

SWAMI VIVEKANAND UNIVERSITY, SIRONJA, SAGAR (M.P.)



SCHEME

For
Bachelor of Engineering - Agriculture
Course Code: BTAG

Department of Agriculture Science
Faculty of Agriculture Science

Duration of Course	:	4 Year
Examination Mode	:	Semester
Examination System	:	Non Grading

Swami Vivekanand University, Sironja Sagar (M.P.)
2016-2017



Swami Vivekanand University, Sagar (M.P.)

Scheme of Examination



Faculty of Agriculture Science

Scheme of Course: (B.Tech.) – Agricultural Engineering

Department of Agriculture Engineering

Course Code : BTAG Semester/Year - 1st
Sem.

Paper / Subject Code	Title of the Paper / Subject	Credit Allotted			End Sem		Internal Theory + Practical			X=B+C+D	X=B+C+D	Total (Max)	Duration of Theory Exam
							Mid Term	Assignment	Practical				
		Total	L	P	Max (A)	MIN(A)	Max (B)	Max (C)	Max (D)	Max (X)	MIN(X)	Y=A+X	
BTAG0101	Engineering Mathematics-I	3	2	1	50	25	30	5	15	50	25	100	3 Hrs
BTAG0102	Engineering Physics-1	3	2	1	50	25	30	5	15	50	25	100	3 Hrs
BTAG0103	Engineering Chemistry	3	2	1	50	25	30	5	15	50	25	100	3 Hrs
BTAG0104	Environmental science & disaster management	3	2	1	50	25	30	5	15	50	25	100	3 Hrs
BTAG0105	Surveying & Leveling-I	3	1	2	50	25	30	5	15	50	25	100	3 Hrs
BTAG0106	Strength of Materials	2	1	1	50	25	30	5	15	50	25	100	3 Hrs
BTAG0107	Engineering Drawing	2	0	2	0	0	0	0	50	50	25	50	3 Hrs
BTAG0108	Heat And Mass Transfer	2	2	0	50	25	40	10	0	50	25	100	3 Hrs
Total		21	12	9	350	175	220	40	140	400	200	750	



Swami Vivekanand University, Sagar (M.P.)

Scheme of Examination



Faculty of Agriculture Science
Scheme of Course: (B.Tech.) – Agricultural Engineering

Department of Agriculture Engineering
Course Code : BTAG Semester/Year – 2nd
Sem.

Paper / Subject Code	Title of the Paper / Subject	Credit Allotted			End Sem		Internal Theory + Practical			X=B+C+D	X=B+C+D	Total (Max)	Duration of Theory Exam
							Mid Term	Assignment	Practical				
		Total	L	P	Max (A)	MIN(A)	Max (B)	Max (C)	Max (D)	Max (X)	MIN(X)	Y=A+X	
BTAG0201	Engineering Mathematics-II	3	2	1	50	25	30	5	15	50	25	100	3 Hrs
BTAG0202	Principles of soil science	3	2	1	50	25	30	5	15	50	25	100	3 Hrs
BTAG0203	Entrepreneurship Development & business management	3	2	1	50	25	30	5	15	50	25	100	3 Hrs
BTAG0204	Theory of structures	2	1	1	50	25	30	5	15	50	25	100	3 Hrs
BTAG0205	Engineering mechanics	3	2	1	50	25	30	5	15	50	25	100	3 Hrs
BTAG0206	Workshop technology & practice	3	1	2	50	25	30	5	15	50	25	100	3 Hrs
BTAG0207	Theory of machine	2	2	0	50	25	40	10	0	50	25	100	3 Hrs
BTAG0208	Web designing & internet application	2	1	1	50	25	30	5	15	50	25	100	3 Hrs
Total		21	13	8	400	200	250	45	105	400	200	800	



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Scheme of Examination



Faculty of Agriculture Science
Scheme of Course: (B.Tech.) – Agricultural Engineering

Department of Agriculture Engineering
Course Code : BTAG Semester/Year – 3rd Sem.

