

**NATIONAL INSTITUTE OF TECHNOLOGY GOA**

Farmagudi, Ponda, Goa- 403 401

**Minutes**

Of the 24<sup>th</sup> Meeting of the

**Board of Governors**

Date: 27<sup>th</sup> September 2018 (Thursday) at 3:00 P.M

Venue: Hotel Fidalgo, Panaji, Goa.

Proceedings of the 24<sup>th</sup> meeting of the Board of Governors (BoG) of NIT Goa held on 27<sup>th</sup> September 2018 at 3:00 P.M, in Hotel Fidalgo, Panaji, Goa

Board of Governor Members Present

Prof. Gopal Mugeraya : Chairman/Ex-Officio  
Director Member  
National Institute of Technology Goa

Shri Sundeep Vasant Bambolkar , : Member  
M.D, Indoco private Ltd. Mumbai

Ms. Jyothi Vijay, : Member  
Executive Director & Chief Corporate Relations,  
BBS Business Academy, Bengaluru.

Dr. C. Vyjayanthi : Member  
Associate Professor,  
Department of Electrical & Electronics Engineering  
NIT Goa

Dr. P. Saidi Reddy : Member  
Associate Professor of Physics  
Department of Applied Sciences  
NIT Goa

Dr. Vasantha M.H : Member Secretary  
Registrar I/C,  
Associate Professor, Dept. of ECE  
NIT Goa

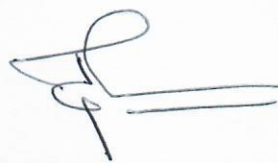
Dr. Venkatesh Ganesh Prabhu Desai, expressed his inability to attend the meeting and accorded his consent for the approval of agenda and other members expressed their inability to attend the meeting, had been granted leave of absence.



Registrar

National Institute of Technology Goa  
Farmagudi, Ponda-Goa 403 401

Secretary



National Institute of Technology Goa  
Farmagudi, Ponda-Goa 403 401

Chair person

Minutes of Board of Governors Meeting

AGENDA NOTES

**C.1 Confirmation of Minutes of 11th Senate Meeting**

The 11<sup>th</sup> Meeting of the Senate scheduled on 27/09/2018 and the minutes of the same has been attached as Annexure-VI

**Resolution: The Board has discussed on the achievements of students and appreciated the effort put by the institute in graduating the first Five (5) Ph.D students on 4<sup>th</sup> convocation. BoG has approved and confirmed the 11<sup>th</sup> senate minutes to award the degree in the 4<sup>th</sup> Convocation. The minutes of senate is attached in Annexure –I (Page No. 4-17)**

Meeting concluded at 4:30 PM with vote of thanks to the Chairperson.

Approved for issue



Dr. Vasantha M.H.

Secretary, BoG

**Registrar**  
**National Institute of Technology Goa**  
**Farmagudi, Ponda-Goa 403 401**



Prof. Gopal Mugeraya

Chairperson, BoG

**National Institute of Technology Goa**  
**Farmagudi, Ponda-Goa 403 401**

Annexure-I

**NATIONAL INSTITUTE OF TECHNOLOGY GOA**

**Farmagudi, Ponda, Goa – 403401**

Phone No: 0832-2404200, Fax No: 2402202



**MINUTES OF 11th MEETING OF THE SENATE**

**Date** : 27th September 2018  
**Time** : 11:30 A.M  
**Venue** : Conference Hall, Hotel Fidalgo, Panaji, Goa



Proceedings of the 11<sup>th</sup> meeting of the SENATE of NIT Goa held on 27<sup>th</sup> September 2018 at 11.30AM in Conference Hall, Hotel Fidalgo, Panaji, Goa.

