

UNIVERSITY GRANTS COMMISSION
BAHADURSHAH ZAFAR MARG
NEW DELHI 110002

REPORT OF THE INSPECTION COMMITTEE ON ITS VISIT TO SHOOLINI UNIVERSITY OF BIOTECHNOLOGY AND MANAGEMENT SCIENCES (A PRIVATE UNIVERSITY), SOLAN DISTRICT, HIMACHAL PRADESH FROM 18TH TO 19TH OCTOBER, 2010.

I. **Background of the University:**

Shoolini University of Biotechnology and Management Sciences was founded and established under the aegis of the Foundation for Life Sciences and Business Management as a private University by an Act of the Legislative Assembly of Himachal Pradesh vide Notification No. EDN-A-Gha(8)-10/2006 dated 15th October, 2009.

The Foundation for Life Sciences and Business Management (FLSBM) is a registered Society having its registered office at the Anand Campus, The Mall Road, Solan, Himachal Pradesh. The Foundation initiated its educational venture in 2003-04 by setting up the Shoolini Institute of Life Sciences and Business Management, affiliated to Himachal Pradesh University. In a short span of seven years, it has become a premier Institute of Science in general and Biotechnology in particular.

Vision of the University: The vision of the University is to be amongst the top 3 National Centers in academics and research in its area of specialty – Biotechnology, management sciences and related fields.

Mission of the University: The mission of the University is to provide students with an opportunity to learn and interact with top most experts in their fields of expertise. The University's model is to blend expertise in biosciences with the principles and practices of business management and create exceptionally skilled human resource for future leadership positions in biotechnology, pharmaceutical, food technology as well as specialized BPO and research companies.

Objectives of the University: The objectives of the University are to: a) encourage and foster research and development in conserving, managing and harnessing the biodiversity of the Himalayas by the application of location specific technologies; b) integrate biotechnology, basic and applied sciences, engineering and management sciences for developing technologies relevant for the Himalayan economy; c) develop human resources in these disciplines i.e. biotechnology, basic and applied sciences, engineering and management sciences; and d) provide industry relevant education at an affordable cost to students of Himachal Pradesh and neighboring states.

To achieve these goals, the University is proactively building faculty, infrastructure and developing an atmosphere where students acquire relevant skills and deep domain knowledge. It is envisaged that the University over time develops on a research driven model.

At present, the University has a total of five Faculties (Faculty of Biotechnology, Faculty of Sciences, Social Sciences & Languages, Faculty of Engineering and Technology, Faculty of Management Sciences and Faculty of Pharmaceutical Sciences). All these faculties offer undergraduate and postgraduate courses.

The details of the courses being offered by five Faculties are as under:

1. Faculty of Biotechnology:

- 4 year B.Tech (Biotechnology) jointly with faculty of Engineering and Technology.
- 4 year B.Tech (Food Technology) jointly with Faculty of Engineering
- 2 year M.Tech (Biotechnology) jointly with faculty of Engineering and Technology
- 2 year M.Sc.Hons (Biotechnology and Microbiology)
- 1 year M.Phil (Biotechnology and Microbiology)
- 3 year Ph.D. (Biotechnology and Microbiology).

2. Faculty of Science, Social Sciences and Languages:

- 2 year M.Sc. (Physics, Chemistry and Environment Science and Climate Change)
- 1 year M.Phil (Physics, Chemistry, Botany, Environment Sc. and Zoology)
- 3 year Ph.D (Botany, Zoology and Chemistry)

3. Faculty of Pharmaceutical Sciences:

- 4 year B.Pharma
- 2 year M.Pharma (Pharmaceutics, Pharmacology, Pharmaceutical Chemistry, Quality Assurance, Pharmacognosy and Biotechnology).
- 3 year Ph.D.

4. Faculty of Engineering and Technology:

- 4 year B.Tech (Electronics and Communication, Computer Science & Engineering and Mechanical Engineering)

5. Faculty of Management Sciences:

- 3 year B.Com (Hons)
- 2 year MBA
- 2 year MBA Biotechnology (jointly with faculty of Biotechnology)
- 3 year Ph.D.

II. Composition of the Expert Committee:

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| 1. Prof Furqan Qamar, Vice Chancellor, Central University of Himachal Pradesh, Dharamshala, Distt Kangra (HP) | Chairman |
| 2. Dr T.R.Kem, Director, Consortium for Educational Communication, IUAC (NSC) Campus, New Delhi-110067 | Member |
| 3. Dr H.B.Walikar, Chairman, Department of Computer Science Karnataka University, Dharwad-500 003 | Member |
| 4. Prof M.R.Rajeshwari, Department of Biochemistry All India Institute of Medical Sciences (AIIMS) Ansari Nagar, New Delhi-110 029 | Member |
| 5. Prof P.K.Kotia, Head, Department of Economic & Financial Management, University of Rajasthan Jasipur-302 055 (Rajasthan) | Member |
| 6. Prof D.Chakraborty Principal, Institute of Pharmacy Kalyani, Nadia, West Bengal | Nominee of PCI |
| 7. Dr Shakeel Ahmad, Deputy Secretary, UGC New Delhi | Member-Secretary |

Prof. V.N. Gupchup, Former Pro-Vice-Chancellor, Mumbai University was nominated as the Nominee of the AICTE. Dates of meeting was fixed in consultation with the AICTE Nominee. But due to unfortunate severe illness of his wife on 15th October, 2010 and subsequent her admission in the ICU in Bombay, he had to cancel the visit. After getting this information from him over telephone, the AICTE officials were contacted to nominate some other person in place of Prof. V.N. Gupchup. Dr. S.K. Khemani, Director (Admn.), AICTE informed the Member-Secretary in the evening of 16th October, 2010 that in spite of their hard efforts, they could not find a nominee for the Expert Committee in the last moment.

Prof. Chandrakant Kokate, Vice-Chancellor, KLE Academy of Higher Education & Research, Belgaum was also nominated as UGC Member of the Expert Committee. But due to some other urgent work, he could not attend the meeting.

Prior to the actual assessment of the physical and academic infrastructure of the Shoolini University of Biotechnology and Management Sciences, Solan District, Himachal Pradesh, Prof. Furqan Qamar, Chairman and Dr Shakeel Ahmad, Member-Secretary of the Expert Committee briefed all the members about the purpose of the

visit. Members of the Expert Committee were asked to carry out the inspection in the light of the UGC (Establishment of and Maintenance of Standards in Private Universities) Regulations, 2003.

The members of the Expert Committee were received by the Vice- Chancellor (Prof P.K. Khosla), Members of the Board of Management, Registrar (Mr Ramanand Chauhan), Finance Officer, Controller of Examinations and Deans of the Faculties. After a brief introduction of the Expert Members, the Vice Chancellor of the University made a presentation on the background of the University, activities and programmes offered by the University. The vision and objectives of the University were shared with the members of the Expert Committee. After the presentation, a number of queries were raised by the Members of the Expert Committee. The queries and clarifications were satisfactorily addressed by the Vice Chancellor and other Statutory Officers. Thereafter, the Expert Committee visited all the physical infrastructure available with all the Faculties, supporting facilities like Central Library, Hostel, sports facilities, auditorium, open air theatre, health centre, yoga centre etc. The Committee also held a detailed discussion with the students, staff, members of the Board of Management and Governing Body.

