JIWAJI UNIVERSITY, GWALIOR
CBCS Course Structure and Scheme of Examination
M.Sc. (Remote Sensing & GIS) First Semester

Course code	Course Name	C/E	Total Marks	Credit C(i)	End Semester Examination Marks			Internal Assessment Marks			Total Obtained Marks	Grade Points G(i)	Letter grade	SGPA $S(1)=\dfrac{\sum C(i).G(i)}{\sum C(i)}$
					Max	Min	Obtained	Max	Min	Obtained				
RT-101	Fundamentals of Remote Sensing	(Core)	100	3	60	21		40	14					
RT -102	Aerial Photography and Photogrammetry	(Core)	100	3	60	21		40	14					
RT -103	Cartography and Global Positing System	(Core)	100	3	60	21		40	14					
RT -104	Digital Image Processing	(Core)	100	3	60	21		40	14					
RL-105	Practical - I Image Interpretation And Photogrammetry	(Core)	100	3	60	21		40	14					
RL-106	Practical – II Cartography, GPS and DIP	(Core)	100	3	60	21		40	14					
RS-107	Seminar	(Core)	100	1	xx	xx	--	100	35					
RA-108	Assignment	(Core)	100	1	xx	xx	--	100	35					
	Sub-total		800	20										
RV-109	Comprehensive viva-voce (Virtual Credit)		100	4	100	35		xx	xx	--				xx
	Grand Total		900	24										

Sem. I		Sem. II		Sem. III		Sem. IV		CGPA= $\dfrac{\sum SC(i).S(i)}{\sum SC(i)}$	Result
SC(1)	S(1)	SC(2)	S(2)	SC(3)	S(3)	SC(4)	S(1)		
20		20		20		20			

RT= RS&GIS Theory, RL= RS&GIS Lab, RS= RS&GIS Seminar, RA= RS&GIS Assignment, RV= RS&GIS Virtual, SC(j)=$\sum C(i)$, SGPA=S(j), j=j[th] Semester

SGPA = Semester Grade Point Average.   CGPA = Cumulative Grade Point Average

CGPA Scale	1st Division With Dist. CGPA	1st Division CGPA	2nd Division CGPA	Pass division CGPA	Grace	Minimum valid credits required for promotion	No. of subjects	No. of subjects to appear
10.0	7.5 or above	6.0 or above	5.0 or above	3.5 or above	As per ordinance	12	9	9

NB :

A student has to acquire minimum 35% marks i.e. in end semester examination 21 out of 60 and in internal assessment 14 out of 40.

Comprehensive viva-voce (Virtual Credit) will not be added into grade point average.

Grades will be decided by the marks obtained out of 100.

The student will be promoted to the next semester after passing courses equivalent to 12 valid credits.

SGPA = Semester Grade Point Average.   CGPA = CumulativeGrade Point Average

Description of grade letter and grade points:

Letter Grade	Grade Points	Description	Range of Marks (%)
O	10	Outstanding	90-100
A+	9	Excellent	80-89
A	8	Very good	70-79
B+	7	Good	60-69
B	6	Above Average	50-59
C	5	Average	40-49
P	4	Pass	35-39
F	0	Fail	0-34
Ab	0	Absent	Absent

JIWAJI UNIVERSITY, GWALIOR
CBCS Course Structure and Scheme of Examination
M.Sc. (Remote Sensing & GIS) Second Semester

Course code	Course Name	C/E	Total Marks	Credit C(i)	End Semester Examination Marks			Internal Assessment Marks			Total Obtained Marks	Grade Points G(i)	Letter grade	SGPA S(2)= $\frac{\sum C(i).G(i)}{\sum C(i)}$
					Max	Min	Obtained	Max	Min	Obtained				
RT-201	Thermal and Microwave Remote Sensing	(Core)	100	3	60	21		40	14					
RT-202	Geographical Information System	(Core)	100	3	60	21		40	14					
RT-203	Remote Sensing in Geosciences	(Core)	100	3	60	21		40	14					
RT-204	Remote Sensing in Mineral Exploration and Geotechnical Engineering	(Core)	100	3	60	21		40	14					
RL-205	Practical – I Microwave Remote Sensing and GIS	(Core)	100	3	60	21		40	14					
RL-206	Practical – II Remote Sensing in Geosciences, Mineral Exploration and Geotechnical Engineering	(Core)	100	3	60	21		40	14					
RS-207	Seminar	(Core)	100	1	xx	xx	--	100	35					
RA-208	Assignment	(Core)	100	1	xx	xx	--	100	35					
	Sub-total		800	20										
RV-209	Comprehensive viva-voce (Virtual Credit)		100	4	100	35		xx	xx	--				xx
	Grand Total		900	24										

Sem. I		Sem. II		Sem. III		Sem. IV		CGPA= $\frac{\sum SC(i).S(i)}{\sum SC(i)}$	Result
SC(1)	S(1)	SC(2)	S(2)	SC(3)	S(3)	SC(4)	S(1)		
20		20		20		20			

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SGPA = Semester Grade Point Average.   CGPA = Cumulative Grade Point Average