### Senate Members

1	Prof. Gopal Mugeraya	Director, NIT Goa	<b>Chairman Senate</b>
2	Prof. Rajat Gupta	Director, NIT Mizoram, Professor Dept. of Mechanical Engineering, NIT Silchar, Assam	<b>External Member</b>
3	Mrs. Jyoti Vijay	Executive Director & Chief Corporate Relations, BSBS Business Academy, A Unit of BSBS Knowledge Ventures Pvt. Ltd, Bangalore	<b>External Member</b>
4	Prof. Airody Vasudeva Adhikari	Professor, Dept. of Chemistry, NIT Karnataka, Surathkal	<b>External Member</b>
5	Dr. Veena Thenkanidiyoor	Dean (Academics)	Member
6	Dr. Vasantha M.H.	Registrar (I/C) and Associate Prof. Dept. of ECE	Member & Secretary
7	Dr. Suresh Mikkili	Dean(Student Welfare)	Member
8	Dr. P. Saidi Reddy	Dean(Faculty Welfare)	Member
9	Dr. B. Venugopal Reddy	Dean(Research & Consultancy)	Member
10	Dr. Purushothama B. R.,	Dean(Planning and Development)	Member
11	Dr. Sarani Ghoshal M.	Dean(Institutional Relations & Alumni affairs)	Member
12	Dr. Nithin Kumar Y.B.	HoD,ECE	Member
13	Dr. Ragoju Ravi	HoD, HS	Member
14	Dr. Sreeraj E.S.	HoD, EEE	Member
15	Dr. Keshavamurthy B.N.	HoD, CSE	Member
16	Dr. C.Vyjayanthi	Asso. Professor, Dept. of EEE.	Board member

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## NATIONAL INSTITUTE OF TECHNOLOGY GOA

Date: 27/09/2018 Time : 11.30 A.M Venue: Conference Hall, Hotel Fidalgo, Panaji, Goa

**A.1 To consider and approve the list of students of 2013-17 batch of B. Tech for the award of degree in the 4th Convocation**

Five students from 2013-2017 batch of B.Tech. is recommended for the award of B.Tech. degree in the 4<sup>th</sup> Convocation who has completed all the requirements towards the award of degree. The details of the student is given in ANNEXURE I (Page No.7-8)

Dept.	No. of students appeared for the final examination	No. of students eligible for the award of degree			
		CGPA 8.5 and above (Distinction)	CGPA 6.5 and above but less than 8.5 (First Class)	Less than 6.5 CGPA	Total No. of Students
CSE	2	0	1	1	2
EEE	0	0	0	0	0
ECE	3	0	1	2	3
<b>TOTAL</b>	<b>5</b>	<b>0</b>	<b>2</b>	<b>3</b>	<b>5</b>

**Resolution of the Senate:**

*Senate recommended to the board for the award of the BTech degree to the proposed students.*

**A.2 To consider and approve the list of students of 2014-18 batch of B. Tech for the award of degree in the 4th Convocation.**

Total 81 names from 2014-18 batch of B.Tech. were recommended for the award of B.Tech. degree in the 3<sup>rd</sup> Convocation who have completed all the requirements towards the award of degree. The list of students proposed for the award of B.Tech. degree is given in ANNEXURE I (Page No.7-8)

Dept.	No. of students appeared for the final examination	No. of students eligible for the award of degree			
		CGPA 8.5 and above (Distinction)	CGPA 6.5 and above but less than 8.5 (First Class)	Less than 6.5 CGPA	Total No. of Students
CSE	30	7	21	1	29
EEE	26	5	19	1	25
ECE	27	7	19	1	27
<b>TOTAL</b>	<b>83</b>	<b>19</b>	<b>59</b>	<b>3</b>	<b>81</b>

**Resolution of the Senate:**

*Senate recommended to the board for the award of the BTech degree to the proposed students.*



**A.3 To consider and approve the names of medal recipients of 2014-18 batch of B. Tech. who will be honored in 4th Convocation.**

There will be one Gold medal called Director's Medal for academic topper of the Institute. There will be three Gold medals for the toppers in each department. The names and details of the recipients is given in the following table.

Sl. No.	Medal Name	Dept.	Reg. No.	Student Name	CGPA
1	Director's Gold Medal	EEE	14EEE1063	ASHWIN K	9.78
2	Gold Medal	CSE	14CSE1031	KEVIN INACIO DO ROSARIO MONTEIRO	9.33
3	Gold Medal	EEE	14EEE1063	ASHWIN K	9.78
4	Gold Medal	ECE	14ECE1031	ALVARES LORRAINE ANNE	9.26

**Resolution of the Senate:**

*Senate recommended to the board for the award of the medals to the proposed students.*

**A.4 To consider and approve the list of students of 2015-17 batch of M. Tech. to be awarded with degree in 4th Convocation.**

One student from 2015-2017 batch of M.Tech. is recommended for the award of M.Tech. degree in the 4<sup>th</sup> Convocation who has completed all the requirements towards the award of degree. The details of the student is given in ANNEXURE II (Page No.9-10)