The Inspection Report, based on the presentations made by the University Authorities, discussions with students, staff, members of the Board of Management and documents/information provided by the Registrar of the University, is as follows:

III. Inspection Report

| S.No. | | |
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| 1. | Name of the University with Notification No. & date of State Govt. | Shoolini University of Biotechnology and Management Sciences, Solan. Notification No.EDN-A-Gha(8)-10/2006 dated 15 th October, 2009 issued by the Principal Secretary (Hr. Education) to the Government of Himachal Pradesh (Annexure 'A'). |
| 2. | Registered office of the University | As per Sec.4(3) of the Act, the University shall situate and have its headquarters at village Bajhol, District Solan (HP). (A copy of the Act of the University is at Annexure 'B') |
| 3. | Name & Headquarters of the Society/Promoting Agency | Foundation for Life Sciences and Business Management, Solan, Himachal Pradesh, registered under the Societies Registration Act, 1860 (21 of 1860) with its Hqrs at Solan itself (A copy of the Certificate of Registration is at Annexure 'C'). |
| 4. | Whether the Society/Agency is involved in promoting/running any other University/Institution? If Yes, give details. | Yes. The Foundation is running an Institute-Shoolini Institute of Life Sciences and Business Management, located at Solan, which is affiliated to the Himachal Pradesh University, Shimla. Institute offers both undergraduate and |

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| | | postgraduate programmes such as M.Sc. in Biotechnology/Microbiology/Botany and B.Sc. (Hons.) in Biotechnology/Microbiology and Bachelor of Business Administration. |
| 5. | Territorial Jurisdiction | Himachal Pradesh |
| 6. | Date of Visit | 18 th and 19 th October, 2010 |
| 7. | Programmes permitted to be offered by Gazette Notification of State Govt and its reference. | <p>This University has been allowed to start the following courses as per para 2(17) of Letter No.EDN-A-Gha(8)-6/2006 dated 23rd April, 2010 from the Principal Secretary (Hr.Education) to the Govt of Himachal Pradesh (Annexure 'D'):</p> <p>I. Faculty of Biotechnology: 1.B.Tech. Biotechnology/Food Technology 2.M.Sc.(Hons) Biotechnology/Microbiology 3.M.Phil, Biotechnology/Microbiology 4.Ph.D. Biotechnology/Microbiology 5.MBA Biotechnology</p> <p>II.Faculty of Engineering & Technology: 1.B.Tech (Electronics & Communication/Computer Technology & Engineering/Mechanical) 2. M Tech Biotechnology</p> <p>III.Faculty of Management Sciences: 1.B.Com(Hons) 2.MBA General 3.MBA Biotechnology 4.Ph D</p> <p>IV.Faculty of Pharmaceutical Sciences: 1.B.Pharma 2.M.Pharma 3.Ph.D.</p> <p>V.Faculty of Science, Social Sciences and Languages: 1.M.Sc.Physics/Chemistry 2.M.Phil. Botany, Zoology, Chemistry 3.Ph.D. Botany, Zoology, Chemistry Biotechnology, Microbiology, Environment Management & Climate Change and Business Management</p> |
| 8. | Whether all documents requested by the Inspection Team were provided | Yes |

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| 9. | If no, what are the deficit documents (List to be enclosed) | NA |
| 10. | Whether administrative authorities like Governing Council, Academic Council & BOS formed | <p>Yes, the details are as under:</p> <p>I.Governing Body (Annexure 'E'):</p> <p>1.Shri Ramesh K.Mehan, Chancellor Chairman B.Sc.,BE,MSIE (Kansas State Univ),MBA(Dayton Univ) Professional and Industrialist, USA -</p> <p>2.Dr P.K.Khosla Member Vice Chancellor -</p> <p>3.Mrs Saroj Khosla Member MA B.Ed,ICE(Oxford) Retd Principal, DIET, Solan -</p> <p>4.Mr Vishal Anand Member BA Eco.Hons,MBA R/O Hari Bhavan, Solan -</p> <p>5.Mr Satish Anand Member B.Com. Businessman R/O Hari Bhavan, Solan -</p> <p>6.Mr Ashok Anand Member B.Com. Businessman R/O Hari Bhavan, Solan -</p> <p>7.Mr Ashish Khosla, Member BE, PEC, PGDM, IIM Calcutta, Vice President with a leading Bank in UAE -</p> <p>8.Mr Atul Khosla Member B.Tech.IIT Kanpur, MBA, Senior Partner & Country Head Oliver Wyman -</p> <p>9.Prof Ramanand Chauhan Member Registrar-cum-Member Secy -</p> |

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| | | <p>In addition to the above, two persons are yet to be nominated by the Government of Himachal Pradesh as per Sec.18(e) of the Act. Similarly two members of the State Legislative Assembly are also yet to be elected by the State Legislature as per Section 18(f) of the Act. University has requested the Principal Secretary (Hr.Education) to the Govt of Himachal Pradesh to do the needful.</p> <p>As per Section 18 of the Act, the Board of Management stands constituted as under:</p> <p>II.Board of Management (Annexure 'F'):</p> <p>1.Dr P.K.Khosla - Chairman Vice Chancellor</p> <p>Two members of the Governing Body, nominated by the sponsoring body:-</p> <p>1.Ms Saroj Khosla - Member MA B.Ed,ICE(Oxford) Retd Principal, DIET, Solan</p> <p>2.Mr Vishal Anand - Member BA Eco.Hons,MBA</p> <p>Three persons, who are not the members of the Governing Body, nominated by the sponsoring body:</p> <p>1.Ms Ashoo khosla - Member Resident of officers Colony Solan (HP)</p> <p>2.Ms Nishtha Shukla - Member Resident of Hari Bhavan Solan</p> <p>3.Dr S. C.Tewari - Member Professor of Eminence Shoolini University</p> <p>Three persons from amongst the teachers, nominated by the sponsoring body:</p> <p>1. Prof J.B.Nadda - Member Dean, Faculty of Management Sciences, Shoolini Univ, Solan</p> |
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| | | <p>2 .Dr Sunil Puri - Member Dean, Faculty of Basis Sciences Shoolini Univ. Solan</p> <p>3. Dr S.R.Prabhakar - Member Dean, Faculty of Engineering and Technology</p> <p>4.Prof Ramanand Chauhan - Member Secy Registrar, Shoolini University Solan</p> <p>III.Academic Council (Annexure 'G'):</p> <p>1.Dr P.K.Khosla - Chairman Vice Chancellor, Shoolini University</p> <p>2.Dr J.B.Nadda - Member Dean, Faculty of Management Sciences, Shoolini Univ. Solan</p> <p>3.Dr D.R.Sharma - Member Dean, Faculty of Biotech Shoolini Univ. Solan</p> <p>4. Dr Sunil Puri - Member Dean, Faculty of Basis Sciences Shoolini Univ. Solan</p> <p>5.Prof George Mathew - Member Dean, Faculty of Pharmacy Shoolini University, Solan</p> <p>6. Dr S.R.Prabhakar - Member Dean, Faculty of Engineering & Technology</p> <p>7. Dr S.C.Tewari - Member Dean, Academic Affairs</p> <p>8. Dr J.M.Julka - Member Dean, Planning & placement</p> <p>9. Shri Jagdish Chander - Member Librarian</p> <p>10. Mr Himanshu Monga - Member Assoc.Prof of Engg.&Tech.</p> <p>11.Dr Kamal Dev - Member</p> |
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| | | <p>Assoc Prof. of Biotechnology</p> <p>12.Prof S S Handa - Member Former Director CSIR Regional Research Laboratory Jammu</p> <p>13.Prof R C Mahajan - Member Professor Emeritus PGI Chandigarh</p> <p>14.Prof Ramanand Chauhan - Member Registrar-cum-Member Secy</p> <p>IV. Finance Committee (Annexure- 'H'):</p> <p>1. Dr P.K.Khosla, - Chairman Vice Chancellor</p> <p>2. Ms Nishtha Shukla - Member R/O Hari Bhavan, Solan</p> <p>3. Mrs Saroj Khosla - Member R/O Officers Colony, Solan</p> <p>4. Shri Ashok Anand - Member R/O Hari Bhavan, Solan</p> <p>5. Shri Atul Khosla - Member</p> <p>6.Shri Vishal Anand -Member Secy Chief Finance & A.O.</p> <p>In addition to the above, one member as Government Representative is also to be associated for which University has written to the Principal Secy (Higher Education) to the Government of HP.</p> |
| 11. | Source of finance and quantum of funds available | <p>The Foundation has raised a fund called "General Fund" comprising of contribution by promoters, revenue generated by students' fee, grant-in-aid from research projects and support from various donors in public and private sectors and loan from financial institutions.</p> <p>From fees (estimated) 2010-11 = 996 lacs From State Govt = Nil From UGC = Nil From other sources: = 180 lac Research and Training grants = 70 lacs</p> |

