



Estd : 2008

METHODIST

COLLEGE OF ENGINEERING AND TECHNOLOGY

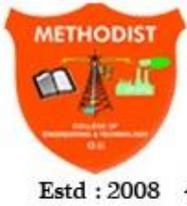
Approved by AICTE New Delhi | Affiliated to Osmania University, Hyderabad

Abids, Hyderabad, Telangana, 500001

1.2.2 Percentage of programs in which CBCS/Elective course system has been implemented								
TIME LINE:2016-17 TO 2019 -20								
DEPARTMENTS	2019-20		2018-19		2017-18		2016-17	
	CBCS COURSES	TOTAL COURSES	CBCS COURSES	TOTAL COURSES	CBCS COURSES	TOTAL COURSES	CBCS COURSES	TOTAL COURSES
CIVIL	73	73	55	70	42	75	23	74
CSE	77	77	55	69	42	74	23	71
ECE	73	73	53	68	41	76	23	74
EEE	75	75	61	75	40	71	23	70
MECH(UG)	75	75	53	68	42	74	24	73
MECH(PG)	0	14	0	14	0	14	0	14
MBA	26	26	26	26	26	26	12	28
TOTAL CBCS COURSES	399	413	303	376	233	396	128	390
AVG. PERC. OF CBCS COURSES (%)	100.00		80.59		58.84		32.82	

SUMMARY

- The yearwise percentage of CBCS courses under 5- Engineering programs & DBM are summarised in above table
- In 2016-17 , CBCS curriculum was implemented for I yr students and subsequently in 2017-18 for II Yrs, 2018-19 for III & 2019-20 for IV Yr students
- In 2016-17, CBCS curriculum was implemented for I yr DBM students, and subsequently for II yrs 2017-18
- In 2018-19, AMC curriculum was implemented for I yr BE
- The uploaded PDF includes : Official CBCS implementation related document, scanned Elective details for CBCS curriculum in V VI , & VII semesters of Engg , I to IV semesters for MBA & ME(CAD CAM) programs