Specialization	No. of students appeared for the final examination	No. of students eligible for the award of degree			
		CGPA 8.5 and above (Distinction)	CGPA 6.5 and above but less than 8.5 (First Class)	Less than 6.5 CGPA	Total No. of Students
CSE	0	0	0	0	0
PEPS	1	0	1	0	1
VLSI	0	0	0	0	0
<b>TOTAL</b>	<b>1</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>1</b>

**Resolution of the Senate:**

*Senate recommended to the board for the award of the MTech degree to the proposed students*

**A.5 To consider and approve the list of candidates of 2016-18 batch of M. Tech. to be awarded with degree in the 4th Convocation.**

Total 41 names from 2016-18 batch of M.Tech. were recommended for the award of M.Tech. degree in the 4<sup>th</sup> Convocation who have completed all the requirements towards the award of degree. The list of students proposed for the award of M.Tech. degree is given in ANNEXURE II (Page No.9-10)

Specialization	No. of students appeared for the final examination	No. of students eligible for the award of degree			
		CGPA 8.5 and above (Distinction)	CGPA 6.5 and above but less than 8.5 (First Class)	Less than 6.5 CGPA	Total No. of Students
CSE	14	5	9	0	14
PEPS	12	5	7	0	12
VLSI	15	7	8	0	15



<b>TOTAL</b>	<b>41</b>	<b>17</b>	<b>24</b>	<b>0</b>	<b>41</b>
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**Resolution of the Senate:**

The Senate appreciated the effort put up by the Institute and the faculty of NIT Goa in proposing the names of 41 students for the award of the MTech degree in the 4<sup>th</sup> Convocation.

*Senate recommended to the board for the award of the MTech degree to the proposed students*

**A.6 To consider and approve the names of medal recipients of 2016-18 batch of M. Tech. who will be honored in 4th Convocation.**

There will be one Gold medal called Director's Medal for academic topper of the Institute. There will be three Gold medals for the toppers in each department. The names and details of the recipients is given in the following table.

Sl. No.	Medal Name	Dept.	Reg. No.	Student Name	CGPA
1	Director's Gold Medal	EEE	16CSE2009	DODIA SHUBHAM JAGDISH	9.64
2	Gold Medal	CSE	16CSE2009	DODIA SHUBHAM JAGDISH	9.64
3	Gold Medal	EEE	16EEE2005	SHAIK BENAZEER	9.03
4	Gold Medal	ECE	16ECE2013	SHOBHA	9.13

**Resolution of the Senate:**

*Senate recommended to the board for the award of the medals to the proposed students.*

**A.7 To consider and approve the list of candidates to be conferred with the Ph.D. degree of the Institute**

Five students are recommended for the award of Ph.D. degree in the 4<sup>th</sup> Convocation who has completed all the requirements towards the award of degree. The details of the students is given in ANNEXURE III (Page No.11)

Department	No. of students eligible for the award of degree
CSE	3
EEE	1
ECE	1
<b>Total</b>	<b>5</b>

**Resolution of the Senate:**

The Senate congratulated and appreciated the effort put up by the institute and the faculty of NIT Goa in proposing the names of 5 students for the award of the PhD degree in the 4<sup>th</sup> Convocation.

*Senate recommended to the board for the award of the PhD degree to the proposed students*

**A.8 To approve the format of the PhD degree certificate**

There are 5 candidates who have eligible for the award of the Ph.D. degree of the Institute. Hence it is necessary to approve the format of the degree certificate. The PhD degree certificate is available in Annexure IV (Page No. 12).

**Resolution of the Senate:**

*Senate approved the proposed format for PhD degree certificate.*

**A.9 To approve the award of “Honoris Causa” for the eminent personality**

It is proposed to confer the “Honoris Causa” degree of the Institute to Shri Manohar Parrikar, an IIT Bombay Alumnus, Defense Minister, Govt. of India (November 2014-March 2017) for his contributions in the field of Technical Education, Nation Building, Public Welfare and Societal Commitments. His CV is available in Annexure V (Page No.13)

**Resolution of the Senate:**

*Senate recommended to the board the award of the Honoris Causa degree to the proposed candidate and also approved the format of the degree certificate for the same.*

