	
	To establish link between	
	business and marketing &	
	advertising.	
	To know the relevance of	
	marketing & advertising in	
	modern competitive world.	
	To develop an analytical	
	ability to plan for various	
	marketing& advertising	
	strategy.	

#### S.Y.B.Com.

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Sem III		
301Business Skills	To equip students with the necessary soft skills to enhance their competitive edge in the job market. To imbibe in students' positive attitude towards life and work. To help students excel in their individual and professional lives using the soft skills.	Understand the significance and essence of a wide range of soft skills. Learn how to apply soft skills in a wide range of routine social and professional settings. Learn how to employ soft skills to improve interpersonal relationships. Learn how to employ soft skills to enhance employability and ensure workplace and career success.
303 Business and	Learn the Law & Legal	Describe the legal system and the
Tax Laws	Principals of Contract Act	legal environment of business.
	1872.	Describe the relationship of
	Draft legal documents	ethics and law in business.
	including partnership deed	Define relevant legal terms in
	& service tax returns.	business.

	Understand the basic	Explain basic principles of law
	structure rules & powers	that apply to business and
	of consumer protection act	business transactions
	To know the provision	Describe business law in the
	TO KNOW the provision	Describe business law in the
	regarding strikes and lock	Indian context.
	outs under industrial	Describe current law, rules, and
	dispute act.	regulations related to settling
	Be acquainted with	business disputes.
	development of patents and	Understand different technical
	environment protection act.	terminology used in this act.
	Students to gain a better	Discussed and consult businesses
	underrating of the	on related issues of business
	negotiable instrument act.	laws.
	Learn how to analysis the	
	legal constraints on	
	business.	
	Be able to face the	
	problems on various sides	
	of Business and Tax Law.	
304 Corporate	To acquaint the students	Students will be able to handle
Accounting	with modern updated	issues related to corporate
110000000000000000000000000000000000000	computerized accounting	accounting
	system and software	
	To develop an	
	understanding of the rules	
	of measurement and	
	reporting relating to	
	various components of	
	various components of	
	corporate inflaticial	
	transactions.	
	To provide working	
	knowledge of accounting	
	principles and procedures	
	for recording of	
	transactions related to	
	corporate entities.	
	To provide working	
	knowledge for preparing	
	the corporate accounts and	
	statements in accordance	
	with the statutory	
	requirements	

305 Computing	To Understand the	Demonstrate a basic under-
Management	Objectives of	standing of computer hardware
	Computerized Accounting.	and software.
	To Know the Principles of	Demonstrate problem-solving
	Tally Software.	skills.
	To acquire Computing	Apply logical skills to
	Skills.	programming in a variety of
	To Study various features	languages.
	of Tally.	Utilize web technologies.
	To Acquaint with Modern	Present conclusions effectively,
	Technology In Accounting.	orally, and in writing.
	To study of Goods and	Demonstrate basic understanding
	Services Tax Act.	of network principles.
	To use Tally with GST	Working effectively in teams.
		Apply the skills that are the focus
		of this program to business
		scenarios
306 (a) –Business	To improve the	To understand different methods
Entrepreneurship	knowledge, skills &	to assess the attractiveness of
	competencies of the	business opportunities.
	potential & existing	To understand what characterizes
	entrepreneurs in various	an attractive business opportunity
	sectors.	and common pitfalls during the
	To improve life	entrepreneurial process to
	management skills of	products or services to the
	children and youth.	market.
	To provide intellectual	To understand different methods
	resources to youth for their	that can be used to minimize
	best future.	uncertainties at different stages of
	10 improve social and	the entrepreneurial process.
	economic skills.	To understand the dynamics of
	To provide diverse	now teams, develop and function
	opportunities for	as well as the various types of
	participation.	conflicts that can arise during
	To empower to people to	team work.
	create Dusiness	
	To boost the	
	Fotopropourship	
	Davalonment Program	
	To boost woman and must	
	antronronourship	
	entrepreneursnip.	

