

Executive Summary

This project basically intends to provide the total financial inputs on R&D Activities, the total manpower, full time engagement (FTE) in R&D activities in S&T disciplines, expenditure on R&D activities in S&T disciplines(ERD), FTE equivalent Salary expenditure in R&D activities in S&T disciplines(SERD) in Higher Education Sector of the country during the 5 years' time period 2011-12, 2012-13, 2013-14, 2014-15 and 2015-16 from the database of All India Survey on Higher Education (AISHE) carried out by Ministry of Human Resource Development (MHRD).

The study covers all the Universities/Institutions within Indian boundary, given in Table 1. As this study is only on S&T, the HEO's with such disciplines were identified and Table 2 below gives the Type and Year wise numbers of such HEO's.

Table 1: Year –wise and Type-wise Number of Universities/ Institutions

↓University Type	Total Number- Year wise				
	2011-2012	2012-2013	2013-2014	2014-2015	2015-2016
1. Central University	42	42	42	43	43
2. Central Open University	1	1	1	1	1
3. Deemed University-Private	79	80	80	79	79
4. Deemed University-Government	38	36	36	36	32
5. Deemed University-Government Aided	11	11	11	11	11
6. Institute under State Legislature Act	5	5	5	5	5
7. State Public University	286	292	309	316	329
8. State Private University	105	122	149	181	197
9. State Open University	13	13	13	13	13
10. Institute of National Importance	59	62	68	68	74
11. Others	3	3	3	5	13
12. State Private Open University	0	0	0	1	1
TOTAL	642	667	717	759	798

Source: DST Project 2016 Quantification of R&D Resources in higher education in India, BHU (Derived from the AISHE database 2011-12, 2012-13, 2013-14, 2014-15 and 2015-16).

Note: Type 12 (State Private Open University) has no S&T Discipline

**Table 2: Total Number of Higher Education Organization (HEO's)
with
S&T Disciplines by their Types and Years**

S.NO.	University Type ↓	2011-12	2012-13	2013-14	2014-15	2015-16
1	Central University	40	40	40	40	40
2	Central Open University	1	1	1	1	1
3	Deemed University-Private	72	72	72	72	74
4	Deemed University-Government	31	31	31	31	33
5	Deemed University-Government Aided	11	11	11	10	10
6	Institute under State Legislature Act	4	4	4	4	5
7	State Public University	210	208	215	219	219
8	State Private University	72	108	110	138	173
9	State Open University	13	13	13	13	13
10	Institute of National Importance	59	62	68	68	68
11	Others	3	3	3	5	8
	Total	516	553	568	601	644

Source: DST Project 2016 Quantification of R&D Resources in higher education in India, BHU (Derived from the AISHE database 2011-12, 2012-13, 2013-14, 2014-15 and 2015-16).

0. Contents

The four measures: Estimated S&T Manpower, Estimated Research Manpower Estimated FTE, Estimated ERD and Estimated SERD are presented in Tables 3,3a, 4, 5 and 6. Table 7 contains the categories of disciplines according to the percentage of students' enrolment year-wise.

As desired by DST a summary of the tables 1 – 6 are presented in the required format in Tables 0.1 to 0.5 first, in this section.

Table 0.1: Manpower (Head Counts)

(In numbers)

Type of Universities	2011-12	2012-13	2013-14	2014-15	2015-16
1. Central	37954(40)	41854(40)	51743(40)	55911 (40)	53305(40)
2. Central Open	215(1)	260(1)	134(1)	142(1)	149(1)
3. Deemed Pvt.	103583(65)	114990(65)	113516 (65)	107268 (66)	93304 (67)
4. Deemed Govt.	17673(25)	20706(25)	19666 (25)	23644 (25)	24858 (25)
5. Deemed Govt. Aided	12315(11)	12104(11)	12155 (11)	12336 (10)	5209 (10)
6. Institute Under Legislature Act	1194(3)	1223(4)	1719 (4)	1707 (4)	1414 (4)
7. State Public	189444(209)	218887(208)	255987 (215)	263235 (219)	251305 (219)
8. State Pvt	41839(69)	72306(98)	77401 (106)	78396 (138)	64824 (143)
9. State Open	62(2)	59(2)	78(2)	65(2)	68(2)
10. Inst. of National Importance	53732(48)	73013(50)	85974 (50)	94081 (50)	103325 (62)
11. Others	596(2)	718(2)	267(2)	1436(3)	617(4)
Total	458607(475)	556120(506)	618640(521)	638221(558)	598378(577)

Source: Table 3 and Table 5.2

Table 0.1a: Research Manpower (Head Counts)**(In numbers)**

Type of Universities	2011-12	2012-13	2013-14	2014-15	2015-16
10. Central	7024(40)	14568(40)	16282(40)	14880(40)	17782(40)
11. Central Open	215(1)	220(1)	412(1)	136(1)	130(1)
12. Deemed Pvt.	34297(65)	41567 (65)	39138(65)	35129(66)	40686 (67)
13. Deemed Govt.	8375(25)	9885(25)	9352(25)	11409(25)	12342(25)
14. Deemed Govt. Aided	2609(11)	3449(11)	3506(11)	3971(10)	5322(10)
15. Institute Under Legislature Act	406(3)	707(4)	932(4)	858(4)	962 (4)
16. State Public	32622(209)	45175(208)	48256 (215)	54989 (219)	26900 (219)
17. State Pvt	12563(69)	21515(98)	24484(106)	29445(138)	28386(143)
18. State Open	55(2)	59(2)	78(2)	63(2)	68(2)
10.Inst. of National Importance	18537(48)	26900(50)	33615(50)	36144(50)	41915(62)
12. Others	59(2)	77(2)	114(2)	153(3)	210(4)
Total	118702(475)	152069(506)	172810(521)	180439(558)	202792(577)

Source: Table 3a and Table 5.2a

Table 0.2: Full Time Equivalent (FTE) R&D Manpower**(Hours/week)**

Type of Universities	2011-12	2012-13	2013-14	2014-15	2015-16
1. Central	4840.35(40)	8756.35(40)	11156.45 (40)	9542.05 (40)	12506.80(40)
2. Central Open	141.35(1)	159.65(1)	53.15(1)	61.85(1)	40.50(1)
3. Deemed Pvt.	15211.65 (65)	18894.20 (65)	19200.00 (65)	17845.75 (66)	19804.05 (67)
4. Deemed					