CGPA Scale	1st Division With Dist. CGPA	1st Division CGPA	2nd Division CGPA	Pass division CGPA	Grace	Minimum valid credits required for promotion	No. of subjects	No. of subjects to appear
10.0	7.5 or above	6.0 or above	5.0 or above	3.5 or above	As per ordinance	12	9	9

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P	4	Pass	35-39
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Ab	0	Absent	Absent

JIWAJI UNIVERSITY, GWALIOR
CBCS Course Structure and Scheme of Examination
M.Sc. (Remote Sensing & GIS) Third Semester

Course Code	Course Name	C/E	Total Marks	Credit C(i)	End Semester Examination Marks			Internal Assessment Marks			Total Obtained Marks	Grade Points G(i)	Letter grade	SGPA S(3)= $\frac{\sum C(i).G(i)}{\sum C(i)}$
					Max	Min	Obtained	Max	Min	Obtained				
RT-301	Remote Sensing in Water Resources	(Core)	100	3	60	21		40	14					
RT-302	Remote Sensing in Agriculture, Soil and Land Evaluation Studies	(Core)	100	3	60	21		40	14					
RT-303	Remote Sensing in Forestry	(Elective Centric)	100	3	60	21		40	14					
RT-304 Or RT-305	Remote Sensing in Marine Sciences Or Remote Sensing and Basics and Applications	(Elective Centric) or (Elective Generic)	100	3	60	21		40	14					
RL-306	Practical – I Remote Sensing in Water Resources, Soil & Agriculture	(Core)	100	3	60	21		40	14					
RL-307	Practical – II Remote Sensing in Forestry and corresponding Elective Paper	(Core)	100	3	60	21		40	14					
RS-308	Seminar	(Core)	100	1	xx	xx	--	100	35					
RA-309	Assignment	(Core)	100	1	xx	xx	--	100	35					
	Sub-total		800	20										
RV-310	Comprehensive viva-voce (Virtual Credit)		100	4	100	35		xx	xx	--				xx
	Grand Total		900	24										

Sem. I		Sem. II		Sem. III		Sem. IV		CGPA= $\frac{\sum SC(i).S(i)}{\sum SC(i)}$	Result
SC(1)	S(1)	SC(2)	S(2)	SC(3)	S(3)	SC(4)	S(1)		
20		20		20		20			

RT= RS&GIS Theory,   RL= RS&GIS Lab, RS= RS&GIS Seminar, RA= RS&GIS Assignment, RV= RS&GIS Virtual, SC(j)=$\sum C(i)$, SGPA=S(j), j= j[th] Semester

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10.0	7.5 or above	6.0 or above	5.0 or above	3.5 or above	As per ordinance	12	9	9

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Ab	0	Absent	Absent

JIWAJI UNIVERSITY, GWALIOR
CBCS Course Structure and Scheme of Examination
M.Sc. (Remote Sensing & GIS) Fourth Semester

Course Code	Course Name	C/E	Total Marks	Credit C(i)	End Semester Examination Marks			Internal Assessment Marks			Total Obtained Marks	Grade Points G(i)	Letter grade	SGPA S(4)= $\frac{\sum C(i).G(i)}{\sum C(i)}$
					Max	Min	Obtained	Max	Min	Obtained				
RT-401	Remote Sensing in Human Settlement Analysis	(Core)	100	3	60	21		40	14					
RT-402 / RT-403	Remote Sensing in Environmental Science Or Basics of DIP, GIS and GPS	(Elective centric) or (Elective Generic)	100	3	60	21		40	14					
RL-404	Practical – I Remote Sensing in Human Settlement and corresponding elective paper	(Core)	100	2	60	21		40	14					
RF-405	Minor Project - Remote Sensing Field Work	(Core)	200	4	xx	xx	--	200	70	--				
RP-406	Major Project Work		300	8	300	105		xx	xx					
	Sub-total		800	20										
RV-407	Comprehensive viva-voce (Virtual Credit)		100	4	100	35		xx	xx	--				
	Grand Total		900	24										

Sem. I		Sem. II		Sem. III		Sem. IV		CGPA= $\frac{\sum SC(i).S(i)}{\sum SC(i)}$	Result
SC(1)	S(1)	SC(2)	S(2)	SC(3)	S(3)	SC(4)	S(1)		
20		20		20		20			

RT= RS&GIS Theory, RL=RS&GIS Lab, RF=RS&GIS Field Work, RP=RS&GIS Project Work, RV=RS&GIS Virtual, SC(j)= $\sum C(i)$, SGPA=S(j), j= j[th] Semester
SGPA = Semester Grade Point Average.   CGPA = Cumulative Grade Point Average

Note : One Elective Course has to be chosen *Department has to decide whether Electives are of Centric or generic nature. Students from other departments may choose generic electives. * However, the generic elective course will be offered to the students of other departments as per the availability of the faculty members in the Department.

CGPA Scale	1st Division With Dist. CGPA	1st Division CGPA	2nd Division CGPA	Pass division CGPA	Grace	Minimum valid credits required for promotion	No. of subjects	No. of subjects to appear
10.0	7.5 or above	6.0 or above	5.0 or above	3.5 or above	As per ordinance	12	6	6

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