

National Institutional Ranking Framework
Ministry of Human Resource Development
Government of India
NIRF Data Submission Report

InstituteID :NIRF-COLL-4544 (College)
Institute Name :National College

FacultySummary

Sr.No	Academic-year	Male Ph.D	Male NetSlet	Female Ph.D	Female NetSlet	Male One Sem [Visiting]	Male Two Sem [Visiting]	Female One Sem [Visiting]	Female Two Sem [Visiting]
1	2014-15	82	0	17	1	0	2	0	0
2	2013-14	80	5	9	3	0	2	0	0
3	2012-13	73	2	10	1	0	3	0	0

IPR Summary

Sr.No	Financial-Year	Patents Filed	Patents Granted	Patents Licenced	Earnings (Rs. in Lakhs)
1	2014-15	0	0	0	0.00
2	2013-14	0	0	0	0.00
3	2012-13	0	0	0	0.00

Facilities Summaries

Sr.No	Academic-Year	Library On Physical Resources: Books & Journals	Library On e-Resources: e-Journals, e-books, etc.	Laboratories On Creation/ Up-gradation & Equipment	Laboratories On Maintenance & Safety	Total Area (in Sq. Mtrs.) Outdoor	Total Area (in Sq. Mtrs.) Indoor	Annual Expenditure (Rs. In Lakhs)	Extra Curricular Expenditure (Rs. In Lakhs)	Number of Women Members	Zero Deficiency Report for Laboratories	Zero Deficiency Report for Libraries
1	2014-15	3.22	0.05	88.17	21.53	20234.30	1409.52	5.67	8.02	2	Yes	Yes
2	2013-14	3.38	0.05	95.76	3.12	20234.30	1409.52	6.28	6.32	1	Yes	Yes
3	2012-13	4.44	0.05	164.05	4.88	20234.30	0.00	5.34	9.64	1	Yes	Yes

Physical Facilities

Sr.No	Academic-Year	Do your buildings have ramps?	Do your buildings have lifts?	Do you have provision for walking aids?	Do your buildings have specially designed toilets for handicapped students?	Do you have braille lab/special lab for blind/handicapped students?	Do you have special facilities for blind students?
1	2015	More than 50%	Less than or equal to 50%	Yes	In Less than or equal to 50% Buildings	Yes	Yes

Graduation Outcomes

Sr.No	Academic-Year	UPSC	STATE	GATE	NET	CAT	OTHER EXAM	SLET	SSC	Higher Studies with Examination	Higher Studies without Examination
1	2014-15	0	2	0	3	0	0	0	0	0	641
2	2013-14	0	3	0	2	0	0	0	0	0	629
3	2012-13	0	2	0	2	0	0	0	0	0	524

Student Details

Sr.No	Academic-Year	Program Level	Application Received	Approved Intake	No. of Students admitted in 1st year Within State	No. of Students admitted in 1st year Outside State	No. of Students admitted in 1st year Outside Country	Lateral Entry in 2nd year for UG program only Within State	Lateral Entry in 2nd year for UG program Outside State	Lateral Entry in 2nd year for UG program Outside Country	Male	Female	Total Student	Socially Challenged and Economically Backward	Physically Challenged	No. of Students in University Exam Firstyear	No. of Students in University Exam Lateral	No. of Students Graduating in Minimum Time
1	2014-15	UG	2428	1510	887	12	0	0	0	0	2026	773	2799	2791	8	899	1	667
2	2013-14	UG	2307	1450	928	8	0	2	0	0	1825	737	2562	2148	10	936	2	607
3	2012-13	UG	1819	1450	827	7	0	1	0	0	1703	650	2353	2334	10	831	0	558
4	2014-15	PG	760	726	295	1	0				354	231	585	579	5	296	0	258
5	2013-14	PG	784	631	287	5	0				465	224	689	678	7	292	0	317
6	2012-13	PG	957	631	359	2	0				460	216	676	359	5	361	0	236
7	2014-15	PG-Int	0	0	0	0	0				0	0	0	0	0	0	0	0
8	2013-14	PG-Int	0	0	0	0	0				0	0	0	0	0	0	0	0
9	2012-13	PG-Int	0	0	0	0	0				0	0	0	0	0	0	0	0
10	2014-15	Ph.D.	74	74	74	0	0				40	34	74	73	1	74	0	19
11	2013-14	Ph.D.	61	61	61	0	0				32	29	61	61	0	61	0	17
12	2012-13	Ph.D.	30	30	30	0	0				19	11	30	29	0	30	0	32