**A.10 Additional items, if any, with permission of the Chairman, Senate**



**Annexure I**

**BACHELOR OF TECHNOLOGY (B.Tech.) DEGREE AWARDEES IN  
4<sup>th</sup> CONVOCATION**

**Admission Batch: 2013 -2014**  
**Computer Science and Engineering**

SL. NO.	REG. NO.	STUDENT NAME
1	13CSE007	ARJIT PUNIA
2	13CSE022	SHASHANK PRAKASH SRIVASTAVA

**Electronics and Communication Engineering**

SL. NO.	REG. NO.	STUDENT NAME
1	13ECE030	D ARUN KUMAR
2	13ECE036	DEEPAK KUMAR
3	13ECE053	VAIBHAV KATARIA

**Admission Batch: 2014 -2018**  
**Computer Science and Engineering**

SL. NO.	REG. NO.	STUDENT NAME
1	14CSE1001	AMIT KUMAR
2	14CSE1002	ANNETTE CATHERINE PAUL
3	14CSE1003	BIKUMALLA PRUDHVI RAJ
4	14CSE1004	COLACO LARREN FRANCIS
5	14CSE1005	DHAVALIKAR GAURI PANDURANG
6	14CSE1006	GORLE HEMAVATHI
7	14CSE1007	HIMANSHU SINGH
8	14CSE1008	KAMISSETTY YAMINI PREETHI
9	14CSE1009	KARETI VINEETH SAI
10	14CSE1010	KULDEEP SINGH
11	14CSE1012	MANGALOREKAR KUNAL GAUTAM
12	14CSE1013	MANJREKAR CHINMESH GURUNATH
13	14CSE1014	MD FAHIM ANSARI
14	14CSE1015	NIDHI RANJAN
15	14CSE1016	NIKHIL CHAUDHARY
16	14CSE1017	OM PRAKASH VERMA
17	14CSE1018	PALASH RAJENDRA SOUNDARKAR
18	14CSE1019	PRANAV VINOD MACHINGAL
19	14CSE1021	REETWIK DAS
20	14CSE1022	ROHIT RAJ HASMUKH
21	14CSE1023	SHAHIL AHMED C G
22	14CSE1024	SOURAB M
23	14CSE1025	SUHANI SHRIVASTAVA
24	14CSE1026	SUNIL SRI DATTA JAMMALAMADAKA
25	14CSE1027	TAMBA SOHAM GIRISH
26	14CSE1028	TANGELLA MANVITHA
27	14CSE1029	VANNATI SAI KUMAR
28	14CSE1030	YALLAMELLI ABHISHEK
29	14CSE1031	KEVIN INACIO DO ROSARIO MONTEIRO



**Electrical and Electronics Engineering**

SL. NO.	REG. NO.	STUDENT NAME
1	14EEE1061	ABHIMANYU MAURYA
2	14EEE1062	BHATTACHARJEE ARUNABH
3	14EEE1063	ASHWIN K
4	14EEE1064	ASISH RAJAN
5	14EEE1065	BHAGAWATBHAI VAD
6	14EEE1066	CHIGICHERLA KIRAN
7	14EEE1067	D MOHAN KUMAR
8	14EEE1069	DURGA PRASAD KHATROTHU
9	14EEE1071	KRISHNA KADAM
10	14EEE1073	MAHSHOOQ ABDUL MAJEED
11	14EEE1074	NAIK ROHAN GOVIND
12	14EEE1076	NAGARAJU NALLA
13	14EEE1077	NAROJU SANDARSH
14	14EEE1078	PATEL PRANAVKUMAR JAYESHBHAI
15	14EEE1079	PATIL NIKHIL SURESH
16	14EEE1080	POONDLA VENKATA RAMYA
17	14EEE1081	PRINCE
18	14EEE1082	RAHUL BATRA
19	14EEE1083	SANKI PRAVALLIKA
20	14EEE1084	SHENVI AMONKAR KAPIL VASSUDEV
21	14EEE1085	SINAI PISSURLENCAR ROHAN PRASAD
22	14EEE1086	SK ROSHAN ALI
23	14EEE1087	SPANDANA KODALI
24	14EEE1088	SUMEET KHANNA
25	14EEE1089	THELLA MAHESH