Govt.	5996.95 (25)	7139.55(25)	6665.95(25)	8671.35(25)	9739.30 (25)
5. Deemed Govt. Aided	1586.65 (11)	2018.40 (11)	2081.40(11)	2486.05 (10)	3449.55 (10)
6. Inst Under Legis Act	175.85 (3)	277.60 (4)	473.35 (4)	484.90 (4)	492.85 (4)
7. State Public	23654.55 (209)	22032.90 (208)	27246.75 (215)	29811.45 (219)	34902.90 (219)
8. State Pvt	4616.00 (69)	7669.15 (98)	9263.03 (106)	11011.30 (138)	10076.50 (143)
9. State Open	31.00(2)	34.25(2)	41.45(2)	30.75(2)	41.00(2)
10.Inst. of National Importance	12925.50 (48)	18644.60 (50)	25318.85 (50)	28089.25 (50)	33526.25 (62)
11. Others	22.85(2)	32.55(2)	55.90(2)	85.35(3)	122.00(4)
Combined Total	69205.35 (475)	90690.75 (506)	102485.58 (521)	108162.08 (558)	109885.70 (577)

Source: Table 4 and Table 5.3

Table 0.3: Gross R&D Expenditure on Higher Studies (ERD)

(Rs. Crores)

Type of Universities	2011-12	2012-13	2013-14	2014-15	2015-16
1. Central	1283.15	1774.54	4175.53	3569.14	2672.18
2. Central Open	88.12	68.56	89.90	81.57	83.71
3. Deemed Pvt.	5908.20	3002.90	5872.62	3683.95	4497.27
4. Deemed Govt.	13780.42	22267.17	21259.82	25146.63	32866.33
5. Deemed Govt. Aided	207.57	264.22	202.42	187.13	141.43
6. Inst Under Legis Act	948.78	304.02	671.24	843.49	501.53
7. State Public	39305.14	36602.53	72755.98	58549.33	41337.21
8. State Pvt	43343.39	10637.50	8089.31	8349.82	3037.34
9. State Open	5.92	6.97	11.93	25.04	25.49
10.Inst. of National Importance	4141.65	4770.72	6640.72	9584.74	5983.77
11.Others	10.50	12.41	12.34	5.46	16.06
Total	109022.84	79711.54	119781.81	110026.30	91162.32

Source: Table 5 and Table 5.4

Table 0.4: FTE Equivalent R&D Expenditure on Higher Studies (SERD)(In Rs. Crores or Rs. 10⁷)

Type of Universities	2011-12	2012-13	2013-14	2014-15	2015-16
1. Central	247.028(40)	287.610(40)	332.352(40)	373.902(40)	413.411(40)
2. Central Open	4.207(1)	4.340(1)	5.038(1)	5.417(1)	5.533(1)
3. Deemed Pvt.	900.714(65)	1051.870(65)	1059.668(65)	1306.485(66)	2210.430(67)
4. Deemed Govt.	118.840(25)	428.502(25)	1086.630(25)	1286.911(25)	2139.182(25)
5. Deemed Govt. Aided	53.766(11)	64.830(11)	71.478(11)	75.567(10)	89.364(10)
6. Inst Under Legis Act	21.006(3)	26.660(4)	27.020(4)	32.065(4)	33.400(4)
7. State Public	393.600(209)	1034.401(208)	1097.991(215)	1260.331(219)	1272.503(219)
8. State Pvt	313.715(69)	637.253(98)	678.550(106)	735.663(138)	739.076(143)
9. State Open	0.700(2)	0.728(2)	0.902(2)	1.044(2)	1.170(2)
10. Inst. of National Importance	1782.004(48)	1913.493(50)	3631.300(50)	4914.503(50)	5226.097(62)
11. Others	1.814(2)	2.316(2)	2.433(2)	2.721(3)	3.267(4)
Total	3837.394	5452.053	7993.592	9994.609	12138.000

Source: Table 5 and Table 5.5a

Table 0.5: Tables for All Types of Universities

1. Central University	2011-12	2012-13	2013-14	2014-15	2015-16	Source
No. of Universities	42	42	42	43	43	Table 1 and Table 1.2
No. of Universities with S& T Disciplines	40	40	40	40	40	Table 2 and Table 1.2(a)
R&D Manpower(HC)	37954	41854	51743	55911	53305	Table 3 and Table 5.2
Research Manpower(HC)	7024(40)	141568(40)	16282(40)	14880(40)	17782(40)	Table 3a and Table 5.2a
R&D						Table 4

Manpower(FTE)	4840.35(40)	8756.35(40)	11156.45 (40)	9542.05 (40)	12506.80(40)	and Table 5.3
R&D Expenditure(ERD)	1283.15	1774.54	4175.53	3569.14	2672.18	Table 5 and Table 5.4
FTE Equivalent R&D Expenditure(SERD)	247.028(40)	287.610(40)	332.352(40)	373.902(40)	413.411(40)	Table 6 and Table 5.5

2. Central Open University	2011-12	2012-13	2013-14	2014-15	2015-16	Source
No. of Universities	1	1	1	1	1	Table 1 and Table 1.2
No. of Universities with S& T Disciplines	1	1	1	1	1	Table 2 and Table 1.2(a)
R&D Manpower(HC)	215	260	134	142	149	Table 3 and Table 5.2
Research ManPower(HC)	215(1)	220(1)	134(1)	134(1)	130(1)	Table 3a and Table 5.2a
R&D Manpower(FTE)	141.35(1)	159.65(1)	53.15(1)	61.85(1)	40.50(1)	Table 4 and Table 5.3
R&D Expenditure(ERD)	88.12	68.56	89.90	81.57	83.71	Table 5 and Table 5.4
FTE Equivalent R&D Expenditure(SERD)	4.207(1)	4.340(1)	5.038(1)	5.417(1)	5.533(1)	Table 6 and Table 5.5

3. Deemed Univ. Pvt	2011-12	2012-13	2013-14	2014-15	2015-16	Source
No. of Universities	79	80	80	79	79	Table 1 and Table 1.2
No. of Universities with S& T Disciplines	72	72	72	72	74	Table 2 and Table 1.2(a)
R&D	103583	114990	113516	107268	93304	Table 3 and

Manpower(HC)						Table 5.2
Research Manpower(HC)	34297(65)	41567(65)	39138(65)	35129(66)	40686(67)	Table 3a and Table 5.2a
R&D Manpower(FTE)	15211.65(65)	18894.20(65)	19200.00(65)	17845.75(66)	19804.05(67)	Table 4 and Table 5.3
R&D Expenditure(ERD)	5908.20	3002.90	5872.62	3683.95	4497.27	Table 5 and Table 5.4
FTE Equivalent R&D Expenditure(SERD)	900.714(65)	1051.870(65)	1059.668(65)	1306.485(66)	2210.430(67)	Table 6 and Table 5.5