Public Examination

Sr.No	Academic-Year	Public Examname	No. of Successful Students
1	2014-15	UPSC-0-SEP-2015	0
2	2014-15	UPSC-UPSC-OCT-2015	0
3	2014-15	State Public Service Commission-Group II-JAN-2013	1

Student Events

Sr.No	Academic-Year	Event Name	Event Type
1	2012-13	CRICKET	State
2	2012-13	FOOT BALL	State
3	2012-13	KABADI	State
4	2013-14	CRICKET	State
5	2013-14	ATHLETIC 100 MTRS SPRINT	State
6	2013-14	ATHLETIC(HURDLES)	State
7	2013-14	ATHLETIC(HURDLES)	State
8	2013-14	CYCLING	State
9	2014-15	CRICKET	State
10	2014-15	FOOT BALL	State
11	2014-15	CHESS	State
12	2014-15	FENCING	State
13	2013-14	CYCLING	National
14	2014-15	ATHLETICS	State

Faculty Details

Sr.No	Name of the Faculty	Gender	Experience Regular[Month]	Experience Contractual[Month]	Designation	Qualification	Joining Date	Leaving Date	Association Type
1	K.Anbarasu	Male	408	0	Associate Professor	PhD	20-Jan-1982	-	Regular
2	M.N.Abubacker	Male	372	60	Associate Professor	PhD	02-Feb-1985	-	Regular
3	D.Srinivasan	Male	408	0	Associate Professor	PhD	02-Jan-1984	-	Regular
4	R.Subramanian	Male	312	0	Associate Professor	PhD	25-Oct-1991	-	Regular
5	T.Sridhar	Male	240	0	Associate Professor	PhD	06-Dec-1997	-	Regular
6	S.Thirumaran	Male	192	48	Associate Professor	PhD	19-Jun-2000	-	Regular
7	V.R.Mathiazhagan	Male	192	0	Associate Professor	PhD	27-Aug-2001	-	Regular
8	N.Renganayaki	Female	108	0	Asstt. Professor	PhD	19-Dec-2007	-	Regular
9	R.Srinivasan	Male	432	0	Associate Professor	PhD	01-Sep-1980	-	Regular
10	S.Ramanath	Male	432	0	Associate Professor	PhD	01-Sep-1980	-	Regular
11	R.Narayanasamy	Male	408	0	Associate Professor	PhD	05-Jul-1982	-	Regular
12	R.Hariharan	Male	384	0	Associate Professor	PhD	06-Jan-1984	-	Regular
13	U.Sathyamurthy	Male	372	0	Associate Professor	PhD	11-Feb-1985	-	Regular
14	S.V.Srinivasa Vallabhan	Male	336	0	Associate Professor	PhD	01-Feb-1988	-	Regular
15	R.Sundhararaman	Male	240	0	Associate Professor	PhD	04-Jul-1996	-	Regular
16	K.Kumar	Male	192	0	Associate Professor	PhD	19-Jun-2000	-	Regular
17	K.V.Kannan	Male	300	72	Associate Professor	PhD	28-Oct-1991	-	Regular
18	B.Muthukumar	Male	300	36	Associate Professor	PhD	28-Oct-1991	-	Regular
19	S.Srinivasan	Male	288	72	Associate Professor	PhD	19-Feb-1992	-	Regular
20	V.Nandagopalan	Male	240	96	Associate Professor	PhD	03-Jul-1996	-	Regular
21	E.Natarajan	Male	108	72	Asstt. Professor	PhD	05-Mar-2007	-	Regular
22	S.P.Anand	Male	108	84	Asstt. Professor	PhD	19-Dec-2007	-	Regular
23	K.Ramar	Male	108	0	Asstt. Professor	PhD	19-Dec-2007	-	Regular
24	K.Lakshmanan	Male	408	0	Associate Professor	PhD	25-Jan-1982	-	Regular
25	K.Vivekanandan	Male	336	0	Associate Professor	PhD	11-Jan-1988	-	Regular
26	M.Kalyanasundari	Female	336	0	Associate Professor	PhD	19-Jan-1988	-	Regular
27	S.Sunitha	Female	336	0	Associate Professor	PhD	19-Jan-1988	-	Regular
28	S.Indira	Female	192	84	Asstt. Professor	PhD	19-Jun-2000	-	Regular
29	K.G.Sekar	Male	192	48	Asstt. Professor	PhD	19-Jun-2000	-	Regular
30	L.Pushpalatha	Female	192	0	Asstt. Professor	PhD	19-Jun-2000	-	Regular
31	C.Benjamin	Male	48	168	Asstt. Professor	PhD	05-Dec-2012	-	Regular
32	B.Latha	Female	192	0	Asstt. Professor	PhD	19-Jun-2000	-	Regular
33	M.Murali	Male	180	12	Asstt. Professor	PhD	27-Aug-2001	-	Regular
34	D.Saravanan	Male	108	0	Asstt. Professor	PhD	26-Feb-2007	-	Regular
35	V.Renuga	Female	108	84	Asstt. Professor	PhD	19-Dec-2007	-	Regular
36	R.Elavarasu	Male	288	0	Associate Professor	PhD	19-Feb-1992	-	Regular
37	V.Sekar	Male	240	0	Associate Professor	PhD	02-Feb-1996	-	Regular
38	D.E.Benet	Male	312	0	Associate Professor	PhD	01-Jul-1990	-	Regular
39	T.S.Ramesh	Male	192	0	Asstt. Professor	PhD	19-Jun-2000	-	Regular
40	K.Srinivasan	Male	192	0	Asstt. Professor	PhD	19-Jun-2000	-	Regular
41	R.Soundararajan	Male	180	0	Asstt. Professor	PhD	20-Jun-2001	-	Regular