307 (c)	Retail	To Introduce Basic	On successful completion of
Management		Retailing Management	Retail Management, students
		Concepts.	should be able to:
		Empowering Students with	Explain the central role of retail
		the Most Modern	in industrialized societies, and
		Techniques and Practices	the impact of key market/retail
		of Retailing as Seen and	trends upon this sector in the
		Experienced around the	local and global contexts.
		Globe.	Identify the key stakeholders and
		Imparting Theoretical and	the roles/responsibilities of retail
		Practical Knowledge to	towards these stakeholders.
		Ensure Understanding of	Understand and apply
		the Dynamic of Modern	appropriate frameworks to
		Organized Retail Trade.	develop high level retail
		To understand analysis of	marketing strategy, and identify
		store location,	the role of marketing strategies in
		merchandising, products	the building of brand equity and
		and pricing.	shareholder value in the retail
		The learner will be able to	industry.
		determine a level of	Evaluate the implementation of
		interest in pursuing a	marketing strategy through the
		career in retail	retail mixincluding product and
		management	merchandise mix, pricing,
			location and store-design,
			promotions, and store
			management -to improve the total
			customer experience and retailer
			market competitiveness.
			Interpret retail problems and be
			capable of critically evaluating
			and applying appropriate retail
			management models and theories
			to generate strategic and tactical
			solutions. Analyze how retail
			managers can make informed
			strategic choices in relation to
			managing channel partners, retail
			form (online vs. bricks and
			mortar), global sourcing, and
			managing staff to improve
			strategic outcomes
SemIV			

401 Business Skills	To equip students with the necessary soft skills to enhance their competitive edge in the job market. To imbibe in students' positive attitude towards life and work. To help students excel in their individual and professional lives using the soft skill.	Student shall be able to Understand the significance and essence of a wide range of soft skills. Learn how to apply soft skills in a wide range of routine social and professional settings. Learn how to employ soft skills to improve interpersonal relationships. Learn how to employ soft skills to enhance employability and
		ensure workplace and career success.
403 Business and Tax Laws	To understand the essential terminologies used in the Indian Partnership Act and the structure of legal document. To acquire the knowledge of various terms included in the Factories Act and Industrial dispute Act. To understand the basic structure, rules & powers of the Consumer Protection Act. To be acquainted with the Environment Protection Act. To be acquainted with the Goods and Services tax Act	By the end of this course, a student should be able to: Describe the legal system and the legal environment of business. Describe the relationship of ethics and law in business. Define relevant legal terms in business. Explain basic principles of law that apply to business and business transactions. Describe business law in the Indian context. Describe current law, rules, and regulations related to settling business disputes. Understand different technical terminology used in this act. Discussed and consult businesses on related issues of business laws
404 Corporate	To introduce the relevant	A comprehensive understanding
	issued by the Institute of Chartered Accounts of India. To develop an understanding of the rules of measurement and reporting relating to	accounting for assets, liabilities and owner's equity. The ability to account for a range of advanced financial accounting issues. The ability to prepare consolidated accounts for a

	various components of	corporate group
	corporate financial	
	transactions	
	To provide working	
	In provide working	
	knowledge of accounting	
	principles and procedures	
	for recording of	
	transactions related to	
	corporate entities.	
	To provide working	
	knowledge for preparing	
	the corporate accounts and	
	statements in accordance	
	with the statutory	
	requirements.	
405 Cost	To acknowledge the	Techniques of cost accounting
Accounting	students with the cost	To lav a foundation for
	accounting concepts	understanding the Labor &
	Methods and techniques	Overheads Accounting
	To enable the students to	procedure
	apply analytical tools &	To develop competence among
	techniques of cost	the student Apply logical skills
	accounting	the student Apply logical skills
	To loss of form lotion form	to programming in a variety of
	To lay a foundation for	languages.
	understanding the Labor &	Utilize web technologies.
	Overheads Accounting	Present conclusions effectively,
	procedure.	orally, and in writing.
	To develop competence	Demonstrate basic understanding
	among the student	of network principles.
		Working effectively in teams.
		Apply the skills that are the focus
		of this program to business
		scenarios.
406 (a) –Business	To improve the	To understand different methods
Entrepreneurship	knowledge, skills &	to assess the attractiveness of
p	competencies of the	business opportunities.
	potential & existing	To understand what characterizes
	entrepreneurs in various	an attractive business opportunity
	sector	and common pitfalls during the
	To improve life	entrepreneurial process to
	management skills of	products or services to market to
	abildron and youth	understand different methods that
	children and youth.	understand different methods that
	10 provide intellectual	can be used to minimize