**Electronics and Communication Engineering**

SL. NO.	REG. NO.	STUDENT NAME
1	14ECE1031	ALVARES LORRAINE ANNE
2	14ECE1032	ASHA ANIL
3	14ECE1033	AYALASOMAYAJULA AVINASH
4	14ECE1034	BALE RAJ PRAKASH
5	14ECE1035	BANKAR NIKITA SUBHASH
6	14ECE1036	BHAVEEN KUMAR
7	14ECE1037	CHINCHU PANDIAN SATISH KUMAR
8	14ECE1038	DESAI RAHUL SUHAS
9	14ECE1039	GOVEKAR DEVESH DIGAMBAR
10	14ECE1040	K YASHWANTH
11	14ECE1041	KATTULA USHA LAHARI
12	14ECE1042	MACHERLA SRIJA
13	14ECE1043	MANEESH KUMAR BARANWAL
14	14ECE1044	MARRI VINEETH REDDY
15	14ECE1045	MEHRA TANISHQ
16	14ECE1046	NAIK SANMITRA BHARAT
17	14ECE1047	NAMEERA KOUSAR
18	14ECE1048	PULIGILLA PRASHANTH
19	14ECE1049	PADGAONKAR RAHUL SANTOSH
20	14ECE1050	PADIDELA VAMSHI
21	14ECE1053	RAMAKRISHNA BACHALLI
22	14ECE1054	S PRAVEEN
23	14ECE1055	SHWETA ANANT
24	14ECE1056	TALISSETTY SAI SEETHARAMAIAH
25	14ECE1057	THALY JANHAVI ALIAS MADHURI JEETENDRA
26	14ECE1058	VALLEPU DEEPTHI
27	14ECE1059	VERNEKAR EESHAAN KANHAIYA



**Annexure II**

**MASTER OF TECHNOLOGY (M.Tech.) DEGREE AWARDEES IN  
4th CONVOCATION**

**Admission Batch: 2015-2016**  
**Power Electronics and Power Systems**

SL. NO.	REG. NO.	STUDENT NAME
1	15EEE2007	MANOJ KUMAR MALIK

**Admission Batch: 2016-2017**  
**Computer Science and Engineering**

SL. NO.	REG. NO.	STUDENT NAME
1	16CSE2002	ADITYA KUMAR
2	16CSE2003	GEDAM ASHWIT ASHOK
3	16CSE2004	KADAM DEEKSHA MILIND
4	16CSE2005	KAVERI CHATRA
5	16CSE2006	MANDEEP KUMAR
6	16CSE2007	MARYA SANGEETHA
7	16CSE2008	SABELLA VEERRAGHAVA REDDY
8	16CSE2009	DODIA SHUBHAM JAGDISH
9	16CSE2010	SONY S ALLAPPA
10	16CSE2011	SPOORTHY V
11	16CSE2012	SWATHI P
12	16CSE2013	UPASANA BHATTACHARJEE
13	16CSE2014	VISHNU KUMAR
14	16CSE2015	SIDDARAM S BADIGER

**Power Electronics and Power Systems**

SL. NO.	REG. NO.	STUDENT NAME
1	16EEE2002	AJAY KUMAR CHOUDHARY
2	16EEE2003	AKKIREDDY ASWANI KUMAR
3	16EEE2005	SHAIK BENAZEER
4	16EEE2007	GOMATHI RAMALINGAM
5	16EEE2008	GUNUPATI KRISHNA REDDY
6	16EEE2009	KANDUKURI SURENDRA
7	16EEE2010	KOLAKALURI VINAY KUMAR
8	16EEE2012	KAMBLE PRATIKSHA HIRDIRAM
9	16EEE2013	PRIYANKA YUSSUF
10	16EEE2015	SHEETAL CYRIAC
11	16EEE2016	SHUBHAM KUMAR PAYASI
12	16EEE2017	VISHAL BHARTI

**VLSI**

<b>SL. NO.</b>	<b>REG. NO.</b>	<b>STUDENT NAME</b>
1	16ECE2001	ANIRUDHA PANDEY
2	16ECE2003	BRIJESH KUMAR
3	16ECE2004	CHETAN KAMBLE S
4	16ECE2006	DHAVALA SHASHIDHAR
5	16ECE2007	H PREM SAI KUMAR
6	16ECE2009	PRASAD VERNEKAR
7	16ECE2010	PRAVEEN YADAV
8	16ECE2011	PURNIMA KALEKAR
9	16ECE2012	SARATH KRISHNANUNNI K S
10	16ECE2013	SHOBHA
11	16ECE2014	SUNIL RATHORE
12	16ECE2015	TALLURI VINEEL JESSY
13	16ECE2016	JIMMIDI MURALIDHAR BABU
14	16ECE2017	PRADEEP R
15	16ECE2018	BARVE SAMPADA UDAIKUMAR



