



**PES's**  
**Modern College of Arts, Science and Commerce, Ganeshkhind, Pune-411016 (Autonomous)**  
**PES's**

**Criterion-1- Curricular Aspects**

**1.3.1- List and Description of Courses addressing Cross Cutting Issues in Curriculum**

Sr.No.	Course Name	Description	Link
1	TYBSc (Biotechnology)- Summer Industrial Internship/Startup Design or case study and Biosafety, Bioethics and IPR.	The curriculum of Biotechnology department includes subjects related to Professional Ethics at third year level viz. Summer Industrial Internship/Startup Design or case study and Biosafety, Bioethics and IPR.	<a href="https://www.moderncollegegk.org/pdf/All_Syllabus/2019%20Pattern/T.Y.B.Sc.%20(Biotechnology)%202019.pdf">https://www.moderncollegegk.org/pdf/All_Syllabus/2019%20Pattern/T.Y.B.Sc.%20(Biotechnology)%202019.pdf</a>
2	T.Y.B.Sc.(Physics)-PV solar system course	At T.Y.B.Sc. (Physics) ,PV Solar System course includes use of solar energy as renewable energy. Solar energy is environment friendly and is available in ample form in India. The students get basic knowledge about design and functioning of PV solar panels. This can be useful to them to take up job or be an entrepreneur. The use of this energy helps in protecting environment as it is clean and also available free of cost.	<a href="https://www.moderncollegegk.org/pdf/All_Syllabus/2019%20Pattern/T.Y.B.Sc.(Physics)%202019.pdf">https://www.moderncollegegk.org/pdf/All_Syllabus/2019%20Pattern/T.Y.B.Sc.(Physics)%202019.pdf</a>
3	T.Y.B.Sc.(Chemistry) Environmental Chemistry Sem V	Curricula addresses the issue of environment through Water pollution and treatment methods.	<a href="https://www.moderncollegegk.org/pdf/All_Syllabus/2019%20Pattern/T.Y.B.Sc.%20(Chemistry)_2021.pdf">https://www.moderncollegegk.org/pdf/All_Syllabus/2019%20Pattern/T.Y.B.Sc.%20(Chemistry)_2021.pdf</a>
4	F.Y B.A English	The syllabus for first year bachelor of Arts comprises of texts that focus on human values, sentiments and emotions. The short stories and poems by renowned writers try to promote the values of humanity and universal brotherhood	<a href="https://www.moderncollegegk.org/viewSyllabus_Autonomous.php">https://www.moderncollegegk.org/viewSyllabus_Autonomous.php</a>
5	S.Y.B.Sc.Blended Chemistry- Environment sustainability	Our students :Omkar Khapre, Gayatri Dharmadhikari, Gargi Bhise and Samiksha Tambe, Purva Kharade, Aniket Rak, Kishori More, , Prerana Dwivadi, Shubham Karkar and Rutuja Uttekar are involved in Ram nadi River restoration project which is in collaboration with Kirloskar Vasundhara.	<a href="https://www.moderncollegegk.org/pdf/All_Syllabus/2019%20Pattern/B.%20Sc.%20Blended%20%20%20Sem%20I%20to%20Sem%20IV%20%202019.pdf">https://www.moderncollegegk.org/pdf/All_Syllabus/2019%20Pattern/B.%20Sc.%20Blended%20%20%20Sem%20I%20to%20Sem%20IV%20%202019.pdf</a>
6	T.Y B.A History Research Project	Our syllabus covering social movement, gender issues,marginalization process in history make student aware and sensitized on the societal issues as well as contemporary natural and medical disaster too. TYBA research project and multiple subjects related assignments inculcate the values of Education, awareness about society,cooperation etc. Because,students are getting sensitized on Social, gender -discrimination, nationalistic feelings and constitutional values ,they choose to work in Nongovernmental organizations, social work