	resources to youth for their	uncertainties at different stages of
	best future.	the entrepreneurial process to
	To improve social and	understand the dynamics of how
	economic skills	teams develop and function as
	To provide diverse	well as the various types of
	opportunities for	conflicts that can arise during
	opportunities 101	toom work
	To approve to people to	team work.
	To empower to people to	
	create business	
	opportunities.	
	To boost the Enter-	
	preneurship Development	
	Program. To boost women	
	and rural entrepreneurship.	
407 (c) –Retail	To Introduce Basic	On successful completion of
Managemen	Retailing Management	Retail Management, students
	Concepts.	should be able to:
	Empowering Students with	Explain the central role of retail
	the Most Modern	in industrialized societies, and
	Techniques and Practices	the impact of key market/retail
	of Retailing as Seen and	trends upon this sector in the
	Experienced around the	local and global contexts.
	Globe.	Identify the key stakeholders and
	Imparting Theoretical and	the roles/responsibilities of retail
	Practical Knowledge to	towards these stakeholders.
	Ensure Understanding of	Understand and apply
	the Dynamic of Modern	appropriate frameworks to
	Organized Retail Trade.	develop high level retail
	To understand analysis of	marketing strategy and identify
	store location	the role of marketing strategies in
	merchandising products	the building of brand equity and
	and pricing	shareholder value in the retail
	The learner will be able to	industry
	determine a level of	Evaluate the implementation of
	interest in pursuing a	marketing strategy through the
	in pursuing a	ratail mix including product and
	career in retain	menchandiag mix product and
	management.	inerchandise inix, pricing,
		iocation and store-design,
		promotions, and store
		management -to improve the total
		customer experience and retailer
		market competitiveness.
		Interpret retail problems and be

capable of critically evaluating
and applying appropriate retail
management models and theories
to generate strategic and tactical
solutions.
Analyze how retail managers can
make informed strategic choices
in relation to managing channel
partners, retail form (online vs.
bricks and mortar), global
sourcing, and managing staff to
improve strategic outcomes.

## T.Y.B.Com.

SemV		
502- Principles of Auditing	The objectives of this course are to enable the students to understand the concept of Audit and its objectives, understand the various types of audit done by an auditor, and the principles of behind these audits, prepare an audit program, collect the evidence supporting the recorded transactions, and maintain the necessary documentation in relation to the audit, and examine the transactions recorded in the books of accounts of an organization and verify the assets and liabilities.	By the end of the course the students will be able To understand the concept of Audit and its various types. prepare and implement an audit program. To vouch the transactions recorded in the books of accounts of an organization. To verify the assets and liabilities, and maintain the necessary documentation in relation to the audit.
Business Management	To introduce the concept of management to the students. To acquaint the student with modern management practices. To develop leadership	Student shall be able to Understand the significance and essence of management concepts, principles and skills. Learn how to apply Management concepts, principles and skills in business setting and improving

	skills and communication skills. To familiarize the students with the nature and scope of management. To help the students to understand the concept of management. Also expose the students to latest trends in management.	business environment. Learn how to employ Management skills to enhance employability and ensure workplace and career success.
504 -Income Tax	To know the various provisions relating to Computation of Income. To understand the basic concepts of the Income Tax Act 1961 and get the elementary knowledge of scheme of taxation in India To compute Income and Tax of an Individual assesses under the Act. To get elementary working knowledge with application skill	Understand the various provisions relating to Income Tax Determine the basic concepts of the Income Tax Act 1961. Describe the elementary knowledge of scheme of taxation in India. Compute Income and Tax of an Individual assesses under the Act Utilize working knowledge with application skill.
Human Resource Management	To introduce the concept, Principles and Practices of H. R. M. to the students. To familiarize students with concepts of Human Resource Planning, Job Analysis, Recruitment and selection procedures. To introduce the concept of placement, induction and tools of placement.	Students can know concepts, principles and practices of HRM. Familiar with concepts of HR Planning, job analysis, recruitment and selection. Development in total personality of students as future human resource of India. Acquaint the knowledge of recent trends in HRM.
506 (a) -Advanced Accounting –I	To impart the students, knowledge about accounting treatment of functional aspects of Corporate and Non- corporate undertakings. To appraise the students	Understand the various concepts of Advanced Accounting. Utilize working knowledge with application skill of Advanced Accounting. Preparing the Bank Companies Statements in accordance with