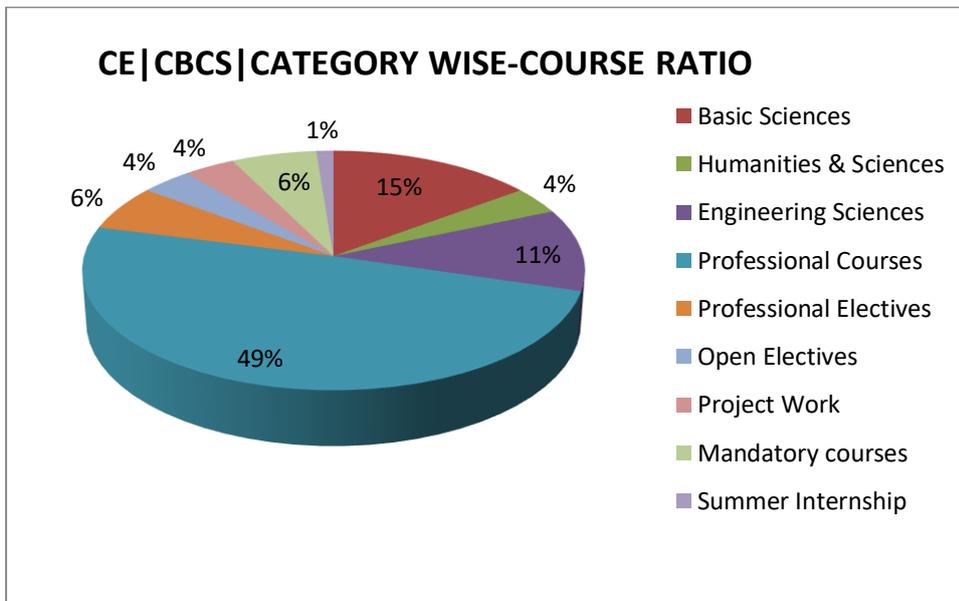
METHODIST COLLEGE OF ENGG & TECHNOLOGY

Abids, Hyderabad

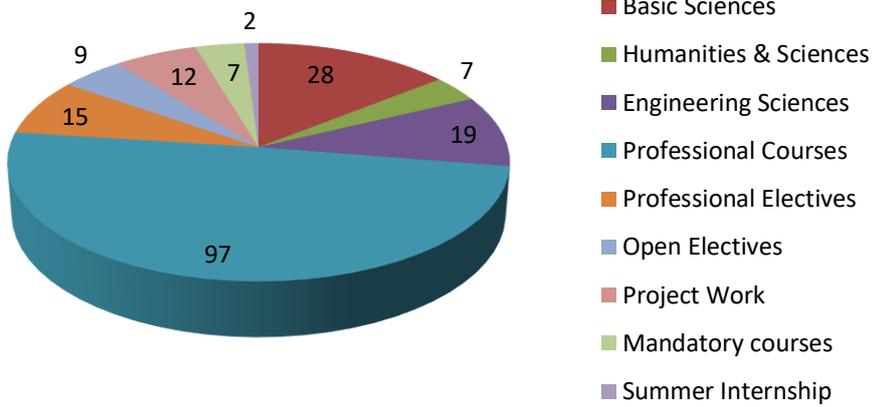
Department of Civil Engineering

Time line: 2016-17 TO 2019-20

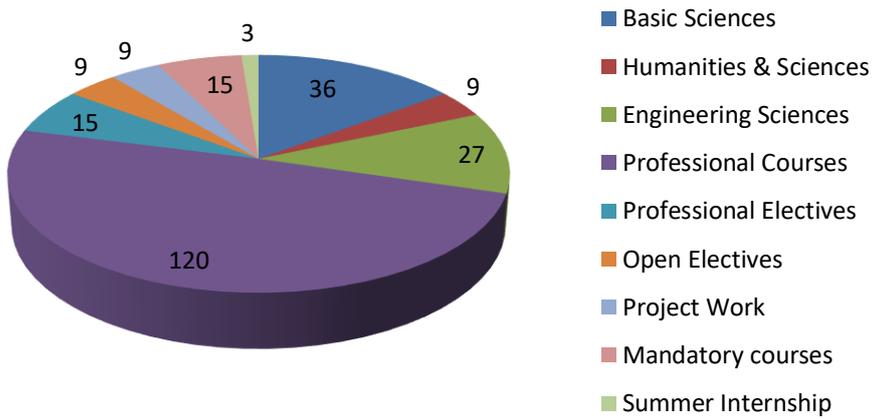
DEPT OF CIVIL ENGG - CBCS CURRICULUM ANALYSIS CHART					
Sl. No	COURSE CATEGORY	COURSE RATIO		CREDITS DISTRIBUTION	HRS/WEEK
		Number	Percentage		
1	BS-Basic sciences	12	15%	28	36
2	H&SS-Humanities & Soc sciences	3	4%	7	9
3	ES-Engg Science	9	11%	19	27
4	PC-Prof. Course	40	49%	97	120
5	PE-Prof. Elective	5	6%	15	15
6	OE-Open Elective	3	4%	9	9
7	PW-Project Work	3	4%	12	9
8	MC-mandatory Course	5	6%	7	15
9	SI-Summer Internship	1	1%	2	3



CE|CBCS|CATEGORY WISE-CREDITS DISTRIBUTION



CE|CBCS|CATEGORYWISE -HOURS /WEEK



-HOD, CIVIL ENGG.

2019

Minutes of the meeting of the Faculty of Engineering, Osmania University held on 25th June, 2019 at 10.30am in the committee room, Administrative Building, Osmania University.

III & IV Sem AICTE

Members Present:

1. Prof. P. Laxminarayana, Dean, Faculty of Engineering, Osmania University
2. Prof. P. Premchand, Dean, Faculty of Informatics, OU
3. Prof. P. Raja Sekhar, CBoS, Dept. of Civil Engineering, OU
4. Prof. P.V. Sudha, CBoS, Dept. of CSE, OU.
5. Dr. R. Hemalatha, CBoS, Dept. of ECE, OU.
6. Prof. B. Mangu, CBoS, Dept. of Electrical Engineering, OU
7. Prof. M.C.S. Reddy, CBoS, Dept. of Mechanical Engineering, OU
8. Prof. M. Malini, CBoS, Dept. of BME, OU.
9. Prof. P. V. N. Prasad, Dept. of EE, UCE, OU
10. Prof. G. Mallesham, Head, Dept. of Electrical Engineering, OU
11. Prof. Prof. M Gopal Naik, Head, Dept. of Civil Engineering, UCE, OU
12. Prof. P. Chandra Sekhar, Head, Dept. of ECE, UCE, OU
13. Prof. M. Malini, Head, Dept. of BME, OU.
14. Prof. K. Shamala, Dept. of CSE, OU
15. The Principal, CBIT, Hyderabad.
16. The Principal, MVSR Engg. College, R.R. Dist
17. The Principal, MJCET, Hyderabad.
18. The Principal, DCET, Hyderabad.
19. The Principal, Methodist College of Engg. Hyderabad.
20. The Principal, Matrusri College of Engg. Hyderabad.
21. Prof. D. Jaya Prakash, NGIT, Hyderabad, (Spl. Invitee)
22. Dr. K. Regin Bose, Principal, Swathi Institute of Tech&Sc, Hyderabad (Spl. Invitee)
23. Prof. Syed Abdul Sattar, Principal, NSAKCET, Hyderabad(Spl. Invitee)
24. Prof. Mohd. Yousuf Ali, Principal, Lords Engg., College, Hyderabad(Spl. Invitee)
25. Prof. Mir Iqbal Faheem, Vice Principal, DCET, Hyderabad (Spl. Invitee)
26. Prof. N.V. Koteswara Rao, CBIT, Hyderabad. (Spl. Invitee)

Agenda for the meeting:

1. To consider the CBCS Scheme and Syllabus for B.E. (4th - Year) VII & VIII - Semesters in the Osmania University Affiliated Engineering Colleges.
2. To consider the revised Scheme for B.E. (1st - Year) I & II - Semester as per AICTE Model Curriculum with from effect the academic Year 2019-2020 in the Osmania University Affiliated Engineering Colleges.
3. To consider the Scheme and Syllabus for B.E. (2nd - Year)-III & IV - Semesters as per AICTE Model Curriculum with effect from the academic Year 2019-2020 in the Osmania University Affiliated Engineering Colleges.
4. To consider the Scheme for B.E. (3rd & 4th - Yrs) - V, VI, VII and VIII - Semesters as per AICTE Model Curriculum in the Osmania University Affiliated Engineering Colleges.
5. To consider the Scheme and Syllabus for M.E. (AICTE Model Curriculum) to be initiated with effect from the academic Year 2019-2020 in the Osmania University Affiliated Engineering Colleges.
6. Any other matter with the permission of the chair.


HEAD OF THE DEPARTMENT
DEPARTMENT OF ECE
METHODIST COLLEGE OF ENGG. & TECH.
ABIDS, HYDERABAD

At the outset Dean, Faculty of Engineering, Osmania University welcomed all the members and the special invitees to the meeting.

- Dean, Faculty of Engineering, began the meeting with a power point presentation to apprise the members about the agenda for the meeting and the related issues pertaining to the finalization of scheme and syllabi for B.E. (4th - Year-CBCS) VII & VIII Semesters and the scheme and syllabi for B.E. (2nd - Year) III & IV semesters and for all M.E. /M.Tech., courses as per the AICTE model curriculum.
- The respective Chairpersons-BoS of the Departments of Civil Engineering, Computer Science Engineering, Electronics and Communication Engineering, Electrical & Electronics Engineering and Mechanical Engineering respectively presented the details of the subjects and syllabus for all the engineering streams, including Information Technology, Electrical and Instrumentation Engineering, Production Engineering and Automobile Engineering.

The following resolutions were taken after thorough discussion amongst the members present:

- B.E. (4th - Year, CBCS) VII and VIII - Semester for the academic year 2019-2020.
 - Summer Internship of 4 weeks duration is included after the completion of the Semester-VI, which shall be evaluated internally by respective colleges in Semester-VII.
 - All open elective courses are placed in the Semester-VII only and Professional Elective courses are placed in the Semester-VIII.
 - Those of the students willing to register for MOOCs in semester-VIII instead of Professional Electives III, IV & V, should register for those courses approved by the CBoS, OU and respective college MOOCs Coordinators. Such students are strictly not permitted to appear for either CIE or SEE of Professional Electives, if they abstain from attending the semester class work. Further, the students who choose to appear for both MOOCs and Professional Electives must fulfill the minimum attendance criteria in the Professional Electives.
 - The responsibility of passing the MOOCs lies entirely on the student. If he/she fails the MOOCs, she is not eligible to write the supplementary exam for the corresponding Professional Elective. He/she has to clear another MOOC course of the same number of credits in the following semester or year.
 - **The members of the faculty of Engineering unanimously approved the CBCS scheme and syllabi of all the Departments.**
- B.E. III and IV - Semester as per AICTE Model Curriculum with from effect the academic Year 2019-2020.
 - The four Mandatory Courses as prescribed in the AICTE model curriculum, namely, the Induction program, Environmental Science, Indian Constitution and Essence of Indian Traditional Knowledge, shall be covered for all branches within the first two semesters only, starting from this Academic Year 2019-20, and henceforth continue for future