| | | <p>Sponsoring body = 1000 lacs Total quantum of fund available = 1730 lacs</p> <p>(Copy of the Proceedings of the 1st meeting of the Finance Committee at Annexure-I)</p> | | | | | | |
|---------|--|--|-------|--------|-------------|---------|-------------|-------------|
| 12. | Corpus Fund of the Society/Trust shown to the Inspection Team. | <p>Corpus worth rupees three crores, as per detail given below, has been created and pledged to the Government of Himachal Pradesh:</p> <p>1.FDR No.1835 for Rs 75,00,000/- 2.FDR No.1826 for Rs 75,00,000/- 3.FDR No.1817 for Rs 75,00,000/- 4.FDR No.1808 for Rs 75,00,000/- Total = Rs 3,00,00,000/-</p> <p>Original FDRs have been deposited in the office of the Principal Secretary (Education) to the Government of Himachal Pradesh vide this office letter No.SUMBS/10-2164-65 dated 25-02-2010 (Annexure 'J').</p> <p>Corpus with State Govt = 300 lacs FDR with AICTE (MBA, B.Pharma)= 30 lacs Bank balance: PNB, Solan = 734 lacs Total corpus fund =1180 lacs (Bank Statement attached at Annexure 'K')</p> | | | | | | |
| 13. | Statement of income and expenditure for the last 3 years (year-wise) | <p>University was established only one year back, therefore the Income and Expenditure statements for the last year is given below:</p> <table border="1"> <thead> <tr> <th>Years</th> <th>Income</th> <th>Expenditure</th> </tr> </thead> <tbody> <tr> <td>2009-10</td> <td>6,29,42,710</td> <td>5,46,22,978</td> </tr> </tbody> </table> <p>Copy of the audited Balance Sheet of the Income and Expenditure for the year 2009-10 of the University is annexed (Annexure 'L').</p> | Years | Income | Expenditure | 2009-10 | 6,29,42,710 | 5,46,22,978 |
| Years | Income | Expenditure | | | | | | |
| 2009-10 | 6,29,42,710 | 5,46,22,978 | | | | | | |
| 14. | (i) Land documents, if shown, area of land registered in the name of the University and its location in the State. | <p>a)Total land 54.13 bighas in the name of the University.</p> <p>b) 30 bighas in the name of the members of Foundation for Life Sciences and Business Management (in process with State Government for transfer in the name of the University)</p> <p>Total land available = 84.13 bighas Total land requirement as per guidelines issued by the Govt of Himachal Pradesh vide Notification No.EDN-A-Ka(3)-1/2008-Loose dated 4th</p> | | | | | | |

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| | <p>(ii) Deposits made in the name of Society/University, separately or jointly with state authorities.</p> | <p>December, 2008 is 50 bighas/100 canals (Copy of the guidelines is annexed at Flag 'M')</p> <p>The University is located at Bajhol on Solan-Oachghat-Sultanpur road (15 kms away from Solan) and it has 54.13 bighas of land spreading over khasra No.40/1,2, 45/9/2, 49/11, 51/12, 61/18,21,22,23/2, 24, 26, 27, 66/29, 30, 35, 28, 31, 58/16/2 area tadadi 70-15 ka 136/270 part area vakdar 35/14 bigha, 54/14, 60/17/3 area tadadi 8-15 bigha ka 106/175 part area vakdar 5-06 bigha, 50/12 ara 0-10 bigha ka 20/324 part area vakdar 0-02 bigha, 63/18/2 area 0-13 bigha, 15, 59/17 ara 7-15 bigha and 37/1 area 5-03 bigha at Mauja Bajhol, Tehsil and District Solan (Himachal Pradesh) as per permission granted by the HP Government vide letter No.Rev. B.F.(10)/170/2007 dated 15/06/07 from Commissioner cum Secretary (Revenue) HP Government. (Land documents annexed at Annexure 'N')</p> <p>The University has established a Corpus Fund and deposited a sum of Rs 300 lacs as per detail given below:-</p> <p>1.FDR No.1835 for Rs 75,00,000/- 2.FDR No.1826 for Rs 75,00,000/- 3.FDR No.1817 for Rs 75,00,000/- 4.FDR No.1808 for Rs 75,00,000/- Total = Rs 3,00,00,000/- (Rupees three crores)</p> <p>As already stated above, the FDRs have been deposited with the Govt of H.P. and a copy is already annexed at Annexure J.</p> |
| 15. | <p>Administrative Office details</p> <p>i) Total plinth area</p> <p>ii) Built up area</p> <p>iii) Separate offices for Vice Chancellor, Registrar, Financial Officer, Controller of Examination, Administrative Office, Committee Room, Students' waiting room etc.</p> | <p>Necessary detail is given below:</p> <p>1.Total plinth area = 750 sq m 2.Built up area = 700 sq m</p> <p>Separate offices for:</p> <p>a)Vice Chancellor = 60 sq m b)Registrar = 25 sq m c)Finance Officer = 25 sq m d)Controller of Examination = 25 sq m e)Administrative Office = 60 sq m f)Committee Room = 50 sq m g)Examination Store = 30 sq m Strong room = 12 sq m h)Students waiting room = 200 sq m</p> |