	about the application of	the statutory requirements.
	accounting knowledge in	Prepare Statements regarding
	preparation of financial	Royalty Accounts and Insolvency
	Statements of Bank	Accounts
	Accounts and Farm	Understanding knowledge of
	Activities	Hire Purchase Banking
	To develop competence	Companies and Farm
	among the students	A accounting
	allong the students	Accounting.
	legarding advanced	
<b>507</b> (c) <b>A</b> 1 core 1	accounting.	
50/ (a) -Advanced	To understand accounting	Understand the various concepts
Accounting –II	knowledge in reading and	of Corporate Sector Accounting.
	Interpreting the financial	Developing techniques of
	statements of corporate	reconstruction of Companies
	entities.	financial statement.
	To study the need and	Preparing the Reconstructed
	importance of Accounting	Financial Statements.
	Standard and its Functional	Understanding knowledge of
	Aspects.	Liquidation of Companies
	To develop competence	
	among the students	
	regarding advanced	
	accounting.	
	To apprise the students	
	about the application of	
	accounting knowledge of	
	amalgamation, absorption,	
	external reconstructions	
	and internal	
	reconstructions.	
506 d: Business	To acquaint the students	
Administration –I	with the concepts and	
	issues in Business	
	Administration	
	To enable the students to	
	understand the nature and	
	scope of Business	
	Administration	
Business	To acquaint the students	
Administration _I	with the concents & issues	
	in Rusines	
	Administration	
	To enable the students to	

	understand the nature & scope of Business	
Sem VI	Administration	
Sem v I		
02- Principles of Auditing	The objectives of this course are to enable the students to understand the concept of Investigation, and the systems of internal check and internal control used in the processing of transactions, understand the various provisions of the Companies Act, 2013 in relation to the appointment of auditors, and their powers, duties and liabilities, c) understand the provisions of the Companies Act, 2013, and the procedure of auditing the capital and borrowing raised by a limited company, understand the concept of and the appointment of and the appointment of and the appointment of auditing the capital and borrowing raised by a limited	By the end of the course the students will be able – To 1) understand the concept of Investigation, internal check and internal control, 2)understand the various provisions of the Companies Act, 2013 in relation to the appointment of auditors, and their powers, duties and liabilities, 3)understand the manner of auditing the capital and borrowing raised by a limited company, 4)understand the contents of an audit report.
	report	
Business Management	<ul> <li>To introduce the concept of management to the students.</li> <li>2. To acquaint the student with modern management practices.</li> <li>3. To develop leadership skills and communication skills.</li> <li>4. To familiarize the students with the nature and scope of management.</li> <li>5. To help the students to</li> </ul>	Student shall be able to Understand the significance and essence of management concepts, principles and skill. Learn how to apply management concepts, principles and skills in business setting and improving business environment. Learn how to employ Management skills to enhance employability and ensure workplace and career success.