**Annexure III**

**DOCTOR OF PHILOSOPHY (PH.D.) DEGREE AWARDEES IN  
4th CONVOCATION**

**Computer Science and Engineering**

S.No.	Reg. No.	Name	Title
1.	15CSE3004	RAMALINGASWAMY CHERUKU	“Design and Development of Efficient Soft Computing Algorithms for Identification of Type-2 Diabetes Mellitus”
2.	14CSE3002	DIWAKAR PRASAD TRIPATHI	“Credit Score Data Classification for Credit Risk Analysis using Soft Computing Techniques”
3.	14CSE3001	AHSAN HUSSAIN	“Data Mining Techniques for Enhancing Communication And Accurate Location Prediction in Social Networks”

**Electrical and Electronics Engineering**

S.No.	Reg. No.	Name	Title
1.	14EEE3001	MATAM MANJUNATH	“Advanced Reconfigurable Solar Photovoltaic ARRAY Strategies for Normal and Partial Shade Conditions”

**Electronics and Communication Engineering**

S.No.	Reg. No.	Name	Title
1.	14ECE3001	B NARESH KUMAR REDDY	“System Level Fault Tolerance Core Mapping on NOC with Enhanced Performance and Energy Efficiency”

**Front Page**

Serial No.  Enrollment No.  

**राष्ट्रीय प्रौद्योगिकी संस्थान गोवा**  
**National Institute of Technology Goa**

*Upon the recommendation of the senate, hereby confers the degree of*  
**Doctor of Philosophy in Engineering**  
on  
**SHUBHRO**

*In recognition of the Research work on*  
**APPLICATION OF TITANIUM DIOXIDE NANOPARTICLES IN**  
**OPTOELECTRONICS AND BIO MEDICAL FIELD**

*Given this day, the 28<sup>th</sup> of September, 2018*  
*under the seal of the Institute at Goa in the Republic of India.*

**Chairman**  
**Board of Governors** **Director**

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Prepared by: Dealing Assistant (Exam Cell)

Compared by: Assistant Registrar (Academics)

Dean (Academics)



## Annexure V

Manohar Parrikar, IIT Bombay Alumnus, Defence Minister (Nov: 2014—Mar: 2017) Chief Minister of Goa

### Contribution

- Ensured minimum loss of life as a Defence Minister and worked with Major D. P Singh, an amputee, on this aspect
- Logistics Exchange Memorandum of Agreement, or LEMOA – an agreement for close military cooperation – with the US. In many ways, this was a major departure from India's foreign policy objective to avoid any military pact with a foreign power.
- He set up a number of committees to look into matters ranging from wage and pension anomalies to defence purchases in a bid to make the ministry more efficient.
- Introduced a scheme of providing education to special children. The scheme, to help the schools create infrastructure by providing loan, was introduced in 2015 under which grant up to Rs. 1 to 2 crore is provided to the institutions.
- The scheme of providing e-notepads to students studying in the fifth and the ninth standards.
- Griha Aadhar Scheme of Rs. 15,000/ to be paid to middle class and lower middle class house wives in the state (2012)
- Ladli Laxmi Scheme of Rs. 1 Lakh to be paid to Girl Child (2012)
- Issuance of Kisan cards--a credit delivery mechanism, due to the Kisan Card, readymade data of each farmer on cultivation is available. This data can be used as a base for deciding his upper limit for loan of Rs. 50,000/
- Launch of Umbrella scheme in 2017 to provide financial assistance to State-based entrepreneurs of Start-Ups
- Dayanand Social Security scheme, under which, the government gives a monthly financial aid of 2,000 to senior citizens, widows, disabled and HIV/AIDS-affected persons. Goa has a total of 1, 18,000 DSSS beneficiaries and the monthly financial outgo for the scheme is Rs. 23 crore.
- Baby-Screening scheme to screen newborn babies for detecting metabolic disorders. Parrikar reintroduced the scheme after Congress