and environment related organizations. They are volunteering multiple college level activities. Like celebration of the centenary, birth anniversaries of our National heroes and social Reformers, Cultural Program and one act play. Through all these activities human values are inculcated in them.Subject related assignments inculcate the values of Education, awareness about society, and co-operation etc. Students are also getting sensitized on Social, gender - discrimination and constitutional Valuesrelated topics through syllabus. They are volunteering multiple college level activities like celebration of the centenary, birth anniversaries of our National heroes and social Reformers, Cultural Program and one act play. Though all these activities the human values are inculcated in them.	<a href="https://www.moderncollegegk.org/pdf/All_Syllabus/2019%20Pattern/TYBA%20History%20Syllabus%202019.pdf">https://www.moderncollegegk.org/pdf/All_Syllabus/2019%20Pattern/TYBA%20History%20Syllabus%202019.pdf</a>
7	Foundation of Psychology	Women and Child Psychology have been included in the syllabus of Foundations of Psychology so that students understand the intersectionality between Gender and Psychology. In the subject Introduction to Social Psychology Gender Role Development has been included to give and understanding to the concept of hoe Gender plays an important role in development of gender identity.	<a href="https://www.moderncollegegk.org/pdf/All_Syllabus/Autonomous_Syllabus/Arts/UG/FY%20Psychology%20Autonomous%20Syllabus%202022-23.pdf">https://www.moderncollegegk.org/pdf/All_Syllabus/Autonomous_Syllabus/Arts/UG/FY%20Psychology%20Autonomous%20Syllabus%202022-23.pdf</a>
8	Introduction to Psychology	Environmental Psychology has been included in the syllabus to stress on the importance of the relationship of humans and the physical and psycho social environment around them.	<a href="https://www.moderncollegegk.org/pdf/All_Syllabus/Autonomous_Syllabus/Arts/UG/FY%20Psychology%20Autonomous%20Syllabus%202022-23.pdf">https://www.moderncollegegk.org/pdf/All_Syllabus/Autonomous_Syllabus/Arts/UG/FY%20Psychology%20Autonomous%20Syllabus%202022-23.pdf</a>
9	Introduction to Psychology	In Introduction to Social Psychology topics and themes revolving around Social Inclusion, Aggression, Pro Social Behaviour, Emotional Intelligence have been included in the syllabus.	<a href="https://www.moderncollegegk.org/pdf/All_Syllabus/Autonomous_Syllabus/Arts/UG/FY%20Psychology%20Autonomous%20Syllabus%202022-23.pdf">https://www.moderncollegegk.org/pdf/All_Syllabus/Autonomous_Syllabus/Arts/UG/FY%20Psychology%20Autonomous%20Syllabus%202022-23.pdf</a>
10	TYBA (Political Science)- Political Ideologies	Curriculum have a unit on Feminism that emphasized on Gender and equality	<a href="https://www.moderncollegegk.org/pdf/All_Syllabus/2019%20Pattern/TYBA%20Political%20Science%202019.pdf">https://www.moderncollegegk.org/pdf/All_Syllabus/2019%20Pattern/TYBA%20Political%20Science%202019.pdf</a>
11	T.Y.B.Sc.(Physics)-SEM II - Electroacoustics and Entertainment Electronics course	Electroacoustics and Entertainment Electronics course has a topic on environmental noise reduction in its curriculum.	<a href="https://www.moderncollegegk.org/pdf/All_Syllabus/2019%20Pattern/T.Y.B.Sc.(Physics)%202019.pdf">https://www.moderncollegegk.org/pdf/All_Syllabus/2019%20Pattern/T.Y.B.Sc.(Physics)%202019.pdf</a>