4. Deemed Univ. Govt.	2011-12	2012-13	2013-14	2014-15	2015-16	Source
No. of Universities	38	36	36	36	32	Table 1 and Table 1.2
No. of Universities with S& T Disciplines	31	31	31	31	33	Table 2 and Table 1.2(a)
R&D Manpower(HC)	17673	20706	19666	23644	24858	Table 3 and Table 5.2
Research Manpower(HC)	8375(25)	10385(25)	9352(25)	11409(25)	12342(25)	Table 3a and Table 5.2a
R&D Manpower(FTE)	5996.95(25)	7139.55(25)	6665.95(25)	8671.35(25)	9739.30(25)	Table 4 and Table 5.3
R&D Expenditure(ERD)	13780.42	22267.17	21259.82	25146.63	32866.33	Table 5 and Table 5.4
FTE Equivalent R&D Expenditure(SERD)	118.840(25)	428.502(25)	1086.630(25)	1286.911(25)	2139.182(25)	Table 6 and Table 5.5

5. Deemed Univ. Govt. Aided	2011-12	2012-13	2013-14	2014-15	2015-16	Source
No. of Universities	11	11	11	11	11	Table 1 and Table 1.2
No. of Universities with S& T Disciplines	11	11	11	10	10	Table 2 and Table 1.2(a)
R&D Manpower(HC)	12315	12104	12155	12336	5209	Table 3 and Table 5.2
Research Manpower(HC)	2609(11)	3449(11)	3506(11)	3971(10)	5322 (10)	Table 3a and Table 5.2a
R&D Manpower(FTE)	1586.65 (11)	2018.40 (11)	2081.40 (11)	2486.05 (10)	3449.55 (10)	Table 4 and Table 5.3
R&D Expenditure(ERD)	207.57	264.22	202.42	187.13	141.43	Table 5 and Table 5.4
FTE Equivalent R&D Expenditure(SERD)	53.766(11)	64.830(11)	71.478(11)	75.567(10)	89.364(10)	Table 6 and Table 5.5

6.Inst. under State Legislative Act	2011-12	2012-13	2013-14	2014-15	2015-16	Source
No. of Universities	5	5	5	5	5	Table 1 and Table 1.2
No. of Universities with S& T Disciplines	4	4	4	4	5	Table 2 and Table 1.2(a)
R&D Manpower(HC)	1194	1223	1719	1707	1414	Table 3 and Table 5.2
Research Manpower(HC)	406 (3)	707 (4)	932(4)	858(4)	962 (4)	Table 3a and Table 5.2a
R&D Manpower(FTE)	175.85	277.60	473.35	484.90	492.85	Table 4 and Table 5.3
R&D Expenditure(ERD)	948.78	304.02	671.24	843.49	501.53	Table 5 and Table 5.4

FTE Equivalent R&D Expenditure(SERD)	21.006(3)	26.660(4)	27.020(4)	32.065(4)	33.400(4)	Table 6 and Table 5.5
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7.State Public Univ.	2011-12	2012-13	2013-14	2014-15	2015-16	Source
No. of Universities	286	292	309	316	329	Table 1 and Table 1.2
No. of Universities with S& T Disciplines	210	208	215	219	219	Table 2 and Table 1.2(a)
R&D Manpower(HC)	189444	218887	255987	263235	251305	Table 3 and Table 5.2
Research Manpower(HC)	34622(209)	32622(208)	45175 (215)	48256 (219)	54989(219)	Table 3a and Table 5.2a
R&D Manpower(FTE)	23654.55 (209)	22032.0 (208)	27246.75 (215)	29811.45 (219)	34902.90 (219)	Table 4 and Table 5.3
R&D Expenditure(ERD)	39305.14	36602.53	72755.98	58549.33	41337.21	Table 5 and Table 5.4
FTE Equivalent R&D Expenditure(SERD)	393.600(209)	1034.401(208)	1097.991(215)	1260.331(219)	1272.503(219)	Table 6 and Table 5.5

8. State Pvt. University	2011-12	2012-13	2013-14	2014-15	2015-16	Source
No. of Universities	105	122	149	181	197	Table 1 and Table 1.2
No. of Universities with S& T Disciplines	72	108	110	138	173	Table 2 and Table 1.2(a)
R&D Manpower(HC)	41839	72306	77401	78396	64824	Table 3 and Table 5.2
Research Manpower(HC)	55(2)	59(2)	78(2)	63(2)	68(2)	Table 3a and Table

						5.2a
R&D Manpower(FTE)	12563(69)	21515(98)	24484(106)	29442(138)	28386(143)	Table 4 and Table 5.3
R&D Expenditure(ERD)	43343.39	10637.50	8089.31	8349.82	3037.34	Table 5 and Table 5.4
FTE Equivalent R&D Expenditure(SERD)	313.715	637.253	598.105	735.663	739.076	Table 6 and Table 5.5

9. State Open University	2011-12	2012-13	2013-14	2014-15	2015-16	Source
No. of Universities	13	13	13	13	13	Table 1 and Table 1.2
No. of Universities with S& T Disciplines	13	13	13	13	13	Table 2 and Table 1.2(a)
R&D Manpower(HC)	62	59	78	65	68	Table 3 and Table 5.2
Research Manpower(HC)	55(2)	59(2)	78(2)	63(2)	68(2)	Table 3a and Table 5.2a
R&D Manpower(FTE)	31.00(2)	34.25(2)	41.45(2)	30.75(2)	41.00(2)	Table 4 and Table 5.3
R&D Expenditure(ERD)	5.92	6.97	11.93	25.04	25.49	Table 5 and Table 5.4
FTE Equivalent R&D Expenditure(SERD)	0.700(2)	0.728(2)	0.902(2)	1.044(2)	1.170(2)	Table 6 and Table 5.5

10.Inst. of National Importance	2011-12	2012-13	2013-14	2014-15	2015-16	Source
No. of Universities	59	62	68	68	74	Table 1 and Table 1.2
No. of Universities with S& T	59	62	68	68	68	Table 2 and

Disciplines						Table 1.2(a)
R&D Manpower(HC)	53732	73013	85974	94081	103325	Table 3 and Table 5.2
Research Manpower(HC)	18477(48)	26900(50)	33615(50)	36144(50)	41915(62)	Table 3a and Table 5.2a
R&D Manpower(FTE)	12925.50 (48)	18644.60 (50)	25318.85 (50)	28089.25 (50)	33526.25 (62)	Table 4 and Table 5.3
R&D Expenditure(ERD)	4141.65	4770.72	6640.72	9584.74	5983.77	Table 5 and Table 5.4
FTE Equivalent R&D Expenditure(SERD)	1782.004(48)	1913.493(50)	3631.300(50)	4914.503(50)	5226.097(62)	Table 6 and Table 5.5