	understand the concept of	
	management. Also expose	
	the students to latest trends	
	in management.	
Goods & Services	To develop basic	
Tax (604	understanding of	
1 aA (00+	procedural aspects of	
	Goods & Service Tay I aw	
	To provide overview of	
	various provisions under	
	CST Low	
II Decement	GST Law.	Stalanta and Image and
Human Resource	To introduce the concept,	students can know concepts,
Management	Principles and Practices of	principles and practices of HRM.
	H. R. M. to the students.	Familiar with concepts of HR
	To familiarize students	Planning, job analysis,
	with concepts of Human	recruitment and selection.
	Resource Planning, Job	Development in total personality
	Analysis, Recruitment and	of students as future human
	selection procedures.	resource of India.
	To introduce the concept	Acquaint the knowledge of recent
	of placement, induction	trends in HRM
	and tools of placement.	
606 (a) -Advanced	To appraise the students	Understand the various concepts
Accounting –I	about need and importance	of Management Accounting.
	of Management	Describe the elementary
	Accounting.	knowledge of Financial
	To develop an	Statement Analysis and
	understanding of the rules	Interpretation.
	of Analysis &	Utilize working knowledge with
	Interpretation of Financial	application skill of Management
	Statements.	Accounting.
	To introduce different	Compute Ratio Analysis and
	methods of Analysis, cash	Prepare Fund Flow and Cash
	flow, fund flow analysis.	Flow Statements.
	To understand the concept	Understanding knowledge of
	of budget and budgetary	Budget and Budgetary Control.
	control.	
607 (a) -Advanced	To impart the students,	Utilize working knowledge with
Accounting –II	knowledge about	application skill of Advanced
	Accounting of Educational	Accounting.
	Institutions and Service	Understand the various concepts
	Sectors.	of Advanced Accounting.
	To lay a foundation for	Preparing the Government

understanding the	Accounts in accordance with the
Government Accounting	statutory requirements.
procedure.	Prepare Statements regarding
To appraise the students	Service Sector and Independent
about the application of	Branch.
accounting knowledge in	Understanding knowledge of
preparation of financial	Accounting of Educational
Statements of Independent	Institution and Insurance Claim.
Branches.	
To develop competence	
among the students	
regarding insurance claim	

### M.Com.-I

SemI		
102 Strategic Management	Understand fundamental concepts and principles of Strategic management, including the basic roles, skills, and functions of Strategic management. Be aware of the Strategies by managers and the social responsibilities of Strategic Management	Be knowledgeable of various Strategies, principles, process of Strategic Management. Be familiar with interactions between the planning, controlling of Strategic Management.
103 Research Methodology in Commerce & Management 104 (A) Advanced Accountancy	TostudyResearchMethodologyfordecisionmaking in businessAfterstudying this paper,the student will be able tounderstandthe advancedaspectsofaccountingrelatingtocompany,andliquidation,Holdingcompany,andHire-purchaseunderstandunderstandthe method ofpresentingfinancialstatementsbyInsurancecompanies.	Understand process of research by students by filling questionnaire for preparation of research report. Understand the accounting procedure for goods of small value under hire- purchases transactions.