Paper / Subject Code	Title of the Paper / Subject	Credit Allotted			End Sem		Internal Theory + Practical			X=B+C+D	X=B+C+D	Total (Max)	Duration of Theory Exam
							Mid Term	Assignment	Practical				
		Total	L	P	Max (A)	MIN(A)	Max (B)	Max (C)	Max (D)	Max (X)	MIN(X)	Y=A+X	
BTAG0301	Principles of horticultural crop and plant protection	2	1	1	50	25	30	5	15	50	25	100	3 Hrs
BTAG0302	Principles of agronomy	3	2	1	50	25	30	5	15	50	25	100	3 Hrs
BTAG0303	Communication skills and personality development	2	1	1	50	25	30	5	15	50	25	100	3 Hrs
BTAG0304	Engineering mathematics-III	3	2	1	50	25	30	5	15	50	25	100	3 Hrs
BTAG0305	Soil mechanics	2	1	1	50	25	30	5	15	50	25	100	3 Hrs
BTAG0306	Fluid mechanics and open channel hydraulic	3	2	1	50	25	30	5	15	50	25	100	3 Hrs
BTAG0307	Machine design	2	2	0	50	25	40	10	0	50	25	100	3 Hrs
BTAG0308	Thermodynamics,refrigeration and air conditioning	3	2	1	50	25	30	5	15	50	25	100	3 Hrs
BTAG0309	Electrical machine and power utilization	3	2	1	50	25	30	5	15	50	25	100	3 Hrs
	Total	23	15	8	450	225	270	50	120	450	225	900	



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Scheme of Examination



Faculty of Agriculture Science

Scheme of Course: (B.Tech.) – Agricultural Engineering

Department of Agriculture Engineering

Course Code : BTAG Semester/Year – 4th
Sem.

Paper / Subject Code	Title of the Paper / Subject	Credit Allotted			End Sem		Internal Theory + Practical			X=B+C+D	X=B+C+D	Total (Max)	Duration of Theory Exam
		Total	L	P			Mid Term	Assignment	Practical				
					Max (A)	MIN(A)	Max (B)	Max (C)	Max (D)	Max (X)	MIN(X)	Y=A+X	
BTAG0401	Building construction cost estimation	2	2	0	50	25	40	10	0	50	25	100	3 Hrs
BTAG0402	Auto cad application	2	0	2	0	0	0	50	0	50	25	50	3 Hrs
BTAG0403	Applied electronics and instrumentation	3	2	1	50	25	30	5	15	50	25	100	3 Hrs
BTAG0404	Tractor and automotive engines	3	2	1	50	25	30	5	15	50	25	100	3 Hrs
BTAG0405	Engineering properties of agricultural produce	2	1	1	50	25	30	5	15	50	25	100	3 Hrs
BTAG0406	Watershed hydrology	2	1	1	50	25	30	5	15	50	25	100	3 Hrs
BTAG0407	Irrigation engineering	3	2	1	50	25	30	5	15	50	25	100	3 Hrs
BTAG0408	Sprinkler and micro irrigation systems	2	1	1	50	25	30	5	15	50	25	100	3 Hrs
BTAG0409	Fundamental of renewable energy sources	3	2	1	50	25	30	5	15	50	25	100	3 Hrs
Total		22	15	9	400	200	250	95	105	450	225	850	



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Scheme of Examination



Faculty of Agriculture Science
Scheme of Course: (B.Tech.) – Agricultural Engineering

Department of Agriculture Engineering
Course Code : BTAG Semester/Year – 5th
Sem.

Paper / Subject Code	Title of the Paper / Subject	Credit Allotted			End Sem		Internal Theory + Practical			X=B+C+D	X=B+C+D	Total (Max) Y=A+X	Duration of Theory Exam
		Total	L	P			Mid Term	Assignment	Practical				
					Max (A)	MIN(A)				Max (B)	Max (C)	Max (D)	
BTAG0501	Tractor systems and controls	3	2	1	50	25	30	5	15	50	25	100	3 Hrs
BTAG0502	Farm machinery and equipment I	3	2	1	50	25	30	5	15	50	25	100	3 Hrs
BTAG0503	Agricultural structures and environmental control	3	2	1	50	25	30	5	15	50	25	100	3 Hrs
BTAG0504	Post harvest engineering of cereals, pulses and oil seeds	3	2	1	50	25	30	5	15	50	25	100	3 Hrs
BTAG0505	Soil and water conservation engineering	3	2	1	50	25	30	5	15	50	25	100	3 Hrs
BTAG0506	Watershed planning and management	2	1	1	50	25	30	5	15	50	25	100	3 Hrs
BTAG0507	Drainage engineering	2	1	1	50	25	30	5	15	50	25	100	3 Hrs
BTAG0508	Renewable energy sources	3	2	1	50	25	30	5	15	50	25	100	3 Hrs
BTAG0509	In plant training I	5	0	5	0	0	0	100	0	100	50	100	3 Hrs
Total		27	14	13	400	200	240	140	120	500	250	900	



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Scheme of Examination



Faculty of Agriculture Science
Scheme of Course: (B.Tech.) – Agricultural Engineering

Department of Agriculture Engineering
Course Code : BTAG Semester/Year – 6th
Sem.

