

ANDHRA PRADESH STATE COUNCIL OF HIGHER EDUCATION
Implementation of CBCS in Undergraduate Colleges in Andhra Pradesh
GUIDELINES

As the universities are aware, a review of the syllabi implemented from 2015-16 under CBCS was taken up by the APSICHE based on the feedback received and as per the UGC guidelines. The review was made for a few select subjects that are common in colleges, i.e., Mathematics, Physics, Computer Sci/IT, Chemistry, Botany, Zoology (BSc), Economics, History, Political Science, Public Administration (BA) and English and Telugu (Language subjects). The syllabi of B.Com., BBA and BCA, and Foundation Courses were also reviewed. The universities were requested to do a similar exercise in respect of other subjects. In fact, no significant changes were made in the syllabi of the first two years (first four semesters) in most of the subjects.

The review was intended to rectify mistakes and to reduce the excess load, if any, in case of core papers. Further, Syllabi for Electives in various subjects were to be prepared. Another task was preparation of syllabi for Degree Honours Programmes. The APSICHE, therefore, constituted subject review committees and got the tasks completed in April, 2016. The revised (modified) syllabi were communicated to universities and requested them to keep the syllabi on their websites inviting suggestions from the colleges.

The final version of the revised (modified) syllabi for all the three years are being sent to all the universities to be implemented from 2016-17 along with these guidelines.

The following guidelines may be followed in the implementation of CBCS framework and syllabi from the academic year 2016-17. The implementation year, however, remains as 2015-16.

1. The slightly revised framework of CBCS is being sent to all universities and the same is to be implemented from 2016-17. Foundations courses were a little reshuffled based on feedback. Two Skill Development Courses in V and VI Semesters (to be designed by the respective universities) were dispensed with. Now there are only 10 Foundation Courses.
2. The syllabi of the common subjects in BA and BSc were reviewed for rectifications and the reviewed final syllabi for all the three years are being sent to all the universities, along with these guidelines. The common subjects are, Mathematics, Physics, Computer Sci/IT, Chemistry, Botany, Zoology (BSc), Economics, History, Political Science, Public Administration, Special English, Special Telugu (BA), and B.Com, BBA and BCA. These reviewed syllabi are to be implemented by the universities from 2016-17. The final syllabi of General English and General Telugu (Language subjects) were already communicated (there is no change in General Telugu of 2015-16).
3. Similarly, reviewed and rectified syllabi of Foundation Courses are also being sent to the universities for implementation from 2016-17.
4. Regarding the Electives (in the VI Semester), the following guidelines are to be followed.
 - a. Papers VII and VIII will be Electives for any domain subject and both the papers will be offered in the same VI Semester of the final year (except in B.Com and BBA where the old pattern (VI and VIII papers are Electives) was retained).
 - b. At Paper -VII, a student will pursue three Electives respectively belonging to the three domain subjects. For example, an MPC student will study one each Elective from Mathematics, Physics and Chemistry as individual Elective paper VII. He/she will choose from the multiple individual Electives offered for each subject.

- c. Whereas, as Paper -VIII, the student will study all the three papers as a cluster from the same subject (one of the three subjects). These three papers will cover a wide stream and will give a wider learning experience to the students. For example, as Paper -VIII, an MPC student will pursue all the three papers belonging to Physics (VIII-A-1,2&3 or VIII-B-1,2&3 or....) from out of alternate Clusters of Electives of Physics and will not study Mathematics and Chemistry. Each Cluster will have three Electives.
 - d. The universities have to accommodate the above facility to all students in all colleges.
 - e. The list of Electives and cluster Electives for each subject, along with their syllabi, for Papers VII & VIII will be displayed in the websites of all universities and that of APSCHE.
 - f. The colleges may choose the Electives for Papers VII and Clusters for paper VIII depending on the local needs in terms of students' local employability and those chosen Electives can be offered in the college.
 - g. A college may offer one or more Electives for each subject depending the availability of facilities, teachers and local expertise/opportunities. The selection of Electives may be at the college level and even at the student level if the colleges can afford suitable staff and facilities. The universities may be obliged to consider the choice of the college/students.
 - h. Further, a college may identify its own novel and useful Electives, prepare syllabi/curricula, in consultation with the affiliating university, and offer the same to its students after the approval of the affiliating university concerned.
 - i. The Electives of VI Semester (in case of V & VI in B.Com) may be treated as 'specialisation' and the title of the 'stream' may be mentioned in the provisional pass certificate of BA/BCom/BSc students.
 - j. In respect of B.Com. with papers of 'Computer Applications' as Electives in V&VI Semesters in the V and VI Semesters, the respective universities may permit the colleges to collect additional fee for meeting the additional expenses.
5. In respect of all the other subjects (other than the select common subjects mentioned above for which APSCHE has reviewed the syllabi), the universities may themselves prepare the syllabi in the CBCS Framework given including Electives and Cluster Electives.
 6. All the universities and colleges shall follow the spirit and advantages of CBCS pattern and utilize it to a maximum extent for the benefit of the student and society. The separation of syllabus into Core and Electives and the facility of 'choice' to the student under CBCS are to be effectively utilized, especially in offering useful and skill/job-oriented Electives in multiple numbers, including the utilizing the local resources and opportunities.
 7. The Universities are requested to limit their syllabi of PG Entrance Tests to the Six Core papers of the respective subject. The Electives are intended to enhance the job/work oriented experience, knowledge and skills in the local, regional or global contexts.
 8. The effective implementation of the spirit of CBCS will enhance the much desirable competencies of degree students.
 9. The full cooperation of universities is sought in all the above matters.