admissions as well. This is done so as to reduce the burden of coursework for students in the further semesters.

- However, as the above mandatory courses were not offered to the students admitted during the Academic Year 2018-19, except for the Induction Program, the students have to complete the mandatory courses in the B.E. III and IV - Semesters. Thus, for this particular academic year, the mandatory courses have to be simultaneously offered to both the first year (I & II - Semesters) and second year (III & IV - Semesters) students.
 - The three mandatory courses as prescribed in the AICTE model curriculum, namely, Environmental Science, Indian Constitution and Essence of Indian Traditional Knowledge, shall be compulsorily offered for all branches within the third and fourth semesters only.
 - The common courses under various heads such as Humanities & Social Sciences, Basic Sciences, Engineering Sciences and Mandatory Courses were listed and their distribution across various branches in the III and IV- Semesters was listed.
 - **The members of the faculty of Engineering unanimously approved the AICTE-MC UG scheme and syllabi of all the Departments.**
- M.E. /M.Tech. I, II, III and IV - Semesters as per AICTE Model Curriculum with from effect the academic Year 2019-2020.
- The distribution of professional core, professional electives, open electives, mandatory courses and project work over the four semesters was listed by respective Departments and the same was approved.
 - **The members of the faculty of Engineering unanimously approved the AICTE-MC P.G. scheme and syllabi of all the Departments.**
 - ✓ The members unanimously approved the rules and regulations for both UG and PG courses, the same rules will be followed by the College of Engineering, Osmania University and all the OU affiliated Engineering Colleges & OU affiliated Engineering Colleges (Autonomous).
 - ✓ Dean, Faculty of Engineering and the members, while thanking all the Chairperson, Board of Studies for all their efforts.
 - ✓ The proposal put forth by a representative from CBIT pertaining to the award of B.E.(Hons.) degree after the student obtains 20 additional Credits as per the AICTE norms and OU rules and regulations was agreed upon unanimously by the members and the same was approved by the members of the faculty of Engineering.

he meeting ended with Dean, Faculty of Engineering thanking all the members for their active participation and in turn all the members present profusely thanked the Dean, Faculty of Engineering for all his efforts in finalizing the scheme and syllabi for the UG and PG courses in faculty of Engineering.

Dean
Faculty of Engineering
Osmania University


4 HEAD OF THE DEPARTMENT
DEPARTMENT OF ECE
METHODIST COLLEGE OF ENGG. & TECH.
ABIDS, HYDERABAD

SCHEME OF INSTRUCTION & EXAMINATION
B.E. V - Semester
(CIVIL ENGINEERING)

S. No.	Course Code	Course Title	Scheme of Instruction				Scheme of Examination			Credits
			L	T	P/D	Contact Hrs/Wk	CIE	SEE	Duration in Hrs	
Theory Courses										
1	PC 501 CE	Reinforced Cement Concrete	3	1	-	4	30	70	3	3
2	PC 502 CE	Theory of Structures – I	3	1	-	4	30	70	3	3
3	PC 503 CE	Concrete Technology	3	-	-	3	30	70	3	3
4	PC 504 CE	Hydraulic Machines	3	-	-	3	30	70	3	3
5	PC 505 CE	Transportation Engg. – I	3	-	-	3	30	70	3	3
6	PC 506 CE	Environmental Engineering	3	-	-	3	30	70	3	3
7	PC 507 CE	Water Resource Engg. – I	3	-	-	3	30	70	3	3
8	PE-I	Professional Elective – I	3	-	-	3	30	70	3	3
Practical/Laboratory Courses										
9	PC 551 CE	Fluid Mechanics Lab – II	-	-	2	2	25	50	3	1
10	PC 552 CE	Transportation Engineering Lab	-	-	2	2	25	50	3	1
11	PC 553 CE	Environmental Engineering Lab	-	-	2	2	25	50	3	1
			24	02	06	32	315	710		27