| | | <table border="1"> <thead> <tr> <th colspan="3">II.Faculty of Engineering and Technology</th> </tr> </thead> <tbody> <tr> <td>Class rooms</td> <td>6</td> <td>60 students each</td> </tr> <tr> <td>Tutorial</td> <td>3</td> <td>40 students each</td> </tr> <tr> <td>Seminar Hall</td> <td>1</td> <td>100 students</td> </tr> <tr> <td>e.room</td> <td>1</td> <td>60 students</td> </tr> <tr> <th colspan="3">III.Faculty of Business Management</th> </tr> <tr> <td>Class room</td> <td>3</td> <td>60 students each</td> </tr> <tr> <td>Tutorial</td> <td>3</td> <td>40 students each</td> </tr> <tr> <td>Seminar hall</td> <td>1</td> <td>60 students</td> </tr> <tr> <td>e. class room</td> <td>1</td> <td>60 students</td> </tr> <tr> <td>Meditation & Yoga Centre</td> <td>1</td> <td>120 students</td> </tr> <tr> <th colspan="3">IV.Faculty of Pharmaceutical Sciences</th> </tr> <tr> <td>Class room</td> <td>6</td> <td>60 students each</td> </tr> <tr> <td>Tutorial</td> <td>3</td> <td>40 students each</td> </tr> <tr> <td>Seminar hall</td> <td>1</td> <td>150 students</td> </tr> <tr> <td>Auditorium</td> <td>1</td> <td>250 students</td> </tr> <tr> <th colspan="3">V.Faculty of Science, Social Sciences and Languages</th> </tr> <tr> <td>Language Lab</td> <td>1</td> <td>60 students</td> </tr> <tr> <td>Classs room</td> <td>2</td> <td>40 students each</td> </tr> <tr> <td>Tutorial</td> <td>1</td> <td>20 students</td> </tr> </tbody> </table> | II.Faculty of Engineering and Technology | | | Class rooms | 6 | 60 students each | Tutorial | 3 | 40 students each | Seminar Hall | 1 | 100 students | e.room | 1 | 60 students | III.Faculty of Business Management | | | Class room | 3 | 60 students each | Tutorial | 3 | 40 students each | Seminar hall | 1 | 60 students | e. class room | 1 | 60 students | Meditation & Yoga Centre | 1 | 120 students | IV.Faculty of Pharmaceutical Sciences | | | Class room | 6 | 60 students each | Tutorial | 3 | 40 students each | Seminar hall | 1 | 150 students | Auditorium | 1 | 250 students | V.Faculty of Science, Social Sciences and Languages | | | Language Lab | 1 | 60 students | Classs room | 2 | 40 students each | Tutorial | 1 | 20 students | |
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| II.Faculty of Engineering and Technology | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Class rooms | 6 | 60 students each | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tutorial | 3 | 40 students each | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Seminar Hall | 1 | 100 students | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| e.room | 1 | 60 students | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| III.Faculty of Business Management | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Class room | 3 | 60 students each | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tutorial | 3 | 40 students each | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Seminar hall | 1 | 60 students | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| e. class room | 1 | 60 students | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Meditation & Yoga Centre | 1 | 120 students | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| IV.Faculty of Pharmaceutical Sciences | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Class room | 6 | 60 students each | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tutorial | 3 | 40 students each | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Seminar hall | 1 | 150 students | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Auditorium | 1 | 250 students | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| V.Faculty of Science, Social Sciences and Languages | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Language Lab | 1 | 60 students | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Classs room | 2 | 40 students each | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tutorial | 1 | 20 students | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 19. | No. of Laboratories, give details | <p>Detail of Laboratories is given below:</p> <table border="1"> <tbody> <tr> <td colspan="2">I.Faculty of Biotechnology:</td> </tr> <tr> <td>1.Proteomics & Molecular Biology</td> <td>- 1</td> </tr> <tr> <td>2.Genomics & Molecular Biology</td> <td>- 1</td> </tr> <tr> <td>3.Genetic Transformation</td> <td>- 1</td> </tr> <tr> <td>4.Microbiology undergraduate Lab</td> <td>- 1</td> </tr> <tr> <td>5.Industrial Biotechnology</td> <td>- 1</td> </tr> <tr> <td>6.Animal cell culture</td> <td>- 1</td> </tr> <tr> <td>7.Plant Biotechnology</td> <td>- 1</td> </tr> <tr> <td>8.Bioinformatics</td> <td></td> </tr> <tr> <td>9.Biotechnology-undergraduate Lab</td> <td>- 1</td> </tr> <tr> <td>10.Biochemistry (General)</td> <td>- 2</td> </tr> <tr> <td colspan="2">II.Faculty of Engineering & Technology:</td> </tr> <tr> <td>1.Digital Electronics Lab</td> <td>- 1</td> </tr> <tr> <td>2.Basic Electronics Lab</td> <td>- 1</td> </tr> <tr> <td>3.Analog Electronics & Simulation Lab</td> <td>-1</td> </tr> <tr> <td>4.Basic Electrical Engg. Lab</td> <td>- 1</td> </tr> <tr> <td>5.Biotechnology Lab</td> <td>- 1</td> </tr> <tr> <td>6.Physics Labs</td> <td>- 2</td> </tr> <tr> <td>7.Chemistry Labs</td> <td>- 2</td> </tr> <tr> <td>8.Drawing Hall</td> <td>- 1</td> </tr> </tbody> </table> | | I.Faculty of Biotechnology: | | 1.Proteomics & Molecular Biology | - 1 | 2.Genomics & Molecular Biology | - 1 | 3.Genetic Transformation | - 1 | 4.Microbiology undergraduate Lab | - 1 | 5.Industrial Biotechnology | - 1 | 6.Animal cell culture | - 1 | 7.Plant Biotechnology | - 1 | 8.Bioinformatics | | 9.Biotechnology-undergraduate Lab | - 1 | 10.Biochemistry (General) | - 2 | II.Faculty of Engineering & Technology: | | 1.Digital Electronics Lab | - 1 | 2.Basic Electronics Lab | - 1 | 3.Analog Electronics & Simulation Lab | -1 | 4.Basic Electrical Engg. Lab | - 1 | 5.Biotechnology Lab | - 1 | 6.Physics Labs | - 2 | 7.Chemistry Labs | - 2 | 8.Drawing Hall | - 1 | | | | | | | | | | | | | | | | | | | | |
| I.Faculty of Biotechnology: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.Proteomics & Molecular Biology | - 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2.Genomics & Molecular Biology | - 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3.Genetic Transformation | - 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4.Microbiology undergraduate Lab | - 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5.Industrial Biotechnology | - 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6.Animal cell culture | - 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7.Plant Biotechnology | - 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8.Bioinformatics | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9.Biotechnology-undergraduate Lab | - 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10.Biochemistry (General) | - 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| II.Faculty of Engineering & Technology: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.Digital Electronics Lab | - 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2.Basic Electronics Lab | - 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3.Analog Electronics & Simulation Lab | -1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4.Basic Electrical Engg. Lab | - 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5.Biotechnology Lab | - 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6.Physics Labs | - 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7.Chemistry Labs | - 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8.Drawing Hall | - 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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|-----|---|--|--|
| | | <p>9.Workshops</p> <p>a) Machine Shop = 1</p> <p>b) Welding Shop = 1</p> <p>c) Fitting Shop = 1</p> <p>d) Carpentry Shop = 1</p> <p>10.Computer Labs - 3</p> <p>11.Drawing Hall - 1</p> <p>12.E-Lab - 1</p> <p>13.Language Lab - 1</p> <p>III.Faculty of Business Management</p> <p>1.Language Lab</p> <p>2.e-Lab (MBA students are provided free Laptops)</p> <p>3.IT Lab</p> <p>IV.Faculty of Pharmacy</p> <p>1.Machine room - 1</p> <p>2.Central Instrumentation Lab - 1</p> <p>3.Computer Lab - 1</p> <p>4.Pharmaceutical Chemistry Labs - 3</p> <p>5.Pharmaceutical Analysis Lab - 1</p> <p>6.Pharmaceutics Labs - 4</p> <p>7.Pharmacognosy Labs - 3</p> <p>8.Quality Assurance Lab Lab - 1</p> <p>9.Pharmceutical Biotech Lab - 1</p> <p>V.Faculty of Science, Social Sciences & Language:</p> <p>1.Chemistry Labs - 3</p> <p>2.Physics Labs - 2</p> <p>3.Biology Research Lab - 1</p> <p>Common Labs:</p> <p>1.Computer Centre -1 (Business School)</p> <p>2.Instrumenation Lab -1(Pharmacy School)</p> <p>3.Herbarium & Museum -1(Biotech School)</p> <p>4.Tissue Culture Lab-1 (Pharmacy School)</p> <p>5.Languages Lab-2 (Pharmacy & Business Schools)</p> | |
| 20. | Whether students already admitted? If yes, details of courses and the number of students admitted in each course during the last three years. | <p>During the year 2009-10, this University admitted only 122 students in different programmes of study. Detail of the same is given below:</p> <p>1)BTech (Biotech & CS&E) = 40 students</p> <p>2)M.Sc.(Hons) Biotech & Micro = 11 students</p> <p>3)MBA = 24 students</p> <p>4)M.Pharma = 8 students</p> <p>5)M.Phil = 8 students</p> <p>6)Ph.D. = 31 students</p> <p>Total = 122 students</p> | |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------|---|--|-----------|----------------|-------------|---------------|----------------|---------------|------------------|---------------|------------------|---------------|-------------|---------------|-------------------|---------------|--------------------|---------------|------------------|---------------|-------------------|---------------|---------------------------|--------------|----------------------------|---------------|------------|---------------|-----------|---------------|--------------|-----------------------|
| | | <p>During the year 2010-11, the enrolment of students is as under:</p> <table> <tr><td>1) B.Tech</td><td>- 314 students</td></tr> <tr><td>2) B.Pharma</td><td>- 24 students</td></tr> <tr><td>3) B.Com(Hons)</td><td>- 22 students</td></tr> <tr><td>4) MBA (General)</td><td>- 50 students</td></tr> <tr><td>5) MBA (Biotech)</td><td>- 20 students</td></tr> <tr><td>6) M.Pharma</td><td>- 89 students</td></tr> <tr><td>7) M.Sc.Chemistry</td><td>- 70 students</td></tr> <tr><td>8) M.Sc. (Biotech)</td><td>- 72 students</td></tr> <tr><td>9) M.Sc. (Micro)</td><td>- 38 students</td></tr> <tr><td>10) M.Sc. Physics</td><td>- 12 students</td></tr> <tr><td>11) M.Sc. Environment Sc.</td><td>- 2 students</td></tr> <tr><td>12) M.Tech (Biotechnology)</td><td>- 11 students</td></tr> <tr><td>12) M.Phil</td><td>- 44 students</td></tr> <tr><td>13) Ph.D.</td><td>- 31 students</td></tr> <tr><td>Total</td><td>- 797 students</td></tr> </table> <p>Discipline-wise break-up of the students enrolled during 2009-10 and 2010-11 is given in Annexures Q-1 and Q-2.</p> | 1) B.Tech | - 314 students | 2) B.Pharma | - 24 students | 3) B.Com(Hons) | - 22 students | 4) MBA (General) | - 50 students | 5) MBA (Biotech) | - 20 students | 6) M.Pharma | - 89 students | 7) M.Sc.Chemistry | - 70 students | 8) M.Sc. (Biotech) | - 72 students | 9) M.Sc. (Micro) | - 38 students | 10) M.Sc. Physics | - 12 students | 11) M.Sc. Environment Sc. | - 2 students | 12) M.Tech (Biotechnology) | - 11 students | 12) M.Phil | - 44 students | 13) Ph.D. | - 31 students | Total | - 797 students |
| 1) B.Tech | - 314 students | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2) B.Pharma | - 24 students | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3) B.Com(Hons) | - 22 students | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4) MBA (General) | - 50 students | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5) MBA (Biotech) | - 20 students | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6) M.Pharma | - 89 students | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7) M.Sc.Chemistry | - 70 students | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8) M.Sc. (Biotech) | - 72 students | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9) M.Sc. (Micro) | - 38 students | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10) M.Sc. Physics | - 12 students | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11) M.Sc. Environment Sc. | - 2 students | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12) M.Tech (Biotechnology) | - 11 students | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12) M.Phil | - 44 students | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13) Ph.D. | - 31 students | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Total | - 797 students | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 21. | Whether any Off-Campus or Study/offshore Centre or Admission Centre/established outside the State/abroad. | No Off-Campus or Study Centre has been established by this University. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 22. | Whether functioning of the University has been computerized? If yes, to what extent? | <p>The University has a wi-fi campus along with a leased- line, radio-based 24 x 7 internet connectivity. The Computer labs offer thin client technology with IBM servers that support both Linux & Windows based environment. There are central as well as departmental IT facilities with over 250 nodes. In total there are 300 desk top computers. The University has purchased about 240 Laptops.</p> <p>The University has collaborated with Chalkpad for implementation of an ERP software on the campus. The software provides a transparent intranet/internet based interface for faculty, management, students and parents.</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 23. | a)Research & Extension Facility | <p>The following research and extension facilities have been created in the University to carry out the research and extension activities:</p> <p>i) A Central Instrumentation Lab has been established in the School of Pharmaceutical Sciences for research and analytical work.</p> <p>ii) Wi-fi Campus with adequate number of computers for online browsing of journals has been provided.</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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| | | <p>iii) e.labs have been established for improving communication skills of the students.</p> <p>iv) The Science Schools are provided with research labs which are adequately equipped. (List of equipments annexed at Annexure 'R')</p> <p>RESEARCH:</p> <p>i) The University has constituted a Research Advisory Committee headed by the Vice Chancellor of the University (Annexure 'S'). The University teachers are inspired to submit research projects to various funding bodies.</p> <p>ii) The thrust areas for different faculties have been approved by the Research Advisory Committee. In order to harness the Himalayan biodiversity, each faculty has been advised to identify collaborative inter-faculty research projects for harnessing the western Himalayan bio-diversity ranging from foot hills of Himalayas to the cold deserts. The information on its ecology, quantification, gene bio-prospecting, extraction of bio-molecules, molecular characterization and testing of drug molecules on animals and socio-legal and ethical studies are employed for marketing strategies.</p> <p>iii) The teachers of the University are formulating research projects for seeking funds and eight projects have been submitted for funding to different funding bodies.</p> <p>iv) Since the University is in its infancy, no external grants have been received for research purposes. However, on the recommendation of the Research Advisory Committee, the University has identified the thrust areas and is supporting research projects from its own resource. The University has allocated Rs 80 lacs as a corpus fund to support research in different faculties. The Postgraduate and Doctoral research programmes of the students are also as per the thrust areas identified by the Research Advisory Committee.</p> <p>The details of the Research Projects are summarized in Annexure 'S'. Faculty-wise number of research projects handled by the students is as under:</p> |
|--|--|---|