104 C) Human	To endow the student with	To understand the importance of
Resource	a broad perspective on	training and morale.
Management	themes and issues of Human Resource Manage-	To know the role of Ethics in HRM.
	ment.	
	To apply theories of social	
	science disciplines to work	
	place issues.	
104 D Marketing	To facilitate understanding	To help students understand
Management	of the conceptual	various marketing tools/models
	framework of marketing.	for solving marketing problems
	Students able to define and	Understand effective marketing
	analyse the marketing	strategies to achieve
	problems through the	organizational objectives.
	formulation of marketing	
	objectives, policies,	
	programmes and strategies.	
	To help students	
	comprehend various	
	situations and marketing	
<u>о и</u>	terminologies.	
SemII		
202 Case Studies in	Understand fundamental	Be knowledgeable of various
Strategic	concepts of Case Studies in	Case Studies of Strategic
Management	Strategic management.	Management.
Management		
Wanagement	including the basic roles,	
Wanagement	including the basic roles, skills, of Case Studies in	
Wanagement	including the basic roles, skills, of Case Studies in Strategic management.	
203-A) Modern	including the basic roles, skills, of Case Studies in Strategic management. Understand fundamental	Be knowledgeable of various
203-A) Modern Management	including the basic roles, skills, of Case Studies in Strategic management. Understand fundamental concepts and principles of	Be knowledgeable of various theories, principles, process of
203-A) Modern Management Practices	including the basic roles, skills, of Case Studies in Strategic management. Understand fundamental concepts and principles of management, including the	Be knowledgeable of various theories, principles, process of Management.
203-A) Modern Management Practices	including the basic roles, skills, of Case Studies in Strategic management. Understand fundamental concepts and principles of management, including the basic roles, skills, and	Be knowledgeable of various theories, principles, process of Management. Be familiar with interactions
203-A) Modern Management Practices	including the basic roles, skills, of Case Studies in Strategic management. Understand fundamental concepts and principles of management, including the basic roles, skills, and functions of management.	Be knowledgeable of various theories, principles, process of Management. Be familiar with interactions between the planning,
203-A) Modern Management Practices	including the basic roles, skills, of Case Studies in Strategic management. Understand fundamental concepts and principles of management, including the basic roles, skills, and functions of management. Be aware of the ethical	Be knowledgeable of various theories, principles, process of Management. Be familiar with interactions between the planning, controlling, and quality control in
203-A) Modern Management Practices	including the basic roles, skills, of Case Studies in Strategic management. Understand fundamental concepts and principles of management, including the basic roles, skills, and functions of management. Be aware of the ethical dilemmas faced by	Be knowledgeable of various theories, principles, process of Management. Be familiar with interactions between the planning, controlling, and quality control in organizations
203-A) Modern Management Practices	including the basic roles, skills, of Case Studies in Strategic management. Understand fundamental concepts and principles of management, including the basic roles, skills, and functions of management. Be aware of the ethical dilemmas faced by managers and the social	Be knowledgeable of various theories, principles, process of Management. Be familiar with interactions between the planning, controlling, and quality control in organizations
203-A) Modern Management Practices	including the basic roles, skills, of Case Studies in Strategic management. Understand fundamental concepts and principles of management, including the basic roles, skills, and functions of management. Be aware of the ethical dilemmas faced by managers and the social responsibilities of	Be knowledgeable of various theories, principles, process of Management. Be familiar with interactions between the planning, controlling, and quality control in organizations
203-A) Modern Management Practices	including the basic roles, skills, of Case Studies in Strategic management. Understand fundamental concepts and principles of management, including the basic roles, skills, and functions of management. Be aware of the ethical dilemmas faced by managers and the social responsibilities of Organization.	Be knowledgeable of various theories, principles, process of Management. Be familiar with interactions between the planning, controlling, and quality control in organizations
203-A) Modern Management Practices 204 (A) Advanced	<ul> <li>including the basic roles, skills, of Case Studies in Strategic management.</li> <li>Understand fundamental concepts and principles of management, including the basic roles, skills, and functions of management.</li> <li>Be aware of the ethical dilemmas faced by managers and the social responsibilities of Organization.</li> </ul>	Be knowledgeable of various theories, principles, process of Management. Be familiar with interactions between the planning, controlling, and quality control in organizations
203-A) Modern Management Practices 204 (A) Advanced Accountancy	<ul> <li>including the basic roles, skills, of Case Studies in Strategic management.</li> <li>Understand fundamental concepts and principles of management, including the basic roles, skills, and functions of management.</li> <li>Be aware of the ethical dilemmas faced by managers and the social responsibilities of Organization.</li> <li>After studying this paper, the student will be able to</li> </ul>	Be knowledgeable of various theories, principles, process of Management. Be familiar with interactions between the planning, controlling, and quality control in organizations understand the manner of recognizing profit on
203-A) Modern Management Practices 204 (A) Advanced Accountancy	<ul> <li>including the basic roles, skills, of Case Studies in Strategic management.</li> <li>Understand fundamental concepts and principles of management, including the basic roles, skills, and functions of management.</li> <li>Be aware of the ethical dilemmas faced by managers and the social responsibilities of Organization.</li> <li>After studying this paper, the student will be able to understand the concept of</li> </ul>	Be knowledgeable of various theories, principles, process of Management. Be familiar with interactions between the planning, controlling, and quality control in organizations understand the manner of recognizing profit on construction contract
	Indian AS to IFRS understand the advanced aspects of accounting relating to foreign branch understand the method of presenting financial statements under Double Accounts System.	accounting understand the Double Accounts System.
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204 C) Human Resource Management	To endow the student with a broad perspective on themes and issues of Human Resource Development To know the importance of various theories of motivation.	Evaluate a company's implementation of a performance-based pay system. know the new concepts in HRM.
204 D Marketing Management	To facilitate understanding of the conceptual framework of marketing. Students able to define and analyse the marketing problems through the formulation of marketing objectives, policies, programmes and strategies. To help students comprehend various situations and marketing terminologies.	Help students understand various marketing tools/models for solving marketing problems Understand effective marketing strategies to achieve organizational objectives.