Professional Elective – I		
S. No.	Course Code	Course Title
1	PE 501 CE	Advanced Concrete Technology
2	PE 502 CE	Hydropower Engineering
3	PE 503 CE	Infrastructure Engineering
4	PE 504 CE	Soft Computing Skills in CE

PC: Professional Course **PE:** Professional Elective

L: Lecture **T:** Tutorial **P:** Practical **D:** Drawing

CIE: Continuous Internal Evaluation **SEE:** Semester End Examination (Univ. Exam)

Note:

1. Each contact hour is a Clock Hour
2. The duration of the practical class is two clock hours, however it can be extended wherever necessary, to enable the student to complete the experiment.

SCHEME OF INSTRUCTION & EXAMINATION
B.E. VI - Semester
(CIVIL ENGINEERING)

S. No.	Course Code	Course Title	Scheme of Instruction				Scheme of Examination			Credits
			L	T	P/D	Contact Hrs/Wk	CIE	SEE	Duration in Hrs	
Theory Courses										
1	PC 601 CE	Steel Structures	3	1	-	4	30	70	3	3
2	PC 602 CE	Structural Engineering Design & Detailing – I (Concrete)	3	1	-	4	30	70	3	3
3	PC 603 CE	Theory of Structures – II	3	1	-	4	30	70	3	3
4	PC 604 CE	Water Resource Engineering II	3	-	-	3	30	70	3	3
5	PC 605 CE	Soil Mechanics	3	-	-	3	30	70	3	3
6	PC 606 CE	Transportation Engineering – II	3	-	-	3	30	70	3	3
7	PE-II	Professional Elective – II	3	-	-	3	30	70	3	3
8	OE-I	Open Elective – I	3	-	-	3	30	70	3	3
Practical/ Laboratory Courses										
9	PC 651 CE	Soil Mechanics Lab	-	-	2	2	25	50	3	1
10	PC 652 CE	Concrete Technology Lab	-	-	2	2	25	50	3	1
11	PW 661 CE	Survey Camp	-	-	-	-	-	50	3	2
Total			24	03	04	31	290	710	-	28

PC: Professional Course **PE:** Professional Elective **OE:** Open Elective **PW:** Project Work
L: Lecture **T:** Tutorial **P:** Practical **D:** Drawing
CIE: Continuous Internal Evaluation **SEE:** Semester End Examination (Univ. Exam)

Note -1:

1. Each contact hour is a Clock Hour
2. The duration of the practical class is two clock hours, however it can be extended wherever necessary, to enable the student to complete the experiment

Note-2:

- * The students have to undergo a Summer Internship of four weeks duration after VI semester and credits will be awarded in VII semester after evaluation.
- ** Subject is not offered to the students of Civil Engineering Department

Open Elective-I:		
S.No	Course Code	Course Title
1	OE601CE	Disaster Management**
2	OE602CE	Geo Spatial Techniques**
3	OE601CS	Operating Systems
4	OE602CS	OOP using Java
5	OE601IT	Database Systems
6	OE601EC	Principles of Embedded Systems
7	OE602EC	Digital System Design using HDL Verilog
8	OE601EE	Reliability Engineering
9	OE602EE	Basics of Power Electronics
10	OE601ME	Industrial Robotics
11	OE602ME	Material Handling
12	OE632AE	Automotive Safety & Ergonomics

Professional Elective – II		
S.No.	Course Code	Course Title
1	PE 601 CE	Earthquake Resistant Design of Buildings
2	PE 602 CE	Wastewater Treatment
3	PE 603 CE	Ground Improvement Techniques
4	PE 604 CE	Watershed Management

SCHEME OF INSTRUCTION & EXAMINATION
B.E. VII - Semester
(CIVIL ENGINEERING)