11.Others	2011-12	2012-13	2013-14	2014-15	2015-16	Source
No. of Universities	3	3	3	5	13	Table 1 and Table 1.2
No. of Universities with S& T Disciplines	3	3	3	5	8	Table 2 and Table 1.2(a)
R&D Manpower(HC)	596	718	267	1436	617	Table 3 and Table 5.2
Research Manpower(HC)	59(2)	77(2)	114(2)	153(3)	210(4)	Table 3a and Table 5.2a
R&D Manpower(FTE)	22.85(2)	32.55(2)	55.90(2)	85.35(3)	122.00(4)	Table 4 and Table 5.3
R&D Expenditure(ERD)	10.50	12.41	12.34	5.46	16.06	Table 5 and Table 5.4
FTE Equivalent R&D Expenditure(SERD)	1.814(2)	2.316(2)	2.433(2)	2.721(3)	3.267(4)	Table 6 and Table 5.5

1. Manpower (or Total Head Counts) in S&T Disciplines

(A) Manpower in R&D Activities in S&T Disciplines (MPFT) = Total Head counts of all the teachers engaged in S&T Disciplines + Total number of PG and above students in S&T disciplines.

Table 3 gives Type, Year and Gender wise Manpower for the five study years 2011-12 to 2015-16

**Table 3: Estimated Manpower (Head Counts) in S&T Disciplines:
Type, Year and Gender- Wise**

S. No	↓Type	2011-12			2012-13		
		Male	Female	Total	Male	Female	Total
1.	Central Universities	27942	10012	37954(40)	30408	11446	41854(40)
2.	Central Open Universities	155	60	215(1)	185	75	260(1)
3.	Deemed Universities Private.	72127	31456	103583(65)	80311	34679	114990(65)
4.	Deemed Universities Govt.	14293	3380	17673(25)	16509	4197	20706(25)
5.	Deemed Universities Govt. Aided	8379	3936	12315(11)	8370	3734	12104(11)
6.	Inst.Under Legislature Act	886	308	1194(3)	954	269	1223(4)
7.	StatePublic University	132439	57005	189444(209)	151769	67118	218887(208)

8.	State Private University	29936	11903	41839(69)	53167	19139	72306(98)
9.	State Open University	46	16	62(2)	44	15	59(2)
10.	Inst. of National Importance	44615	9117	53732(48)	60840	12173	73013(50)
11.	Others	448	148	596(2)	540	178	718(2)
	Combined Total	331266	127341	458607(475)	403097	153023	556120(506)

Source: DST Project 2016 Quantification of R&D Resources in higher education in India, BHU (Derived from the AISHE database 2011-12, 2012-13, 2013-14, 2014-15 and 2015-16).

Note 1: Figures in () are the number of S&T HEO's type and year wise, contributing to various Estimates

1. Manpower in S&T disciplines includes: (i) Professors, Associate Professors and Assistant Professor of S&T disciplines.
2. (ii) Students of P.G. and Higher level in S&T disciplines.
(iii) Computed from equations (2.1), (2.2) and (2.3) in Chapter 2.

Table 3 Contd.

S. No	↓Type	2013-14			2014-15		
		Male	Female	Total	Male	Female	Total
1.	Central Universities	37404	14339	51743(40)	40248	15663	55911 (40)
2.	Central Open Universities	96	38	134(1)	100	42	142(1)
3.	Deemed Universities Private	79085	34431	113516 (65)	75202	32066	107268 (66)

4.	Deemed Universities Govt.	15846	3820	19666 (25)	18658	4986	23644 (25)
5.	Deemed Universities Govt. Aided	8407	3748	12155 (11)	8258	4078	12336 (10)
6.	Inst. Under Legislature Act	1325	394	1719 (4)	1336	371	1707 (4)
7.	State Public University	175076	80911	255987 (215)	179632	83603	263235 (219)
8.	State Private University	56887	20514	77401 (106)	56700	21696	78396 (138)
9.	State Open University	59	19	78(2)	45	20	65(2)
10.	Inst. of National Importance	70660	15314	85974 (50)	77250	16831	94081 (50)
11.	Others	183	84	267(2)	1045	391	1436(3)
	Combined Total	445028	173612	618640(521)	458474	179747	638221(558)

Source: DST Project 2016 Quantification of R&D Resources in higher education in India, BHU (Derived from the AISHE database 2011-12, 2012-13, 2013-14, 2014-15 and 2015-16).

Note1: Figures in () are the number of S&T HEO's type and year wise, contributing to various Estimates

2. Manpower in S&T disciplines includes:

(i) Professors, Associate Professors and Assistant Professor of S&T disciplines.

(ii) Students of P.G. and Higher level in S&T disciplines.

(iii) Computed from equations (2.1), (2.2) and (2.3) in Chapter 2.

Table 3.Contd.

2015-16				
S. No	↓Type	Male	Female	Total
1.	Central Universities	38432	14873	53305(40)
2.	Central Open Universities	105	44	149(1)
3.	Deemed Universities Pvt.	64084	29220	93304 (67)
4.	Deemed Universities Govt.	19428	5430	24858 (25)
5.	Deemed Universities Govt. Aided	3613	1596	5209 (10)
6.	Inst. Under Legislature Act	1096	318	1414 (4)
7.	State Public University	166943	84362	251305 (219)
8.	State Private University	46890	17934	64824 (143)
9.	State Open University	41	27	68(2)
10.	Inst. of National Importance	84280	19045	103325 (62)
11.	Others	425	192	617(4)
	Combined Total	425337	173041	598378(577)

Source: DST Project 2016 Quantification of R&D Resources in higher education in India, BHU (Derived from the AISHE database 2011-12, 2012-13, 2013-14, 2014-15 and 2015-16).

Note 1: Figures in () are the number of S&T HEO's type and year wise, contributing to various Estimates

2: Manpower in S&T disciplines includes: (i) Professors, Associate Professors and Assistant Professor of S&T disciplines.

(ii) Students of P.G. and Higher level in S&T discipline Full Time Engagement (FTE)
R&DA Activities in S&T Disciplines
(iii) Computed from equations (2.1), (2.2) and (2.3) in Chapter 2.