Paper / Subject Code	Title of the Paper / Subject	Credit Allotted			End Sem		Internal Theory + Practical			X=B+C+D	X=B+C+D	Total (Max)	Duration of Theory Exam
		Total	L	P			Mid Term	Assignment	Practical				
					Max (A)	MIN(A)				Max (B)	Max (C)	Max (D)	
BTAG0601	Computer programming and data structures	3	1	2	50	25	30	5	15	50	25	100	3 Hrs
BTAG0602	Farm machinery and equipment II	3	2	1	50	25	30	5	15	50	25	100	3 Hrs
BTAG0603	Post harvest engineering of horticultural crops	2	1	1	50	25	30	5	15	50	25	100	3 Hrs
BTAG0604	Water harvesting and soil conservation structure	3	2	1	50	25	30	5	15	50	25	100	3 Hrs
BTAG0605	Ground water wells and pumps	3	2	1	50	25	30	5	15	50	25	100	3 Hrs
BTAG0606	Tractor and farm machinery operation and maintenance	2	0	2	0	0	0	50	0	50	25	100	3 Hrs
BTAG0607	Dairy and food engineering	3	2	1	50	25	30	5	15	50	25	100	3 Hrs
BTAG0608	Bio energy systems design and application	3	2	1	50	25	30	5	15	50	25	100	3 Hrs
Total		22	12	10	350	175	210	85	105	400	200	800	



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Scheme of Examination



Faculty of Agriculture Science
Scheme of Course: (B.Tech.) – Agricultural Engineering

Department of Agriculture Engineering
Course Code : BTAG Semester/Year –
7th Sem.

Paper / Subject Code	Title of the Paper / Subject	Credit Allotted			End Sem		Internal Theory + Practical			X=B+C+D	X=B+C+D	Total (Max) Y=A+X	Duration of Theory Exam
		Total	L	P	Max (A)	MIN(A)	Mid Term	Assignment	Practical				
							Max (B)	Max (C)	Max (D)	Max (X)	MIN(X)		
BTAG0701	10 weeks industrial attachment /internship (student ready)	10	0	10	0	0	0	200	0	200	100	200	3 Hrs
BTAG0702	10 weeks experimental learning on campus (student ready)	10	0	10	0	0	0	200	0	200	100	200	3 Hrs
BTAG0703	In plant training II (Student ready) Registration only	5	0	5	0	0	0	100	0	100	50	100	3 Hrs
BTAG0704	Educational tour (Registration only)	2	0	2	0	0	0	50	0	50	25	50	3 Hrs
Total		27	0	27	0	0	0	550	0	550	275	550	



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Scheme of Examination



Faculty of Agriculture Science
Scheme of Course: (B.Tech.) – Agricultural Engineering

Department of Agriculture Engineering
Course Code : BTAG Semester/Year –
8th Sem.

Paper / Subject Code	Title of the Paper / Subject	Credit Allotted			End Sem		Internal Theory + Practical			X=B+C+D	X=B+C+D	Total (Max) Y=A+X	Duration of Theory Exam
		Total	L	P			Mid Term	Assignment	Practical				
					Max (A)	MIN(A)	Max (B)	Max (C)	Max (D)	Max (X)	MIN(X)		
BTAG0801	Water land development	3	2	1	50	25	30	5	15	50	25	100	3 Hrs
BTAG0802	Precision farming technique for protective cultivation	3	2	1	50	25	30	5	15	50	25	100	3 Hrs
BTAG0803	Food packaging technology	3	2	1	50	25	30	5	15	50	25	100	3 Hrs
BTAG0804	Project planning and report writing (student ready)	10	0	10	0	0	0	200	0	200	100	200	3 Hrs
Total		19	6	13	150	75	90	215	45	350	175	500	