| Name of the Faculty | No. of research projects |
|--|--------------------------|
| i) Biotechnology | 18 |
| ii) Management Sciences | 7 |
| iii) Pharmaceutical Sciences | 12 |
| iv) Science, Social Sciences & Languages | 9 |
| Total Projects | 46 |

EXTENSION:

The University is actively engaged in transfer of technology by organizing academic activities for the students, scientists and the farmers. These activities are undertaken in the University by the Dean, Research and Development to coordinate with all the five faculties of the University. There is also a Training-cum-Extension Officer for the promotion of transfer of technology and the following activities have been conducted during the last one year.

i) A Workshop on introduction to microbiology was held in November, 2009 in which 20 school teachers participated. An extension manuscript was also prepared for the benefit of the trainees. The DST provided funds to the tune of Rs two lac.

ii) The University has also launched tree plantation programme in ten villages of Solan and Shimla Districts and up till now more than ten thousand saplings were distributed free of cost to the farmers. The survival of these plants and after care is monitored by a team of scientists (Rs one lac per annum). A field Camp was organized for farmers on January 31, 2010.

iii) A 3-day Bio Management Fest, the first of its kind in Himachal Pradesh, was organized from May 21-23 2010. The Fest was inaugurated by Shri Rajeev Bindal, Hon'ble Minister of Ayurveda and Health, Himachal Pradesh. More than 1000 students along with teachers from local and nearby schools visited the Fest.

iv) The Department of Science and Technology, GOI, has awarded a project "DARWIN 2009 –

| | | |
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| | <p>b)List of Research Publications for the last 3 years</p> | <p>India” to organize national level celebrations of Darwin’s Bicentenary Birth anniversary. Dr JM Julka (Director Planning & Professor of Zoology) of this University is the National Coordinator (Rs 8 lac). A brain storming workshop was held on June 21-22, 2010 to finalize the technical programme of the project. Prof K.R.Dhiman, Vice Chancellor, Dr Y.S.Parmar University of Horticulture and Forestry, Solan presided over the function and Prof S.P.Vij, Former Chairman, Department of Botany, Panjab University, Chandigarh delivered the keynote address on “Orchids and Darwin’. Twenty five participants attended the meeting.</p> <p>v) A National Conference on “Drug Discovery, Development & Clinical trials : Current status and the way forward” was held on June 26-27, 2010 which was jointly organized by Shoolini University, Pharmanext, Indian Pharmacy Graduate Association and InPharm Association. 250 delegates from different parts of the country attended the Conference. Thirty papers were read on various subjects and about 100 research posters were displayed.</p> <p>vi) The DST has awarded INSPIRE Science Camps for 10+2 students securing 76% marks in Himachal Board and 93% marks in CBSE. The first Science Camp in Himachal Pradesh was held at the Hqrs of the University w.e.f. 10-14 Oct., 2010 in which 320 students from different Schools spread over nine districts of Himachal Pradesh participated. The academic programme was conducted by the Professors and senior faculty from different Universities. Practical training was also provided to the students. The total project outlay is Rs 70 lac. 1000 students will be trained/inspired through different Science Camps to be organized at the Hqrs of this University to adopt science as a research career.</p> <p>b) During the year 2009-10, faculty members of the University has brought a total of 82 publications (Faculty of Biotechnology-14, Faculty of Pharmaceutical Science – 40 and Faculty of Science, Social Sciences & Lanaguages-28). A copy of the Research Publications of the teachers working in different departments is enclosed at Annexure ‘T’.</p> |
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| | c)List of ongoing research projects with their source of funding | <p>c) A list of ongoing research projects with their source of funding is given in Annexure 'U'. Faculty-wise number of ongoing research projects is given below:</p> <table border="1" data-bbox="837 363 1489 709"> <thead> <tr> <th>Name of the Faculty</th> <th>No. of ongoing research projects</th> </tr> </thead> <tbody> <tr> <td>Biotechnology</td> <td>16</td> </tr> <tr> <td>Engineering & Technology</td> <td>9</td> </tr> <tr> <td>Management Sciences</td> <td>5</td> </tr> <tr> <td>Pharmaceutical Sciences</td> <td>4</td> </tr> <tr> <td>Science, Social Sciences & Languages</td> <td>6</td> </tr> </tbody> </table> | Name of the Faculty | No. of ongoing research projects | Biotechnology | 16 | Engineering & Technology | 9 | Management Sciences | 5 | Pharmaceutical Sciences | 4 | Science, Social Sciences & Languages | 6 |
|--------------------------------------|--|--|---------------------|----------------------------------|---------------|----|--------------------------|---|---------------------|---|-------------------------|---|--------------------------------------|---|
| Name of the Faculty | No. of ongoing research projects | | | | | | | | | | | | | |
| Biotechnology | 16 | | | | | | | | | | | | | |
| Engineering & Technology | 9 | | | | | | | | | | | | | |
| Management Sciences | 5 | | | | | | | | | | | | | |
| Pharmaceutical Sciences | 4 | | | | | | | | | | | | | |
| Science, Social Sciences & Languages | 6 | | | | | | | | | | | | | |
| 24. | Future plans for starting new courses | <p>Future plans as listed below will be started in a phased manner:</p> <p>i) The University intends to strengthen its research driven model in all the five faculties by introducing/strengthening doctoral education so as to become a role model for private education in biotechnology and related subjects for providing quality human resource.</p> <p>ii) To introduce (in a phased manner) specializations in B.Tech (Biotechnology) programme, genetic engineering, genomics, enzymology, immunology, nutraceuticals, animal biotechnology, plant biotechnology, medical and pharmaceutical biotechnology, environmental biotechnology.</p> <p>iii) To introduce five year elite programme (B.Sc. Hons & M.Sc.) in Life Sciences, Chemistry and Physics. Bright students will be exposed to the relevance of basis sciences as a career.</p> <p>iv) To establish a lead centre on Bioinformatics and Nanotechnology (B.Tech., M.Tech and Ph.D programmes)</p> <p>v) To introduce Pharma D for strengthening clinical trials</p> <p>vi) To start M.Sc. Genomics in collaboration with New Hampshire University, USA.</p> <p>vii) To start Management based/social and ethical courses:</p> | | | | | | | | | | | | |