(B) For calculating Full Time Engagement (FTE) and FTE Equivalent salary Expenditure in S&T Disciplines (SERD), the Research Manpower (= the numbers of three categories of teachers and the PhD and/or higher level students are required (see equations (2.5) and (2.29) in Chapter 2). So this required Research Manpower- Type, Year and Gender wise is given in Table 3a.

**Table 3a : Estimated Research Manpower (Head Counts) in S&T Disciplines:
Type, Year and Gender- Wise**
2011-12 Research Manpower 2012-13 Research Manpower
(in Numbers)

S. no.	↓Type	Male	Female	Total	Male	Female	Total
1.	Central Universities	5546	1478	7024(40)	11247	3321	14568(40)
2.	Central Open Universities	155	60	215(1)	165	55	220(1)
3.	Deemed Universities Pvt.	24352	9945	34297(65)	29576	11991	41567(65)
4.	Deemed Universities Govt.	6806	1569	8375(25)	8370	2015	10385 (25)
5.	Deemed Universities Govt. Aided	1836	773	2609 (10)	2426	1023	3449 (10)
6.	Inst. Under Legislature Act	344	62	406 (3)	574	133	707 (4)
7.	State Public University	25740	8882	34622(209)	25095	7527	32622 (208)
8.	State Private University	9396	3167	12563 (69)	16201	5314	21515(98)
9.	State Open	41	14	55(2)	45	9	59(2)

	University						
10.	Inst. of National Importance	15318	3159	18477(48)	22256	4644	26900 (50)
11.	Others	41	18	59(2)	56	21	77(2)
	Combined Total	89575	29127	118702(475)	116011	36058	152069(506)

Source: DST Project 2016 Quantification of R&D Resources in higher education in India, BHU (Derived from the AISHE database 2011-12, 2012-13, 2013-14, 2014-15 and 2015-16).

Note1 : Figures in () are the number of S&T HEO's type and year wise, contributing to various Estimates

2 : Research Manpower in S&T disciplines includes: (i) Professors, Associate Professors and Assistant Professors of S&T disciplines.

(ii) Students of Ph.D. and Higher level in S&T disciplines.

Contd.

Table 3a Contd.

2013-14 Research Manpower 2014-15 Research Manpower

(In numbers)

S. no.	Type	Male	Female	Total	Male	Female	Total
1.	Central Universities	12415	3867	16282(40)	11489	3391	14880(40)
2.	Central Open Universities	96	38	134(1)	100	34	134(1)
3.	Deemed Universities Pvt.	27992	11146	39138(65)	25391	9738	35129(66)
4.	Deemed Universities Govt.	7541	1811	9352 (25)	16509	2309	11409(25)
5.	Deemed Universities Govt. Aided	2436	1070	3506(10)	2694	1277	3971(11)
6.	Inst. Under Legislature Act	773	159	932(4)	730	128	858(4)
7.	State Public University	34260	10915	45175 (215)	36046	12210	48256(219)
8.	State Private University	18047	6437	24484(106)	22043	7399	29442 (138)
9.	State Open University	59	19	78(2)	43	19	63(2)

10.	Inst. of National Importance	27303	6312	33615(50)	29353	6791	36144(50)
11.	Others	85	29	114(2)	113	40	153(3)
	Combined Total	131007	41803	172810(521)	137103	43336	180439(558)

Source: DST Project 2016 Quantification of R&D Resources in higher education in India, BHU (Derived from the AISHE database 2011-12, 2012-13, 2013-14, 2014-15 and 2015-16).

Note 1 : Figures in () are the number of S&T HEO's type and year wise, contributing to various Estimates

2: Research Manpower in S&T disciplines includes: (i) Professors, Associate Professors and Assistant Professors of S&T disciplines.

(ii) Students of Ph.D. and Higher level in S&T disciplines.

Table 3a. Contd

2015-16 Research Manpower(In Numbers)

S. no.	↓Type	Male	Female	Total
1.	Central Universities	13650	4132	17782(40)
2.	Central Open Universities	92	38	130(1)
3.	Deemed Universities Pvt.	28055	2620	40686 (67)
4.	Deemed Universities Govt.	9722	2620	12342(24)
5.	Deemed Universities Govt. Aided	3275	2047	5322(11)
6.	Inst. Under Legislature Act	810	152	962(4)
7.	State Public University	39255	15734	54989(219)
8.	State Private University	21301	7085	28386(143)
9.	State Open University	41	27	68(2)
10.	Inst. of National	33933	7982	41915(62)

	Importance			
11.	Others	163	47	210(4)
	Combined Total	150297	52495	202792(577)

Source: DST Project 2016 Quantification of R&D Resources in higher education in India, BHU (Derived from the AISHE database 2011-12, 2012-13, 2013-14, 2014-15 and 2015-16).

Note 1: Figures in () are the number of S&T HEO's type and year wise, contributing to various Estimates

2: Research Manpower in S&T disciplines includes: (i) Professors, Associate Professors and Assistant Professor of S&T disciplines.

(ii) Students of Ph.D. and Higher level in S&T disciplines.

2. Full Time Engagement (FTE) in R&D Activities in S&T Disciplines

Estimated FTE is presented in Table 4 for each of the 11 types for the five study years 2011 to 2015 Gender wise.

Table 4 : Estimated Full Time Engagement (FTE) in S&T Disciplines:

Type, Year and Gender- Wise

S. no.	↓Type	2011-12			2012-13		
		Male	Female	Total	Male	Female	Total
1.	Central Universities	3750.35	1090.00	4840.35(40)	6383.35	2373.00	8756.35(40)
2.	Central Open Universities	100.75	40.60	141.35(1)	117.25	42.40	159.65(1)
3.	Deemed Universities Pvt.	10726.20	4485.45	15211.65(65)	13242.55	5651.65	18894.20(65)
4.	Deemed Universities Govt.	4774.20	1222.75	5996.95(25)	5515.05	1624.50	7139.55(25)

5.	Deemed Universities Govt. Aided	1100.25	486.40	1586.65(10)	1413.60	604.80	2018.40(10)
6.	Inst. Under Legislature Act	151.50	24.35	175.85 (3)	231.10	46.50	277.60(4)
7.	State Public University	17186.55	6468.00	23654.55 (209)	16124.45	5908.45	22032.90(208)
8.	State Private University	3475.65	1140.35	4616.00 (69)	5744.75	1924.40	7669.15 (98)
9.	State Open University	23.00	8.00	31.00(2)	27.00	7.25	34.25(2)
10.	Inst. of National Importance	10505.10	2420.40	12925.50 (48)	15147.20	3497.40	18644.60 (50)
11.	Others	15.60	7.25	22.85(2)	23.05	9.50	32.55(2)
	Combined Total	51809.15	17393.55	69202.70 (475)	63969.35	21689.85	85659.20 (506)

Source: DST Project 2016 Quantification of R&D Resources in higher education in India, BHU (Derived from the AISHE database 2011-12, 2012-13, 2013-14, 2014-15 and 2015-16).