42	V.Srividya	Female	108	0	Asstt. Professor	PhD	19-Dec-2007	-	Regular
43	D.Srinivasan	Male	384	0	Associate Professor	PhD	21-Mar-1984	-	Regular
44	V.subramanian	Male	384	0	Associate Professor	PhD	17-Sep-1984	-	Regular
45	V.Kumar	Male	384	0	Associate Professor	PhD	02-Jan-1984	-	Regular
46	R.Ramesh	Male	384	0	Associate Professor	PhD	28-Nov-1984	-	Regular
47	P.S.S.Akilashri	Female	120	120	Asstt. Professor	PhD	03-Aug-2006	-	Regular
48	N.Jawaharraj	Male	192	0	Asstt. Professor	PhD	19-Jun-2000	-	Regular
49	V.Vasanthamohan	Male	192	0	Asstt. Professor	PhD	19-Jun-2000	-	Regular
50	S.Selvaraj	Male	108	0	Asstt. Professor	PhD	19-Dec-2007	-	Regular
51	K.Pandiyar	Male	384	0	Associate Professor	PhD	02-Jan-1984	-	Regular
52	V.Ramkumar	Male	384	0	Associate Professor	PhD	21-Mar-1984	-	Regular
53	N.Sudharsanam	Male	396	0	Associate Professor	PhD	20-Aug-1980	31-Mar-2013	Regular
54	S.Sriram	Male	108	120	Asstt. Professor	PhD	19-Dec-2007	-	Regular
55	Manju Somanath	Female	108	72	Asstt. Professor	PhD	19-Dec-2007	-	Regular
56	S.Gunasekar	Male	240	0	Associate Professor	PhD	02-Feb-1996	-	Regular
57	R.Prabhakar	Male	192	0	Asstt. Professor	PhD	19-Jun-2000	-	Regular
58	S.Pari	Male	228	72	Associate Professor	PhD	04-Aug-1997	-	Regular
59	A.T.Ravichandran	Male	216	132	Asstt. Professor	PhD	14-Oct-1998	-	Regular
60	S.Ravi	Male	192	144	Asstt. Professor	PhD	19-Jun-2000	-	Regular
61	T.V.Sundhar	Male	192	36	Asstt. Professor	PhD	19-Jun-2000	-	Regular
62	R.Ramasamy	Male	108	204	Asstt. Professor	PhD	28-Feb-2007	-	Regular
63	S.Kumaresan	Male	108	168	Asstt. Professor	PhD	28-Feb-2007	-	Regular
64	S.Muruganantham	Male	108	96	Asstt. Professor	PhD	19-Dec-2007	-	Regular
65	M.Iyanar	Male	108	84	Asstt. Professor	PhD	19-Dec-2007	-	Regular
66	J.Geethapriya	Female	108	36	Asstt. Professor	PhD	19-Dec-2007	-	Regular
67	D.Muthuramakrishnan	Male	192	0	Associate Professor	PhD	19-Jun-2000	-	Regular
68	P.Shanmuganantham	Male	180	132	Associate Professor	PhD	27-Aug-2001	-	Regular
69	A.Vijayasankar	Male	108	156	Asstt. Professor	PhD	01-Mar-2007	-	Regular
70	T.Seshasayee	Male	336	0	Associate Professor	PhD	18-Nov-1985	31-Oct-2013	Regular