  
  
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 & Commerce, Ganeshkhind, Pune-16.

12	T.Y. BSc. (Microbiology) (2019 pattern) Semester I-Skilled Base Elective MB 3610 Marine Microbiology	Skilled Base Elective MB 3510 Marine Microbiology course has topic on :Bioremediation – heavy metals, hydrocarbon pollutants – tar ball and oil spills which addresses environment issue.	<a href="https://www.moderncollegegk.org/pdf/All_Syllabus/2019%20Pattern/T.Y.B.Sc.%20%20%20(Microbiology)%202019.pdf">https://www.moderncollegegk.org/pdf/All_Syllabus/2019%20Pattern/T.Y.B.Sc.%20%20%20(Microbiology)%202019.pdf</a>
13	T.Y. BSc. (Microbiology) (2019 pattern) Semester I-Skilled Base Elective Skilled Base Elective MB 3610 Waste Management Theory	Skilled Base Elective Skilled Base Elective MB 3610 Waste Management Theory has topics on: liquid waste management. solid and hazardous waste management	<a href="https://www.moderncollegegk.org/pdf/All_Syllabus/2019%20Pattern/T.Y.B.Sc.%20%20%20(Microbiology)%202019.pdf">https://www.moderncollegegk.org/pdf/All_Syllabus/2019%20Pattern/T.Y.B.Sc.%20%20%20(Microbiology)%202019.pdf</a>
14	TYBA Psychology: DSE1 D3 Experimental Psychology theory	The course addresses (Professional Ethics) in Scientific Method topic.	<a href="https://www.moderncollegegk.org/pdf/All_Syllabus/2019%20Pattern/TYBA%20Psychology%202019.pdf">https://www.moderncollegegk.org/pdf/All_Syllabus/2019%20Pattern/TYBA%20Psychology%202019.pdf</a>
15	TYBA History-Introduction to Historiography & Applied history	The course addresses Human Values in syllabus.	<a href="https://www.moderncollegegk.org/pdf/All_Syllabus/2019%20Pattern/TYBA%20History%20Syllabus%202019.pdf">https://www.moderncollegegk.org/pdf/All_Syllabus/2019%20Pattern/TYBA%20History%20Syllabus%202019.pdf</a>
16	TYBA History-Maharashtra in 19th Century & Maharashtra in 20th Century	The course addresses Human Values in syllabus.	<a href="https://www.moderncollegegk.org/pdf/All_Syllabus/2019%20Pattern/TYBA%20History%20Syllabus%202019.pdf">https://www.moderncollegegk.org/pdf/All_Syllabus/2019%20Pattern/TYBA%20History%20Syllabus%202019.pdf</a>
17	TYBA History-South Indian Art & architecture & Heritage Management	The course addresses Human Values, Professional Ethics, Environment and Sustainability	<a href="https://www.moderncollegegk.org/pdf/All_Syllabus/2019%20Pattern/TYBA%20History%20Syllabus%202019.pdf">https://www.moderncollegegk.org/pdf/All_Syllabus/2019%20Pattern/TYBA%20History%20Syllabus%202019.pdf</a>
18	T.Y.B.Sc.(Comp. Science) Sem VI SECC - IV CS-3611 Project Work	This curricula build professional skills amongst students as they develop skills in drawing diagrams explaining the system using Entity Relationship Diagram , Data Flow Diagram , Use case diagrams and Class Diagrams.	<a href="https://www.moderncollegegk.org/pdf/All_Syllabus/2019%20Pattern/T.Y.B.Sc.%20(Computer%20Science)%202019%20pattern%20CBCS.pdf">https://www.moderncollegegk.org/pdf/All_Syllabus/2019%20Pattern/T.Y.B.Sc.%20(Computer%20Science)%202019%20pattern%20CBCS.pdf</a>
19	T.Y.B.A. (Sociology) Sem V Contemporary Indian Society	Curricula addresses gender values by highlighting Indian Democracy – its nature, strengths and weaknesses	<a href="https://www.moderncollegegk.org/pdf/All_Syllabus/2019%20Pattern/TYBA%20Sociology%20Syllabus%202019%20Pattern.pdf">https://www.moderncollegegk.org/pdf/All_Syllabus/2019%20Pattern/TYBA%20Sociology%20Syllabus%202019%20Pattern.pdf</a>
20	T.Y.B.A. (Geography) Disaster Management Sem V and Sem VI	Curricula addresses environmental issues like Geographical conditions and disasters	<a href="https://www.moderncollegegk.org/pdf/All_Syllabus/2019%20Pattern/TYBA%20(Geography)_2019.pdf">https://www.moderncollegegk.org/pdf/All_Syllabus/2019%20Pattern/TYBA%20(Geography)_2019.pdf</a>
21	T.Y.B.A. (Sociology) Introduction to Human Rights and Social Justice sem VI	Curricula addresses Human values through the topics Basic Concepts and Emerging Issues of Human Rights and Social Justice.	<a href="https://www.moderncollegegk.org/pdf/All_Syllabus/2019%20Pattern/TYBA%20Sociology%20Syllabus%202019%20Pattern.pdf">https://www.moderncollegegk.org/pdf/All_Syllabus/2019%20Pattern/TYBA%20Sociology%20Syllabus%202019%20Pattern.pdf</a>
22	T.Y.B.A. (Sociology) Indian Society Changes and Challenges Sp. Paper IV Sem VI	Addresses Civic Issues: Transport and Water, Garbage, Pollution, and Slums.	<a href="https://www.moderncollegegk.org/pdf/All_Syllabus/2019%20Pattern/TYBA%20Sociology%20Syllabus%202019%20Pattern.pdf">https://www.moderncollegegk.org/pdf/All_Syllabus/2019%20Pattern/TYBA%20Sociology%20Syllabus%202019%20Pattern.pdf</a>




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