## M.Com.-II

SemIII		
301 Management Accounting	This course aims at enabling students to – understand the nature, mechanics and tools of management accounting and their managerial implications. understand the philosophy	get the insight of the philosophy and framework of financial analysis. know the important inter- linkages among the items in the financial statements get equipped with the tools used in analysis, interpretation, and

	and rationale of the	evaluation of performance,
	financial analysis	profitability and
	understand the techniques	efficiency of the business entities
	of analysis and	make an in-depth analysis of the
	interpretation of financial	financial performance and
	statements develop an	financial position of business
	appreciation about the	entities and get hands-on
	utility of techniques of	experience in financial analysis
	financial analysis for	experience in financial analysis
	mancial analysis for	equip memserves with the ability
	management information	to apply then skins and
	and decision-making	knowledge effectively in future
	process.	while dealing with real life
	evaluate the implications	business situation.
	of cash flow and fund flow	Pursue their career in the arena of
	on financial position of an	accounting information system.
	industrial organisation.	
302	To encourage and inspire	get the insight of the
Entrepreneurship &	the students to become an	entrepreneurial motivation
Project Management	Entrepreneur.	know the important the
	acquaint the students with	challenges to start a new venture
	the challenges to start a	get equipped with the tools used
	new venture.	in making appraisal of the
	provide theoretical	business projects to be started as
	foundation for executing	an entrepreneur equip themselves
	various projects.	with the knowledge of regulatory
	highlight the support	role of government and the
	system for Enter-	supporting institutions.
	preneurship Development.	pursue their career as
		entrepreneurs.
303 Organisational	get an overview of	analyse individual and group
Behaviour	organizational behaviour	behaviour, and understand the
	and the challenges and	implications of organizational
	opportunities	behaviour on the process of
	understand the concept of	management.
	behaviour – individual and	identify different motivational
	organizational Behaviour	theories and evaluate
	know about perception.	motivational strategies used in a
	learning, attitude. values	variety of organizational settings.
	and emotions	evaluate the appropriateness of
	gain knowledge of	various leadership styles and
	Motivation and Leadership	conflict management strategies
	and its various theories	used in organizations.
	acquire basic knowledge of	describe and assess the basic
	acquire basic knowledge of	describe and assess the basic

	organisational change and development.	design elements of organizational structure and evaluate their impact on employees. explain how organizational change and culture affect working relationships within organizations
304 (A) Advanced Accounting	understand the advanced aspect of auditing understand the functional aspects of auditing understand the Standards on Auditing on related topics get conversant with the audit of computerised information system prepare and draft the audit report.	get the insight of the advanced aspect of auditing and skills required for various functional areas in the business field. get the knowledge of the functional aspects of auditing requirements of business entities and non-business entities. know the framework of the Standards on Auditing on various related topics governing the auditing function. make an in-depth examination of the financial statements of business entities, using computerised accounting system equip themselves with the ability to apply their skills and knowledge effectively in future while dealing with real life business situation. pursue their career in the profession of auditing.
304 (C) Human Resource Management	understand the value and importance of human resources in an organization. become innovative in managing human resource aspects & Industrial Relations. make the students aware about mechanisms of Industrial Dispute and friendly interventions to deal with	contribute to the development, implementation, and evaluation of employee recruitment, selection, and retention plans and processes. administer and contribute to the design and evaluation of the performance management program. develop, implement, and evaluate employee orientation, training, and development programs. facilitate and support effective