71	V.M.Ananthanarayanan	Male	336	0	Associate Professor	PhD	21-Jan-1988	-	Regular
72	K.Rajarathinam	Male	360	0	Associate Professor	PhD	14-Nov-1985	30-Apr-2015	Regular
73	S.Eswaran	Male	288	0	Associate Professor	PhD	17-Feb-1992	-	Regular
74	S.Thirumavalavan	Male	288	0	Associate Professor	PhD	19-Feb-1992	-	Regular
75	R.Sabapathy	Male	228	0	Associate Professor	PhD	06-Dec-1997	-	Regular
76	N.Manickam	Male	192	0	Asstt. Professor	PhD	19-Jun-2000	-	Regular
77	S.Gandhi	Male	192	0	Asstt. Professor	PhD	19-Jun-2000	-	Regular
78	R.Ravichandran	Male	180	0	Asstt. Professor	PhD	27-Aug-2001	-	Regular
79	S.Neelakandan	Male	108	0	Asstt. Professor	PhD	01-Mar-2007	-	Regular
80	A.Muruganandham	Male	108	0	Asstt. Professor	PhD	19-Dec-2007	-	Regular
81	R.Sundaravel	Male	108	0	Asstt. Professor	PhD	19-Dec-2007	-	Regular
82	A.Krishnan	Male	108	0	Asstt. Professor	PhD	19-Dec-2007	-	Regular
83	P.Sivasamy	Male	360	0	Associate Professor	PhD	01-Jul-1986	-	Regular
84	C.Ashok Kumar	Male	324	0	Associate Professor	PhD	09-Jul-1987	30-Jun-2014	Regular
85	K.Uma	Female	384	0	Associate Professor	PhD	24-Aug-1981	31-Jan-2013	Regular
86	V.Gokula	Male	180	0	Asstt. Professor	PhD	31-Aug-2001	-	Regular
87	S.Senthil Kumar	Male	60	108	Asstt. Professor	PhD	15-Jun-2011	-	Regular
88	M.S.Mohamed Jaabir	Male	60	132	Associate Professor	PhD	15-Jun-2011	-	Regular
89	D.Prasanna Balaji	Male	60	0	Asstt. Professor	PhD	09-Sep-2010	-	Regular
90	P.Raghavan	Male	324	0	Associate Professor	PhD	26-Sep-1988	-	Regular
91	P.Ananthi	Female	36	60	Asstt. Professor	PhD	28-Jun-2013	-	Regular
92	M.Venkateswari	Female	84	0	Asstt. Professor	PhD	23-Dec-2008	-	Regular
93	M.Sharmila	Female	108	60	Asstt. Professor	PhD	01-Sep-2007	-	Regular
94	B.Sekar	Male	60	192	Asstt. Professor	PhD	06-Jul-2011	-	Regular
95	K.Rajesh	Male	132	0	Asstt. Professor	PhD	12-Aug-2005	-	Regular
96	K.Murugesan	Male	36	84	Asstt. Professor	PhD	08-Jul-2013	-	Regular
97	S.Sivakumar	Male	372	0	Associate Professor	PhD	13-Feb-1985	-	Regular
98	K.Srividhya	Female	144	0	Asstt. Professor	SLET	13-Jun-2007	-	Regular
99	T.G.Akila	Female	24	96	Asstt. Professor	PhD	18-Jun-2014	-	Regular
100	M.Gnanadesigan	Male	36	48	Asstt. Professor	PhD	11-Aug-2013	-	Regular