Note 1: Figures in () are the number of S&T HEO's type and year wise, contributing to various Estimates

2. FTE is calculated from number of Professors, Associate Professors, Assistant Professors and number of Research Students in S&T Disciplines

Contd.

Table 4 Contd.

2013-14 FTE (Hours/week) 2014-15 FTE (Hours/week)

S. no.	↓Type	Male	Female	Total	Male	Female	Total
1.	Central Universities	8175.90	2980.55	11156.45(40)	7104.90	2437.15	9542.05 (40)
2.	Central Open Universities	38.00	15.15	53.15(1)	46.00	15.85	61.85(1)
3.	Deemed Universities Pvt.	14243.85	4956.15	19200.00 (65)	13110.65	4735.10	17845.75 (66)
4.	Deemed Universities Govt.	5247.15	1418.80	6665.95 (25)	6778.90	1892.45	8671.35 (25)
5.	Deemed Universities Govt. Aided	1441.05	640.10	2081.15 (10)	1694.90	791.15	2486.05 (11)
6.	Inst. Under Legislature Act	405.00	68.35	473.35 (4)	420.80	64.10	484.90 (4)
7.	State Public University	19989.90	7256.85	27246.75 (215)	21587.10	8224.35	29811.45 (219)
8.	State Private University	6768.95	2494.25	9263.20 (106)	8158.85	2852.45	11011.30 (138)
9.	State Open University	32.20	9.25	41.45(2)	22.25	8.50	30.75(2)
10.	Inst. of National Importance	20126.70	5192.15	25318.85 (50)	22355.25	5734.00	28089.25 (50)
11.	Others	40.10	15.80	55.90(2)	62.30	23.05	85.35(3)

	Combined	76508.80	25047.40	101556.20	81341.90	26778.15	108120.05
	Total			(521)			(558)

Source: DST Project 2016 Quantification of R&D Resources in higher education in India, BHU (Derived from the AISHE database 2011-12, 2012-13, 2013-14, 2014-15 and 2015-16).

Note1: Figures in () are the number of S&T HEO's type and year wise, contributing to various Estimates

2. FTE is calculated from number of Professors, Associate Professors, Assistant Professors and number of Research Students in S&T Disciplines

Table 4 Contd.

2015-16

FTE(Hours/week)

S. no.	↓Type	Male	Female	Total
1.	Central Universities	9310.05	3196.75	12506..80(40)
2.	Central Open Universities	28.70	11.80	40.50(1)
3.	Deemed Universities Pvt.	13399.10	6404.95	19804.05 (67)
4.	Deemed Universities Govt.	7539.00	2200.30	9739.30 (24)
5.	Deemed Universities Govt. Aided	2140.85	1308.70	3449.55 (11)
6.	Inst. Under Legislature Act	430.30	62.55	492.85(4)
7.	State Public University	24010.45	10892.45	34902.90 (219)

8.	State Private University	7698.10	2378.40	10076.50 (143)
9.	State Open University	22.25	18.75	41.00(2)
10.	Inst. of National Importance	26460.45	7065.80	33526.25 (62)
11.	Others	95.70	26.30	122.00(4)
	Combined Total	91134.55	33566.75	124701.70 (577)

Source: DST Project 2016 Quantification of R&D Resources in higher education in India, BHU (Derived from the AISHE database 2011-12, 2012-13, 2013-14, 2014-15 and 2015-16).

Note1: Figures in () are the number of S&T HEO's type and year wise, contributing to various Estimates

2. FTE is calculated from number of Professors, Associate Professors, Assistant Professors and number of Research Students in S&T Disciplines

3. Expenses on Research and Development in S&T Disciplines (ERD)

Estimated ERD are given in Table 5, calculated for each of the 11 types of HEO's for the five study Years 2011-12 to 2015-16. These are obtained from:

Expenses on R&D activities in S&T disciplines on Teachers, on Students and on Non-teaching Staff in research laboratories in each type of HEO

= Expenses on (Salary of S&T Teachers, laboratories of teachers and organizing or participation in

Conferences) + Expenses on (Scholarship, laboratories, library and participation in Conferences) of S&T Students + Expenses on Salary of Non-teaching staff (NTS) engaged in S&T research laboratories.

The estimated ERD are given in Table 5 below:

**Table 5: Expenditure on R&D Activities in Science and Technology (ERD)
Type wise and Year wise**

(In Crore Rupees)

S. No.	Type of HEO ↓	2011-12	2012-13	2013 - 14	2014 - 15	2015-16
1	Central University	1283.15(40)	1774.54(40)	4157.53(40)	3569.14(40)	2672.18(40)
2	Central Open University	88.12(1)	68.56(1)	89.90(1)	81.57(1)	83.71(1)

3	Deemed University Pvt.	5908.20(65)	3002.90(65)	5872.62(65)	3683.95(66)	4497.27(67)
4	Deemed University Govt.	13780.42(25)	22267.17(25)	21259.82(25)	25146.63(25)	32866.33(25)
5	Deemed Univ. Govt. Aided	207.57(11)	264.22(11)	202.42(11)	187.13(10)	141.43(10)
6	Inst. Under State Legislature Act	948.78 (3)	304.02(4)	671.24(4)	843.49(4)	501.53(4)
7	State Public University	39305.14(209)	36602.53(208)	72755.98(215)	58549.33(219)	41337.21(219)
8	State Private University	43343.39 (69)	10637.50 (98)	8089.31 (106)	8349.82 (138)	3037.34(143)
9	State Open University	5.92(2)	6.97(2)	11.93(2)	25.04(2)	25.49(2)
10	Institute of National Importance	4141.65(48)	4770.72(50)	6640.72(50)	9584.74(50)	5983.77(62)
11	Others	10.50(2)	12.41(2)	12.34(2)	5.46(3)	16.06(4)
	Combined Total	109022.84(475)	79711.54(506)	119781.81(521)	110026.30(558)	91162.32(577)

Source: DST Project 2016 Quantification of R&D Resources in higher education in India, BHU (Derived from the AISHE database 2011-12, 2012-13, 2013-14, 2014-15, 2015-16).