	employee-employer problems. impart the students with the knowledge of laws & how law affects the industry & labour.	employee and labour relations in both non-union and union environments. research and support the development and communication of the organization's total compensation plan. collaborate with others, in the development, implementation, and evaluation of organizational and health and safety policies and practices. research and analyse information need and apply current and emerging information technologies to support the human resources function.
304 (D) Marketing Management	understand various concepts and theoretical aspect of internet marketing know the mechanism of internet marketing study the strategies of internet advertising.	get the insight of the philosophy and framework of internet marketing. know the important strategies of internet marketing and advertising. get equipped with the electronics tools used in promoting internet- based retailing.
SemIV		
401 Management Accounting	understand the concept and techniques of financial control used in management accounting imbibe knowledge about the control techniques namely budgetary control and standard costing. develop the skill to analyse the cost-variance for effective cost control. familiarise with the concept, role, and utility of marginal costing, and its implications and utility for	get the insight of the philosophy and techniques of cost control and decision making. get equipped with the techniques of budgetary control and standard costing, and to familiarize with the macro as well as micro level techniques of cost control. make an in-depth analysis of causes of variation in actual cost from the standard cost, and to decide on the necessary action so as increase the efficacy of the business entities. get equipped with the ability to

	managerial decision-	make managerial decision by
	making process.	applying the principles of
	acquaint themselves with	marginal costing.
	the concept and	know the important inter-
	significance of working	linkages among the components
	capital and its implications	of working capital essential for
	in managing the funds.	smooth running of a business
	familiarise with the	organization.
	concept, role, and utility of	get the insight of an integrated
	marginal costing, and its	approach to capital expenditure
	implications in decision	decision process and to apply
	making.	their skills and knowledge
	provide necessary inputs in	effectively in future while
	form of concepts, theories	dealing with the issues relating to
	and appraisal techniques	capital expenditure.
	related to capital.	
	expenditure decisions, and	
	develop an integrated	
	approach to capital-	
	expenditure decision-	
	making process.	
402 Modern Retail	acquaint the students with	get the insight of the theoretical
Management	the various concepts and	aspect of retail management.
	theoretical aspect of retail	know the modern techniques and
	management.	practices of retailing in India.
	introduce the most modern	design the strategies and
	techniques and practices of	understand dynamics of modern
	retailing for employment	organised retail trade.
	opportunity.	-
	understand dynamics of	
	modern organised retail	
	trade	
403 (C) Corporate	understand the concept,	get the understanding of the
Social	philosophy and mechanics	philosophy and framework of
Responsibility	of Corporate Social	Corporate Social Responsibility
	Responsibility.	know the inter-linkages between
	know the provisions of the	the Society, the business houses
	Companies Act, 2013	and their corporate social
	relating to the Corporate	responsibilities.
	Social Responsibilities of	equip themselves with the ability
	companies in India.	to apply their skills and
	know the concept of	knowledge effectively in future
	business ethics in relation	while dealing with real life

	to CSR.	business situation.
	study the relationships of stability and equality with stakeholders related to the company, mainly: shareholders, employees, providers, distributors, clients and society. understand as to how the CSR aims at ensuring the companies conduct their business in an ethical way.	
404 (A) Advanced Accounting	know audit skills required for audit of various forms of business organizations and non-profit organizations understand the legal framework governing the audit of various forms of business entities and non-business entities. understand the proper way of making examination of the financial statements of various business entities, and form opinion thereon	get the insight of the various types of audit skills required for various forms of business organizations and non-profit organizations get the knowledge of legal framework governing the auditing requirements of various forms of business entities and non-business entities make an in- depth examination of the financial statements of various forms and types of business entities and form opinion thereon equip themselves with the ability to apply their skills and knowledge effectively in future while dealing with real life business situation. pursue their career in the profession of auditing.
404 (C) Human Resource Management	know the legal framework governing the industrial behaviour and relationship at the workplace. understand the basic provisions of the Acts relating to Labour, Industrial disputes, Wages	get the insight of the laws regulating industrial relations, disputes, and their settlement develop, implement, and evaluate employee related policies of the business house within the framework of legal environment in the country.
	and other benefits available to the workers.	given to the women employees.

	make the students aware about mechanisms of settlement of industrial disputes impart the students' knowledge of laws, and the how the law affects the industry and labour.	
404 (D) Marketing Management	understand various concepts and theoretical aspect of marketing research. know the sources of marketing information and the mechanism of collecting and processing the market information for making intelligent decisions. study the ways in which the marketing research can be applied in business.	get the insight of the philosophy and framework of marketing research. know the important aspects to be studied in marketing research get equipped with the ability to apply the marketing research techniques to solve the marketing related problems of a business organisation.

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