**List of Research Paper Published by Staff members of National College
(Autonomous), Tiruchirapalli, Tamil Nadu**

LIST OF RESEARCH PAPER PUBLISHED – 2014-2015

BIOTECHNOLOGY

1. **Abubacker, M. N., (2015)**, Synthesis of silver nanoparticles from plant chewing sticks and their antibacterial activity on dental pathogens. *British Biomedical Bulletin* Vol.3: pp. 81-93.
2. **Abubacker, M. N** and Kirthiga B., **(2015)**. Bioremediation potential of textile *Aspergillus flavus* teak 07 Against textile dye and their toxicity assessment *Biolife*, 3: pp. 54-60 .
3. Thaniarasu, R., Senthil Kumar, T., **Abubacker, M. N** and Rao, M. V., **(2015)**. Preliminary Phytochemical screening and evaluation of antibacterial activities of different solvent extracts of *Plectranthus bourneae* Gamble (Lamiaceae). **Asian Journal of Pharmaceutical and Clinical Research**, **8**: pp.79 – 82.
4. **Abubacker, M. N.**, Visvanathan, M and Srinivasan, S., **(2014)**. Impact of Pesticides on AMF spore population and Diversity in Banana (*Musa* spp.) plantation soils, **Biolife**, **vol.2**: pp. 1279 – 1286.
5. **Abubacker, M. N** and Kamala Devi, P., **(2014)**. *In vitro* Antifungal Potential of Bioactive compounds Oleic acid, 3-(Octadecyloxy) Propyl ester isolated from *Lepidagathis cristata* Willd. (Acanthaceae) inflorescence. **Asian Journal of Tropical Biomedicine**, **vol. 4**: pp.826 – 829.
6. Muthukumar, B., **Abubacker, M. N** and Gunasekaran, K **(2014)**. *In vitro* Antimicrobial activities of *Wedlia caledulaceae* Less (Asteraceae) leaf extract on pathogenic Bacterial strains. **Drug Invention Today**, vol. **6**: pp.120- 122.
7. **Abubacker, M. N** and Deepalakshmi, T **(2014)**. Isolation and Identification of Biolarvicide from Soursop (*Annona muricata* Linn.) leaves to Mosquito (*Aedes aegypti*) larva. **Biolife**, **vol..2**: pp. 579 – 585.
8. **Abubacker, M. N.**, Anbumani, T., Deepan, G and Cheelamuthu, C **(2014)**. Antifungal Activity of Leaf extract of *Stachytarpheta jamaicensis* Linn Vahl (Verbenaceae). **Drug Invention Today**, vol.**6**: pp. 62- 63.
9. **S. Shantkriti*** and P. Rani **(2014)**: Biological synthesis of Copper nanoparticles using *Pseudomonas fluorescens*. *International Journal of Current Microbiology and Applied Sciences*. Vol. 3 (9): pp. 374-383.
10. **M. S. Mohamed Jaabir***, S. Ramu, N. Shabeer, **S. Shantkriti**, S. Senthil Kumar **(2014)**: Preliminary evaluation of the larvicidal efficacy of coelomic fluid of *Eudrilus eugeniae* on anopheles mosquito. *International Journal of Pharmaceutical Science Invention*. Vol. 3 (8): pp.20-27.