Note : (i) Values in () are number of type and year –wise HEO's contributing in various estimates
(ii) computed from equations (2.6),(2.7),(2.8),(2.12),(2.16),(2.20),(2.23),(2.27) in Chapter 2.

4. The Estimated FTE Equivalent Salary Expenditure in R&D Activities in S&T Disciplines (SERD)

It has been computed from the FTE equivalent salary paid, calculated from average monthly salary under VI Pay commission rates to the three categories viz. the Professors, Associate Professor and Assistant Professors and the scholarship paid to Research scholars, as given in the equation (2.29). These are presented in Table 6 below for all the 11 types, years and gender wise.

**Table 6 : Estimated FTE Equivalent Salary Exp.(SERD) in S&T Disciplines:
Type, Year and Gender- Wise
2011-12 2012-13 (In Crore Rupees)**

S. no.	↓Type	Male	Female	Total	Male	Female	Total
1.	Central Universities	198.429	48.599	247.028 (40)	241.128	46.482	287.610 (40)
2.	Central Open Universities	3.620	0.587	4.207(1)	3.423	0.917	4.340(1)
3.	Deemed Universities Pvt.	657.319	243.395	900.714 (65)	771.285	280.585	1051.870 (65)
4.	Deemed Universities Govt.	94.174	24.666	118.840 (25)	348.852	79.650	428.502 (25)
5.	Deemed Universities Govt. Aided	38.970	14.796	53.766 (10)	47.228	17.652	64.880 (10)
6.	Inst. Under Legislature Act	18.110	2.896	21.006 (3)	22.177	4.483	26.660 (4)

7.	State Public University	312.283	81.317	393.600 (209)	822.716	211.685	1034.401 (208)
8.	State Private University	239.458	74.257	313.715(69)	482.299	154.954	637.253(98)
9.	State Open University	0.525	0.175	0.700(2)	0.531	0.197	0.728(2)
10.	Inst. of National Importance	1448.94 6	333.058	1782.004 (48)	1563.786	349.707	1913.493(50)
11.	Others	1.419	.395	1.814(2)	1.780	.536	2.316(2)
	Combined Total	3013.253	824.141	3837.394 (475)	4305.205	1146.848	5452.053 (506)

Source: DST Project 2016 Quantification of R&D Resources in higher education in India, BHU (Derived from the AISHE database 2011- 12, 2012-13, 2013-14, 2014-15 and 2015-16).

Note 1: Figures in () are the number of S&T HEO's type and year wise, contributing to various Estimate

2. SERD includes: (i) Professors, Associate Professors and Assistant Professor of S&T disciplines.
(ii) Students of PhD or Higher level in S&T disciplines.

Table 6 Contd.

2013-14 SERD 2014-15 SERD

(In Crore Rupees)

S. no.	↓Type	Male	Female	Total	Male	Female	Total
1.	Central Universities	273.150	59.202	332.352(40)	305.023	68.879	373.902(40)
2.	Central Open Universities	3.630	1.408	5.038(1)	3.925	1.492	5.417(1)
3.	Deemed Universities Pvt.	763.76 7	295.901	1059.668 (65)	949.339	357.146	1306.485 (66)

4.	Deemed Universities Govt.	855.607	231.023	1086.63(25)	1004.568	282.342	1286.911(25)
5.	Deemed Universities Govt. Aided	48.318	23.160	71.478(10)	49.172	26.395	75.567(11)
6.	Inst. Under Legislature Act	22.516	4.504	27.020(4)	28.040	4.025	32.065(4)
7.	State Public University	869.944	228.047	1097.991(215)	982.820	277.511	1260.331(219)
8.	State Private University	507.088	171.462	678.550(106)	561.146	174.517	735.663(138)
9.	State Open University	0.900	0.002	.902(2)	1.041	0.003	1.044(2)
10.	Inst. of National Importance	2910.086	721.214	3631.300(50)	3912.378	1002.125	4914.503(50)
11.	Others	1.922	0.511	2.433(2)	2.123	0.598	2.721(3)
	Combined Total	6256.928	1736.434	7993.362(521)	7799.575	2195.034	9994.609(558)

Source: DST Project 2016 Quantification of R&D Resources in higher education in India, BHU (Derived from the AISHE database 2011-12, 2012-13, 2013-14, 2014-15 and 2015-16).

Note1: Figures in () are the number of S&T HEO's type and year wise, contributing to various Estimates

2: SERD includes: (i) Professors, Associate Professors and Assistant Professor of S&T disciplines.

(ii) Students of PhD or Higher level in S&T disciplines.

Table 6 Contd.
2015-16 **SERD**

(In Crore Rupees)

S. no.	↓Type	Male	Female	Total
--------	-------	------	--------	-------

1.	Central Universities	335.178	78.233	413.411(40)
2.	Central Open Universities	3.927	1.606	5.533(1)
3.	Deemed Universities Pvt.	1537.041	673.389	2210.430(67)
4.	Deemed Universities Govt.	1642.86	496.322	2139.182(24)
5.	Deemed Universities Govt. Aided	55.324	34.040	89.364(11)
6.	Inst. Under Legislature Act	28.200	5.164	33.364(4)
7.	State Public University	980.461	292.042	1272.503(219)
8.	State Private University	568.271	170.805	739.076 (143)
9.	State Open University	1.164	0.006	1.170(2)
10.	Inst. of National Importance	4173.731	1052.366	5226.097(62)
11.	Others	2.562	.705	3.267(4)
	Combined Total	9382.719	2804.678	12133.397 (577)

Source: DST Project 2016 Quantification of R&D Resources in higher education in India, BHU (Derived from the AISHE Database 2011- 12, 2012-13, 2013-14, 2014-15 and 2015-16).

Note1: Figures in () are the number of S&T HEO's type and year wise, contributing to various Estimates
2: SERD includes: (i) Professors, Associate Professors and Assistant Professor of S&T disciplines.
(ii) Students of PhD or Higher level in S&T disciplines.

5. Some Important Observations about ERD and SERD:

Values of ERD is larger than the SERD values, both are calculated on Research mainpower (Phd and or Higher level students and the three category of teachers) in S&T disliances. This is because

(a) ERD includes expenses on (i) participation' organizations of conferences (RACT) and (ii) Libeary and libratory (LILB) apart from the Scholarship to research student and Salary to teachers.

The SERD is based on only the Scholarship to research student and salary (VI) pay commission paid to the three categories or teachers. or four of the belonging to S&T disliances.

(b) The RACT and LILB are taken from the block 1G of final data of AISHE database the an othentics financial data of AISHE may be casing this difference.