| | | <p>a)MBA Patenting and Intellectual Property Rights b)MBA International Business c)MBA Retailing and Consumerism d)MBA in Women Empowerment and Bio Business e)MBA Social Ethics and Medication</p> | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------|---|---|-----------------|-----|--------|----------|----------|----------|-------------|----------|-----|------------|-------|----------|-------------|----------|----------|------------|---------|------------|--------|----------|-------|----------|--------------|----------|
| 25. | Whether courses in emerging areas introduced/proposed to be introduced | Yes, Courses in emerging areas viz. B.Tech (Biotechnology), B.Tech (Food Science & Technology), B.Tech. (Bioinformatics) etc. have already been introduced. | | | | | | | | | | | | | | | | | | | | | | | | |
| 26. | Whether approval of relevant statutory bodies obtained for starting professional courses/increased intake | <p>Shoolini University of Biotechnology and Management Sciences has been established un the Act of State Legislative. The status of the approval is as under:</p> <p>MBA – AICTE approval B Pharma – AICTE approval, PCI applied for B Tech and M.Pharma – AICTE approval not sought but university intends to apply for 2011-12.</p> | | | | | | | | | | | | | | | | | | | | | | | | |
| 27. | Admission procedure | Admission is made strictly on the basis of merit. However, the admission in professional and technical courses is made only through entrance test through its own entrance and through State and National Centralised Test such as CAT/MAT/AIEEE/PMT. Admission to doctoral programme is made as per Guidelines of the UGC. | | | | | | | | | | | | | | | | | | | | | | | | |
| 28. | Fee structure for the different courses run by the University | <p>Fee structure for different courses run by the University has been approved by the Government of Himachal Pradesh vide letter No.EDN-A-Gha(8)-6/2006 dated 23rd April, 2010, which is already placed at Annexure C:</p> <table border="1"> <thead> <tr> <th>Courses offered</th> <th>Fee</th> </tr> </thead> <tbody> <tr> <td>B.Tech</td> <td>60,000/-</td> </tr> <tr> <td>B.Pharma</td> <td>60,000/-</td> </tr> <tr> <td>B.Com(Hons)</td> <td>25,000/-</td> </tr> <tr> <td>MBA</td> <td>1,00,000/-</td> </tr> <tr> <td>M.Sc.</td> <td>55,000/-</td> </tr> <tr> <td>M.Sc.(Hons)</td> <td>65,000/-</td> </tr> <tr> <td>M.Pharma</td> <td>1,20,000/-</td> </tr> <tr> <td>M.Tech.</td> <td>1,10,000/-</td> </tr> <tr> <td>M.Phil</td> <td>65,000/-</td> </tr> <tr> <td>Ph.D.</td> <td>70,000/-</td> </tr> <tr> <td>Ph.D. in MBA</td> <td>50,000/-</td> </tr> </tbody> </table> | Courses offered | Fee | B.Tech | 60,000/- | B.Pharma | 60,000/- | B.Com(Hons) | 25,000/- | MBA | 1,00,000/- | M.Sc. | 55,000/- | M.Sc.(Hons) | 65,000/- | M.Pharma | 1,20,000/- | M.Tech. | 1,10,000/- | M.Phil | 65,000/- | Ph.D. | 70,000/- | Ph.D. in MBA | 50,000/- |
| Courses offered | Fee | | | | | | | | | | | | | | | | | | | | | | | | | |
| B.Tech | 60,000/- | | | | | | | | | | | | | | | | | | | | | | | | | |
| B.Pharma | 60,000/- | | | | | | | | | | | | | | | | | | | | | | | | | |
| B.Com(Hons) | 25,000/- | | | | | | | | | | | | | | | | | | | | | | | | | |
| MBA | 1,00,000/- | | | | | | | | | | | | | | | | | | | | | | | | | |
| M.Sc. | 55,000/- | | | | | | | | | | | | | | | | | | | | | | | | | |
| M.Sc.(Hons) | 65,000/- | | | | | | | | | | | | | | | | | | | | | | | | | |
| M.Pharma | 1,20,000/- | | | | | | | | | | | | | | | | | | | | | | | | | |
| M.Tech. | 1,10,000/- | | | | | | | | | | | | | | | | | | | | | | | | | |
| M.Phil | 65,000/- | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ph.D. | 70,000/- | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ph.D. in MBA | 50,000/- | | | | | | | | | | | | | | | | | | | | | | | | | |