11. Umashankar V, **Gurunathan S.** (2015) Drug Discovery – Past and Present. International Journal of Pharmacy and Pharmaceutical Sciences vol.7(4):pp.59-66.

BOTANY

12. **Kannan, V (2014)** Effect of fertilizers and vermicompost on growth, yield and biochemical changes in *Amaranthus polygonoides*. *Asian Jr. of Microbiol. Biotechnol. and Environ. Sci.* (in press)
13. **Kannan, V (2014)** Antimicrobial activities of *Delonix elata* (Bojer ex Hook.) Raf. and *Spathodea campanulata* P.Beauv *African J. Microbial, Res* (in press)
14. **Muthukumar, B (2014)** *In Vitro* Antibacterial activities of *Wedelia caledulacea* Less (Asteraceae) leaf extract on Pathogenic Bacterial Strains. *Drug Invention Today* vol. 6(2) pp.120-122.
15. **Nandagopalan. V (2014)** Ethnobotanical Survey of Folklore Plants for the Treatment of Jaundice and Snake bites in Pudukkottai District of Tamilnadu, India International J. Innovat. Drug Discovery vol. 4, (3) pp. 130-132
16. **Nandagopalan. V (2014)** Uses and commercial prospects of *Prosopis juliflora*, in Pudukkottai district, South India. International J. Phytoth. Vol. 4 (4) Pg. 162-166.
17. **Nandagopalan. V (2014)** Novel Approach to Synthesis Silver Nanoparticles using Leaf Extract of *Trichosanthes cucumerina* L. and its Antibacterial Activity. International J. Pharma. Res. Schol 3(I-2) 809-813
18. **Nandagopalan. V (2014)** An Investigation on the In Vitro Propagation of *Trichosanthes cucumerina* L.– An Important Medicinal Plant. International J. Pharma. Res. Schol. 3(I-3) 8 – 13
19. **Nandagopalan. V (2014)** An Ethno-Botanical Survey of Medicinal Plants Used By Kolli Malayalis of Nammakkal District, Eastern Ghats, Tamil Nadu, India, Euro. J. Environ. Ecol. 1(1) 33-43
20. **Nandagopalan. V (2014)** Impact of modernization of harvesting in tea plantation to improve the productivity and quality (*Camellia spp.*) J. Environ. Sci. Toxicol. and Food Technol. Vol. 8(9) 55- 59
21. **Nandagopalan. V (2014)** An Ethnobotanical Study in the Pudukkottai District, South India. The Internat. J. of Sci. & Technol. 2(8) 1-7
22. **Nandagopalan. V (2014)** An Ethnobotanical Survey of Medicinal Plants used by Local Traditional Healers of Thiruvengimalai, Tiruchirapalli District, Tamil Nadu, Southern India. Asian J. of Pharma. Sci. & Technol 5(3) 156-159
23. **Nandagopalan. V (2015)** Ethno-botanical study on the traditional healers in Pachamalai Hills of Eastern Ghats, Tamilnadu, South India. J. of Med. Plants Stud. Vol.3(2) pp.80-85.
24. **Natarajan, E. (2014)** High Frequency Shoot Regeneration of *Heliotropium zeylanicum*