ANDHRA PRADESH STATE COUNCIL OF HIGHER EDUCATION

Implementation of CBCS in Undergraduate Colleges in Andhra Pradesh

GUIDELINES FOR PREPARATION OF SYLLABI FOR THE OTHER REMAINING SUBJECTS

Semester system and Choice Based Credits System (CBCS) were introduced in all degree programmes in all affiliated undergraduate colleges in the State in 2015-16. Based on the feedback, the APSCHE took up and completed the review of the syllabi of 15 common subjects and three programmes in April, 2016. The APSCHE also got prepared syllabi for Electives and Cluster Electives (III Year) for these subjects/programmes. The revised syllabi and syllabi prepared for Electives of these subjects and programmes were communicated to the universities on 31, May 2016 for implementation from 2016-17. The common subjects are, Mathematics, Physics, Electronics, Computer Sci/IT, Chemistry, Botany, Zoology (BSc), Economics, History, Political Science, Public Administration, Special English, Special Telugu (BA), General English and General Telugu (Language subjects). The three programmes are B.Com, BBA and BCA. The syllabi of the Foundation Courses were also revised and communicated.

The universities were requested to do a similar exercise, at their level, in respect of all the other remaining subjects (other than the above common subjects) like Microbiology, Biochemistry, Biotechnology, Sociology, Social work, Special Hindi, Special Urdu etc. The following are a few guidelines for the purpose. The need to get the syllabi of Electives/Cluster Electives also prepared for these remaining subjects.

1. The following format (with core and elective papers) has been used for the Domain (Discipline) Specific Subjects (Course) in case of all the common subjects. The same format shall be used for the other remaining subjects.

Table-1: Format for Subjects without Practical component;

<i>Year</i>	<i>Semester</i>	<i>Paper</i>	<i>Category</i>	<i>Hrs/wk</i>	<i>Credits</i>	<i>Marks</i>	<i>Internal</i>	<i>External</i>
1	I	I	Core	5	4	100	25	75
	II	II	Core	5	4	100	25	75
2	III	III	Core	5	4	100	25	75
	IV	IV	Core	5	4	100	25	75
		V	Core	5	4	100	25	75

3	V	VI	Core	5	4	100	25	75
	VI	VII	Elective (A) or (B) or (C)	5	4	100	25	75
		VIII	Cluster Electives (A1+A2+A3) or (B1+B2+B3) Or (C1+C2+C3)	5	4	100	25	75
				5	4	100	25	75
				5	4	100	25	75

*A-3 or B-3 or C-3 may be Project work/Internship

Table-2: Format for Subjects with Practical Component;