S. No.	Course Code	Course Title	Scheme of Instruction				Scheme of Examination			Credits
			L	T	P/D	Contact Hrs/Wk	CIE	SEE	Duration in Hrs	
Theory Courses										
1	PC 701 CE	Str. Engg. Design and Drawing – II (Steel)	3	1	-	4	30	70	3	3
2	PC 702 CE	Estimation Costing & Specifications	3	1	-	4	30	70	3	3
3	PC 703 CE	Finite Element Techniques	3	-	-	3	30	70	3	3
4	PC 704 CE	Prestressed Concrete	3	-	-	3	30	70	3	3
5	PC 705 CE	Foundation Engineering	3	-	-	3	30	70	3	3
6		Open Elective – II	3	-	-	3	30	70	3	3
7		Open Elective – III	3	-	-	3	30	70	3	3
Practical/ Laboratory Courses										
8	PC 751 CE	Computer Application Lab	-	-	2	2	25	50	3	1
9	PW 761 CE	Project Work – I	-	-	4	4	50	-	-	2
10	SI 762 CE	Summer Internship	-	-	-	-	50	-	-	2
			21	02	06	29	335	540		26

Open Elective – II			Open Elective – III		
S. No.	Course Code	Course Title	S. No.	Course Code	Course Title
1	OE 771 CE**	Green Building Technologies	1	OE 781 CE**	Road Safety Engineering
2	OE 772 CS	Data Science Using R Programming	2	OE 782 IT	Software Engineering
3	OE 773 EC	Fundamentals of IoT	3	OE 783 EC	Principles of Electronic Communications
4	OE 774 EE	Non-Conventional Energy Sources	4	OE 784 EE	Illumination and Electric Traction systems
5	OE 775 ME	Entrepreneurship	5	OE 785 ME	Mechatronics

PC: Professional Course

PE: Professional Elective

L: Lectures

T: Tutorials

P: Practical

D: Drawing

CIE: Continuous Internal Evaluation

SEE: Semester End Examination (Univ. Exam)

Note: 1) Each contact hour is a Clock Hour

2) The practical class can be of two and half hour (clock hours) duration as per the requirement of a particular laboratory.

Note-2: * The students have to undergo a Summer Internship of four weeks' duration after VI semester and credits will be awarded in VII semester after evaluation.

** Subject is not offered to the students of Civil Engineering Department.

SCHEME OF INSTRUCTION & EXAMINATION
B.E. VIII - SEMESTER
(CIVIL ENGINEERING)

S. No.	Course Code	Course Title	Scheme of Instruction				Scheme of Examination			Credits
			L	T	P/D	Contact Hrs/Wk	CIE	SEE	Duration in Hrs	
Theory Courses										
1	PC 801 CE	Construction Management & Technology	3	-	-	3	30	70	3	3
2		Professional Elective – III	3	-	-	3	30	70	3	3
3		Professional Elective – IV	3	-	-	3	30	70	3	3
4		Professional Elective – V	3	-	-	3	30	70	3	3
5	MC 901 EG	Gender Sensitization	3	-	-	3	30	70	3	-
Practical/ Laboratory Courses										
6	PW 961 CE	Project Work – II	-	-	16	16	50	100	-	8
7		Mandatory Course	-	-	3	3	50	-	3	-
			15	-	19	34	250	450		20

Professional Elective – III			Professional Elective – IV		
S. No.	Course Code	Course Title	S. No.	Course Code	Course Title
1	PE 821 CE	Retrofitting and Rehabilitation of Structures	1	PE 831 CE	Structural Dynamics
2	PE 822 CE	Computer Aided Analysis and Design	2	PE 832 CE	Design with Geosynthetics
3	PE 823 CE	Applied Hydrology	3	PE 833 CE	Groundwater Management
4	PE 824 CE	Introduction to Climate Change	4	PE 834 CE	Intelligent Transportation Systems
Professional Elective – V			Mandatory Course		
1	PE 841 CE	Prefabrication Engineering	1	MC 951 SP	Yoga Practice
2	PE 842 CE	Principles of Green Building Practices	2	MC 952 SP	NSS
3	PE 843 CE	Advanced Reinforced Concrete Design	3	MC 953 SP	Sports
4	PE 844 CE	Traffic Engineering & Infrastructure Design			

PC: Professional Course

PE: Professional Elective

L: Lectures

T: Tutorials

P: Practical

D: Drawing

CIE: Continuous Internal Evaluation

SEE: Semester End Examination (Univ. Exam)

Note: 1) Each contact hour is a Clock Hour

2) The duration of the practical class is two clock hours, however it can be extended wherever necessary, to enable the student to complete the experiment