| 29. | Examination system | The University is following the Semester system of examination for all the courses, including the course work for M.Phil and Ph.D. Prorammes. For undergraduate courses, the allocation of internal and external system is 50:50, while for postgraduate courses it is 100 per cent internal. Four house tests i.e. first hourly, second hourly, mid term and End of term examinations along with marks allotted for attendance, assignments, project reports and quiz tests contribute towards the internal assessment. | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---------------------|---------|---------------|-------------|--------------------------------------|---|-------------------------|----|--------------------------|---|---------------------|----|--------------------------|---|---------------|---|--------------------------------------|---|---|----|--|---|---|----|--------|----|----|----|
| 30. | Number of sanctioned posts Professors, Readers, Lecturers | <p>Professors = 18 Assoc.Prof. = 38 Assistant Prof. = 58 Total = 114</p> <p>Faculty-wise detail of the sanctioned strength of teachers is as under:</p> <table border="1" data-bbox="836 800 1437 1213"> <thead> <tr> <th>Name of the Faculty</th> <th>Prof.</th> <th>Assoc. Prof.</th> <th>Asst. Prof.</th> </tr> </thead> <tbody> <tr> <td>i) Biotech.</td> <td>3</td> <td>6</td> <td>10</td> </tr> <tr> <td>ii) Engg.&Tech</td> <td>6</td> <td>12</td> <td>18</td> </tr> <tr> <td>iii) Management Sciences</td> <td>2</td> <td>6</td> <td>8</td> </tr> <tr> <td>iv)Pharmaceutical Sciences</td> <td>4</td> <td>8</td> <td>12</td> </tr> <tr> <td>v)Science, Social Sciences & Languages</td> <td>3</td> <td>6</td> <td>10</td> </tr> <tr> <td>Total:</td> <td>18</td> <td>38</td> <td>58</td> </tr> </tbody> </table> <p>Faculty-wise list of the teachers engaged is given in Annexure 'V'.</p> | Name of the Faculty | Prof. | Assoc. Prof. | Asst. Prof. | i) Biotech. | 3 | 6 | 10 | ii) Engg.&Tech | 6 | 12 | 18 | iii) Management Sciences | 2 | 6 | 8 | iv)Pharmaceutical Sciences | 4 | 8 | 12 | v)Science, Social Sciences & Languages | 3 | 6 | 10 | Total: | 18 | 38 | 58 |
| Name of the Faculty | Prof. | Assoc. Prof. | Asst. Prof. | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| i) Biotech. | 3 | 6 | 10 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ii) Engg.&Tech | 6 | 12 | 18 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| iii) Management Sciences | 2 | 6 | 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| iv)Pharmaceutical Sciences | 4 | 8 | 12 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| v)Science, Social Sciences & Languages | 3 | 6 | 10 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Total: | 18 | 38 | 58 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 31. | Names, designations, qualifications and publications of the existing teaching staff (department-wise) | Attached at Annexure 'W'. | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 32. | Whether the faculty members organized or attended International/National Conferences/Workshops, if so give details. | <p>A. Organized</p> <table border="1" data-bbox="836 1535 1425 1913"> <thead> <tr> <th>Faculty</th> <th>2009-10</th> </tr> </thead> <tbody> <tr> <td>Biotechnology</td> <td>--</td> </tr> <tr> <td>Science, Social Sciences & languages</td> <td>1</td> </tr> <tr> <td>Pharmaceutical Sciences</td> <td>1</td> </tr> <tr> <td>Engineering & Technology</td> <td>-</td> </tr> <tr> <td>Management Sciences</td> <td>1</td> </tr> <tr> <td colspan="2">B. Attended:</td> </tr> <tr> <td>Biotechnology</td> <td>3</td> </tr> <tr> <td>Science, Social Sciences & languages</td> <td>4</td> </tr> </tbody> </table> | Faculty | 2009-10 | Biotechnology | -- | Science, Social Sciences & languages | 1 | Pharmaceutical Sciences | 1 | Engineering & Technology | - | Management Sciences | 1 | B. Attended: | | Biotechnology | 3 | Science, Social Sciences & languages | 4 | | | | | | | | | | |
| Faculty | 2009-10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Biotechnology | -- | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Science, Social Sciences & languages | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pharmaceutical Sciences | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Engineering & Technology | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Management Sciences | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B. Attended: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Biotechnology | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Science, Social Sciences & languages | 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| | | <table border="1"> <tr> <td>Pharmaceutical Sciences</td> <td>4</td> </tr> <tr> <td>Engineering & Technology</td> <td>2</td> </tr> <tr> <td>Management Sciences</td> <td>2</td> </tr> </table> | Pharmaceutical Sciences | 4 | Engineering & Technology | 2 | Management Sciences | 2 | | | | | | | | | | | | | | | | | | |
|--------------------------|---|---|-------------------------|------------------|--------------------------|----|---------------------|---|----|------------------|---|----|------------------|---|----|-------------|---|----|-----------------------|---|----|-------------------------------|---|----|--------------------------------|---|
| Pharmaceutical Sciences | 4 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Engineering & Technology | 2 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Management Sciences | 2 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 33. | Linkages with other Institutions (National & International, give details) | <p>University is making sincere efforts to develop relationship and linkages with several national and international institutions. Details are as under:</p> <p>1) MoU has been finalized with Seoul National University, Seoul, South Korea for exchange of students and faculty.</p> <p>2) An alliance is in the pipeline with New Hampshire University, USA for credit transfer and student/faculty exchange programme in biotechnology and related courses.</p> <p>3) An MoU has been finalized with TR FARM JUIICES (P) LTD (TRFJL) to strengthen academic and scholarly links between the two organizations.</p> <p>4) An MoU has been signed with Genpact a global leader in Business Process and Technology Management for introducing collaborative MBA business processes and operations.</p> <p>5) An agreement has also been signed between Oracle and the University for setting up oracle based Computer Labs.</p> <p>6) An MoU has been signed with the Institute of Transgene Life Sciences, Lucknow to strengthen academic and scholarly links between the two organizations. (Photocopy of the MoUs attached at Annexure 'X')</p> | | | | | | | | | | | | | | | | | | | | | | | | |
| 34. | Whether Non-teaching staff appointed, if yes, give details | <p>Yes. Detail of the non-teaching employees is given in Annexure 'Y'</p> <table border="1"> <thead> <tr> <th>Sl.No.</th> <th>Name of the Dept</th> <th>No.of non-teaching staff</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>Admn.Office</td> <td>8</td> </tr> <tr> <td>2.</td> <td>Audit & Accounts</td> <td>4</td> </tr> <tr> <td>3.</td> <td>Trg. & Placement</td> <td>4</td> </tr> <tr> <td>4.</td> <td>Examination</td> <td>4</td> </tr> <tr> <td>5.</td> <td>Faculty Biotechnology</td> <td>6</td> </tr> <tr> <td>6.</td> <td>Faculty of Engg. & Technology</td> <td>8</td> </tr> <tr> <td>7.</td> <td>Faculty of Business Management</td> <td>4</td> </tr> </tbody> </table> | Sl.No. | Name of the Dept | No.of non-teaching staff | 1. | Admn.Office | 8 | 2. | Audit & Accounts | 4 | 3. | Trg. & Placement | 4 | 4. | Examination | 4 | 5. | Faculty Biotechnology | 6 | 6. | Faculty of Engg. & Technology | 8 | 7. | Faculty of Business Management | 4 |
| Sl.No. | Name of the Dept | No.of non-teaching staff | | | | | | | | | | | | | | | | | | | | | | | | |
| 1. | Admn.Office | 8 | | | | | | | | | | | | | | | | | | | | | | | | |
| 2. | Audit & Accounts | 4 | | | | | | | | | | | | | | | | | | | | | | | | |
| 3. | Trg. & Placement | 4 | | | | | | | | | | | | | | | | | | | | | | | | |
| 4. | Examination | 4 | | | | | | | | | | | | | | | | | | | | | | | | |
| 5. | Faculty Biotechnology | 6 | | | | | | | | | | | | | | | | | | | | | | | | |
| 6. | Faculty of Engg. & Technology | 8 | | | | | | | | | | | | | | | | | | | | | | | | |
| 7. | Faculty of Business Management | 4 | | | | | | | | | | | | | | | | | | | | | | | | |

| | | | | | | | | | | | |
|-----|---|---|----|---|---|---|---------------------|---|--|-------|----|
| | | <table border="1"> <tr> <td>8.</td> <td>Faculty of Science, Social Sciences & Languages</td> <td>6</td> </tr> <tr> <td>9</td> <td>Faculty of Pharmacy</td> <td>6</td> </tr> <tr> <td></td> <td>Total</td> <td>50</td> </tr> </table> | 8. | Faculty of Science, Social Sciences & Languages | 6 | 9 | Faculty of Pharmacy | 6 | | Total | 50 |
| 8. | Faculty of Science, Social Sciences & Languages | 6 | | | | | | | | | |
| 9 | Faculty of Pharmacy | 6 | | | | | | | | | |
| | Total | 50 | | | | | | | | | |
| 35. | Whether institute is following UGC pay scales for teaching staff. | As per the 1 st meeting of the Finance Committee as attached Annexure-I above, the teaching staff is given UGC Pay Scales. | | | | | | | | | |
| 36. | Facilities for faculty and staff | <p>The following facilities have been provided for the faculty and staff:</p> <p>a) An indoor sports room and a gymnasium has been provided at the Campus</p> <p>b) A tennis court, Volley ball court, basket ball court and a large play ground is under development.</p> <p>c) There is a special audio video room and a live wire room (with live internet nodes specially designed for Stock Market Live Training Sessions)</p> <p>d) There are cafes around the place for get-togethers</p> <p>e) An on-campus dispensary is functional at the Campus for the benefit of faculty, staff and students of the University.</p> <p>f) An open amphi theatre for 400 students has been developed.</p> | | | | | | | | | |
| 37. | Facilities for students | <p>a) The facilities enumerated as Sl.No.36 above are available for the students also.</p> <p>b) Group Insurance Scheme is in the process of finalization.</p> <p>c) Free medical and dental check up is provided.</p> <p>d) University canteen provided lunch, snacks, tea and cold drinks.</p> <p>e) A fleet of University buses are commuting the students from Solan town to the University Campus and vice versa.</p> | | | | | | | | | |

| | | |
|-----|--|--|
| | | <p>f) wi-fi internet connectivity is provided to the students free of cost</p> <p>g) Free Laptops are provided to MBA students.</p> |
| 38. | Sports and games facilities with details | <p>a) An indoor sports room and a gymnasium has been provided at the Campus</p> <p>b) A tennis court, Volley ball court, basket ball court and a large play ground is under development.</p> <p>c) There is a special audio video room and a live wire room (with live internet nodes specially designed for Stock Market Live Training Sessions)</p> |
| 39. | Hostel facilities available, if any | <p>i) One Girls Hostel to accommodate about 220 girls is available at the Campus of the University.</p> <p>ii) Additional hostel facility for 180 students (40 girls and 140 boys) has been created in the town (acquired on temporary lease basis).</p> <p>iii) The boarding facility for another 250 girls and 150 boys is under construction for 2011-12 at the Campus.</p> |
| 40. | Other facilities available at the Institute(s), give detail. | <p>a) Free transport facility is provided to the hostlers (twice a week) to visit the town.</p> <p>b) A shop of stationery has been housed in the University campus.</p> <p>c) Xeroxing facility has also been made available in the Campus.</p> |