Year	Semester	Paper	Nature	Hrs/Wk	Credits	Marks	Exams			
							Int	Ext		
I	I	I	Core	4	3	100	25	75		
			Lab	2	2	50	-	50		
	II	II	Core	4	3	100	25	75		
			Lab	2	2	50	-	50		
II	III	III	Core	4	3	100	25	75		
			Lab	2	2	50	-	50		
	IV	IV	Core	4	3	100	25	75		
			Lab	2	2	50	-	50		
III	V	V	Core	3	3	100	25	75		
			Lab	2	2	50	-	50		
		VI	VI	Core	3	3	100	25	75	
				Lab	2	2	50	-	50	
	VI	VII	VII	Electives	3	3	100	25	75	
				Elective (A)	2	2	50	-	25	
				Lab or Elective (B)						
				Lab or Elective (C)						
		VIII	VIII	VIII	Cluster Electives - A	3	3	100	25	75
					Paper VIII-A-1	3	3	100	25	75
					Paper VIII-A-2	3	3	100	25	75
					Paper VIII-A-3	2	2	50	-	50
				Lab-1	2	2	50	-	50	
				Lab-2	2	2	50	-	50	
			Lab-3 or Project Work							
			Cluster Electives-B or Cluster Electives-C							

2. All the core syllabus of the subject shall be completed in the six Core papers distributed in the first five semesters. Papers VII and VIII will be Electives.
3. The core papers introduced in 2015-16 may be reviewed, if necessary, to rectify mistakes and to reduce the excess load, if any.
4. The Universities shall prepare the syllabi for Electives and Cluster Electives in various subjects themselves on the lines of the common subjects and as mentioned below.
 - a. Papers VII and VIII will be Electives for any domain subject and both the papers will be offered in the same VI Semester of the final year.
 - b. At Paper -VII, a student will pursue three Electives one each from the three domain subjects. For example, an MPC student will study one each Elective from Mathematics, Physics and Chemistry as individual Elective paper VII. He/she will choose from the multiple individual Electives offered for each subject. It is desirable that atleast three alternate Electives are offered in each domain subject.
 - c. Whereas, as Paper -VIII, the student will study a Cluster of three Electives in one domain subject instead of one Elective from each domain as in Paper-VII. Each cluster will contain all the three papers from the same subject. While each domain subject offers Cluster Electives the college/student will choose one of the domain subjects based on the faculty and other resources. These three papers will cover a stream and will give a wider learning experience to the students. For example, as Paper -VIII, an MPC student will pursue all the three papers belonging to Physics (VIII-A-1,2 &3 or VIII-B-1,2&3 or...) from out of alternate Clusters of Electives of Physics and will not study Mathematics and Chemistry. Or he/she studies only Mathematics and not Physics and Chemistry and so on. However, if a college has the required faculty and facilities it can offer clusters belonging to all the three domain subjects to their students. In such a case, some students study Mathematics Cluster, some other students Physics Cluster and the remaining students Chemistry Cluster.
 - d. The Universities have to accommodate the facility of studying Cluster Electives in all colleges designing appropriate examination schedules.

- e. The list of Electives and Cluster Electives for each subject, along with their syllabi, for Papers VII & VIII shall be displayed in the websites of all universities to be chosen by the colleges.
 - f. The colleges will choose the Electives for Papers VII & and Clusters for paper VIII and those Electives will be offered in the college.
 - g. The selection of Electives may be at the college level and even at the student level if the colleges can afford suitable staff and facilities. The universities shall be obliged to consider the choice of the college/students.
 - h. Further, a college may identify its own novel and useful or locally relevant Electives, prepare syllabi/curricula, in consultation with the affiliating university or local experts, and offer the same to its students after the approval of the affiliating university concerned. They can have internship arrangement also.
5. All the universities and colleges shall follow the spirit and advantages of CBCS pattern and utilize it to a maximum extent for the benefit of the student and society. The separation of syllabus into Core and Electives and the facility of 'choice' to the student under CBCS are to be effectively utilized, especially in offering useful and skill/job-oriented Electives in multiple numbers, utilizing the local resources and opportunities.
 6. As per the UGC Guidelines, the course (paper) curriculum should define learning objectives and learning outcomes. Further, a course (paper) shall contain, apart from Lectures, tutorials/laboratory work/field work/outreach activities/ project work/ vocational training/ viva/ seminars/ term papers/ assignments/ presentations/ self-study etc. or a combination of these as a part of curriculum. This is also applicable to Core papers for promoting domain skills. Hence, the curriculum of each paper shall be designed accordingly.
 7. The Universities are requested to limit their syllabi of PG Entrance Tests to the Core papers. The Electives are intended to enhance the job/work oriented experience, knowledge and skills in the local, regional or global contexts.

8. The effective implementation of the spirit of CBCS will enhance the much desirable competencies of degree students.
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