- (Burm F.) Lam. from nodal explants Plant Cell Biotech. and Mole. Biol.vol. 14(3-4) pp. 111-114
25. **Natarajan, E. (2014)** Screening of Bacterial properties of *Heliotropium zeylanicum* (Burm. F) Lam. Journal of Science vol. 4(12) pp. 712-714
 26. **Anand, S.P.(2015)**.Study on preliminary phytochemical and antibacterial activity against human pathogens of an endangered orchid-*Habenaria plantaginea* Lindal.International Journal of Pharmaceutical sciences and Research vol. 6(3) pp.1101 - 06
 27. **Anand, S.P.(2015)**.In-vitro direct regeneration from nodal explants of *Toddalia asiatica* (L.) Lam Asian J. of Plant Sci. and Res.vol. 5(1) pp.49 -53.
 28. **Anand, S.P.(2014)** Antifungal Activity of *Geodorum densiflorum* (Lam.) Schltr. against Pathogenic Fungi. *American Journal of Phytomedicine and Clinical Therapeutics*. Vol. 2(12) pp.1456-61
 29. **Anand, S.P. (2014)** A review on ethnomedicinal, phytochemical and pharmacological studies of *Geodorum densiflorum* (Lam.) Schltr. - an endangered orchid. *J. Res. in Biol.vol.* 4(8) pp.1543-48
 30. **Anand, S.P.(2014)** Evaluation of Anti-diabetic activity of methanol and aqueous extracts of *Asteracantha longifolia* (Linn.) Nees.Res. J. of Pharmacol. Vol. 8(1)pp.1-5.
 31. **Anand, S.P.(2014)** Physicochemical, preliminary phytochemical analysis and antibacterial Activity against clinical pathogens of medicinally important orchid *Geodorum densiflorum* (Lam) Schltr. *Int. J. of Pharm. and Pharmaceu. Sci.* vol.6(8) pp. 558-561
 32. **Anand, S.P.(2014)** Qualitative and Quantitative Analysis of Phytochemicals in *Aerva javanica* (Burm. F.) Shult. *Acta Biomedica Scientia.vol.* 1(2) pp.93-97
 33. **Anand, S.P. (2014)** *Phyllodium Pulchellum*: A Potential medicinal plant - A review. *Int.J. Pharm. Rev. & Res.* Vol. 4(4) pp. 203- 06.
 34. **Anand, S.P. (2014)** Callus induction and *in vitro* regeneration of *Ctenolepis garcinii* – an important medicinal climber. *Internat. J. Curr. Biotechnol. Vol.* 2(2) pp.16-20.
 35. **Anand, S.P. (2014)** A Comparative study on Antimicrobial Activity of *Argemone mexicana* Linn. and *Aerva javanica* (Burm.f.) Juss. Ex. Schult. Amer. J. PharmTech. Res.vol. 4(1) pp.530-539.
 36. **Anand, S.P.(2014)** Antioxidant activity, Phenol and Flavonoid contents of *Acacia sinuata* (Lourr) Merr. Biosci. Discovery vol. 5(1) pp. 24-27.
 37. **Anand, S.P. (2014)** Antihyperglycemic activity of methanol and aqueous extracts of *Pergularia daemia* Linn. Afr. J. Biotechnol. Vol.13(1) pp. 170 -174.
 38. **Anand, S.P.(2014)** Phytochemical screening and antimicrobial activity of aerial parts of *Toddalia asiatica* (L.) Lam. J.Pharmaceu. Biol. Vol. 4(1) pp.20 -22.

39. **Ramar, K** (2015) The present investigation deals with *in vitro* Callus induction and plant regeneration of *Abutilon indicum* (L.). *J. Pharmacog. Phytochem.* vol. 3(5) p.73-76.
40. **Ramar, K** (2015) *In Vitro* Direct Multiple Shoot Induction and Flower Initiation Of *Physalis Minima* (L). An Important Medicinal Plant *Journal of Internat. Acad. Res. Multidisc.* Vol.3(1)pp. 119-124
41. **Ramar, K (2014)** *In Vitro* Shoot Multiplication and Plant Regeneration of *Physalis peruviana* L. An Important Medicinal Plant, *Internat. J. Curr. Microbiol. Appl. Sci.* vol. 3(3) pp.456-464
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