Since revised salaries in VII Pay commission was not paid till 2015-16, VI Pay Commission Salary band and Grade Pay has been used in SERD.

6. Percentage of Students Enrolment in Categories of Disciplines

It is of interest to know whether there is an inclination of students to enrol in some specific disciplines. To identify the disciplines which are more preferred, the percentage P, of students' enrolments is computed for each of the 92 disciplines in each of the five study years. 2011-12 to 2015-16.

The number of students' enrolment in each discipline in each of 11 types of HEO's are determined in each of the five study years. Table 5.6a (in Appendix) presents these numbers. Total enrolment for each of the 92 disciplines is shown in the last but one column. From these, the percentage (=P) of the enrolments in each discipline have been obtained as shown in the last column of the said table.

Table 7 gives below the categories of disciplines according to percentage of enrolments, year wise in all the 11 types of HEO's. The summarized findings of this table are listed in Chapter 6 Section 6.6.

The name of the disciplines with corresponding numbers have been provided as a ready reference below this Table.

Table7: Various Disciplines According to Percentage of Students' Enrolments Year wise

2011-12			
5%<P≤10.5%	2%≤P<5%	1%≤P<2%	P<1%
20,28,29,71, 78,80(6)	1,10,12,13 ,15,17,36, 59,70,83, 92(11)	9,50,67,68 ,69,73,75, 77,82,85 (10)	2,3,4,5,6,7,8,11,14,16,18,19,21,22,23,24,25,26,27,30,31 ,32,33,34,35,37,38,39,40,41,42,43,44,45,46,47,48,49,51 ,52,53,54,55,56,57,58,60,61,62,63,64,65,66,72,74,76,79 ,81,84,86,87,88,89,90,91(65)
2012-13			
5%<P≤10.5%	2%≤P<5%	1%≤P<2%	P<1%

10,71,78,80, 90(5)	1,12,13,15, 17,26,28, 29,36,59, 70,83,92 (13)	9,50,67, 68,73,75, 77,82,85 (9)	2,3,4,5,6,7,8,11,14,16,18,19,20,21,22,23,24,25,27,30,31, 32,33,34,35,37,38,39,40,41,42,43,44,45,46,47,48,49,51, 52,53,54,55,56,57,58,60,51,62,63,64,65,66,69,72,74,76 ,79,81,84,86,87,88,89,91(65)
2013-14			
5%<P≤10.5%	2%≤P<5%	1%≤P<2%	P<1%
28(1)	10,13,20,2 9,71,78,80 (7)	1,9,12,15, 17,36,70, 83,90,92 (10)	2,3,4,5,6,7,8,11,14,16,18,19,21,22,23,24,25,26,27,30,31, 32,33,34,35,37,38,39,40,41,42,43,44, 45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62, 63,64,65,66,67,68,69,72,73,74,75,76,77,79,81,82,84,85, 86,87,88,89,91(74)
2014-15			
5%<P≤10.5%	2%≤P<5%	1%≤P<2%	P<1%
10,20,28,29, 71,78,80(7)	1,12,13,15, 17,69,70, 83,90 (9)	8,9,59,68, 73,75,77, 79,82,85,9 2 (11)	2,3,4,5,6,7,11,14,16,18,19,21,22,23,24,25,26,27,30,31,32,33,34,35,36,37,38,39,40,41, 42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,60,61,62,63,64,65,66,67,72,74,7 6,81,84,86,87,88,89,91 (65)
2015-16			
5%<P≤10.5%	2%≤P<5%	1%≤P<2%	P<1%
20,28,71,78, 80(5)	1,9,10,12, 13,15,17, 29,69,70,8 3,92(12)	8,59,67,68 ,73,75,77, 79,82,85 (10)	2,3,4,5,6,7,11,14,16,18,19,21,22,23,24,25,26,27,30,31,32,33,34,35,36,37,38,39,40,41, 42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,60,61,62,63,64,65,66,72,74,76,8 1,84,86,87,88,89,90,91 (65)

Source: DST Project 2016 Quantification of R&D Resources in higher education in India, BHU (Derived from the AISHE database 2011-12, 2012-13, 2013-14, 2014-15 and 2015-16).

Note 1. P is the percentage of Students' Enrolments obtained in Table 5.6a

2. () contain number of disciplines with indicated range of P.

List of Disciplines in Table 7

Disciplines	Disciplines	Disciplines
1. Agriculture	32. Anesthesiology	63. Public Health
2. Forestry	33. Ayurveda	64. Radiology
3. Horticulture	34. Bio-Physics	65. Radiotherapy
4. Sericulture	35. Bio-Statistics	66. Urology
5. Aeronautical Engineering	36. Bio-Technology	67. Bio chemistry
6. Agriculture Engineering	37. Cardiology	68. Bio science
7. Architecture	38. Dentistry	69. Bio Technology
8. Chemical Engineering	39. Dermatology	70. Botany

9. Civil Engineering	40. Endocrinology	71. Chemistry
10. Computer Engineering	41. ENT	72. Electronics
11. Dairy Technology	42. Forensic Medicine/Toxicology	73. Environmental science
12. Electrical Engineering	43. Gastroenterology	74. Genetics
13. Electronics Engineering	44. General Medicine	75. Geology
14. Food Technology	45. General Surgery	76. Geo-Physics
15. Information Technology	46. Gynaecology	77. Life Science
16. Marine Engineering	47. Haematology	78. Mathematics
17. Mechanical Engineering	48. Hepatology	79. Microbiology
18. Metallurgical Engineering	49. Homeopathy	80. Physics
19. Mining Engineering	50. Micro-Biology	81. Science
20. Other Eng. and Technology	51. Nephrology	82. Statistics
21. Transportation planning	52. Neurology	83. Zoology
22. Planning	53. Nursing	84. Anthropology
23. Urban planning	54. Oncology	85. Economics
24. Fisheries science	55. Ophthalmology	86. Geography
25. Food Technology	56. Orthopaedics	87. Population Studies
26. Home Science	57. Pathology	88. Dairy Science
27. Nutrition	58. Pediatrics	89. Veterinary & Animal Sciences
28. Computer Application	59. Pharmacy	90. New Engineering & Technology
29. Computer Science	60. Physiology	91. Other Medical Science
30. Marine Science / Oceanography	61. Plastic Surgery	92. Other Science
31. Anatomy	62. Psychiatry	

Source: DST Project 2016 Quantification of R&D Resources in higher education in India, BHU (Derived from the AISHE database 2011-12, 2012-13, 2013-14, 2014-15 and 2015-16) and Table 1.5 (a) of this project.