IV. Observations of the Committee:

- (a) Shoolini University of Biotechnology and Management Sciences is established by the Foundation for Life and Business Management (FLSBM) by an Act of the Legislative Assembly of Himachal Pradesh (Notification No.EDN-A-Gha(8)-10/2006 dated 15th October, 2009). The University is located at a serene and ambient environment of pine trees, 15 kms away from Solan, on Oachghat-Kumarhatti State Highway.
- (b) Shoolini University was established on October 15, 2009 and is just one year old.

- (c) The focus of the University is to promote R&D in Biotechnology and related basic and applied Sciences and to provide industry relevant higher education.
- (d) Shoolini University is being developed around a research driven model – its research agenda includes preparing an intensive and extensive data base of Himalayan bio-resources and to work out their molecular characterization for isolating novel bio-molecules for pharmaceutical and health care industries.
- (e) The University embodies five Faculties (Faculty of Biotechnology, Faculty of Engineering & Technology, Faculty of Management Sciences, Faculty of Pharmaceutical Sciences and Faculty of Science, Social Sciences & Languages). The University has designed its own curriculum structure, contents, teaching and learning and evaluation system offered in various faculties.
- (f) The B.Pharma and MBA courses (earlier being run at the Shoolini Institute of Biotechnology and Business Management) were duly approved by the All India Council for Technical Education in 2008-9 - These two courses are now being run under the aegis of the University.
- (g) The University has a total of 114 sanctioned teaching posts. Out of these, 99 positions have been filled up for the total enrolment of 798 students in the University.
- (h) The University has appointed a Vice Chancellor, Registrar, Finance Officer and Controller of Examination. In addition, The University has constituted Academic Council, Board of Management, Finance Committee and Governing Body.
- (i) The University has built adequate academic area for the existing student strength. In addition it has a fully functional girls hostel for 220 hostels at the University Campus. Hostel facilities for other students have been organized at Solan.
- (j) Though the University has not completed one year of its establishment, its placement cell, health centre, academic linkages with academia and industry, its research driven model along with appointment of a half dozen teachers with Post doctoral experience will give the fillip to the University in making its place in the higher education.
- (k) A collaborative MoU has been signed with the Genpact, one the World's largest business process and technology companies, to enhance skill-set and ensure employment of students
- (l) The University is keen to strengthen its R&D programmes. It has set up a Research Advisory Committee under the Chairmanship of Prof R.C.Mahajan ex-President, INSA and Bose Emeritus Professor, PGI, Chandigarh, for promoting research by seeking external funding. Linkages with Seoul National University, South Korea have been established for faculty-student exchange programme. Similarly with the New Hampshire University, USA the project is under active consideration.

- (m) For promotion of science popularization, the department of Science and Technology, GOI has funded under the schemes such (i) Refresher course on Microbiology for School Teachers (ii) Regional Coordinator for Darwin's Bicentenary Celebrations and (iii) Inspire Science Camps for School children at 10+2 level for generating their interest in science as a career.
- (n) The University has also adopted the ten villages in Solan and Shimla Districts for planting of fruit and forest trees. In the last one year, more than 10,000 saplings have been distributed free of cost and their monitoring for survival is a continuous feature.
- (o) The University has volunteered to organize Science Camps under INSPIRE Internship programme for the students of Himachal Pradesh. The University has taken the responsibility to cater to the needs of 1000 Himachal students through the DST Programme.
- (p) The University has organized a National Conference on Drug Discovery, Development and Clinical Trials – Current Status and the Way forward during the month of June, 2010 (26-27 June, 2010). Similar programmes should also be conducted by the faculty of Engineering and Technology and MBA.
- (q) The University has developed good science & technology laboratories. The University has acquired an HPLC and the University intends to use it as a Central facility.
- (r) Physical infrastructure in terms of constructed area, class rooms and labs and other facilities are as per the AICTE and PCI norms.
- (s) In the year 2010 this University has been ranked 6th amongst Private Biotech Institutes/Universities (Bio-spectrum survey, 2010).
- (t) The University is also in the process of building two innovation Centers (i) Centre for Innovative Technologies and (ii) Yoga Vigyan Research Centre in collaboration with the Yogoda Satsanga Society of India.

V. Suggestions of the Committee:

1. The University has started Doctoral programme in different disciplines of the University. There is a need to strengthen academic alliances with institutions of repute and leverage existing alliances to strengthen its Ph.D programme.
2. The nomenclature of M.Sc. (Hons) Biotechnology and M.Sc. (Hons) Microbiology does not figure in the UGC list. The Vice Chancellor informed that these programmes are awarded by the Panjab University, Chandigarh ever since its inception and the University has adopted its course design. He also produced the documents in support of his contention. The Committee recommends that the university may refer the matter to the UGC immediately.

3. The University has adequate constructed area (1.87 lac sq. ft.) to start its academic activities. The University should further develop and increase infrastructure including
 - On-campus hostels, staff residences and students welfare facilities. Being a mountainous area, where land is a limiting factor, the University should pay special attention to upgrade indoor game facilities
 - The construction of a central library should be given a priority for housing adequate number of books and journals and on-line manuscripts
 - The University has an auditorium to accommodate about 250 students. There is a need to construct a big auditorium at the University Campus.
4. The University has set up a number of Science Labs particularly for Biotechnology and Microbiology programmes. The University may consider to foster upgrading these to play a lead role in these areas as well as to seek research funding support from DST, DBT, CSIR and other funding agencies.
5. The University should continue its endeavour to organize seminars, workshops and other academic activities for all the Faculties so as to upgrade its academic standards. Similarly, efforts should be made to organize training programmes.
6. The commitment of the University to make the University 100 per cent computer literate is appreciable. It will be in the fitness of things to organize training programmes for teachers and staff of the University in e-learning.
7. The University should encourage its faculty to publish research papers in National and International journals of repute. In addition, teachers should be encouraged to file patents and the University should give rewards to such teachers whose patents are registered by providing them funds for participating in International Meets.
8. Though University has a Central Library and equipped with books and journals. But there is a need to procure more latest books and international journals.
9. University should make suitable investment for the purchase of more multiple latest equipments to boost the research activities on the campus so that faculty members are in a position to carry out research for their publications as well as for submission of research projects to various funding agencies.
10. University should take initiative to build a separate administrative block.
11. Faculty members should be encouraged to participate in the academic activities.
12. Faculty members should be encouraged to enroll themselves for the doctoral programmes.
13. University should take necessary initiatives to appoint more faculty members, particularly at the senior level. For this purpose, there is a need to evolve a mechanism of web-based/rolling advertisement.

VI. Recommendations of the Committee

In view of the above facts and observations, discussions with students, staff (both teaching and non-teaching), and members of the Board of Management of the University, the Expert Committee is of the opinion that the Shoolini University of Biotechnology and Management Sciences (A Private University), Solan District, Himachal Pradesh established by an Act of Himachal Pradesh State Legislative, is a fit case for recognition by the UGC as it meets the criteria mentioned in the UGC (Establishment of and Maintenance of Standards in Private Universities) Regulations, 2003 and unanimously recommends for the same.

(Prof. Furqan Qamar)
Chairman

(Dr. T. R. Kem)
UGC Member

(Dr. H. B. Walikar)
UGC Member

(Prof. M.R. Rajeshwari)
UGC Member

(Prof. P.K. Kotia)
UGC Member

(Prof. D. Chakraborti)
PCI Nominee

(Dr. Shakeel Ahmad)
Member-Secretary