



**SABARMATI UNIVERSITY**

**School of Vocational Studies Syllabus  
& Course Structure**

**Of**

**Bachelor of Vocational Studies-  
Well and Mining Engineering  
(BVO-WME)**

## B.Voc (Well and Mining)

### SEMESTER I (NSFQ LEVEL-4)

Subject Code	Subject Name	Credit	Course Category		Examination Scheme		
			General Education	Skill	Internal Assessment	External Assessment	Total
BVO WME 101	Communication skill	2		--	30	70	100
BVO WME 102	Computer skills	2		--	30	70	100
BVO BFS 103	Environmental Studies	2		--	30	70	100
BVO WME 104	Fundamental Chemistry	2		--	30	70	100
BVO WME 105	Mathematics	2		--	30	70	100
BVO WME 106	Engineering Mechanics	2		--	30	70	100
BVO WME 991	Industrial Training*	18	--				750
	<b>Total</b>	<b>30</b>			<b>180</b>	<b>420</b>	<b>1350</b>

#### Industrial Training (750 Marks)

Project Report	250 Marks
Day to Day Work Report (Diary)	200 Marks
Practical (On side)	200 Marks
Viva-Voce (Conduct by University)	100 Marks

Course Category	Proportion	Credits	Total Lecture ( In Hours)
General Education Components	40%	12	180 Hrs
Skill Components	60%	18	540 Hrs

#### **Industrial Training-I:**

The students are advised to undergo 540 Hrs (10-12 weeks) training in house/industry/ SkillKnowledge Provider (SKP)/ Sector Skill Council (SSC) and should submit training certificate for evaluation during the same semester.

## SEMESTER II (NSFQ LEVEL-5)

Subject Code	Subject Name	Credit	Course Category		Examination Scheme		
			General Education	Skill	Internal Assessment	External Assessment	Total
BVO WME 201	Personality Development - I	2		--	30	70	100
BVO WME 202	Disaster Management	2		--	30	70	100
BVO WME 203	General Geology	2		--	30	70	100
BVO WME 204	Surveying and Map Preparation	3		--	30	70	100
BVO WME 205	Underground Mine Environment-I	3		--	30	70	100
BVO WME 992	Industrial Training*	18					750
	<b>Total</b>	<b>30</b>			<b>150</b>	<b>350</b>	<b>1250</b>

Industrial Training (750 Marks)	
Project Report	250 Marks
Day to Day Work Report (Diary)	200 Marks
Practical (On side)	200 Marks
Viva-Voce (Conduct by University)	100 Marks

Course Category	Proportion	Credits	Total Lecture ( In Hours)
General Education Components	40%	12	180 Hrs
Skill Components	60%	18	540 Hrs

### Industrial Training-II:

The students are advised to undergo 540 Hrs (10-12 weeks) training in house/industry/ SkillKnowledge Provider (SKP)/ Sector Skill Council (SSC) and should submit training certificate for evaluation during the same semester.

### SEMESTER III (NSFQ LEVEL-6)

Subject Code	Subject Name	Credit	Course Category		Examination Scheme		
			General Education	Skill	Internal Assessment	External Assessment	Total
BVO WME 301	Personality Development- II	3		--	30	70	100
BVO WME 302	Rock Mechanics	3		--	30	70	100
BVO WME 303	Mining Machinery-I	3		--	30	70	100
BVO WME 304	Underground Mine Environment-2	3		--	30	70	100
BVO WME 993	Industrial Training*	18					750
	<b>Total</b>	<b>30</b>			<b>120</b>	<b>280</b>	<b>1150</b>

Industrial Training (750 Marks)	
Project Report	250 Marks
Day to Day Work Report (Diary)	200 Marks
Practical (On side)	200 Marks
Viva-Voce (Conduct by University)	100 Marks

Course Category	Proportion	Credits	Total Lecture ( In Hours)
General Education Components	40%	12	180 Hrs
Skill Components	60%	18	540 Hrs

#### **Industrial Training-III:**

The students are advised to undergo 540 Hrs (10-12 weeks) training in house/industry/ Skill Knowledge Provider (SKP)/ Sector Skill Council (SSC) and should submit training certificate for evaluation during the same semester.

## SEMESTER IV (NSFQ LEVEL-6)

Subject Code	Subject Name	Credit	Course Category		Examination Scheme		
			General Education	Skill	Internal Assessment	External Assessment	Total
BVO WME 401	Value Education and Human Rights	2		--	30	70	100
BVO WME 402	Petroleum Geology	2		--	30	70	100
BVO WME 403	Petroleum Exploration	2		--	30	70	100
BVO WME 404	Mining Machinery-II	3		--	30	70	100
BVO WME 405	Mining Geology-I	3		--	30	70	100
BVO WME 994	Industrial Training	18					750
	<b>Total</b>	<b>30</b>			<b>150</b>	<b>350</b>	<b>1250</b>

### Industrial Training (750 Marks)

Project Report	250 Marks
Day to Day Work Report (Diary)	200 Marks
Practical (On side)	200 Marks
Viva-Voce (Conduct by University)	100 Marks

Course Category	Proportion	Credits	Total Lecture ( In Hours)
General Education Components	40%	12	180 Hrs
Skill Components	60%	18	540 Hrs

### Industrial Training-IV:

The students are advised to undergo 540 Hrs (10-12 weeks) training in house/industry/ SkillKnowledge Provider (SKP)/ Sector Skill Council (SSC) and should submit training certificate for evaluation during the same semester.

## SEMESTER V (NSFQ LEVEL-7)

Subject Code	Subject Name	Credit	Course Category		Examination Scheme		
			General Education	Skill	Internal Assessment	External Assessment	Total
BVO WME 501	Research Methodology I	2		--	30	70	100
BVO WME 502	Mining Geology-II	2		--	30	70	100
BVO WME 503	Ground Control	2		--	30	70	100
BVO WME 504	Surface Mining-I	3		--	30	70	100
BVO WME 505	Well logging and Formation Evaluation	3		--	30	70	100
BVO WME 995	Industrial Training	18					750
	<b>Total</b>	<b>30</b>			<b>150</b>	<b>350</b>	<b>1250</b>

### Industrial Training (750 Marks)

Project Report	250 Marks
Day to Day Work Report (Diary)	200 Marks
Practical (On side)	200 Marks
Viva-Voce (Conduct by University)	100 Marks

Course Category	Proportion	Credits	Total Lecture ( In Hours)
General Education Components	40%	12	180 Hrs
Skill Components	60%	18	540 Hrs

### Industrial Training-V:

The students are advised to undergo 540 Hrs (10-12 weeks) training in house/industry/ Skill Knowledge Provider (SKP)/ Sector Skill Council (SSC) and should submit training certificate for evaluation during the same semester.

## SEMESTER VI (NSFQ LEVEL-7)

Subject Code	Subject Name	Credit	Course Category		Examination Scheme		
			General Education	Skill	Internal Assessment	External Assessment	Total
BVO WME 601	<b>Research Methodology II</b>	2		--	30	70	100
BVO WME 602	Drilling technology	2		--	30	70	100
BVO WME 603	Well Completion Testing and Servicing	2		--	30	70	100
BVO WME 604	Petroleum Reservoir Engineering	3		--	30	70	100
BVO WME 605	Reservoir modelling and summation	3			30	70	100
BVO WME 996	Industrial Training*	18					750
	<b>Total</b>	<b>30</b>			<b>150</b>	<b>350</b>	<b>1250</b>

### Industrial Training (750 Marks)

Project Report	250 Marks
Day to Day Work Report (Diary)	200 Marks
Practical (On side)	200 Marks
Viva-Voce (Conduct by University)	100 Marks

Course Category	Proportion	Credits	Total Lecture ( In Hours)
General Education Components	40%	12	180 Hrs
Skill Components	60%	18	540 Hrs

### **Industrial Training-VI:**

The students are advised to undergo 540 Hrs (10-12 weeks) training in house/industry/ SkillKnowledge Provider (SKP)/ Sector Skill Council (SSC) and should submit training certificate for evaluation during the same semester.